EDUS071718





Engineering Data

Split Type Air Conditioners

- Heat Pump -

FDMQ-R Series







Split Type Air Conditioners FDMQ-R Series

	FDMQ09RVJU FDMQ12RVJU	RX09RMVJU
Heat Pump	FDMQ12RVJU	RX12RMVJU RX15RMVJU
	FDMQ18RVJU	RX18RMVJU
	FDMQ24RVJU	RX24RMVJU

1.	Powe	er Supply	3
2.	Func	tions	4
3.	Spec	ifications	5
4.	Dime	ensions	8
	4.1	Indoor Unit	8
	4.2	Outdoor Unit	10
5.	Wirin	g Diagrams	12
		Indoor Unit	
		Outdoor Unit	
6.	•	g Diagrams	
	6.1	Indoor Unit	
		Outdoor Unit	
7.	•	acity Tables	17
	7.1	Capacity Correction Factor by the Length of Refrigerant Piping	00
~	~	(Reference)	
8.	•	ation Limit	
9.		Characteristics	
	9.1	External Static Pressure	
10			
10		Id Level Measuring Location	
		Indoor Unit	
	-	Outdoor Unit	-
11		ric Characteristics	
		llation Manual	
12		Indoor Unit	-
		<brc1e73> Wired Remote Controller</brc1e73>	
		<brc082a43> Wireless Remote Controller</brc082a43>	
		Outdoor Unit	

13.Operation Manual	104
13.1 With <brc1e73> Wired Remote Controller</brc1e73>	112
13.2 With <brc082a43> Wireless Remote Controller</brc082a43>	162
14.Options	170
14.1 Option List	170
14.2 <kddfp63b56 80=""> Filter Chamber</kddfp63b56>	171
14.3 <dcs302c71> Central Remote Controller</dcs302c71>	173
14.4 <dcs301c71> Unified ON/OFF Controller</dcs301c71>	
14.5 <dst301ba61> Schedule Timer Controller</dst301ba61>	211
14.6 <kdap25a56 71a=""> Air Discharge Adapter</kdap25a56>	
14.7 <kdbd63a160> Shield Plate for Side Plate</kdbd63a160>	231
14.8 <krcs01-4b> Remote Sensor</krcs01-4b>	233
14.9 <kpw937e4> Air Direction Adjustment Grille</kpw937e4>	
14.10 <kpw063a4> Air Direction Adjustment Grille</kpw063a4>	
14.11 <kkg067a41> Back Protection Wire Net</kkg067a41>	
14.12 <kkg063a42> Back Protection Wire Net</kkg063a42>	241
14.13 <ftdbhms, ftdbhml,="" keh063a4e="" keh067a41e,=""></ftdbhms,>	
Drain Pan Heater	
14.14 <kps067a41> Snow Hood (Intake Side Plate)</kps067a41>	
14.15 <kps067a42> Snow Hood (Intake Rear Plate)</kps067a42>	250
14.16 <kps067a44> Snow Hood (Outlet)</kps067a44>	252
14.17 <kps063a41> Snow Hood (Intake Side Plate)</kps063a41>	254
14.18 <kps063a44> Snow Hood (Intake Rear Plate)</kps063a44>	256
14.19 <kps063a47> Snow Hood (Outlet)</kps063a47>	



Cautions
1. Air conditioners should not be installed in areas where corrosive gases, such as acid gas or alkaline gas, are produced.
2. If the outdoor unit is to be installed close to the sea shore, direct exposure to the sea breeze should be avoided and choose an outdoor unit with anti-corrosion treatment.

1. Power Supply

Indoor Unit	Outdoor Unit	Power Supply
FDMQ09RVJU	RX09RMVJU	1 phase, 208 - 230 V, 60 Hz
FDMQ12RVJU	RX12RMVJU	
FDMQ15RVJU	RX15RMVJU	
FDMQ18RVJU	RX18RMVJU	
FDMQ24RVJU	RX24RMVJU	

Note: Power Supply Intake ; Outdoor Unit

2. Functions

Category	Functions	FDMQ09/12/15/18/24RVJU RX09/12/15/18/24RMVJU with BRC1E73	FDMQ09/12/15/18/24RVJU RX09/12/15/18/24RMVJU with BRC082A43	Category	Functions	FDMQ09/12/15/18/24RVJU RX09/12/15/18/24RMVJU with BRC1E73	FDMQ09/12/15/18/24RVJU RX09/12/15/18/24RMVJU with BRC082A43
Basic	Inverter (with inverter power control)	•	•	Health &	Auto cleaning filter	—	—
Functions	Operation limit for cooling	Refer t	o P. 34	Cleanliness	Air-purifying filter	—	—
	Operation limit for heating	TICICIT	.01.04		Titanium apatite deodorizing filter	—	—
	PAM control	•	•		Silver ion anti-bacterial drain pan	•	•
	Standby electricity saving	—	—		Longlife filter (option)	•	•
Compressor	Oval scroll compressor		—		Air filter	—	—
	Swing compressor	•	•		Filter cleaning indicator	•	•
	Rotary compressor		_		Wipe-clean flat panel	_	—
	Reluctance DC motor	•	•		Washable grille	—	—
Comfortable Airflow	Power-airflow flap (horizontal blade)	—	—		MOLD PROOF operation	—	—
Annow	Power-airflow dual flaps	_	_		Good-sleep cooling operation	_	—
	(horizontal blade)			Timer	Setpoint auto reset	•	—
	Power-airflow diffuser		_		Setpoint range restriction	•	—
	Wide-angle louvers (vertical blades)	—	—		WEEKLY TIMER operation	—	—
	Auto-swing (up and down)		—		Schedule TIMER operation	•	—
	Auto-swing (right and left)		—		24-hour ON/OFF TIMER	•	—
	Individual flap control	—	—		Count up/down ON/OFF timer	—	•
	3-D airflow		—		NIGHT SET mode	—	—
	COMFORT AIRFLOW operation	_	_		Off Timer (turns unit off after set time)	•	_
	Switchable fan speed (3 steps)	٠	•	Worry Free (Reliability &	Auto-restart (after power failure)	•	•
0 ()	Auto fan speed	•		Durability)	Self-diagnosis (R/C, LED)	•	•
Comfort Control	Indoor unit quiet operation		_		Wiring error check function	_	—
0011101	NIGHT QUIET mode (automatic)		_		Anti-corrosion treatment of outdoor heat exchanger	•	•
	OUTDOOR UNIT QUIET operation (manual)		_	Flexibility	Multi-split/split type compatible indoor unit	•	•
	2 selectable temperature sensors	•	—				
	Auto-cooling/heating changeover	•	•		H/P, C/O compatible indoor unit		_
	Quick warming function	•	•		Flexible power supply correspondence	_	_
	Hot-start function	•	•				
	Automatic defrosting Program dry function	•	•		Chargeless	32.8 ft (10 m)	32.8 ft (10 m)
	Fan only	•	•		Either side drain (right or left)		_
Lifestyle	POWERFUL operation (non-inverter)	—	_		Drain pump	•	•
Convenience	POWERFUL operation (inverter)	—	_		Power selection	_	—
	Priority-room setting	—	_		Low outdoor temperature cooling		-
	COOL/HEAT mode lock	—	_		operation (-20°C) (-4°F)	•	•
	HOME LEAVE operation	-	—	1	°F/°C changeover R/C temperature	•	
	ECONO operation	—	—		display (factory setting: °F)	•	
	Emergency operation switch	—	•	Remote	Remote control adaptor		
	Signal receiving sign	—	•*	Control	(normal open pulse contact) (option)	_	_
	R/C with back light	•			Remote control adaptor (normal open contact) (option)	_	_
				1	DIII-NET compatible (adaptor) (option)	•	•
				1	Wireless LAN connection		
	1			Pomoto	Wireless (option)	•	•
				Remote		•	

Note: • : Available

- : Not available

 \bigstar Receiving sound only

3. Specifications

	Indoor Unit		FDM	Q09RVJU	FDMQ	12RVJU			
Model	Outdoor Unit		RX0	9RMVJU	RX12	RMVJU			
	Outdoor Unit		Cooling	Heating	Cooling	Heating			
Power Supply	•		1 phase, 20	08-230 V, 60 Hz	1 phase, 208	3-230 V, 60 Hz			
		kW	2.64	—	3.18	_			
Cooling capacity *1 *4		Btu/h	9,000	—	10,800	-			
		kcal/h	2,270	_	2,720	_			
		kW		3.18	_	3.99			
Heating capacity $\star 2 \star 4$		Btu/h	—	10,900	_	13,600			
0, , ,		kcal/h	_	2,750	_	3,430			
		kW	_	1.98	_	2.49			
Heating capacity $\star 3 \star 4$		Btu/h	_	6,800		8,500			
riculing supusity xo x4		kcal/h	_	1,710		2,140			
SEER/HSPF		Rodi/II	17.8	10.3	19.4	10.6			
COP (Rated)		W/W	-	4.1		3.7			
EER (Rated)				4.1		5.7			
. ,		Btu/W·h	11.1		11.6				
Indoor Unit			FDM	Q09RVJU	FDMQ	12RVJU			
Casing Color				—					
Dimensions (H × W × D)		in. (mm)		1-1/2 (245 × 700 × 800)		-1/2 (245 × 700 × 800)			
	Туре			s Fin Coil		Fin Coil			
Coil	Rows × Stages × Fi			26 × 18		6 × 18			
	Face Area	ft² (m²)	1-15/	16 (0.178)	1-15/1	6 (0.178)			
	Туре		Sirc	cco Fan	Siroc	co Fan			
	Motor Output			130	1	30			
Fan	Airflow Rate H /	M/L cfm	343 / 290 / 240 (9.7 / 8.2 / 6.8)	343 / 290 / 240	392 / 332 / 275	392 / 332 / 275			
Fall	AINIOW Hale H /	(m³/min)	(9.7 / 8.2 / 6.8)	(9.7 / 8.2 / 6.8)	(11.1 / 9.4 / 7.8)	(11.1 / 9.4 / 7.8)			
	External Static Pres	sure inH ₂ O	0.20 (0	0.60 - 0.12)	0.20 (0.	60 - 0.12)			
	★5	Pa	50 (150 - 30)	50 (1	50 - 30)			
Sound Pressure Level		dB(A)	32	32	33	33			
Sound Power Level		dB(A)	46	46	47	47			
Air Filter ★6									
Weight (Mass)		Lbs (kg)	6	4 (29)	64	(29)			
· · · · · · · · · · · · · · · · · · ·	Liquid	in. (mm)		6.4) (Flare)		4) (Flare)			
Piping Connections	Gas	in. (mm)		9.5) (Flare)	\$ 3/8 (9.5) (Flare)				
r iping connections	Drain	in. (mm)		O.D. \ 1-1/4 (32)	I.D. \u03c6 (1.25) / O.D. \u03c6 1-1/4 (32)				
	Wired	III. (IIIII)		C1E73	1 1 7				
Remote Controller (Option)	Wireless			C082A43	BRC1E73 BRC082A43				
	wireless				RX12RMVJU				
Outdoor Unit				9RMVJU					
Casing Color				y White	· · · · · · · · · · · · · · · · · · ·	White			
Dimensions (H × W × D)		in. (mm)		1-3/16 (550 × 675 × 284)		-3/16 (550 × 675 × 284)			
	Туре			s Fin Coil		Fin Coil			
Coil	Rows × Stages × Fi			24 × 17		4 × 17			
	Face Area	ft² (m²)		16 (0.342)		6 (0.342)			
	Model			23AUXD		3AUXD			
Compressor	Туре		Hermetically S	Sealed Swing Type	Hermetically Sealed Swing Type				
	Motor Output	W		790	7	90			
	Туре		Pr	opeller	Pro	peller			
Fan	Motor Output	W		39		39			
	Airflow Rate	cfm	985 (27.9)	1,105 (31.3)	1,105 (31.3)	1,105 (31.3)			
	, and with ale	(m³/min)	· · · ·			,			
Sound Pressure Level		dB(A)	46	50	49	51			
Sound Power Level		dB(A)	58	62	61	63			
Weight (Mass)		Lbs (kg)		0 (27)	60	(27)			
	Liquid	in. (mm)	φ 1/4 (6.4) (Flare)	φ 1/4 (6	4) (Flare)			
Piping Connections	Gas	in. (mm)	φ 3/8 (9.5) (Flare)		5) (Flare)			
	Drain	in. (mm)	I.D. (¢ 5/8 (16)	Ι.D. φ	5/8 (16)			
Safety Devices				Fuse	F	use			
Capacity Step		%	Compressor Revolution S	peed Control (Inverter System)	Compressor Revolution Spe	eed Control (Inverter System)			
Refrigerant Control				Expansion Valve		pansion Valve			
Max. Interunit Piping Le	ngth	ft (m)		5/8 (20)		/8 (20)			
Max. Interunit Height Dif		ft (m)		1/4 (15)	49-1/4 (15)				
	Туре	,		-410A		410A			
Refrigerant	Charge	Lbs (kg)		9 (0.95)					
	-	LUS (KG)		9 (0.95) /C50K	2.09 (0.95)				
Refrigerant Oil	Type	fl a= (1)			FVC50K				
	Charge	fl oz (L)		8 (0.375) 12997C	12.68 (0.375)				
Drawing No.					12.68 (0.375) 3D112997C				

Notes:

★1 Indoor temp.: 80.0°FDB (26.7°CDB), 67.0°FWB (19.4°CWB) / Outdoor temp.: 95.0°FDB (35.0°CDB) / Equivalent piping length: 25 ft (7.6 m) / Level difference: 0
 ★2 Indoor temp.: 70.0°FDB (21.1°CDB) / Outdoor temp.: 47.0°FDB (8.3°CDB), 43.0°FWB (6.1°CWB) / Equivalent piping length: 25 ft (7.6 m) / Level difference: 0
 ★2 Indoor temp.: 70.0°FDB (1.1°CDB) / Outdoor temp.: 17.0°FDB (8.3°CDB), 43.0°FWB (0.1°CWB) / Equivalent piping length: 25 ft (7.6 m) / Level difference: 0

Indoor temp.: 70.0°FDB (21.1°CDB) / Outdoor temp.: 17.0°FDB (-8.3°CDB), 15.0°FWB (-9.4°CWB) / Equivalent piping length: 25 ft (7.6 m) / Level difference: 0 ★3

Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.
 External static pressure is changeable in 13 (FDMQ09/12RVJU), 11 (FDMQ15/18/24RVJU) stages by remote

controller.

 $\star 6$ Air filter is not standard accessory, but please mount it in the duct system of the suction side. Select its dust collection efficiency (gravity method) 50% or more.

Conversion Formulae $\label{eq:kcal/h} \begin{array}{l} kcal/h = kW \times 860 \\ Btu/h = kW \times 3412 \\ cfm = m^3/min \times 35.3 \end{array}$

	Indoor Unit		FDMQ1		FDMQ18RVJU					
Model	Outdoor Unit		RX15R	MVJU	RX18F	RMVJU				
			Cooling	Heating	Cooling	Heating				
Power Supply			1 phase, 208-	230 V, 60 Hz	1 phase, 208-	08-230 V, 60 Hz				
		kW	4.23	_	5.16	_				
Cooling capacity ★1 ★4	4	Btu/h	14,400	<u> </u>	17,600	_				
		kcal/h	3,630	<u> </u>	4,440	_				
		kW	_	5.28	_	6.33				
Heating capacity ★2 ★4	4	Btu/h	—	18,000	_	21,600				
		kcal/h	_	4,540	_	5,440				
		kW	—	3.36	_	3.99				
Heating capacity ★3 ★4	4	Btu/h	_	11,500	—	13,600				
		kcal/h	_	2,900	_	3,430				
SEER/HSPF			20.2	10.3	18.5	10.3				
COP (Rated)		W/W	_	3.8	—	3.8				
EER (Rated)		Btu/W·h	12.7	—	12.50	_				
Indoor Unit			FDMQ1	5RVJU	FDMQ1	8RVJU				
Casing Color			-	-	-	_				
Dimensions ($H \times W \times D$	0)	in. (mm)	9-5/8 × 39-3/8 × 31-1/	2 (245 × 1,000 × 800)	9-5/8 × 39-3/8 × 31-1/	2 (245 × 1,000 × 800)				
	Туре		Cross F	in Coil	Cross I	Fin Coil				
Coil	Rows × Stages × Fin per In	ich	2 × 26	6 × 18	3 × 26	6 × 18				
	Face Area	ft² (m²)	3-1/8 (0.288)	3-1/8 ((0.288)				
	Туре		Siroco	o Fan		o Fan				
	Motor Output		23	30	20	30				
Fan	Airflow Rate H / M / L		516 / 438 / 360 (14.6 / 12.4 / 10.2)	516 / 438 / 360 (14.6 / 12.4 / 10.2)	675 / 572 / 473 (19.1 / 16.2 / 13.4)	675 / 572 / 473 (19.1 / 16.2 / 13.4)				
	External Static Pressure ★5	inH ₂ O	0.20 (0.6	/		60 - 0.20)				
	*5	Pa	50 (15 34	/	50 (15					
Sound Pressure Level		dB(A)		34	35	35				
Sound Power Level		dB(A)	48	48	49	49				
Air Filter ★6			-	-	-	_				
Weight (Mass)		Lbs (kg)	77 (,	82 (, ,				
	Liquid	in. (mm)	φ 1/4 (6.4		φ 1/4 (6.4	,, ,				
Piping Connections	Gas	in. (mm)	¢ 1/2 (12.	/ /	φ 1/2 (12.	, , ,				
	Drain	in. (mm)	I.D. φ 1 (25) / O		I.D. \u03c6 1 (25) / O.D. \u03c6 1-1/4 (32) BRC1E73					
Remote Controller	Wired		BRC							
(Option)	Wireless		BRC08		BRC0					
Outdoor Unit			RX15R		RX18RMVJU					
Casing Color			Ivory		Ivory White					
Dimensions ($H \times W \times D$))	in. (mm)	28-15/16 × 34-1/4 × 12		28-15/16 × 34-1/4 × 12-5/8 (735 × 870 × 320)					
	Туре		Cross F		Cross Fin Coil					
Coil	Rows × Stages × Fin per Ir	ich	1 × 32		1 × 32	2 × 18				
	Face Area	ft² (m²)	7-1/8 (,	7-1/8 (
	Model		2YC3		2YC36PXD					
Compressor	Туре		Hermetically Sea	aled Swing Type	Hermetically Sea	aled Swing Type				
	Motor Output	W	1,1		1,1					
	Туре		Prop		Prop	beller				
Fan	Motor Output	W	9	1	11	10				
	Airflow Rate	cfm (m³/min)	2,313 (65.5)	2,108 (59.7)	2,461 (69.7)	2,553 (72.3)				
Sound Pressure Level		dB(A)	50	51	54	55				
Sound Power Level		dB(A)	62	63	66	67				
Weight (Mass)		Lbs (kg)	97 (44)	97	(44)				
	Liquid	in. (mm)	φ 1/4 (6.4		φ 1/4 (6.4					
Piping Connections	Gas	in. (mm)	φ 1/2 (12.	7) (Flare)	φ 1/2 (12.	7) (Flare)				
	Drain	in. (mm)	Ι.D. φ 5	/8 (16)	Ι.D. φ 5					
Safety Devices			Fu		Fu	se				
Capacity Step		%	Compressor Revolution Spe		Compressor Revolution Spe					
Refrigerant Control			Electronic Exp	pansion Valve	Electronic Ext	pansion Valve				
Max. Interunit Piping Le	ength	ft (m)	98-1/2		98-1/2 (30)					
Max. Interunit Height Difference		ft (m)	65-5/8		65-5/					
gin B	Туре		R-4		R-4					
		Lbs (kg)		1.13)						
Refrigerant	Charge				2.49 (1.13) FVC50K					
-	Charge Type	200 (itg)	FVC		FVC	50K				
Refrigerant Refrigerant Oil	Charge Type Charge	fl oz (L)		50K	FVC 21.98 (

Notes:

★1 Indoor temp.: 80.0°FDB (26.7°CDB), 67.0°FWB (19.4°CWB) / Outdoor temp.: 95.0°FDB (35.0°CDB) / Equivalent piping length: 25 ft (7.6 m) / Level difference: 0



★2 Indoor temp.: 70.0°FDB (21.1°CDB) / Outdoor temp.: 47.0°FDB (8.3°CDB), 43.0°FWB (6.1°CWB) / Equivalent piping length: 25 ft (7.6 m) / Level difference: 0

piping length: 25 ft (7.6 m) / Level difference: 0
 ★3 Indoor temp.: 70.0°FDB (21.1°CDB) / Outdoor temp.: 17.0°FDB (-8.3°CDB), 15.0°FWB (-9.4°CWB) / Equivalent piping length: 25 ft (7.6 m) / Level difference: 0

★4 Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.

*5 External static pressure is changeable in 13 (FDMQ09/12RVJU), 11 (FDMQ15/18/24RVJU) stages by remote controller.

★6 Air filter is not standard accessory, but please mount it in the duct system of the suction side. Select its dust collection efficiency (gravity method) 50% or more.

	Indoor Unit		FDMQ24R	
Model	Outdoor Unit		RX24RM	
			Cooling	Heating
Power Supply			1 phase, 208-23	0 V, 60 Hz
		kW	6.39	
Cooling capacity \star 1 \star	4	Btu/h	21,800	—
		kcal/h	5,500	_
		kW	_	7.02
Heating capacity \star 2 \star	4	Btu/h	_	24,000
		kcal/h	_	6,050
		kW	—	4.41
Heating capacity \star 3 \star	4	Btu/h	-	15,000
		kcal/h	—	3,780
SEER/HSPF			18.6	10.0
COP (Rated)		W/W	—	3.8
EER (Rated)		Btu/W·h	12.5	_
Indoor Unit			FDMQ24R	NJU
Casing Color			_	
Dimensions (H × W × [D)	in. (mm)	9-5/8 × 39-3/8 × 31-1/2 (245 × 1,000 × 800)
•	Туре	• • •	Cross Fin	
Coil Rows × Stages × Fin per		ich	3×26×	
	Face Area	ft² (m²)	3-1/8 (0.2	288)
	Туре		Sirocco F	,
	Motor Output	W	230	
Fan	Airflow Rate H / M / L	cfm (m³/min)	798 / 678 / 558 (22.6 / 19.2 / 15.8)	798 / 678 / 558 (22.6 / 19.2 / 15.8)
	External Static Pressure ★5	inH ₂ O Pa	0.20 (0.60 - 50 (150 -	,
Sound Pressure Level	~~	dB(A)	40	40
Sound Pressure Level		dB(A) dB(A)	54	54
		UB(A)		54
Air Filter ★6		1.1 (1)		N
Weight (Mass)	- I	Lbs (kg)	82 (37	
	Liquid	in. (mm)	φ 1/4 (6.4) (
Piping Connections	Gas	in. (mm)	φ 5/8 (15.9)	
	Drain	in. (mm)	I.D. \u00e9 1 (25) / O.D.	
Remote Controller	Wired		BRC1E	
(Option)	Wireless		BRC082	
Outdoor Unit			RX24RM	
Casing Color			Ivory Wh	
Dimensions ($H \times W \times I$,	in. (mm)	28-15/16 × 34-1/4 × 12-5/	
	Туре		Cross Fin	
Coil	Rows × Stages × Fin per Ir	ich	2 × 32 ×	18
	· · · ·			
	Face Area	ft² (m²)	7-1/16 (0.0	
	· · · ·	ft² (m²)	2YC36P	XD
Compressor	Face Area Model Type	· · · ·	2YC36P Hermetically Seale	XD d Swing Type
Compressor	Face Area Model	ft² (m²) W	2YC36P Hermetically Seale 1,100	XD d Swing Type
Compressor	Face Area Model Type Motor Output Type	W	2YC36P Hermetically Seale 1,100 Propelle	XD d Swing Type
	Face Area Model Type Motor Output	W W	2YC36P Hermetically Seale 1,100	XD d Swing Type
Fan	Face Area Model Type Motor Output Type	W W cfm (m ^s /min)	2YC36P Hermetically Sealer 1,100 Propell 125 2,642 (74.8)	XD d Swing Type er 2,642 (74.8)
Fan Sound Pressure Level	Face Area Model Type Motor Output Type Motor Output	W W cfm (m³/min) dB(A)	2YC36P Hermetically Sealer 1,100 Propell 125 2,642 (74.8) 56	XD d Swing Type er 2,642 (74.8) 58
Fan Sound Pressure Level	Face Area Model Type Motor Output Type Motor Output	W W cfm (m ^s /min)	2YC36P Hermetically Sealer 1,100 Propell 125 2,642 (74.8)	XD d Swing Type er 2,642 (74.8)
Fan Sound Pressure Level Sound Power Level	Face Area Model Type Motor Output Type Motor Output Airflow Rate	W Crfm (m³/min) dB(A) dB(A) Lbs (kg)	2YC36P Hermetically Sealer 1,100 Propell 125 2,642 (74.8) 56 68 108 (49	XD d Swing Type er 2,642 (74.8) 58 70
Fan Sound Pressure Level Sound Power Level Weight (Mass)	Face Area Model Type Motor Output Type Motor Output Airflow Rate	W cfm (m ³ /min) dB(A) dB(A) Lbs (kg) in. (mm)	2YC36P Hermetically Sealer 1,100 Propelle 125 2,642 (74.8) 56 68 108 (45 ¢ 1/4 (6.4) (XD d Swing Type er 2,642 (74.8) 58 70 9) Flare)
Fan Sound Pressure Level Sound Power Level Weight (Mass)	Face Area Model Type Motor Output Type Motor Output Airflow Rate	W Crfm (m³/min) dB(A) dB(A) Lbs (kg)	2YC36P Hermetically Sealer 1,100 Propelli 125 2,642 (74.8) 56 68 108 (45 \$\overline{1}{4}\$ (5.4) (\$\overline{5}{8}\$ (15.9)	XD d Swing Type er 2,642 (74.8) 58 70 9) Flare) (Flare)
Fan Sound Pressure Level Sound Power Level Weight (Mass)	Face Area Model Type Motor Output Type Motor Output Airflow Rate	W cfm (m ³ /min) dB(A) dB(A) Lbs (kg) in. (mm)	2YC36P Hermetically Sealer 1,100 Propelle 125 2,642 (74.8) 56 68 108 (45 ¢ 1/4 (6.4) (XD d Swing Type er 2,642 (74.8) 58 70 9) Flare) (Flare)
Fan Sound Pressure Level Sound Power Level Weight (Mass) Piping Connections	Face Area Model Type Motor Output Type Motor Output Airflow Rate Liquid Gas	W W cfm (m³/min) dB(A) Lbs (kg) in. (mm) in. (mm)	2YC36P Hermetically Sealer 1,100 Propelli 125 2,642 (74.8) 56 68 108 (45 \$\overline{1}{4}\$ (5.4) (\$\overline{5}{8}\$ (15.9)	XD d Swing Type er 2,642 (74.8) 58 70 9) Flare) (Flare)
Fan Sound Pressure Level Sound Power Level Weight (Mass) Piping Connections Safety Devices	Face Area Model Type Motor Output Type Motor Output Airflow Rate Liquid Gas	W W cfm (m³/min) dB(A) Lbs (kg) in. (mm) in. (mm)	2YC36P Hermetically Sealer 1,100 Propelli 125 2,642 (74.8) 56 68 108 (45 0 1/4 (6.4) (0 \$ 5/8 (15.9) 1.D. \$ 5/8	XD d Swing Type er 2,642 (74.8) 58 70 3) Flare) (Flare) (Flare) (Flare) (16)
Fan Sound Pressure Level Sound Power Level Weight (Mass) Piping Connections Safety Devices Capacity Step	Face Area Model Type Motor Output Type Motor Output Airflow Rate Liquid Gas	W W cfm (m³/min) dB(A) dB(A) in. (mm) in. (mm) in. (mm)	2YC36P Hermetically Sealer 1,100 Propell 125 2,642 (74.8) 56 68 108 (45 φ 1/4 (6.4) (φ 5/8 (15.9) 1.D. φ 5/8 Fuse	XD d Swing Type er 2,642 (74.8) 58 70 9) Flare) (Flare) (flare) (16) Control (Inverter System)
Fan Sound Pressure Level Sound Power Level Weight (Mass) Piping Connections Safety Devices Capacity Step Refrigerant Control	Face Area Model Type Motor Output Type Motor Output Airflow Rate Liquid Gas Drain	W W cfm (m³/min) dB(A) dB(A) in. (mm) in. (mm) in. (mm)	2YC36P. Hermetically Sealer 1,100 Propell 125 2,642 (74.8) 56 68 108 (45	XD d Swing Type er 2,642 (74.8) 58 70 9) Flare) (Flare) (Flare) (16) Control (Inverter System) sision Valve
Fan Sound Pressure Level Sound Power Level Weight (Mass) Piping Connections Safety Devices Capacity Step Refrigerant Control Max. Interunit Piping Li	Face Area Model Type Motor Output Type Motor Output Airflow Rate Liquid Gas Drain	W W cfm (m ³ /min) dB(A) dB(A) in. (mm) in. (mm) in. (mm) ft (m)	2YC36P Hermetically Sealer 1,100 Propelle 125 2,642 (74.8) 56 68 108 (45 ¢ 1/4 (6.4) (¢ 5/8 (15.9) 1.D. ¢ 5/8 Fuse Compressor Revolution Speed Electronic Expar 98-1/2 (5	XD d Swing Type er 2,642 (74.8) 58 70 9) Flare) (Flare) (flare) (16) Control (Inverter System) ision Valve 30)
Fan Sound Pressure Level Sound Power Level Weight (Mass) Piping Connections Safety Devices Capacity Step Refrigerant Control Max. Interunit Piping L Max. Interunit Height D	Face Area Model Type Motor Output Type Motor Output Airflow Rate Liquid Gas Drain	W W cfm (m ³ /min) dB(A) Lbs (kg) in. (mm) in. (mm) %	2YC36P Hermetically Sealer 1,100 Propelli 125 2,642 (74.8) 56 68 108 (45 \$1/4 (6.4) (\$5/8 (15.9) I.D. \$5/8 Compressor Revolution Speed Electronic Expart 98-1/2 (5 65-5/8 (2	XD d Swing Type er 2,642 (74.8) 58 70 9) Flare) (Flare) (flare) (16) Control (Inverter System) ision Valve 30) 20)
Fan Sound Pressure Level Sound Power Level Weight (Mass) Piping Connections Safety Devices Capacity Step Refrigerant Control Max. Interunit Piping L Max. Interunit Height D	Face Area Model Type Motor Output Type Motor Output Airflow Rate Liquid Gas Drain ength ifference Type	W W cfm (m³/min) dB(A) Lbs (kg) in. (mm) in. (mm) ft. (m) ft. (m)	2YC36P Hermetically Sealer 1,100 Propelle 2,642 (74.8) 56 68 108 (45 ¢ 1/4 (6.4) (¢ 5/8 (15.9) 1.D. ¢ 5/8 Fuse Compressor Revolution Speed Electronic Expar 98-1/2 (65-5/8 (CR-410/	XD d Swing Type er 2,642 (74.8) 58 70 9) Flare) (Flare) (Flare) (16) Control (Inverter System) Ision Valve 30) 20) A
Fan Sound Pressure Level Sound Power Level Weight (Mass) Piping Connections Safety Devices Capacity Step Refrigerant Control Max. Interunit Piping L Max. Interunit Height D Refrigerant	Face Area Model Type Motor Output Type Motor Output Airflow Rate Liquid Gas Drain ength ifference Type Charge	W W cfm (m ³ /min) dB(A) dB(A) in. (mm) in. (mm) in. (mm) ft (m)	2YC36P. Hermetically Sealer 1,100 Propelli 125 2,642 (74.8) 56 68 108 (45 \$61/4 (6.4) (\$578 (25,0) I.D. \$\$78 (15.9) I.D. \$\$78 Fuse Compressor Revolution Speed Electronic Expart 98-1/2 (5 65-5/8 (2 0 R-410 3.20 (1.4	XD d Swing Type er 2,642 (74.8) 58 70 2) Flare) (Flare) (Flare) (16) Control (Inverter System) ision Valve 30) 20) A 45)
Compressor Fan Sound Pressure Level Sound Power Level Weight (Mass) Piping Connections Safety Devices Capacity Step Refrigerant Control Max. Interunit Piping L Max. Interunit Height D Refrigerant Refrigerant Oil	Face Area Model Type Motor Output Type Motor Output Airflow Rate Liquid Gas Drain ength ifference Type	W W cfm (m³/min) dB(A) Lbs (kg) in. (mm) in. (mm) ft. (m) ft. (m)	2YC36P Hermetically Sealer 1,100 Propelle 2,642 (74.8) 56 68 108 (45 \$7,642 (74.8) 56 68 108 (45 \$7,642 (74.8) 56 68 108 (45 \$7,642 (74.8) 56 56 56 Compressor Revolution Speed Electronic Expar 98-1/2 (5 5-5/8 (2 6-5-5/8 (2 6-5-7/8 (2 6-5-7/8 (2 6-5-7/8 (2 6) 6-5-7/8 (2 6) 6-5-7/8 (2 6) 7,410/10 8-1/2 (2 6) 7,410/10 8-1/2 (2 6) 7,410/10 8-1/2 (2 6) 7,410/10 8-1/2 (2 6) 7,410/10 10 10 10 10 10 10 10 10 10 10 10 10 1	XD d Swing Type er 2,642 (74.8) 58 70 9) Flare) (Flare) (16) Control (Inverter System) Ision Valve 30) 20) A 4 55 K

Notes:

★1 Indoor temp.: 80.0°FDB (26.7°CDB), 67.0°FWB (19.4°CWB) / Outdoor temp.: 95.0°FDB (35.0°CDB) / Equivalent piping length: 25 ft (7.6 m) / Level difference: 0

★2 Indoor temp.: 70.0°FDB (21.1°CDB) / Outdoor temp.: 47.0°FDB (8.3°CDB), 43.0°FWB (6.1°CWB) / Equivalent piping length: 25 ft (7.6 m) / Level difference: 0

★3 Indoor temp.: 70.0°FDB (21.1°CDB) / Outdoor temp.: 17.0°FDB (-8.3°CDB), 15.0°FWB (-9.4°CWB) / Equivalent piping length: 25 ft (7.6 m) / Level difference: 0

★4 Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.

★5 External static pressure is changeable in 13 (FDMQ09/12RVJU), 11 (FDMQ15/18/24RVJU) stages by remote controller.

★6 Air filter is not standard accessory, but please mount it in the duct system of the suction side. Select its dust collection efficiency (gravity method) 50% or more. Conversion Formulae

 $\label{eq:kcal/h} \begin{array}{l} kcal/h = kW \times 860 \\ Btu/h = kW \times 3412 \\ cfm = m^3/min \times 35.3 \end{array}$

4. Dimensions

4.1 Indoor Unit

FDMQ09/12RVJU



FDMQ15/18/24RVJU



3D112919A

BRC1E73 — Wired Remote Controller (Option) —



BRC082A43 — Wireless Remote Controller (Option) —



4.2 Outdoor Unit

RX09/12RMVJU



RX15/18RMVJU



RX24RMVJU



5. Wiring Diagrams

5.1 Indoor Unit

FDMQ09/12/15/18/24RVJU



3D112629A

5.2 Outdoor Unit

RX09/12RMVJU



RX15/18/24RMVJU



6. Piping Diagrams

6.1 Indoor Unit

FDMQ09/12/15/18/24RVJU



4D112974

6.2 Outdoor Unit

RX09/12RMVJU



3D092207B

RX15/18RMVJU



3D092220B

RX24RMVJU



3D092249A

7. Capacity Tables

FDMQ09RVJU + RX09RMVJU

60 Hz, 208 V

Cooling	
AFR	9.1
BF	0.11

Temp: Celsius

TC, SHC, PI: kW

INDO	DOR		OUTDOOR TEMPERATURE (°CDB)																
EWB	EDB	10				20			30		35				40				
°C	°C	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14.0	20.0	2.95	2.27	0.50	2.70	2.15	0.62	2.46	2.03	0.74	2.33	1.98	0.80	2.21	1.92	0.86	2.06	1.85	0.93
16.0	22.0	3.07	2.23	0.51	2.82	2.11	0.63	2.58	2.00	0.75	2.46	1.95	0.81	2.33	1.90	0.87	2.19	1.83	0.94
18.0	25.0	3.19	2.34	0.51	2.95	2.24	0.63	2.70	2.13	0.75	2.58	2.08	0.81	2.45	2.03	0.87	2.31	1.98	0.94
19.4	26.7	3.25	2.48	0.51	3.01	2.38	0.63	2.76	2.28	0.75	2.64	2.23	0.81	2.51	2.18	0.87	2.37	2.13	0.94
22.0	30.0	3.43	2.39	0.52	3.19	2.30	0.64	2.94	2.21	0.76	2.82	2.17	0.82	2.70	2.13	0.88	2.55	2.08	0.95
24.0	32.0	3.56	2.33	0.58	3.31	2.25	0.64	3.06	2.17	0.76	2.94	2.13	0.82	2.82	2.09	0.88	2.67	2.05	0.95

Temp: Fahrenheit

TC, SHC: kBtu/h

PI: kW

INDO	DOR		OUTDOOR TEMPERATURE (°FDB)																
EWB	EDB	50			68				86		95				104				
°F	°F	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
57.2	68.0	10.06	7.74	0.50	9.22	7.34	0.62	8.38	6.94	0.74	7.96	6.74	0.80	7.54	6.55	0.86	7.04	6.32	0.93
60.8	71.6	10.47	7.59	0.51	9.64	7.21	0.63	8.80	6.84	0.75	8.38	6.66	0.81	7.96	6.47	0.87	7.46	6.26	0.94
64.4	77.0	10.89	7.98	0.51	10.05	7.63	0.63	9.21	7.28	0.75	8.79	7.11	0.81	8.37	6.94	0.87	7.87	6.74	0.94
67.0	80.0	11.10	8.45	0.51	10.26	8.11	0.63	9.42	7.78	0.75	9.00	7.61	0.81	8.58	7.45	0.87	8.08	7.26	0.94
71.6	86.0	11.72	8.15	0.52	10.88	7.85	0.64	10.04	7.55	0.76	9.62	7.41	0.82	9.20	7.27	0.88	8.70	7.10	0.95
75.2	89.6	12.13	7.94	0.58	11.29	7.66	0.64	10.46	7.40	0.76	10.04	7.26	0.82	9.62	7.13	0.88	9.11	6.98	0.95

Heating

AFR 11.3

Temp: Celsius

TC, PI: kW

INDOOR		OUTDOOR TEMPERATURE (°CWB)														
EDB	-15		-10		-5		0		6		1	0	18			
°C	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI		
15.0	1.52	0.50	1.86	0.53	2.13	0.55	2.44	0.58	3.30	0.76	3.59	0.79	4.17	0.84		
21.1	1.43	0.52	1.77	0.54	2.04	0.57	2.35	0.59	3.18	0.78	3.48	0.80	4.06	0.86		
22.0	1.39	0.52	1.73	0.55	2.00	0.57	2.31	0.60	3.15	0.79	3.44	0.81	4.02	0.86		
24.0	1.35	0.53	1.70	0.56	1.97	0.58	2.27	0.60	3.11	0.79	3.39	0.82	3.97	0.87		
25.0	1.33	0.53	1.68	0.56	1.95	0.58	2.25	0.61	3.08	0.80	3.37	0.82	3.95	0.87		
27.0	1.30	0.54	1.64	0.56	1.91	0.59	2.22	0.61	3.04	0.80	3.33	0.83	3.91	0.88		

Temp: Fahrenheit

TC: kBtu/h

INDOOR					0	UTDOO	R TEMP	ERATU	RE (°FW	B)				
EDB	Ę	5	1	4	2	3	3	2	4	3	5	0	6	4
°F	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
59.0	5.19	0.50	6.36	0.53	7.28	0.55	8.33	0.58	11.28	0.76	12.26	0.79	14.23	0.84
70.0	4.87	0.52	6.04	0.54	6.96	0.57	8.01	0.59	10.90	0.78	11.88	0.80	13.85	0.86
71.6	4.74	0.52	5.91	0.55	6.84	0.57	7.88	0.60	10.75	0.79	11.73	0.81	13.70	0.86
75.2	4.62	0.53	5.79	0.56	6.71	0.58	7.75	0.60	10.60	0.79	11.58	0.82	13.55	0.87
77.0	4.55	0.53	5.72	0.56	6.64	0.58	7.69	0.61	10.52	0.80	11.51	0.82	13.48	0.87
80.6	4.42	0.54	5.60	0.56	6.52	0.59	7.56	0.61	10.37	0.80	11.36	0.83	13.33	0.88

60 Hz, 230 V

Cooling	
AFR	9.1
BF	0.11

Temp: Celsius

TC, SHC, PI: kW

IND	OOR							0	UTDOO	R TEMP	ERATU	RE (°CD	B)						
EWB	EDB		10			20			30			35			40			46	
°C	°C	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14.0	20.0	2.95	2.27	0.50	2.70	2.15	0.62	2.46	2.03	0.74	2.33	1.98	0.80	2.21	1.92	0.86	2.06	1.85	0.93
16.0	22.0	3.07	2.23	0.51	2.82	2.11	0.63	2.58	2.00	0.75	2.46	1.95	0.81	2.33	1.90	0.87	2.19	1.83	0.94
18.0	25.0	3.19	2.34	0.51	2.95	2.24	0.63	2.70	2.13	0.75	2.58	2.08	0.81	2.45	2.03	0.87	2.31	1.98	0.94
19.4	26.7	3.25	2.48	0.51	3.01	2.38	0.63	2.76	2.28	0.75	2.64	2.23	0.81	2.51	2.18	0.87	2.37	2.13	0.94
22.0	30.0	3.43	2.39	0.52	3.19	2.30	0.64	2.94	2.21	0.76	2.82	2.17	0.82	2.70	2.13	0.88	2.55	2.08	0.95
24.0	32.0	3.56	2.33	0.58	3.31	2.25	0.64	3.06	2.17	0.76	2.94	2.13	0.82	2.82	2.09	0.88	2.67	2.05	0.95

Temp: Fahrenheit TC, SHC: kBtu/h

PI: kW

IND	OOR							0	UTDOO	R TEMP	ERATU	RE (°FDI	B)						
EWB	EDB		50			68			86			95			104			115	
°F	°F	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
57.2	68.0	10.06	7.74	0.50	9.22	7.34	0.62	8.38	6.94	0.74	7.96	6.74	0.80	7.54	6.55	0.86	7.04	6.32	0.93
60.8	71.6	10.47	7.59	0.51	9.64	7.21	0.63	8.80	6.84	0.75	8.38	6.66	0.81	7.96	6.47	0.87	7.46	6.26	0.94
64.4	77.0	10.89	7.98	0.51	10.05	7.63	0.63	9.21	7.28	0.75	8.79	7.11	0.81	8.37	6.94	0.87	7.87	6.74	0.94
67.0	80.0	11.10	8.45	0.51	10.26	8.11	0.63	9.42	7.78	0.75	9.00	7.61	0.81	8.58	7.45	0.87	8.08	7.26	0.94
71.6	86.0	11.72	8.15	0.52	10.88	7.85	0.64	10.04	7.55	0.76	9.62	7.41	0.82	9.20	7.27	0.88	8.70	7.10	0.95
75.2	89.6	12.13	7.94	0.58	11.29	7.66	0.64	10.46	7.40	0.76	10.04	7.26	0.82	9.62	7.13	0.88	9.11	6.98	0.95

Heating AFR

11.3

Temp: Celsius TC, PI: kW

INDOOR					0	UTDOO	R TEMP	ERATU	RE (°CW	B)				
EDB	-	15		10	-	5	(C	e	6	1	0	1	8
°C	TC PI TC PI			TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	
15.0	1.52	0.50	1.83	0.53	2.13	0.55	2.44	0.58	3.30	0.76	3.59	0.79	4.17	0.84
21.1	1.43	0.52	1.73	0.54	2.04	0.57	2.35	0.59	3.18	0.78	3.48	0.80	4.06	0.86
22.0	1.39	0.52	1.70	0.55	2.00	0.57	2.31	0.60	3.15	0.79	3.44	0.81	4.02	0.86
24.0	1.35	0.53	1.66	0.55	1.97	0.58	2.27	0.60	3.11	0.79	3.39	0.82	3.97	0.87
25.0	1.33	0.53	1.64	0.56	1.95	0.58	2.25	0.61	3.08	0.80	3.37	0.82	3.95	0.87
27.0	1.30	0.54	1.60	0.56	1.91	0.59	2.22	0.61	3.04	0.80	3.33	0.83	3.91	0.88

Temp: Fahrenheit TC: kBtu/h

INDOOR					0	UTDOO	R TEMP	ERATU	RE (°FW	B)				
EDB	Ę	5	1	4	2	3	3	2	4	3	5	0	6	4
°F	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
59.0	5.19	0.50	6.24	0.53	7.28	0.55	8.33	0.58	11.28	0.76	12.26	0.79	14.23	0.84
70.0	4.87	0.52	5.92	0.54	6.96	0.57	8.01	0.59	10.90	0.78	11.88	0.80	13.85	0.86
71.6	4.74	0.52	5.79	0.55	6.84	0.57	7.88	0.60	10.75	0.79	11.73	0.81	13.70	0.86
75.2	4.62	0.53	5.66	0.55	6.71	0.58	7.75	0.60	10.60	0.79	11.58	0.82	13.55	0.87
77.0	4.55	0.53	5.60	0.56	6.64	0.58	7.69	0.61	10.52	0.80	11.51	0.82	13.48	0.87
80.6	4.42	0.54	5.47	0.56	6.52	0.59	7.56	0.61	10.37	0.80	11.36	0.83	13.33	0.88

Symbols:

AFR	: Airflow rate	(m³/min.)
BF	: Bypass factor	
EWB	: Entering wet bulb temp.	(°C) / (°F)
EDB	: Entering dry bulb temp.	(°C) / (°F)
тс	: Total capacity	(kW) / (kBtu/h)
SHC	: Sensible heat capacity	(kW) / (kBtu/h)
ΡI	: Power input	(kW)

Notes:

- shows nominal (rated) capacities and power input.
 TC, PI and SHC must be calculated by interpolation using the figures in the above tables. (Figures out of the tables should not be used for calculation.)
 Capacities are based on the following conditions. Corresponding refrigerant piping length : 25 ft (7.6 m) Level difference : 0 ft (0 m)

C: 3D113019A

FDMQ12RVJU + RX12RMVJU

60 Hz, 208 V

Cooling	
AFR	10.3
BF	0.15

Temp: Celsius

TC, SHC, PI: kW

INDO	DOR							0	UTDOO	R TEMP	ERATU	RE (°CD	B)						
EWB	EDB		10			20			30			35			40			46	
°C	°C	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14.0	20.0	3.54	2.63	0.58	3.24	2.48	0.71	2.95	2.34	0.85	2.80	2.26	0.92	2.65	2.19	0.99	2.48	2.11	1.07
16.0	22.0	3.68	2.57	0.58	3.39	2.44	0.72	3.09	2.30	0.86	2.95	2.24	0.92	2.80	2.17	0.99	2.62	2.09	1.08
18.0	25.0	3.83	2.69	0.58	3.53	2.56	0.72	3.24	2.44	0.86	3.09	2.38	0.93	2.94	2.32	1.00	2.77	2.24	1.08
19.4	26.7	3.90	2.84	0.59	3.61	2.71	0.72	3.31	2.59	0.86	3.18	2.53	0.93	3.02	2.47	1.00	2.84	2.40	1.08
22.0	30.0	4.12	2.73	0.59	3.83	2.62	0.73	3.53	2.51	0.87	3.38	2.46	0.94	3.24	2.41	1.01	3.06	2.35	1.09
24.0	32.0	4.27	2.65	0.67	3.97	2.55	0.73	3.68	2.46	0.87	3.53	2.41	0.94	3.38	2.36	1.01	3.21	2.31	1.09

Temp: Fahrenheit

TC, SHC: kBtu/h

PI: kW

INDO	DOR							0	UTDOO	R TEMP	ERATU	RE (°FDI	3)						
EWB	EDB		50			68			86			95			104			115	
°F	°F	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
57.2	68.0	12.07	8.96	0.58	11.06	8.46	0.71	10.06	7.97	0.85	9.56	7.73	0.92	9.05	7.49	0.99	8.45	7.21	1.07
60.8	71.6	12.57	8.78	0.58	11.56	8.31	0.72	10.56	7.85	0.86	10.05	7.63	0.92	9.55	7.40	0.99	8.95	7.14	1.08
64.4	77.0	13.07	9.18	0.58	12.06	8.74	0.72	11.05	8.32	0.86	10.55	8.11	0.93	10.05	7.90	1.00	9.44	7.65	1.08
67.0	80.0	13.31	9.68	0.59	12.31	9.26	0.72	11.30	8.84	0.86	10.80	8.64	0.93	10.30	8.44	1.00	9.69	8.21	1.08
71.6	86.0	14.06	9.31	0.59	13.06	8.94	0.73	12.05	8.58	0.87	11.55	8.40	0.94	11.04	8.22	1.01	10.44	8.01	1.09
75.2	89.6	14.56	9.05	0.67	13.55	8.72	0.73	12.55	8.38	0.87	12.04	8.22	0.94	11.54	8.06	1.01	10.94	7.87	1.09

Heating

AFR 12.7

Temp: Celsius

TC, PI: kW

INDOOR					0	UTDOO	R TEMP	ERATUF	RE (°CW	B)				
EDB		15	-1	10	-	5	(C	(3	1	0	1	8
°C	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
15.0	1.90	0.69	2.28	0.73	2.66	0.76	3.05	0.80	4.12	1.05	4.48	1.09	5.20	1.16
21.1	1.78	0.71	2.16	0.75	2.55	0.78	2.93	0.82	3.99	1.08	4.35	1.11	5.07	1.18
22.0	1.73	0.72	2.12	0.76	2.50	0.79	2.88	0.83	3.93	1.09	4.29	1.12	5.01	1.19
24.0	1.69	0.73	2.07	0.76	2.45	0.80	2.84	0.83	3.88	1.10	4.24	1.13	4.96	1.20
25.0	1.66	0.73	2.05	0.77	2.43	0.80	2.81	0.84	3.85	1.10	4.21	1.14	4.93	1.21
27.0	1.62	0.74	2.00	0.78	2.38	0.81	2.77	0.85	3.79	1.11	4.15	1.15	4.87	1.22

Temp: Fahrenheit

TC: kBtu/h

INDOOR					0	UTDOO	R TEMP	ERATU	RE (°FW	B)				
EDB	Ę	5	1	4	2	3	3	2	4	3	5	0	6	4
°F	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
59.0	6.48	0.69	7.78	0.73	9.09	0.76	10.39	0.80	14.07	1.05	15.30	1.09	17.76	1.16
70.0	6.08	0.71	7.38	0.75	8.69	0.78	9.99	0.82	13.60	1.08	14.83	1.11	17.29	1.18
71.6	5.92	0.72	7.22	0.76	8.53	0.79	9.83	0.83	13.41	1.09	14.64	1.12	17.10	1.19
75.2	5.76	0.73	7.06	0.76	8.37	0.80	9.67	0.83	13.22	1.10	14.45	1.13	16.91	1.20
77.0	5.68	0.73	6.98	0.77	8.29	0.80	9.59	0.84	13.13	1.10	14.36	1.14	16.82	1.21
80.6	5.52	0.74	6.82	0.78	8.13	0.81	9.43	0.85	12.94	1.11	14.17	1.15	16.63	1.22

60 Hz, 230 V

Cooling	
AFR	10.3
BF	0.15

Temp: Celsius

TC, SHC, PI: kW

IND	OOR							0	UTDOO	R TEMP	ERATU	RE (°CD	B)						
EWB	EDB		10			20			30			35			40			46	
°C	°C	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14.0	20.0	3.54	2.63	0.58	3.24	2.48	0.71	2.95	2.34	0.85	2.80	2.26	0.92	2.65	2.19	0.99	2.48	2.11	1.07
16.0	22.0	3.68	2.57	0.58	3.39	2.44	0.72	3.09	2.30	0.86	2.95	2.24	0.92	2.80	2.17	0.99	2.62	2.09	1.08
18.0	25.0	3.83	2.69	0.58	3.53	2.56	0.72	3.24	2.44	0.86	3.09	2.38	0.93	2.94	2.32	1.00	2.77	2.24	1.08
19.4	26.7	3.90	2.84	0.59	3.61	2.71	0.72	3.31	2.59	0.86	3.18	2.53	0.93	3.02	2.47	1.00	2.84	2.40	1.08
22.0	30.0	4.12	2.73	0.59	3.83	2.62	0.73	3.53	2.51	0.87	3.38	2.46	0.94	3.24	2.41	1.01	3.06	2.35	1.09
24.0	32.0	4.27	2.65	0.67	3.97	2.55	0.73	3.68	2.46	0.87	3.53	2.41	0.94	3.38	2.36	1.01	3.21	2.31	1.09

Temp: Fahrenheit

. TC, SHC: kBtu/h

PI: kW

IND	OOR							0	UTDOO	R TEMP	ERATU	RE (°FDI	B)						
EWB	EDB		50			68			86			95			104			115	
°F	°F	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
57.2	68.0	12.07	8.96	0.58	11.06	8.46	0.71	10.06	7.97	0.85	9.56	7.73	0.92	9.05	7.49	0.99	8.45	7.21	1.07
60.8	71.6	11.56	8.78	0.58	11.56	8.31	0.72	10.56	7.85	0.86	10.05	7.63	0.92	9.55	7.40	0.99	8.95	7.14	1.08
64.4	77.0	12.06	9.18	0.58	12.06	8.74	0.72	11.05	8.32	0.86	10.55	8.11	0.93	10.05	7.90	1.00	9.44	7.65	1.08
67.0	80.0	12.31	9.68	0.59	12.31	9.26	0.72	11.30	8.84	0.86	10.80	8.64	0.93	10.30	8.44	1.00	9.69	8.21	1.08
71.6	86.0	13.06	9.31	0.59	13.06	8.94	0.73	12.05	8.58	0.87	11.55	8.40	0.94	11.04	8.22	1.01	10.44	8.01	1.09
75.2	89.6	13.55	9.05	0.67	13.55	8.72	0.73	12.55	8.38	0.87	12.04	8.22	0.94	11.54	8.06	1.01	10.94	7.87	1.09

Heating

AFR 12.7

Temp: Celsius

TC, PI: kW

INDOOR		OUTDOOR TEMPERATURE (°CWB)												
EDB		15	-1	10	-	5	()	(6	1	0	1	8
°C	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
15.0	1.90	0.69	2.28	0.73	2.66	0.76	3.05	0.80	4.12	1.05	4.48	1.09	5.20	1.16
21.1	1.78	0.71	2.16	0.75	2.55	0.78	2.93	0.82	3.99	1.08	4.35	1.11	5.07	1.18
22.0	1.73	0.72	2.12	0.76	2.50	0.79	2.88	0.83	3.93	1.09	4.29	1.12	5.01	1.19
24.0	1.69	0.73	2.07	0.76	2.45	0.80	2.84	0.83	3.88	1.10	4.24	1.13	4.96	1.20
25.0	1.66	0.73	2.05	0.77	2.43	0.80	2.81	0.84	3.85	1.10	4.21	1.14	4.93	1.21
27.0	1.62	0.74	2.00	0.78	2.38	0.81	2.77	0.85	3.79	1.11	4.15	1.15	4.87	1.22

Temp: Fahrenheit

TC: kBtu/h

INDOOR					0	UTDOO	R TEMP	ERATU	RE (°FW	B)				
EDB	Ę	5	1	4	2	3	3	2	4	3	5	0	6	4
°F	TC	PI	TC	PI	TC	PI	TC	PI	TC	ΡI	TC	PI	TC	PI
59.0	6.48	0.69	7.78	0.73	9.09	0.76	10.39	0.80	14.07	1.05	15.30	1.09	17.76	1.16
70.0	6.08	0.71	7.38	0.75	8.69	0.78	9.99	0.82	13.60	1.08	14.83	1.11	17.29	1.18
71.6	5.92	0.72	7.22	0.76	8.53	0.79	9.83	0.83	13.41	1.09	14.64	1.12	17.10	1.19
75.2	5.76	0.73	7.06	0.76	8.37	0.80	9.67	0.83	13.22	1.10	14.45	1.13	16.91	1.20
77.0	5.68	0.73	6.98	0.77	8.29	0.80	9.59	0.84	13.13	1.10	14.36	1.14	16.82	1.21
80.6	5.52	0.74	6.82	0.78	8.13	0.81	9.43	0.85	12.94	1.11	14.17	1.15	16.63	1.22

Symbols:

AFR	: Airflow rate	(m³/min.)
BF	: Bypass factor	
EWB	: Entering wet bulb temp.	(°C) / (°F)
EDB	: Entering dry bulb temp.	(°C) / (°F)
тс	: Total capacity	(kW) / (kBtu/h)
SHC	: Sensible heat capacity	(kW) / (kBtu/h)
ΡI	: Power input	(kW)

Notes:

- shows nominal (rated) capacities and power input.
 TC, PI and SHC must be calculated by interpolation using the figures in the above tables. (Figures out of the tables should not be used for calculation.)
 Capacities are based on the following conditions. Corresponding refrigerant piping length : 25 ft (7.6 m) Level difference : 0 ft (0 m)

C: 3D113020A

FDMQ15RVJU + RX15RMVJU

60 Hz, 208 V

Cooling	
AFR	13.1
BF	0.08

Temp: Celsius

TC, SHC, PI: kW

IND	OOR							0	UTDOO	R TEMP	ERATU	RE (°CD	B)						
EWB	EDB		10			20			30			35			40			46	
°C	°C	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14.0	20.0	4.72	3.53	0.70	4.32	3.34	0.87	3.93	3.15	1.04	3.73	3.06	1.12	3.54	2.96	1.21	3.30	2.85	1.31
16.0	22.0	4.91	3.46	0.71	4.52	3.28	0.87	4.13	3.10	1.04	3.93	3.02	1.13	3.73	2.93	1.21	3.50	2.83	1.31
18.0	25.0	5.11	3.63	0.71	4.71	3.46	0.88	4.32	3.29	1.05	4.12	3.21	1.13	3.93	3.13	1.22	3.69	3.03	1.32
19.4	26.7	5.20	3.83	0.71	4.81	3.66	0.88	4.42	3.50	1.05	4.23	3.43	1.13	4.02	3.35	1.22	3.79	3.26	1.32
22.0	30.0	5.49	3.68	0.72	5.10	3.54	0.89	4.71	3.40	1.06	4.51	3.33	1.14	4.32	3.26	1.23	4.08	3.18	1.33
24.0	32.0	5.69	3.59	0.81	5.30	3.45	0.89	4.90	3.33	1.06	4.71	3.26	1.15	4.51	3.20	1.23	4.27	3.13	1.33

Temp: Fahrenheit

TC, SHC: kBtu/h

PI: kW

IND	OOR							0	UTDOO	R TEMP	ERATU	RE (°FDI	3)						
EWB	EDB		50			68			86			95			104			115	
°F	°F	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
57.2	68.0	16.09	12.06	0.70	14.75	11.39	0.87	13.41	10.74	1.04	12.74	10.43	1.12	12.07	10.11	1.21	11.27	9.74	1.31
60.8	71.6	16.76	11.82	0.71	15.42	11.20	0.87	14.08	10.59	1.04	13.40	10.29	1.13	12.73	10.00	1.21	11.93	9.65	1.31
64.4	77.0	17.42	12.38	0.71	16.08	11.80	0.88	14.74	11.23	1.05	14.07	10.95	1.13	13.40	10.68	1.22	12.59	10.35	1.32
67.0	80.0	17.75	13.06	0.71	16.41	12.50	0.88	15.07	11.96	1.05	14.40	11.69	1.13	13.73	11.43	1.22	12.92	11.11	1.32
71.6	86.0	18.75	12.57	0.72	17.41	12.08	0.89	16.07	11.60	1.06	15.40	11.36	1.14	14.72	11.13	1.23	13.92	10.85	1.33
75.2	89.6	19.41	12.23	0.81	18.07	11.78	0.89	16.73	11.35	1.06	16.06	11.13	1.15	15.39	10.92	1.23	14.58	10.67	1.33

Heating

AFR 16.6

Temp: Celsius

TC, PI: kW

INDOOR		OUTDOOR TEMPERATURE (°CWB)												
EDB		15	-1	10	-	5	()	(6	1	0	1	8
°C	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
15.0	2.51	0.89	3.02	0.94	3.53	0.98	4.03	1.03	5.46	1.36	5.93	1.40	6.89	1.49
21.1	2.36	0.92	2.86	0.96	3.37	1.01	3.88	1.06	5.28	1.39	5.75	1.43	6.66	1.51
22.0	2.30	0.93	2.80	0.97	3.31	1.02	3.81	1.07	5.20	1.40	5.68	1.45	6.56	1.51
24.0	2.23	0.94	2.74	0.98	3.25	1.03	3.75	1.08	5.13	1.41	5.61	1.46	6.46	1.51
25.0	2.20	0.94	2.71	0.99	3.22	1.04	3.72	1.08	5.09	1.42	5.57	1.47	6.41	1.51
27.0	2.14	0.95	2.65	1.00	3.15	1.05	3.66	1.09	5.02	1.43	5.50	1.48	6.31	1.51

Temp: Fahrenheit

TC: kBtu/h

INDOOR					0	UTDOO	R TEMP	ERATU	RE (°FW	B)				
EDB	5		1	4	2	3	3	2	4	3	5	0	6	4
°F	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
59.0	8.57	0.89	10.30	0.94	12.03	0.98	13.75	1.03	18.62	1.36	20.25	1.40	23.50	1.49
70.0	8.04	0.92	9.77	0.96	11.50	1.01	13.23	1.06	18.00	1.39	19.63	1.43	22.73	1.51
71.6	7.83	0.93	9.56	0.97	11.29	1.02	13.02	1.07	17.75	1.40	19.38	1.45	22.38	1.51
75.2	7.62	0.94	9.35	0.98	11.08	1.03	12.80	1.08	17.50	1.41	19.13	1.46	22.03	1.51
77.0	7.52	0.94	9.24	0.99	10.97	1.04	12.70	1.08	17.38	1.42	19.00	1.47	21.85	1.51
80.6	7.30	0.95	9.03	1.00	10.76	1.05	12.49	1.09	17.13	1.43	18.76	1.48	21.51	1.51

EDUS071718

60 Hz, 230 V

Cooling	
AFR	13.1
BF	0.08

Temp: Celsius

TC, SHC, PI: kW

IND	OOR							0	UTDOO	R TEMP	ERATU	RE (°CD	B)						
EWB	EDB		10			20			30			35			40			46	
°C	°C	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14.0	20.0	4.72	3.53	0.70	4.32	3.34	0.87	3.93	3.15	1.04	3.73	3.06	1.12	3.54	2.96	1.21	3.30	2.85	1.31
16.0	22.0	4.91	3.46	0.71	4.52	3.28	0.87	4.13	3.10	1.04	3.93	3.02	1.13	3.73	2.93	1.21	3.50	2.83	1.31
18.0	25.0	5.11	3.63	0.71	4.71	3.46	0.88	4.32	3.29	1.05	4.12	3.21	1.13	3.93	3.13	1.22	3.69	3.03	1.32
19.4	26.7	5.20	3.83	0.71	4.81	3.66	0.88	4.42	3.50	1.05	4.23	3.43	1.13	4.02	3.35	1.22	3.79	3.26	1.32
22.0	30.0	5.49	3.68	0.72	5.10	3.54	0.89	4.71	3.40	1.06	4.51	3.33	1.14	4.32	3.26	1.23	4.08	3.18	1.33
24.0	32.0	5.69	3.59	0.81	5.30	3.45	0.89	4.90	3.33	1.06	4.71	3.26	1.15	4.51	3.20	1.23	4.27	3.13	1.33

Temp: Fahrenheit

. TC, SHC: kBtu/h

PI: kW

IND	OOR							0	UTDOO	R TEMP	ERATU	RE (°FDI	3)						
EWB	EDB		50			68			86			95			104			115	
°F	°F	TC	SHC	PI	TC	SHC	ΡI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
57.2	68.0	16.09	12.06	0.70	14.75	11.39	0.87	13.41	10.74	1.04	12.74	10.43	1.12	12.07	10.11	1.21	11.27	9.74	1.31
60.8	71.6	16.76	11.82	0.71	15.42	11.20	0.87	14.08	10.59	1.04	13.40	10.29	1.13	12.73	10.00	1.21	11.93	9.65	1.31
64.4	77.0	17.42	12.38	0.71	16.08	11.80	0.88	14.74	11.23	1.05	14.07	10.95	1.13	13.40	10.68	1.22	12.59	10.35	1.32
67.0	80.0	17.75	13.06	0.71	16.41	12.50	0.88	15.07	11.96	1.05	14.40	11.69	1.13	13.73	11.43	1.22	12.92	11.11	1.32
71.6	86.0	18.75	12.57	0.72	17.41	12.08	0.89	16.07	11.60	1.06	15.40	11.36	1.14	14.72	11.13	1.23	13.92	10.85	1.33
75.2	89.6	19.41	12.23	0.81	18.07	11.78	0.89	16.73	11.35	1.06	16.06	11.13	1.15	15.39	10.92	1.23	14.58	10.67	1.33

Heating

AFR 16.6

Temp: Celsius

TC, PI: kW

INDOOR					0	UTDOOI	R TEMP	ERATUF	RE (°CW	B)				
EDB		15		10	-	5	()	(6	1	0	1	8
°C	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
15.0	2.51	0.89	3.02	0.94	3.53	0.98	4.03	1.03	5.46	1.36	5.93	1.40	6.89	1.49
21.1	2.36	0.92	2.86	0.96	3.37	1.01	3.88	1.06	5.28	1.39	5.75	1.43	6.71	1.53
22.0	2.30	0.93	2.80	0.97	3.31	1.02	3.81	1.07	5.20	1.40	5.68	1.45	6.63	1.54
24.0	2.23	0.94	2.74	0.98	3.25	1.03	3.75	1.08	5.13	1.41	5.61	1.46	6.56	1.55
25.0	2.20	0.94	2.71	0.99	3.22	1.04	3.72	1.08	5.09	1.42	5.57	1.47	6.52	1.56
27.0	2.14	0.95	2.65	1.00	3.15	1.05	3.66	1.09	5.02	1.43	5.50	1.48	6.45	1.57

Temp: Fahrenheit

TC: kBtu/h

INDOOR					0	UTDOO	R TEMP	ERATU	RE (°FW	B)				
EDB	Ę	5	1	4	2	3	3	2	4	3	5	0	6	4
°F	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
59.0	8.57	0.89	10.30	0.94	12.03	0.98	13.75	1.03	18.62	1.36	20.25	1.40	23.50	1.49
70.0	8.04	0.92	9.77	0.96	11.50	1.01	13.23	1.06	18.00	1.39	19.63	1.43	22.88	1.53
71.6	7.83	0.93	9.56	0.97	11.29	1.02	13.02	1.07	17.75	1.40	19.38	1.45	22.63	1.54
75.2	7.62	0.94	9.35	0.98	11.08	1.03	12.80	1.08	17.50	1.41	19.13	1.46	22.38	1.55
77.0	7.52	0.94	9.24	0.99	10.97	1.04	12.70	1.08	17.38	1.42	19.00	1.47	22.26	1.56
80.6	7.30	0.95	9.03	1.00	10.76	1.05	12.49	1.09	17.13	1.43	18.76	1.48	22.01	1.57

Symbols:

AFR	: Airflow rate	(m³/min.)
BF	: Bypass factor	
EWB	: Entering wet bulb temp.	(°C) / (°F)
EDB	: Entering dry bulb temp.	(°C) / (°F)
тс	: Total capacity	(kW) / (kBtu/h)
SHC	: Sensible heat capacity	(kW) / (kBtu/h)
ΡI	: Power input	(kW)

Notes:

- shows nominal (rated) capacities and power input.
 TC, PI and SHC must be calculated by interpolation using the figures in the above tables. (Figures out of the tables should not be used for calculation.)
 Capacities are based on the following conditions. Corresponding refrigerant piping length : 25 ft (7.6 m) Level difference : 0 ft (0 m)

C: 3D113021A

FDMQ18RVJU + RX18RMVJU

60 Hz, 208 V

Cooling	
AFR	18.0
BF	0.11

Temp: Celsius

TC, SHC, PI: kW

IND	OOR							0	UTDOO	R TEMP	ERATU	RE (°CD	B)						
EWB	EDB		10			20			30			35			40			46	
°C	°C	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14.0	20.0	5.77	4.45	0.87	5.28	4.21	1.08	4.80	3.99	1.29	4.56	3.87	1.39	4.32	3.76	1.50	3.30	3.30	1.40
16.0	22.0	6.00	4.36	0.88	5.52	4.14	1.09	5.04	3.93	1.29	4.80	3.82	1.40	4.56	3.72	1.50	3.52	3.28	1.40
18.0	25.0	6.24	4.58	0.88	5.76	4.38	1.09	5.28	4.18	1.30	5.04	4.09	1.40	4.80	3.99	1.51	3.73	3.57	1.40
19.4	26.7	6.36	4.86	0.89	5.88	4.66	1.10	5.40	4.47	1.30	5.16	4.38	1.41	4.92	4.28	1.51	3.84	3.88	1.40
22.0	30.0	6.72	4.68	0.90	6.24	4.51	1.11	5.75	4.34	1.31	5.51	4.26	1.42	5.27	4.18	1.52	4.17	3.81	1.40
24.0	32.0	6.95	4.56	1.01	6.47	4.40	1.11	5.99	4.25	1.32	5.75	4.18	1.42	5.51	4.10	1.53	4.38	3.76	1.40

Temp: Fahrenheit

TC, SHC: kBtu/h

PI: kW

IND	OOR							0	UTDOO	R TEMP	ERATU	RE (°FDI	3)						
EWB	EDB		50			68			86			95			104			115	
°F	°F	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
57.2	68.0	19.67	15.17	0.87	18.03	14.38	1.08	16.39	13.60	1.29	15.57	13.22	1.39	14.75	12.84	1.50	11.25	11.26	1.40
60.8	71.6	20.48	14.88	0.88	18.84	14.13	1.09	17.20	13.41	1.29	16.38	13.05	1.40	15.56	12.69	1.50	11.99	11.19	1.40
64.4	77.0	21.29	15.64	0.88	19.65	14.95	1.09	18.01	14.28	1.30	17.19	13.94	1.40	16.38	13.61	1.51	12.73	12.19	1.40
67.0	80.0	21.70	16.57	0.89	20.06	15.90	1.10	18.42	15.25	1.30	17.60	14.93	1.41	16.78	14.61	1.51	13.11	13.23	1.40
71.6	86.0	22.91	15.97	0.90	21.27	15.39	1.11	19.64	14.81	1.31	18.82	14.53	1.42	18.00	14.25	1.52	14.22	13.00	1.40
75.2	89.6	23.72	15.56	1.01	22.09	15.03	1.11	20.45	14.51	1.32	19.63	14.25	1.42	18.81	13.99	1.53	14.96	12.83	1.40

Heating

AFR 21.6

Temp: Celsius

TC, PI: kW

INDOOR					0	UTDOO	R TEMP	ERATU	RE (°CW	B)				
EDB		15	-1	10	-	5	()	(3	1	0	1	8
°C	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
15.0	3.01	1.07	3.62	1.13	4.23	1.18	4.84	1.24	6.55	1.63	7.12	1.68	8.26	1.79
21.1	2.83	1.10	3.44	1.16	4.04	1.21	4.65	1.27	6.33	1.67	6.90	1.72	8.05	1.83
22.0	2.75	1.11	3.36	1.17	3.97	1.22	4.58	1.28	6.24	1.68	6.82	1.74	7.96	1.85
24.0	2.68	1.13	3.29	1.18	3.90	1.24	4.50	1.29	6.16	1.70	6.73	1.75	7.87	1.86
25.0	2.64	1.13	3.25	1.19	3.86	1.24	4.47	1.30	6.11	1.70	6.68	1.76	7.83	1.87
27.0	2.57	1.14	3.18	1.20	3.78	1.25	4.39	1.31	6.02	1.72	6.60	1.77	7.74	1.88

Temp: Fahrenheit

TC: kBtu/h

INDOOR					0	UTDOO	R TEMP	ERATU	RE (°FW	B)				
EDB	Ę	5	1	4	2	3	3	2	4	3	5	0	6	4
°F	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
59.0	10.29	1.07	12.36	1.13	14.43	1.18	16.51	1.24	22.35	1.63	24.30	1.68	28.20	1.79
70.0	9.65	1.10	11.73	1.16	13.80	1.21	15.87	1.27	21.60	1.67	23.55	1.72	27.45	1.83
71.6	9.40	1.11	11.47	1.17	13.55	1.22	15.62	1.28	21.30	1.68	23.25	1.74	27.16	1.85
75.2	9.15	1.13	11.22	1.18	13.29	1.24	15.37	1.29	21.00	1.70	22.95	1.75	26.86	1.86
77.0	9.02	1.13	11.09	1.19	13.17	1.24	15.24	1.30	20.85	1.70	22.81	1.76	26.71	1.87
80.6	8.77	1.14	10.84	1.20	12.91	1.25	14.98	1.31	20.56	1.72	22.51	1.77	26.41	1.88

60 Hz, 230 V

Cooling	
AFR	18.0
BF	0.11

Temp: Celsius

TC, SHC, PI: kW

IND	OOR							0	UTDOO	R TEMP	ERATU	RE (°CD	B)						
EWB	EDB		10			20			30			35			40			46	
°C	°C	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14.0	20.0	5.77	4.45	0.87	5.28	4.21	1.08	4.80	3.99	1.29	4.56	3.87	1.39	4.32	3.76	1.50	3.79	3.52	1.55
16.0	22.0	6.00	4.36	0.88	5.52	4.14	1.09	5.04	3.93	1.29	4.80	3.82	1.40	4.56	3.72	1.50	4.00	3.48	1.55
18.0	25.0	6.24	4.58	0.88	5.76	4.38	1.09	5.28	4.18	1.30	5.04	4.09	1.40	4.80	3.99	1.51	4.22	3.76	1.55
19.4	26.7	6.36	4.86	0.89	5.88	4.66	1.10	5.40	4.47	1.30	5.16	4.38	1.41	4.92	4.28	1.51	4.33	4.06	1.55
22.0	30.0	6.72	4.68	0.90	6.24	4.51	1.11	5.75	4.34	1.31	5.51	4.26	1.42	5.27	4.18	1.52	4.65	3.97	1.55
24.0	32.0	6.95	4.56	1.01	6.47	4.40	1.11	5.99	4.25	1.32	5.75	4.18	1.42	5.51	4.10	1.53	4.87	3.90	1.55

Temp: Fahrenheit

. TC, SHC: kBtu/h

PI: kW

IND	OOR							0	UTDOO	R TEMP	ERATU	RE (°FDI	3)						
EWB	EDB		50			68			86			95			104			115	
°F	°F	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
57.2	68.0	19.67	15.17	0.87	18.03				13.60	1.29	15.57	13.22	1.39	14.75	12.84	1.50	12.92	12.00	1.55
60.8	71.6	20.48	14.88	0.88	18.84	14.13	1.09	17.20	13.41	1.29	16.38	13.05	1.40	15.56	12.69	1.50	13.66	11.88	1.55
64.4	77.0	21.29	15.64	0.88	19.65	14.95	1.09	18.01	14.28	1.30	17.19	13.94	1.40	16.38	13.61	1.51	14.40	12.83	1.55
67.0	80.0	21.70	16.57	0.89	20.06	15.90	1.10	18.42	15.25	1.30	17.60	14.93	1.41	16.78	14.61	1.51	14.77	13.85	1.55
71.6	86.0	22.91	15.97	0.90	21.27	15.39	1.11	19.64	14.81	1.31	18.82	14.53	1.42	18.00	14.25	1.52	15.88	13.54	1.55
75.2	89.6	23.72	15.56	1.01	22.09	15.03	1.11	20.45	14.51	1.32	19.63	14.25	1.42	18.81	13.99	1.53	16.62	13.32	1.55

Heating

AFR 21.6

Temp: Celsius

TC, PI: kW

INDOOR					0	UTDOOI	R TEMP	ERATUF	RE (°CW	B)				
EDB		15	-1	10	-	5	(C	6	6	1	0	1	8
°C	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
15.0	3.01	1.07	3.62	1.13	4.23	1.18	4.84	1.24	6.55	1.63	7.12	1.68	8.26	1.79
21.1	2.83	1.10	3.44	1.16	4.04	1.21	4.65	1.27	6.33	1.67	6.90	1.72	8.05	1.83
22.0	2.75	1.11	3.36	1.17	3.97	1.22	4.58	1.28	6.24	1.68	6.82	1.74	7.96	1.85
24.0	2.68	1.13	3.29	1.18	3.90	1.24	4.50	1.29	6.16	1.70	6.73	1.75	7.87	1.86
25.0	2.64	1.13	3.25	1.19	3.86	1.24	4.47	1.30	6.11	1.70	6.68	1.76	7.83	1.87
27.0	2.57	1.14	3.18	1.20	3.78	1.25	4.39	1.31	6.02	1.72	6.60	1.77	7.74	1.88

Temp: Fahrenheit

TC: kBtu/h

INDOOR					0	UTDOO	R TEMP	ERATU	RE (°FW	B)				
EDB	Ę	5	1	4	2	3	3	2	4	3	5	0	6	4
°F	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
59.0	10.29	1.07	12.36	1.13	14.43	1.18	16.51	1.24	22.35	1.63	24.30	1.68	28.20	1.79
70.0	9.65	1.10	11.73	1.16	13.80	1.21	15.87	1.27	21.60	1.67	23.55	1.72	27.45	1.83
71.6	9.40	1.11	11.47	1.17	13.55	1.22	15.62	1.28	21.30	1.68	23.25	1.74	27.16	1.85
75.2	9.15	1.13	11.22	1.18	13.29	1.24	15.37	1.29	21.00	1.70	22.95	1.75	26.86	1.86
77.0	9.02	1.13	11.09	1.19	13.17	1.24	15.24	1.30	20.85	1.70	22.81	1.76	26.71	1.87
80.6	8.77	1.14	10.84	1.20	12.91	1.25	14.98	1.31	20.56	1.72	22.51	1.77	26.41	1.88

Symbols:

AFR	: Airflow rate	(m³/min.)
BF	: Bypass factor	
EWB	: Entering wet bulb temp.	(°C) / (°F)
EDB	: Entering dry bulb temp.	(°C) / (°F)
тс	: Total capacity	(kW) / (kBtu/h)
SHC	: Sensible heat capacity	(kW) / (kBtu/h)
ΡI	: Power input	(kW)

Notes:

- shows nominal (rated) capacities and power input.
 TC, PI and SHC must be calculated by interpolation using the figures in the above tables. (Figures out of the tables should not be used for calculation.)
 Capacities are based on the following conditions. Corresponding refrigerant piping length : 25 ft (7.6 m) Level difference : 0 ft (0 m)

C: 3D113022A

FDMQ24RVJU + RX24RMVJU

60 Hz, 208 V

Cooling	
AFR	19.92
BF	0.16

Temp: Celsius

TC, SHC, PI: kW

IND	OOR							0	UTDOO	R TEMP	ERATU	RE (°CD	B)						
EWB	EDB		10			20			30			35			40			46	
°C	°C	TC	SHC	PI	TC	TC SHC PI 6.55 4.91 1.34			SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14.0	20.0	7.14	5.21	1.08	6.55	4.91	1.34	5.95	4.61	1.60	5.65	4.47	1.72	5.36	4.33	1.85	4.36	3.86	1.82
16.0	22.0	7.44	5.11	1.09	6.84	4.82	1.35	6.25	4.55	1.60	5.95	4.41	1.73	5.65	4.28	1.86	4.63	3.83	1.82
18.0	25.0	7.73	5.32	1.10	7.13	5.06	1.35	6.54	4.80	1.61	6.24	4.68	1.74	5.94	4.55	1.87	4.90	4.13	1.82
19.4	26.7	7.88	5.60	1.10	7.28	5.34	1.36	6.69	5.10	1.62	6.39	4.98	1.74	6.09	4.86	1.87	5.04	4.44	1.82
22.0	30.0	8.32	5.38	1.11	7.72	5.16	1.37	7.13	4.94	1.63	6.83	4.83	1.76	6.53	4.72	1.88	5.44	4.35	1.82
24.0	32.0	8.61	5.23	1.12	8.02	5.02	1.38	7.42	4.82	1.63	7.13	4.73	1.76	6.83	4.63	1.89	5.71	4.28	1.82

Temp: Fahrenheit

TC, SHC: kBtu/h

PI: kW

IND	OOR							0	UTDOO	R TEMP	ERATU	RE (°FDI	3)						
EWB	EDB		50			68			86			95			104			115	
°F	°F	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
57.2	68.0	24.36	17.78	1.08	22.33	16.75	1.34	20.30	15.75	1.60	19.29	15.25	1.72	18.27	14.77	1.85	14.89	13.19	1.82
60.8	71.6	25.37	17.42	1.09	23.34	16.46	1.35	21.31	15.52	1.60	20.29	15.05	1.73	19.28	14.60	1.86	15.81	13.08	1.82
64.4	77.0	26.37	18.16	1.10	24.34	17.27	1.35	22.31	16.39	1.61	21.30	15.96	1.74	20.28	15.54	1.87	16.72	14.09	1.82
67.0	80.0	26.88	19.10	1.10	24.85	18.23	1.36	22.82	17.39	1.62	21.80	16.98	1.74	20.78	16.57	1.87	17.18	15.16	1.82
71.6	86.0	28.38	18.36	1.11	26.35	17.59	1.37	24.32	16.85	1.63	23.31	16.48	1.76	22.29	16.12	1.88	18.56	14.83	1.82
75.2	89.6	29.39	17.83	1.12	27.36	17.14	1.38	25.33	16.46	1.63	24.31	16.12	1.76	23.30	15.79	1.89	19.48	14.59	1.82

Heating

AFR 25.6

Temp: Celsius

TC, PI: kW

INDOOR					0	UTDOO	R TEMP	ERATUR	RE (°CW	B)				
EDB		15	-1	10	-	5	()	(3	1	0	1	8
°C	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
15.0	3.35	1.19	4.02	1.25	4.70	1.31	5.38	1.37	7.28	1.81	7.91	1.87	9.18	1.99
21.1	3.14	1.22	3.82	1.29	4.49	1.35	5.17	1.41	7.02	1.85	7.67	1.91	8.94	2.03
22.0	3.06	1.24	3.74	1.30	4.41	1.36	5.09	1.42	6.94	1.87	7.57	1.93	8.84	2.05
24.0	2.98	1.25	3.65	1.31	4.33	1.37	5.00	1.43	6.84	1.88	7.48	1.95	8.75	2.07
25.0	2.94	1.26	3.61	1.32	4.29	1.38	4.96	1.44	6.79	1.89	7.43	1.95	8.70	2.08
27.0	2.85	1.27	3.53	1.33	4.20	1.39	4.88	1.45	6.69	1.91	7.33	1.97	8.60	2.09

Temp: Fahrenheit

TC: kBtu/h

INDOOR					0	UTDOO	R TEMP	ERATU	RE (°FW	B)				
EDB	5	5	1	4	2	3	3	2	4	3	5	0	6	4
°F	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
59.0	11.43	1.19	13.73	1.25	16.04	1.31	18.34	1.37	24.83	1.81	27.00	1.87	31.33	1.99
70.0	10.73	1.22	13.03	1.29	15.33	1.35	17.64	1.41	24.00	1.85	26.17	1.91	30.50	2.03
71.6	10.44	1.24	12.75	1.30	15.05	1.36	17.35	1.42	23.67	1.87	25.84	1.93	30.17	2.05
75.2	10.16	1.25	12.47	1.31	14.77	1.37	17.07	1.43	23.34	1.88	25.51	1.95	29.84	2.07
77.0	10.02	1.26	12.32	1.32	14.63	1.38	16.93	1.44	23.17	1.89	25.34	1.95	29.68	2.08
80.6	9.74	1.27	12.04	1.33	14.35	1.39	16.65	1.45	22.84	1.91	25.01	1.97	29.34	2.09

EDUS071718

60 Hz, 230 V

Cooling	
AFR	19.92
BF	0.16

Temp: Celsius

TC, SHC, PI: kW

IND	OOR							0	UTDOO	R TEMP	ERATU	RE (°CD	B)						
EWB	EDB		10			20			30			35			40			46	
°C	°C	TC	SHC	PI	TC			TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14.0	20.0	7.14	5.21	1.08	6.55	4.91	1.34	5.95	4.61	1.60	5.65	4.47	1.72	5.36	4.33	1.85	5.00	4.16	2.01
16.0	22.0	7.44	5.11	1.09	6.84	4.82	1.35	6.25	4.55	1.60	5.95	4.41	1.73	5.65	4.28	1.86	5.27	4.11	2.01
18.0	25.0	7.73	5.32	1.10	7.13	5.06	1.35	6.54	4.80	1.61	6.24	4.68	1.74	5.94	4.55	1.87	5.54	4.38	2.01
19.4	26.7	7.88	5.60	1.10	7.28	5.34	1.36	6.69	5.10	1.62	6.39	4.98	1.74	6.09	4.86	1.87	5.67	4.69	2.01
22.0	30.0	8.32	5.38	1.11	7.72	5.16	1.37	7.13	4.94	1.63	6.83	4.83	1.76	6.53	4.72	1.88	6.07	4.56	2.01
24.0	32.0	8.61	5.23	1.12	8.02	5.02	1.38	7.42	4.82	1.63	7.13	4.73	1.76	6.83	4.63	1.89	6.34	4.47	2.01

Temp: Fahrenheit

. TC, SHC: kBtu/h

PI: kW

IND	OOR							0	UTDOO	R TEMP	ERATU	RE (°FDE	3)						
EWB	EDB		50			68			86			95			104			115	
°F	°F	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
57.2	68.0	24.36	17.78	1.08	22.33	16.75	1.34	20.30	15.75	1.60	19.29	15.25	1.72	18.27	14.77	1.85	17.05	14.19	2.01
60.8	71.6	25.37	17.42	1.09	23.34	16.46	1.35	21.31	15.52	1.60	20.29	15.05	1.73	19.28	14.60	1.86	17.97	14.02	2.01
64.4	77.0	26.37	18.16	1.10	24.34	17.27	1.35	22.31	16.39	1.61	21.30	15.96	1.74	20.28	15.54	1.87	18.89	14.96	2.01
67.0	80.0	26.88	19.10	1.10	24.85	18.23	1.36	22.82	17.39	1.62	21.80	16.98	1.74	20.78	16.57	1.87	19.34	15.99	2.01
71.6	86.0	28.38	18.36	1.11	26.35	17.59	1.37	24.32	16.85	1.63	23.31	16.48	1.76	22.29	16.12	1.88	20.72	15.57	2.01
75.2	89.6	29.39	17.83	1.12	27.36	17.14	1.38	25.33	16.46	1.63	24.31	16.12	1.76	23.30	15.79	1.89	21.64	15.26	2.01

Heating

AFR 25.6

Temp: Celsius

TC, PI: kW

INDOOR	OUTDOOR TEMPERATURE (°CWB)													
EDB	-15		-10		-5		0		6		10		18	
°C	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
15.0	3.35	1.19	4.02	1.25	4.70	1.31	5.38	1.37	7.28	1.81	7.91	1.87	9.18	1.99
21.1	3.14	1.22	3.82	1.29	4.49	1.35	5.17	1.41	7.02	1.85	7.67	1.91	8.94	2.03
22.0	3.06	1.24	3.74	1.30	4.41	1.36	5.09	1.42	6.94	1.87	7.57	1.93	8.84	2.05
24.0	2.98	1.25	3.65	1.31	4.33	1.37	5.00	1.43	6.84	1.88	7.48	1.95	8.75	2.07
25.0	2.94	1.26	3.61	1.32	4.29	1.38	4.96	1.44	6.79	1.89	7.43	1.95	8.70	2.08
27.0	2.85	1.27	3.53	1.33	4.20	1.39	4.88	1.45	6.69	1.91	7.33	1.97	8.60	2.09

Temp: Fahrenheit

TC: kBtu/h

INDOOR	OUTDOOR TEMPERATURE (°FWB)													
EDB	5		14		23		32		43		50		64	
°F	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
59.0	11.43	1.19	13.73	1.25	16.04	1.31	18.34	1.37	24.83	1.81	27.00	1.87	31.33	1.99
70.0	10.73	1.22	13.03	1.29	15.33	1.35	17.64	1.41	24.00	1.85	26.17	1.91	30.50	2.03
71.6	10.44	1.24	12.75	1.30	15.05	1.36	17.35	1.42	23.67	1.87	25.84	1.93	30.17	2.05
75.2	10.16	1.25	12.47	1.31	14.77	1.37	17.07	1.43	23.34	1.88	25.51	1.95	29.84	2.07
77.0	10.02	1.26	12.32	1.32	14.63	1.38	16.93	1.44	23.17	1.89	25.34	1.95	29.68	2.08
80.6	9.74	1.27	12.04	1.33	14.35	1.39	16.65	1.45	22.84	1.91	25.01	1.97	29.34	2.09

Symbols:

AFR	: Airflow rate	(m³/min.)
BF	: Bypass factor	
EWB	: Entering wet bulb temp.	(°C) / (°F)
EDB	: Entering dry bulb temp.	(°C) / (°F)
тс	: Total capacity	(kW) / (kBtu/h)
SHC	: Sensible heat capacity	(kW) / (kBtu/h)
ΡI	: Power input	(kW)

Notes:

- shows nominal (rated) capacities and power input.
 TC, PI and SHC must be calculated by interpolation using the figures in the above tables. (Figures out of the tables should not be used for calculation.)
 Capacities are based on the following conditions. Corresponding refrigerant piping length : 25 ft (7.6 m) Level difference : 0 ft (0 m)

C: 3D113023B

7.1 Capacity Correction Factor by the Length of Refrigerant Piping (Reference)

The cooling capacity and the heating capacity of the unit have to be corrected in accordance with the length of refrigerant piping — the distance between the indoor unit and the outdoor unit.

<--- line : cooling capacity> <--- line : heating capacity>

7.1.1 09/12 Class







7.1.3 24 Class



Note: The graphs show the factor when additional refrigerant of the proper quantity is charged.

Operation Limit 8.

RX09/12/15/18/24RMVJU



on the following conditions. • Equivalent piping length • Level difference

Cutting jumper 6 (J6) on the circuit board
 Installing an air direction adjustment grille (wind baffle) (sold separately)

: extend the operation range to 14°F (-10°C). : extend the operation range to -4°F (-20°C).

3D092209D
9. Fan Characteristics

9.1 External Static Pressure

FDMQ09RVJU



ESP : external static pressure

FDMQ12RVJU



3D113121

ESP : external static pressure

FDMQ15RVJU



FDMQ18RVJU



FDMQ24RVJU



9.2 **Airflow Auto Adjustment**

FDMQ09RVJU



- Notes : 1. This indoor unit has the "Air volume automatic adjustment" function, which automatically adjusts the air flow rate so as to be approximately in the range of ±10% of the rated value, at the time of installation.
 ? After duct construction completion, please
- at the time of installation. 2. After duct construction completion, please perform field setting "Air volume automatic adjustment" by remote controller. 3. About the field setting method of the

- About the field setting method of the "Air volume automatic adjustment", look at the installation manual which is attached to an indoor unit.
 ESP that can adjust by "Air volume automatic adjustment" function is 0.12in.WG (30Pa) 0.6in.WG(15Pa) (When air flow is "H").
 If the unit is used beyond the range of the above-mentioned ESP, the air flow rate can not be well-adjusted automatically, and the unit will operate with the air flow rate different from the rated value. the rated value.
- c. This figure shows a fan characteristics at the time of "H" "M" and "L".
 7. The remote controller can be used to change "H" "M" and "L".

ESP : external static pressure

3D113101

FDMQ12RVJU



- Notes :

 This indoor unit has the "Air volume automatic adjustment" function, which automatically adjusts the air flow rate so as to be approximately in the range of ±10% of the rated value, at the time of installation.
 After duct construction completion, please perform field setting "Air volume automatic adjustment" by remote controller.
 About the field setting method of the "Air volume automatic adjustment" by remote controller.
 About the field setting wature wature wature at indoor unit.
 ESP that can adjust by "Air volume automatic adjustment" function is 0.12 in. WG (30Pa) 0.6 in. WG(150Pa) (When air flow rate can not be well-adjusted automatically, and the unit will operate with the air flow rate different from the rated value.
 This figure shows a fan characteristics at the ment function.
- This figure shows a fan characteristics at the time of "H" "M" and "L".
 The remote controller can be used to change "H" "M" and "L".

ESP : external static pressure

FDMQ15RVJU



Air flow CFM (m^{*}/min)

FDMQ18RVJU



- Notes :
 1. This indoor unit has the "Air volume automatic adjustment" function, which automatically adjusts the air flow rate so as to be approximately in the range of ±10% of the rated value, at the time of installation.
 2. After duot construction completion, please perform field setting "Air volume automatic adjustment" by remote controller.
 3. About the field setting method of the "Air volume automatic adjustment" by remote controller.
 3. About the field setting method of the "Air volume automatic adjustment". look at the installation manual which is attached to an indoor unit.
 4. ESP that can adjust by "Air volume automatic adjustment" function is 0.2 in. W6 (50Pa) 0.6 in. W6(150Pa) (When air flow is "H").
 5. If the unit is used beyond the range of the above-mentioned ESP, the air flow rate can not be well-adjusted automatically, and the unit will operate with the air flow rate different from the rated value.
 6. This fourse hows a fan characteristies
- 6. This figure shows a fan characteristics at the time of "H" "M" and "L".
 7. The remote controller can be used to change "H" "M" and "L".

ESP : external static pressure

3D113124

- Notes :
 1. This indoor unit has the "Air volume automatic adjustment" function, which automatically adjusts the air flow rate so as to be approximately in the range of ±10% of the rated value, at the time of installation.
 2. After duct construction completion, please perform field setting "Air volume automatic adjustment" by remote controller.
 3. About the field setting method of the "Air volume automatic adjustment", look at the installation manual which is attached to an indoor unit.
- installation manual which is attached to an indoor unit.
 ESP that can adjust by "Air volume automatic adjustment" function is 0. 2in. WG (50Pa) 0.6in.WG(150Pa) (When air flow is "H").
 If the unit is used beyond the range of the above-mentioned ESP, the air flow rate can not be well-adjusted automatically, and the unit will operate with the air flow rate different from the rated value.
 This figure shows a fan characteristics
- c. This figure shows a fan characteristics at the time of "H" "M" and "L".
 7. The remote controller can be used to change "H" "M" and "L".

ESP : external static pressure.

FDMQ24RVJU



Air flow CFM (m/min)

- Notes :
 1. This indoor unit has the "Air volume automatic adjustment" function, which automatically adjusts the air flow rates so as to be approximately in the range of ±10% of the rated value, at the time of installation.
 2. After duct construction completion, please perform field setting "Air volume automatic adjustment" by remote controller.
 3. About the field setting mainter and the function automatic in the field setting "Air volume automatic adjustment". look at the installation menual which is attached to an indoor unit.
 4. ESP that can adjust by "Air volume automatic adjustment" function is 0.2in. WG (50Pa) 0.6in.WG(150Pa) (When air flow is "M").
 5. If the unit is used beyond the range of the above-mentioned ESP, the air flow rate can not be well-adjusted automatical different from the rated value.
 6. This figure shows a fan characteristics at the time of "M" "M" and "L".

ESP : external static pressure.

10. Sound Level

10.1 Measuring Location



Notes:

1. Operation sound is measured in an anechoic chamber.

2. The data are based on the conditions shown in the table below.

Cooling	Heating	Piping Length
Indoor ; 80°FDB (26.7°CDB) / 67°FWB (19.4°CWB) Outdoor ; 95°FDB (35°CDB) / 75°FWB (24°CWB)	Indoor ; 70°FDB (21°CDB) / 60°FWB (15.6°CWB) Outdoor ; 47°FDB (8.3°CDB) / 43°FWB (6°CWB)	16.4 ft (5 m)

10.2 Indoor Unit

FDMQ09RVJU



FDMQ12RVJU



COOLING RETURN AIR TEMPERATURE 80.0 * F(26.7 °C) DB. 67.0 * F(19.4 °C) WB OUTDOOR TEMPERATURE : 95.0 * F(35.0 °C) DB. 75.0 * F(23.9 °C) WB HEATING RETURN AIR TEMPERATURE : 70.0 * F(21.1 °C) DB, 60.0 * F(15.6 °C) HB OUTDOOR TEMPERATURE : 47.0 * F(8.3 °C) DB, 43.0 * F(6.1 °C) HB EXTERNAL STATIC PRESSURE 0. 20 in. WG (50Pa)

4D113010A

FDMQ15RVJU



OVER ALL (dB)				
00415	AIR FLOW RATE			
SCALE	Н			
Α	34. 0			
(B.G.N IS A	ALREADY RECTIFIED)			

OPERATING CONDITIONS

POWER	SOURCE	208/230V	60Hz	
COOL ING	RETURN AIR TEMP OUTDOOR TEMPERA			67.0 ° F(19.4 °C) WB 75.0 ° F(23.9 °C) WB
HEATING	RETURN AIR TEMP OUTDOOR TEMPERA			60.0 ° F(15.6 °C) WE 43.0 ° F(6.1 °C) WE

EXTERNAL STATIC PRESSURE 0.20in.WG(50Pa)

4D113011

FDMQ18RVJU



OVEF	ALL (dB)
	AIR FLOW RATE
SCALE	Н
Α	35. 0
(B. G. N IS A	ALREADY RECTIFIED)

OPERATING CONDITIONS POWER SOURCE 208/230V 60Hz

COOL ING	RETURN AIR TEMPERATURE OUTDOOR TEMPERATURE RETURN AIR TEMPERATURE	95.0°	F (35.0 °C)	DB	75.0°	F (23. 9	°C)	NB
HEATING	OUTDOOR TEMPERATURE					° F(6.1		

EXTERNAL STATIC PRESSURE 0. 20 in. WG (50Pa)

4D113012

Split Type Air Conditioners FDMQ-R Series

FDMQ24RVJU



10.3 Outdoor Unit

RX09RMVJU



RX12RMVJU



3D106146A

RX15RMVJU



RX18RMVJU



3D108255A

RX24RMVJU



Split Type Air Conditioners FDMQ-R Series

11. Electric Characteristics

Unit Con	nbination		Power Supply			Compressor	O	-M	IF	M
Indoor Unit	Outdoor Unit	Hz - Volts	Voltage Range	MCA	MFA	RLA	W	FLA	W	FLA
FDMQ09RVJU	RX09RMVJU	60 - 208	Max. 60 Hz 253 V	9.0	15	7.5	39	0.13	130	0.63
LDIM/008KA20	RYOBHINIAJO	60 - 230	Min. 60 Hz 187 V	9.0	15	7.5	39	0.13	130	0.63
FDMQ12RVJU	RX12RMVJU	60 - 208	Max. 60 Hz 253 V	9.1	15	7.5	39	0.13	130	0.73
T DIMOTZITV50		60 - 230	Min. 60 Hz 187 V	5.1	15	7.5	55	0.15	150	0.75
FDMQ15RVJU	RX15RMVJU	60 - 208	Max. 60 Hz 253 V	9.7	15	8.0	91	0.31	230	0.87
T DIMOTSITIV50		60 - 230	Min. 60 Hz 187 V	5.7	15	0.0	51	0.01	200	0.07
FDMQ18RVJU	RX18RMVJU	60 - 208	Max. 60 Hz 253 V	12.8	15	10.75	110	0.38	230	1.22
		60 - 230	Min. 60 Hz 187 V	12.0	15	10.75	110	0.30	230	1.22
FDMQ24RVJU	RX24RMVJU	60 - 208	Max. 60 Hz 253 V	16.9	20	14.5	125	0.43	230	1.54
1 DNQ2411030	11/241101030	60 - 230	Min. 60 Hz 187 V	10.9	20	14.5	125	0.40	200	1.54

Symbols:

MCA	: Min. circuit amps (A)
-----	-------------------------

MFA : Max. fuse amps (A)

RLA : Rated load amps (A)

OFM : Outdoor fan motor

IFM : Indoor fan motor

: Fan motor rated output (W) W

FLA : Full load amps (A)

Notes:

1. RLA is the max current that comes in cooling operation and heating

RLA is the max current that comes in cooling operation and nearing operation.
 Maximum allowable voltage variation between phases is 2%.
 Select wire size based on the larger value of MCA.
 Be sure to install a ground leak detector. (This unit uses an inverter, which means that a ground leak detector capable of handling high harmonics must be used in order to prevent malfunctioning of the ground leak detector.)

C: 3D112975

12. Installation Manual

12.1 Indoor Unit

CONTENTS

1.	SAFETY CONSIDERATIONS 1	L
2.	BEFORE INSTALLATION	3
З.	CHOOSING AN INSTALLATION SITE 4	1
4.	PREPARATION BEFORE INSTALLATION	5
5.	INDOOR UNIT INSTALLATION	3
6.	REFRIGERANT PIPING WORK	7
7.	DRAIN PIPING WORK)
8.	DUCT WORK 11	
9.	ELECTRIC WIRING WORK 11	
10.	FIELD SETTING 14	1
11.	TRIAL OPERATION AND TESTING.	5

1. SAFETY CONSIDERATIONS

Read these SAFETY CONSIDERATIONS for Installation

carefully before installing an air conditioner or heat pump. After completing the installation, make sure that the unit operates properly during the startup operation.

Instruct the user on how to operate and maintain the unit. Inform users that they should store this installation manual with the operation manual for future reference.

Always use a licensed installer or contractor to install this product.

Improper installation can result in water or refrigerant leakage, electric shock, fire, or explosion.

Meanings of **DANGER**, **WARNING**, **CAUTION**, and **NOTE** Symbols:

Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.
Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.
Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices.
Indicates situations that may result in equipment or property-damage accidents only.

- Refrigerant gas is heavier than air and replaces oxygen. A massive leak can lead to oxygen depletion, especially in basements, and an asphyxiation hazard could occur leading to serious injury or death.
- Do not ground units to water pipes, gas pipes, telephone wires, or lightning rods as incomplete grounding can cause a severe shock hazard resulting in severe injury or death.
 Additionally, grounding to gas pipes could cause a gas leak and potential explosion causing severe injury or death.
- If refrigerant gas leaks during installation, ventilate the area immediately. Refrigerant gas may produce toxic gas if it comes into contact with fire. Exposure to this gas could cause severe injury or death.
- After completing the installation work, check that the refrigerant gas does not leak throughout the system.
- Do not install unit in an area where flammable materials are present due to risk of explosions that can cause serious injury or death.

 Safely dispose all packing and transportation materials in accordance with federal/state/local laws or ordinances. Packing materials such as nails and other metal or wood parts, including plastic packing materials used for transportation may cause injuries or death by suffocation.

🕂 WARNING -

- Only qualified personnel must carry out the installation work. Installation must be done in accordance with this installation manual. Improper installation may result in water leakage, electric shock, or fire.
- When installing the unit in a small room, take measures to keep the refrigerant concentration from exceeding allowable safety limits. Excessive refrigerant leaks, in the event of an accident in a closed ambient space, can lead to oxygen deficiency.
- Use only specified accessories and parts for installation work. Failure to use specified parts may result in water leakage, electric shock, fire, or the unit falling.
- Install the air conditioner or heat pump on a foundation strong enough that it can withstand the weight of the unit. A foundation of insufficient strength may result in the unit falling and causing injuries.
- Take into account strong winds, typhoons, or earthquakes when installing. Improper installation may result in the unit falling and causing accidents.
- Make sure that a separate power supply circuit is provided for this unit and that all electrical work is carried out by qualified personnel according to local, state, and national regulations. An insufficient power supply capacity or improper electrical construction may lead to electric shock or fire.
- Make sure that all wiring is secured, that specified wires are used, and that no external forces act on the terminal connections or wires. Improper connections or installation may result in fire.
- When wiring, position the wires so that the electrical wiring box cover can be securely fastened. Improper positioning of the electrical wiring box cover may result in electric shock, fire, or the terminals overheating.
- · Before touching electrical parts, turn off the unit.
- The circuit must be protected with safety devices in accordance with local and national codes, i.e. a circuit breaker.
- Securely fasten the outdoor unit terminal cover (panel). If the terminal cover/panel is not installed properly, dust or water may enter the outdoor unit causing fire or electric shock.
- When installing or relocating the system, keep the refrigerant circuit free from substances other than the specified refrigerant (R410A) such as air. Any presence of air or other foreign substance in the refrigerant circuit can cause an abnormal pressure rise or rupture, resulting in injury.
- Do not change the setting of the protection devices. If the pressure switch, thermal switch, or other protection device is shorted and operated forcibly, or parts other than those specified by Daikin are used, fire or explosion may occur.

- Do not touch the switch with wet fingers. Touching a switch with wet fingers can cause electric shock.
- Do not allow children to play on or around the unit to prevent injury.
- The heat exchanger fins are sharp enough to cut. To avoid injury wear gloves or cover the fins while working around them.
- Do not touch the refrigerant pipes during and immediately after operation as the refrigerant pipes may be hot or cold, depending on the condition of the refrigerant flowing through the refrigerant piping, compressor, and other refrigerant cycle parts. Your hands may suffer burns or frostbite if you touch the refrigerant pipes. To avoid injury, give the pipes time to return to normal temperature or, if you must touch them, be sure to wear proper gloves.
- Install drain piping to proper drainage. Improper drain piping may result in water leakage and property damage.
- Insulate piping to prevent condensation.
- · Be careful when transporting the product.
- Do not turn off the power immediately after stopping operation. Always wait for at least 5 minutes before turning off the power. Otherwise, water leakage may occur.
- Do not use a charging cylinder. Using a charging cylinder may cause the refrigerant to deteriorate.
- Refrigerant R410A in the system must be kept clean, dry, and tight.
 - (a) Clean and Dry -- Foreign materials (including mineral oils such as SUNISO oil or moisture) should be prevented from getting into the system.
- (b) Tight -- R410A does not contain any chlorine, does not destroy the ozone layer, and does not reduce the earth's protection again harmful ultraviolet radiation. R410A can contribute to the greenhouse effect if it is released. Therefore take proper measures to check for the tightness of the refrigerant piping installation. Read the chapter *Refrigerant Piping Work* and follow the procedures.
- Since R410A is a blend, the required additional refrigerant must be charged in its liquid state. If the refrigerant is charged in a state of gas, its composition can change and the system will not work properly.
- The indoor unit is for R410A. See the catalog for indoor models that can be connected. Normal operation is not possible when connected to other units.
- Remote controller (wireless kit) transmitting distance can be shorter than expected in rooms with electronic fluorescent lamps (inverter or rapid start types). Install the indoor unit far away from fluorescent lamps as much as possible.
- Indoor units are for indoor installation only. Outdoor units can be installed either outdoors or indoors. This unit is for indoor use.
- Do not install the air conditioner or heat pump in the following locations:
- (a) Where a mineral oil mist or oil spray or vapor is produced, for example, in a kitchen. Plastic parts may deteriorate and fall off or result in water leakage.
- (b) Where corrosive gas, such as sulfurous acid gas, is produced.
- Corroding copper pipes or soldered parts may result in refrigerant leakage.
- (c) Near machinery emitting electromagnetic waves. Electromagnetic waves may disturb the operation of the control system and cause the unit to malfunction.

- (d) Where flammable gas may leak, where there is carbon fiber, or ignitable dust suspension in the air, or where volatile flammables such as thinner or gasoline are handled. Operating the unit in such conditions can cause a fire.
- Take adequate measures to prevent the outdoor unit from being used as a shelter by small animals. Small animals making contact with electrical parts can cause malfunctions, smoke, or fire. Instruct the user to keep the area around the unit clean.

- The indoor unit should be positioned where the unit and inter-unit wires (outdoor to indoor) are at least 3.3ft (1m) away from any televisions or radios. (The unit may cause interference with the picture or sound.) Depending on the radio waves, a distance of 3.3ft (1m) may not be sufficient to eliminate the noise.
- Dismantling the unit, treatment of the refrigerant, oil and additional parts must be done in accordance with the relevant local, state, and national regulations.
- Do not use the following tools that are used with conventional refrigerants: gauge manifold, charge hose, gas leak detector, reverse flow check valve, refrigerant charge base, vacuum gauge, or refrigerant recovery equipment.
- If the conventional refrigerant and refrigerator oil are mixed in R410A, the refrigerant may deteriorate.
- This air conditioner or heat pump is an appliance that should not be accessible to the general public.
- As design pressure is 604 psi, the wall thickness of fieldinstalled pipes should be selected in accordance with the relevant local, state, and national regulations.

FTN002-U

2. BEFORE INSTALLATION

When unpacking the indoor unit or moving the unit after unpacked, hold the hangers (4 places) and do not apply force to other parts (particularly refrigerant piping, drain piping).

- For installation of the outdoor unit, refer to the installation manual attached to the outdoor unit.
- Do not throw away the accessories until the installation work is completed.
- After the indoor unit is carried into the room, to avoid the indoor unit from getting damaged, take measures to protect the indoor unit with packing materials.
 - (1) Determine the route to carry the unit into the room.
 - (2) Do not unpack the unit until it is carried to the installation location.
 - Where unpacking is unavoidable, use a sling of soft material or protective plates together with a rope when lifting, to avoid damage or scratches to the indoor unit.
- Have the user actually operate the air conditioner while looking at the operation manual. Instruct the user how to operate the air conditioner (particularly operation procedures, and temperature adjustment).
- Do not use the air conditioner in a salty atmosphere such as coastal areas, vehicles, vessels or where voltage fluctuation is frequent such as factories.
- Take off static electricity from the body when carrying out wiring and the electrical wiring box cover is removed. The electric parts may be damaged.

2-1 ACCESSORIES



2-2 OPTIONAL ACCESSORIES

- A remote controller is required for the indoor unit.
 Select a remote controller from the table below according to
- user request and install in an appropriate place.
 Remote controller type

	1
Wired type	BRC1E73
Wireless type	BRC082A43

• The indoor unit can be switched to lower suction. (Refer to 4. PREPARATION BEFORE INSTALLATION.) The side cover plate (KDBD63A160) is required in the case of wiring from the bottom for underside suction. For installation work, refer to the instruction sheet provided with the side cover plate.

CARRY OUT THE WORK GIVING CAUTION TO THE FOLLOWING ITEMS AND AFTER THE WORK IS COMPLETED CHECK THESE AGAIN.

1. Items to be checked after the installation work is completed

Items to be checked	Symptom	Check
		Check
Are the indoor and outdoor units rigidly fixed?	Drop · vibration · noise	
Are the installation works of the outdoor and indoor units completed?	Does not operate · burnout	
Is the insulation of refrigerant piping and drain piping completely carried out?	Water leakage	
Does the drain flow out smoothly?	Water leakage	
Is the power supply voltage identical to that stated in the manufacturer's label on the air conditioner?	Does not operate · burnout	
Are you sure that there is no wrong wiring or piping or no loose wiring?	Does not operate · burnout	
Is grounding completed?	Danger in case of leakage	
Are the sizes of electric wiring according to the specification?	Does not operate · burnout	
Are any of air outlets or inlets of the indoor and outdoor units blocked with obstacles? (It may lead to capacity drop due to fan speed drop or malfunction of equipment.)	Does not cool / Does not heat	
Is the external static pressure set correctly?	Does not cool / Does not heat	

Also review the "SAFETY CONSIDERATIONS".

3

2. Items to be checked at time of delivery

Items to be checked	Check
Have you carried out field setting? (if necessary)	
Are the electrical wiring box cover, air filter, suction grille attached?	
Does the cool air discharge during the COOL operation and the warm air discharge during the HEAT operation? Does the indoor unit makes unpleasant sound of air discharge?	
Did you explain about operations while showing the operation manual to your user?	
Have you explained the description of COOL, HEAT, DRY and AUTOMATIC (cooling/heating) given in the operation manual to the user?	
If you set the fan speed at thermostat OFF, did you explain the set fan speed to the user.	
Did you hand the operation manual over to the user?	
Have you checked that there is no generation of abnormal noise (i.e., noise resulting from contamination or missing parts)?	
Is the printed circuit board switch not on the emergency (EMG.) side? The switch is factory set to the normal (NORM.) side.	
If an optional accessory is in use, did you check the operation of the optional accessory and make field settings as needed?	
Have you explained failure examples of 3. CHOOSING AN INSTALLATION SITE?	

Items to be checked at time of delivery

Test items	Check
Did you explain about operations while showing the operation manual to the user?	
Did you hand the operation manual over to the user?	

Points for explanation about operations

The items with Δ WARNING and Δ CAUTION marks in the operation manual are the items pertaining to possibilities for bodily injury and material damage in addition to the general usage of the product. Accordingly, it is necessary that you make a full explanation about the described contents and also ask the users to read the operation manual.

Note to the installer

Be sure to instruct customers how to properly operate the unit (especially operating different functions, and adjusting the temperature) by having them carry out operations while looking at the manual.

3. CHOOSING AN INSTALLATION SITE

Hold the hangers at 4 locations to move the indoor unit when unpacking or after unpacked, and do not apply force to the piping (refrigerant and drain) and air outlet flange. If the temperature and humidity in the ceiling is likely to exceed $86^{\circ}F$ ($30^{\circ}C$), RH80%, use the additional insulation stick to the indoor unit.

Use the insulation such as glass wool or polyethylene that has thickness of 3/8 inch (10mm) or more. However, keep the insulated outside dimension smaller than the ceiling opening so that the unit may go through the opening at installation.

- (1) Select the installation location that meets the following conditions and get approval of the user.
 - Where the cool and warm air spreads evenly in the room.
 - Where there are no obstacles in the air passage.
 - Where drainage can be ensured.
 - Where the ceiling's lower surface is not remarkably inclined.
 - Where there is sufficient strength to withstand the mass of the indoor unit. (If the strength is insufficient, the indoor unit may vibrate and get in contact with the ceiling and generate unpleasant chattering noise.)
 - Where a space sufficient for installation and service can be ensured. (Refer to Fig. 1 and Fig. 2)
 - Where the piping length between the indoor and the outdoor units is ensured within the allowable length. (Refer to the installation manual attached to the outdoor unit.)
 - Where there is no risk of flammable gas leak.



• * Dimension H1 indicates the product height.

 * Secure a downward slope of at least 1/100 specified in 7. DRAIN PIPING WORK and determine dimension H2.

<Failure example>

If there is an obstacle in the airflow path or proper installation space is not provided, the indoor unit will cause air volume reduction and take in air blown out of the indoor unit, thus resulting in performance degradation or turning the thermostat OFF frequently.

 Install the indoor and outdoor units, power supply wiring, remote controller wiring and transmission wiring at least 1 meter away from televisions or radios to prevent image interference or noise.

(Depending on the radio waves, a distance of 1 meter may not be sufficient to eliminate the noise.)

 Install the indoor unit as far as possible from fluorescent lamps.

If a wireless remote controller kit is installed, the transmission distance may be shorter in a room where an electronic lighting type (inverter or rapid start type) fluorescent lamp is installed.

(2) Use suspension bolts to install the unit.

Check whether or not the ceiling is strong enough to support the weight of the unit. If there is a risk that the ceiling is not strong enough, reinforce the ceiling before installing the unit.

4. PREPARATION BEFORE INSTALLATION

- Check the relation of location between the ceiling opening and the indoor unit suspension bolts. (unit: inch (mm))
 - Provide one of the following service spaces for the maintenance and inspection of the electrical wiring box and drain pump or for other services.
 - 1. Inspection ports 1 and 2 (17-11/16 inch (450mm) \times 17-11/16 inch (450mm)) (Fig. 3-2) and a minimum space of 11-13/16 inch (300mm) at the bottom of the product (Fig. 3-1).
 - Inspection port 1 (17-11/16 inch (450mm) × 17-11/16 inch (450mm)) on the electrical wiring box side and inspection port 2 on the bottom of the product. (Fig. 4, arrow A-1)
 - 3. Inspection port 3 on the bottom of the product and on the bottom side of the electrical wiring box. (Fig. 4, arrow A-2)





- (2) Mount canvas ducts to the air outlet and inlet so that the vibration of the indoor unit will not be transmitted to the ducts or ceiling. Furthermore, attach sound absorbing material (thermal insulation material) to the duct inner walls and anti-vibration rubber to the suspension bolts (refer to 8. DUCT WORK).
- (3) The indoor unit is set to standard external static pressure.
 - If external static pressure is higher or lower than the standard set value, the remote controller may be used to make on-site setting change in the external static pressure.

Refer to 10. FIELD SETTING.

5

(4) Open installation holes

(in the case of installation onto the existing ceiling).

- Open the installation holes on the ceiling of the installation location, and work on the refrigerant piping, drain piping, remote controller wiring, and wiring between the indoor and outdoor units to the piping connection port and wiring connection port of the indoor unit (refer to each piping and wiring procedure items).
- Ceiling framework reinforcement may be required in order to keep the ceiling horizontal and prevent ceiling vibration after opening the ceiling holes. For details, consult your building and upholstery work contractors.

(5) Install the suspension bolts.

• Use M8 or M10 bolts for hanging the indoor unit. Use hole-in-anchors for the existing bolts and embedded inserts or foundation bolts for new bolts, and fix the indoor unit firmly to the building so that it may withstand the mass of the unit.

In addition, adjust clearance (1-15/16 inch (50mm) -3-15/16 inch (100mm)) from the ceiling in advance.



Note) Components shown in the figure above are all local procurement.

- (6) In the case of changing the preset suction to underside suction, replace the chamber cover and the suction flange. (Refer to Fig. 5)
 - 1. Remove the suction flange and chamber cover.
 - 2. Replace the suction flange and the chamber cover.

- Secure a sufficient maintenance space for the drain pan and electrical components before installing the indoor unit.
- Secure a sufficient maintenance space for the filter chamber, and peripheral components before installing the indoor unit.



5. INDOOR UNIT INSTALLATION

Depending on the optional parts, it may be easier to attach them before installing the indoor unit. Refer to also the installation manual attached to the optional parts. As for the parts to be used for installation work, be sure to use the provided accessories and specified parts designated by our company.

- (1) Install the indoor unit temporarily.
 - Fix the hanger to the suspension bolt. Make sure to securely fix the hanger with the nut and the washer for hanger bracket (11) from the upper and lower side. (Refer to Fig. 6)

If the washer fixing plate (9) is used, the upper side washer for hanger bracket (11) may be protected from falling off. **(Refer to Fig. 7)**



[Washer fixing]





- Keep the air outlet covered with a protective sheet to prevent weld spatter and other foreign materials from entering the indoor unit and damaging the resin drain pan. (If holes or cracks are generated in the resin drain pan, water can leak.)
- (2) Adjust the height of the unit.
- (3) Check the unit is horizontally level. (Refer to Fig. 8)
- (4) Remove the washer fixing plate (9) used for preventing the washer for hanger bracket (11) from dropping and tighten the upper side nut.



- Install the indoor unit leveled. If the indoor unit is inclined and the drain piping side gets high, it may cause malfunction of float switch and result in water leakage.
- Attach nuts on the upper and lower side of hanger. If there is no upper nut and the lower nut is over-tightened, the hanger and the top plate will deform and cause abnormal sound.
- Do not insert materials other than that specified into the clearance between the hanger and the washer for hanger bracket (11).

Unless the washers are properly attached, the suspension bolts may come off from the hanger.

— 🥂 WARNING -

The indoor unit must be securely installed on a place that can withstand the mass.

If the strength is insufficient, the indoor unit may fall down and cause injuries.

6. REFRIGERANT PIPING WORK

Refer to the installation manual for the outdoor unit also.

 Carry out insulation of both gas and liquid refrigerant piping securely. If not insulated, it may cause water leakage. For gas piping, use insulation material of which heat resistant temperature is not less than 230°F (110°C).
 For use under high humidity, strengthen the insulation material for refrigerant piping. If not strengthened, the surface of insulation material may sweat.

(1) Flaring the pipe end

- 1. Cut the pipe end with a pipe cutter.
- 2. Remove burrs with the cut surface facing downward, so that the filings do not enter the pipe.
- 3. Put the flare nut on the pipe.
- Flare the pipe.
- 5. Check that the flaring has been done correctly.



· <u>/!</u> WARNING

- Do not apply mineral oil to the flare.
- Prevent mineral oil from getting into the system as this would reduce the service life of the units.
- Never use piping which has been used for previous installations. Only use parts which are delivered with this unit.
- Never install a dryer to this R410A unit in order to guarantee its service life.
- The drying material may dissolve and damage the system.
- Incomplete flaring may result in refrigerant gas leakage.

- Use the flare nut fixed to the main unit. (This is to prevent the flare nut from cracking as a result of deterioration over time.)
- Use a pipe cutter and flare suitable for the type of refrigerant.
- To prevent gas leakage, apply refrigeration oil only to the inner surface of the flare. (Use refrigeration oil for R410A.) (Refer to Fig. 10)
- Use a torque wrench when tightening the flare nuts to prevent damage to the flare nuts and gas leakage.
- Protect the open end of the pipe against dust and moisture.
- Do not allow anything other than the designated refrigerant to get mixed into the refrigerant circuit, such as air, etc. If any refrigerant gas leaks while working on the unit, ventilate the room thoroughly right away.
- Use only the flare nuts attached to the air conditioner. If
- other flare nuts are used, it may cause refrigerant leakage.

(2) Refrigerant piping

- 1. To prevent gas leakage, apply refrigeration machine oil only to the inner surface of the flare. (Use refrigeration oil for R410A)
- Align the centers of both flares and tighten the flare nuts 3 or 4 turns by hand, then tighten them fully with a spanner and a torque wrench.
 - Use a torque wrench when tightening the flare nuts to prevent damage to the flare nuts and gas leakage. (Refer to Fig. 9)

Flare nut tightening torque			
Gas side Liquid side			Liquid side
3/8 inch	1/2 inch	5/8 inch	1/4 inch
(9.5mm)	(12.7mm)	(15.9mm)	(6.4mm)
24.1-29.4ft•lbf	36.5-44.5ft•lbf	45.6-55.6ft•lbf	10.4-12.7ft•lbf
(32.7-39.9N•m)	(49.5-60.3N•m)	(61.8-75.4N•m)	(14.2-17.2N•m)

• The refrigerant is pre-charged in the outdoor unit.



parts.

If oil adheres, it may weaken the strength of screwed part. Do not tighten flare nuts too tight.

If a flare nut cracks, the refrigerant may leak.

Insulation of field piping must be carried out up to the

connection inside the casing. If the piping is exposed to the atmosphere, it may cause sweating, burn due to touching the piping, electric shock or a fire due to the wiring touching the piping.

- After leak test, referring to Fig. 11, insulate both the gas and liquid piping connection with the attached fitting insulation (4) and (5) to prevent the pipings from getting exposed. Then, tighten both the ends of insulating material with the clamp (8).
- Wrap the sealing pad (Medium) (7) around the fitting insulation (4) and (5) (flare nut section), both the gas and liquid piping.
- Make sure to bring the seam of fitting insulation (4) and (5) to the top.



NOTE

1. In case of refrigerant shortage due to forgetting additional refrigerant charge etc., it will result in malfunction such as does not cool or does not heat.

Refer to the outdoor unit installation manual or technical document for refrigerant piping.





 To avoid the attached drain hose (2) getting excessive force, do not bend nor twist it. It may cause water leakage.

- As for drain piping connection, do not connect the drain hose directly to a sewage that gives off ammonia odor. (The ammonia in the sewage may go through the drain piping and corrode the heat exchanger of the indoor unit.)
- In case of centralized drain piping, carry out piping work according to the procedure shown in the following Fig. 16.



As for the size of centralized drain piping, select the size

- that meets the capacity of indoor units to be connected. (Refer to the technical document)
- Positioning the upward drain piping at an angle may cause float switch malfunction and lead to water leakage.
- While replacing with new indoor unit, use the attached new drain hose (2) and the clamp metal (1).
 If an old drain hose or a clamp metal is used, it may cause water leakage.

(2) After piping work is finished, check if drainage flows smoothly.

[When the electric wiring work is finished]

 Gradually pour 1/4 gal of water from the inspection port at the bottom of the drain socket on the left side of the drain socket into the drain pan giving caution to avoid splashing water on the electric components such as drain pump and confirm drainage by operating the indoor unit under cooling mode according to
 10. FIELD SETTING. (Refer to Fig. 17)



[When the electric wiring work is not finished] • The electric wiring works (including grounding) must be

carried out by a qualified electrician.

- If a qualified person is not present, after the electric wiring work is finished, check the drainage according to the method specified in [When the electric wiring work is finished].
- 1. Open the electrical wiring box cover and connect the ground wiring to the ground terminal.
- 2. Make sure the electrical wiring box cover is closed before turning on the power supply.
 - Throughout the whole process, carry out the work giving caution to the wiring around the electrical wiring box so that the connectors may not come off.
- Gradually pour 1 litre of water from the air outlet on the left side of the drain socket into the drain pan giving caution to avoid splashing water on the electric components such as drain pump. (Refer to Fig. 17)
- When the power supply is turned on, the drain pump will operate. Drainage can be checked at the transparent part of the drain socket. (The drain pump will automatically stop after 10 minutes.)

The drainage of water can be confirmed with water level change in the drain pan through the access window.

- Do not connect the drain piping directly to the sewage that gives off ammonia odor.
 The ammonia in the sewage may go through the drain piping and corrode the heat exchanger of the indoor unit.
- Do not apply external force to the float switch. (It may result in malfunction)
- Do not touch the drain pump.
- Touching the drain pump may cause electric shock. 5. Turn off the power supply after checking drainage,
- and remove the power supply wiring.
- 6. Attach the electrical wiring box cover as before.
- (3) Sweating may occur and result in water leakage. Therefore, make sure to insulate the following 2 locations (drain piping that laid indoors and drain sockets).
 - Use the provided sealing pad (large) (6), and perform the thermal insulation of the clamp metal (1) and drain hose (2) after checking the drainage of water. **(Refer to Fig. 18)**





8. DUCT WORK

Pay the utmost attention to the following items and conduct the duct work.

- Check that the duct is not in excess of the setting range of external static pressure for the unit. (Refer to the technical datasheet for the setting range.)
- Attach a canvas duct each to the air outlet and air inlet so that the vibration of the equipment will not be transmitted to the duct or ceiling.

Use a sound-absorbing material (insulation material) for the lining of the duct and apply vibration insulation rubber to the suspension bolts.

- At the time of duct welding, perform the curing of the duct so that the sputter will not come in contact with the drain pan for the filter.
- If the metal duct passes through a metal lath, wire lath, or plate of a wooden structure, separate the duct and wall electrically.
- Be sure to heat insulate the duct for the prevention of dew condensation. (Material: Glass wool or styrene foam; Thickness: 1 inch (25mm))
- Be sure to attach the field supply air filter to the air inlet of the unit or field supply inlet in the air passage on the air suction side. (Be sure to select an air filter with a duct collection efficiency of 50 weight percent.)
- Explain the operation and washing methods of the locally procured components (i.e., the air filter, air inlet grille, and air outlet grille) to the user.
- Locate the air outlet grille on the indoor side for the prevention of drafts in a position where indirect contact with people.
- The air conditioner incorporates a function to adjust the fan to rated speed automatically. (10. FIELD SETTING) Therefore, do not use booster fans midway in the duct.

Connection method of ducts on air inlet and outlet sides.

- Connect the field supply duct in alignment with the inner side of the flange.
- Connect the flange and unit with the duct flange connection screw (3).
- Wrap aluminium tape around the flange and duct joint in order to prevent air leakage.



Connect the flange and unit with the flange connection screw (3) regardless of whether the duct is connected to the air inlet side.

9. ELECTRIC WIRING WORK

9-1 GENERAL INSTRUCTIONS

 Make certain that all electric wiring work is carried out by qualified personnel according to the applicable legislation and this installation manual, using a separate dedicated circuit.

Insufficient capacity of the power supply circuit or improper electrical construction may lead to electric shock or a fire.

- Make sure to install a ground fault circuit interrupter. Failure to do so may cause electric shock and a fire.
- Do not turn on the power supply (branch switch, branch overcurrent circuit breaker) until all the works are finished.
- Multiple number of indoor units are connected to one outdoor unit. Name each indoor unit as A-unit, B-unit and the like. When these indoor units are wired to the outdoor unit, always wire the indoor unit to the terminal indicated with the same symbol on the terminal block. If the wiring and the piping are connected to the different indoor units and operated, it will result in malfunction.
- Make sure to ground the air conditioner. Grounding resistance should be according to applicable legislation.
- Do not connect the ground wiring to gas or water pipings, lightning conductor or telephone ground wiring.
- Gas pipingIgnition or explosion may occur if the gas leaks.
- Water pipingHard vinyl tubes are not effective grounds.
- Lightning conductor or telephone ground wiring Electric potential may rise abnormally if struck by a lightning bolt.
- For electric wiring work, refer to also the "WIRING DIAGRAM" attached to the electrical wiring box cover.
- Carry out wiring between the outdoor units, indoor units and the remote controllers according to the wiring diagram.
- Carry out installation and wiring of the remote controller according to the "installation manual" attached to the remote controller.
- Do not touch the Printed Circuit Board assembly. It may cause malfunction.

- Do not use tapped wires, extension cords, or starburst connections, as they may cause overheating, electric shock, or fire.
- Do not use locally purchased electrical parts inside the product. (Do not branch the power for the drain pump, etc., from the terminal block.) Doing so may cause electric shock or fire.
- Do not connect the power wire to the indoor unit. Doing so may cause electric shock or fire.

- When clamping wiring, use the included clamping material to prevent outside pressure being exerted on the wiring connections and clamp firmly. When doing the wiring, make sure the wiring is neat and does not cause the electrical wiring box cover to stick up, then close the cover firmly.
- Outside the unit, separate the low voltage wiring (remote controller wiring) and high voltage wiring (wiring between units, ground, and other power wiring) at least 2 in. so that they do not pass through the same place together. Proximity may cause electrical interference, malfunctions, and breakage.

9-2 WIRING EXAMPLE

For the wiring of outdoor units, refer to the installation manual attached to the outdoor units.

Confirm the system type.

 Multi system: 2 through 6 (The number of connectable units will vary according to model) indoor units connect to 1 outdoor unit. The indoor unit is controlled by remote controller connected to each indoor unit.

Multi system Main power supply Main switch Fuse Outdoor unit 123 123 123 Dæ 123 (1)1213Indoor Indoo Indoor unit unit unit P_1P_2 **P**₁**P**₂ Remote controller (Optional accessories) Fig. 20

NOTE

- 1. All transmission wiring except for the remote controller wires is polarized and must match the terminal symbol.
- In case a shielding wire is to be used, connect a shielded portion with the
 for a remote controller terminal block. (Also, connect the ground for the remote control to a grounded metal part.)

9-3 SPECIFICATION FOR FIELD WIRE

Table 2

Table 2			
	Wire	Size	Length (ft.)
Wiring between units	Wire size and length must comply with local codes.	-	-
Remote controller wiring	Sheathed (2 wire)	AWG 18 - 16	Max.1640*
Wiring to ground terminal	Wire size and length must comply with local codes.	_	-

* This will be the total extended length in the system when doing group control.

9-4 WIRING CONNECTION METHOD

- <u>/</u> CAUTION FOR WIRING

 For connection to the terminal block, use ring type crimp style terminals with insulation sleeve or insulate the wirings properly.



Fig. 21

- Connect the terminal as shown in Fig. 22. When installing a single core wire.
- Do not carry out soldering finish when stranded wirings are used. (Otherwise, the loosening of wiring may result in abnormal heat radiation.)



Fig. 22

(Abnormal heating may occur if the wirings are not tightened securely.)

- Use the required wirings, connect them securely and fix these wirings securely so that external force may not apply to the terminals.
- Use a proper screw driver for tightening the terminal screws. If an improper screw driver is used, it may damage the screw head and a proper tightening cannot be carried out.
- If a terminal is over tightened, it may be damaged. Refer to the table shown below for tightening torque of terminals.

unit: lbf • ft (N • m)
Tightening torque
0.58 - 0.72 (0.79 - 0.98)
0.87 - 1.06 (1.18 - 1.44)

 Do not carry out soldering finish when stranded wirings are used.

- 🕂 warning -

• When wiring, form the wirings orderly so that the electrical wiring box cover can be securely fastened. If the electrical wiring box cover is not in place, the wirings may come out or be sandwiched by the box and the lid and cause electric shock or a fire.

(1) Remove the electrical wiring box cover.



(2) Attach the conduit to the conduit mounting plate (12).



 Attach the wire sealing pad (small) (10) to the conduit, the wiring between the indoor and outdoor units, and the ground wiring.



Fig. 24-2



• Insert the hook part of the conduit mounting plate (12) into part B and secure the conduit mounting plate (12) with the screws loosened (2 points).

NOTE 🗐

Remove the wiring fixture if you have difficulty performing this step.



Fig. 24-4

(3) Connect the wiring into the electrical wiring box through the wiring intake beside the electrical wiring box.



(4) Follow the instructions below and perform wiring in the electrical wiring box.



NOTE

Secure the wiring between the wiring intake and conduit with the clamp (8) so that the wiring will not become loose.

- (5) Mount the electrical wiring box cover and wrap the wire sealing pad (small) (10) so that the wiring through hole will be covered by the sealing pad.
 - Seal the clearance around the wirings with putty or insulating material (field supply).

(If insects and small animals get into the indoor unit,

short-circuiting may occur inside the electrical wiring box.) Wiring through





(6) Securely fix each wiring with the provided clamp material (8).



 See the installation manual supplied with the outdoor unit.

10. FIELD SETTINGS

Before carrying out field setting, check the items mentioned in **1. Items to be checked after the installation work is completed** on page 3.

- Check if all the installation and piping works for the air conditioner are completed.
- Check that the outside panel and piping cover of the indoor and outdoor units are closed.

< FIELD SETTINGS >

After turning on the power supply, carry out field setting from the remote controller according to the installation state.

- Carry out setting at 3 places, "Mode No.", "FIRST CODE No." and "SECOND CODE No.".
- The settings shown by _____ in the following tables indicate those when shipped from the factory.
- The method of setting procedure and operation is shown in the installation manual attached to the remote controller.
 NOTE
 - Though setting of "Mode No." is carried out as a group, if you intend to carry out individual setting by each indoor unit or confirmation after setting, carry out setting with the Mode No. shown in the parenthesis().
- Ask the user to keep the manual attached to the remote controller together with the operation manual.
- Do not carry out settings other than those shown in the table.
 Settings are performed by selecting "Mode No.", "FIRST
- CODE No.", and "SECOND CODE No.".

10-1 SETTINGS FOR EXTERNAL STATIC PRESSURE

Make settings in either method (a) or method (b).

- (a) Make settings with Air volume automatic adjustment function.
- "Air volume automatic adjustment" function: The air volume is adjusted to the rated air volume automatically.
- Be sure to check that the external static pressure is within the specification range before making settings. The external static pressure will not be automatically adjusted and air volume insufficiency or water leakage may result if the external static pressure is outside the range. (Refer to the technical document for the setting range of external static pressure.)

(1) Check that the electrical wiring and duct work have been completed.

(If the closing damper is set midway, be sure to check that the damper is opened. Furthermore, check that the air passage on the suction side is provided with an air filter (field supply)).

(2) If air conditioner has more than one air outlet and air inlet, be sure to make adjustments so that the air volume ratio of each air outlet and the corresponding air inlet will conform to the designed air volume ratio.

In that case, set the operating mode to "Fan". (In the case of changing the air volume, press the fan speed button on the remote controller and change the current selection to "High", "Medium", or "Low".)

(3) Make settings to adjust the air volume automatically. After setting the operating mode to "Fan", set the air conditioner to field setting mode with the operation of the air conditioner stopped. Select Mode No. [21] (11 in the case of batch settings), select FIRST CODE No. "7", and set the SECOND CODE No. to "03".

Return to the "Basic screen" ("Normal mode" if a wireless remote controller is used), and press the ON/OFF button. The operation lamp is lit, and the indoor unit will go into fan operation for air volume automatic adjustments (at which time, do not adjust the opening of the air outlet or inlet). The air volume adjustments will automatically terminate approximately 1 to 15 minutes after the indoor unit comes into operation, and the operation lamp will be OFF and the indoor unit will come to a stop.

Та	b	le	4	

Table 4					
Mode	FIRST	Setting	SEC	COND CODE	No.
No.	CODE No.	content	01	02	03
11(21)	7	Air volume adjustment	OFF	Air volume adjustment completion	Air volume adjustment start

- If airflow pathway changes, such as duct and air outlet changes, are made after air volume adjustments, be sure to make "Air volume automatic adjustment" again.
- If airflow pathway changes, such as duct and air outlet changes, are made after 11.TRIAL OPERATION AND TESTING or air conditioner relocation, contact your dealer.

(b) Select external static pressure with the remote controller. Check with Mode No. [21] per indoor unit that the SECOND CODE No. for the above "Air volume adjustment" is set to "01" (OFF). (The SECOND CODE No. is factory set to "01" (OFF).) Change the SECOND CODE No. by referring to the table below according to the external static pressure of the duct to be connected.

Table 5 09/12 class

External static pressure	Mode No.	FIRST CODE No.	SECOND CODE No.
30Pa			03
40Pa			04
50Pa			05
60Pa			06
70Pa			07
80Pa			08
90Pa	13(23)	6	09
100Pa			10
110Pa			11
120Pa			12
130Pa			13
140Pa			14
150Pa			15

Table 5 15/18/24 class

External static pressure	Mode No.	FIRST CODE No.	SECOND CODE No.
50Pa			05
60Pa			06
70Pa			07
80Pa			08
90Pa			09
100Pa	13(23)	6	10
110Pa			11
120Pa			12
130Pa			13
140Pa			14
150Pa			15

10-2 SETTING WHEN AN OPTIONAL ACCESSORY IS ATTACHED

• For setting when attaching an optional accessory, refer to the installation manual attached to the optional accessory.

10-3 SETTING FILTER SIGN

- A message to inform the air filter cleaning time will be indicated on the remote controller.
- Set the SECOND CODE No. shown in the Table 6 according to the amount of dust or pollution in the room.
- The periodical filter cleaning time can be shortened depending on the environment.

Table 6

Contamination	Hours until indication	Mode No.	FIRST CODE No.	SECOND CODE No.
Normal	Approx. 2500 hrs		0	01
More contaminated	Approx. 1250 hrs	10(20)	0	02
With indication			3	01
No indication*			3	02

* Use "No indication" setting when cleaning indication is not necessary such as the case of periodical cleaning being carried out.

10-4 REMOTE CONTROL SETTINGS

- <In the case of using a wireless remote controller>
- In the case of using a wireless remote controller, address settings for the wireless remote controller are required.
 For settings, refer to the installation manual provided with the wireless receiver kit.

11. TRIAL OPERATION AND TESTING

11-1 TRIAL OPERATION AND TESTING

- Trial operation should be carried out in either COOL or HEAT operation.
- 1. Measure the supply voltage and make sure that it is within the specified range.
- 2. In COOL operation, select the lowest programmable temperature; in HEAT operation, select the highest programmable temperature.
- Carry out the trial operation following the instructions in the operation manual to ensure that all functions and parts, are working properly.
 To protect the air conditioner, restart operation is disabled
 - for 3 minutes after the system has been turned off.
- After trial operation is complete, set the temperature to a normal level (78°F to 82°F (26°C to 28°C) in COOL operation, 68°F to 75°F (20°C to 24°C) in HEAT operation).
 - When operating the air conditioner in COOL operation in winter, or HEAT operation in summer, set it to the trial operation mode using the following method.
 Refer to For wired remote controller on page 16.

Refer to **For wireless remote controller** on page 17.

EDUS071718

For wired remote controller

- 1) Set to COOL or HEAT operation using the remote controller.
- 2) Press and hold Cancel button for 4 seconds or longer. Service settings menu is displayed.
- 3) Select Test Operation in the service settings menu, and press Menu/OK button. Basic screen returns and "Test Operation" is displayed at the bottom.
- 4) Press On/Off button within 10 seconds, and the test operation starts.

Monitor the operation of the indoor unit for a minimum of 10 minutes. During test operation, the indoor unit will continue to cool/heat regardless of the temperature setpoint and room temperature.

- In the case of above-mentioned procedures 3) and 4) in reverse order, test operation can start as well.
- 5) Press and hold Cancel button for 4 seconds or longer in the basic screen.

Service settings menu is displayed.

- Select Test Operation in the service settings menu, and press Menu/OK button. Basic screen returns and normal operation is conducted.
 - Test operation will stop automatically after 15-30 minutes. To stop the operation, press On/Off button.



For wireless remote controller 1) Press Image: Controller 2) Press Image: Controller Uon/off Image: Controller

3) Press starts. within 10 seconds, and the test operation

Monitor the operation of the indoor unit for a minimum of 10 minutes. During test operation, the indoor unit will continue to cool/heat regardless of the temperature setpoint and room temperature.

- In the case of above-mentioned procedures 1) and 2) in reverse order, test operation can start as well.
- Test operation will stop automatically after 15 30 minutes. ⊕ ON ∕ OFF

To stop the operation, press

• Some of the functions cannot be used in the test operation mode.

Precautions

1) Refer to "11-2 HOW TO DIAGNOSE FOR MALFUNCTION" if the unit does not operate properly.

11-2 HOW TO DIAGNOSE FOR MALFUNCTION

• If the air conditioner does not operate normally after installing the air conditioner, a malfunction shown in the table below may happen.

Wired remote controller display	Description
No display	 Power outage, power voltage error or open-phase Incorrect wiring (between indoor and outdoor units) Indoor PC-board assembly failure Remote controller wiring not connected Remote controller failure Open fuse or tripped circuit breaker (outdoor unit)
"Checking the connection. Please stand by." *	 Indoor PC-board assembly failure Wrong wiring (between indoor and outdoor units)

* "Checking the connection. Please stand by" will be displayed for up to 90 seconds following the application of power to the indoor unit. This is normal and does not indicate a malfunction. Diagnose with the display on the liquid crystal display remote controller.

With the wired remote controller

When the operation stops due to a malfunction, operation lamp blinks, and the malfunction code is indicated on the liquid crystal display. In such a case, diagnose the fault contents by referring to **Error History** in the service settings menu. In the case of group control, the unit No. is displayed so that the indoor unit with the trouble can be identified.

With the wireless remote controller

(Refer also to the operation manual attached to the wireless remote controller)

When the operation stops due to a malfunction the display on the indoor unit blinks. In such a case, diagnose the fault contents with the error code which can be found by following procedures.

- 1) Press the INSPECTION/TEST OPERATION button, " 1 is displayed and " 0 " blinks.
- 2) Press the TEMPERATURE SETTING button and find the unit No. which stopped due to trouble.

Number of beeps

rm all the following
ations
rm (3) and (6)

- 1 long beep No trouble
- 3) Press the OPERATION MODE SELECTOR button and upper figure of the error code blinks.
- Continue pressing the TEMPERATURE SETTING button until it makes 2 short beeps and find the upper code.
- 5) Press the OPERATION MODE SELECTOR button and lower figure of the error code blinks.
- 6) Continue pressing the TEMPERATURE SETTING button until it makes a long beep and find the lower code.
 • A long beep indicate the error code.

17

11-3 MALFUNCTION CODE

- Depending on the type of indoor or outdoor unit, the malfunction code may or may not be displayed.

Malfunction code	Descriptions and measures	Remarks
A1	Indoor Printed Circuit Board failure	
A3	Drain level abnormal	
A5	High pressure control or freeze-up protector	
A6	Indoor fan motor overload, over current, lock	
AO	Indoor Printed Circuit Board connection failure	
A8	Indoor unit power supply voltage abnormal	
AJ	Capacity setting failure	Capacity setting adapter or capacity data error, or disconnection of the capacity setting adapter, failure to connect the adapter, or the capacity is not set to the data-retention IC.
C1	Transmission error between indoor Printed Circuit Board (Master) and indoor Printed Circuit Board (Slave)	
C4	Indoor heat exchanger liquid pipe temperature sensor malfunction	Abnormal stop is applied depending on the model or condition.
C5	Indoor heat exchanger condenser / evaporator temperature sensor malfunction	Abnormal stop is applied depending on the model or condition.
C9	Suction air thermistor malfunction	Abnormal stop is applied depending on the model or condition.
CJ	Remote controller air thermistor malfunction	Remote controller thermo does not function, but body thermo operation is enabled.

	1	
E0	Action of safety device (Outdoor unit)	
E1	Outdoor Printed Circuit Board failure (Outdoor unit)	
E5	Compressor motor lock malfunction (Outdoor unit)	
E6	Compressor motor lock by over current (Outdoor unit)	
	Outdoor fan motor lock malfunction (Outdoor unit)	
E7	Outdoor fan instant overcurrent malfunction (Outdoor unit)	
E8	Input overcurrent (Outdoor unit)	
EA	Cooling/heating switch malfunction (Outdoor unit)	
F3	Discharge piping temperature malfunction (Outdoor unit)	
F6	High pressure control (in cooling) (Outdoor unit)	
F8	Operation halt due to compressor internal temperature abnormality	
Н0	Sensor fault for inverter (Outdoor unit)	
H6	Operation halt due to faulty position detection sensor	
H8	CT abnormality (Outdoor unit)	
H9	Outdoor air thermistor system malfunction (Outdoor unit)	Abnormal stop is applied depending on the model or condition.
JЗ	Discharge piping thermistor system malfunction (Outdoor unit)	Abnormal stop is applied depending on the model or condition.
J6	Outdoor heat exchanger distributor liquid piping thermistor malfunction (Outdoor unit)	Abnormal stop is applied depending on the model or condition.
L3	Reactor thermistor malfunction (Outdoor unit)	
L4	Overheated heat-radiating fin (Outdoor unit)	Inverter cooling failure.
L5	Instantaneous overcurrent (Outdoor unit)	The compressor engines and turbines may be experiencing a ground fault or short circuit.

P4	Heat-radiating fin thermistor malfunction (Outdoor unit)	Abnormal stop is applied depending on the model or condition.
UO	Suction piping temperature abnormal (Outdoor unit)	The refrigerant may be insufficient. Abnormal stop is applied depending on the model or condition.
U2	Power voltage malfunction (Outdoor unit)	The inverter open-phase or main circuit condenser may be malfunctioning. Abnormal stop is applied depending on the model or condition.
U4 UF	Transmission error (between indoor and outdoor units)	Wiring error between indoor and outdoor unit. Or Indoor and outdoor Printed Circuit Board failure.
U5	Transmission error (between indoor and remote controller units)	Transmission between indoor unit and remote controller is not performed properly.
U7	Transmission error of the inverter module	
UA	Field setting error	System setting error of the simultaneous on/off multi-split type.
UE	Transmission error (between indoor unit and centralized remote controller)	
UC	Remote controller address setting error	

- A CAUTION -

After test operation is completed, check the items mentioned in the clause 2 **2. Items to be checked at time of delivery** on page 4.

If the interior finish work is not completed when the test operation is finished, for protection of the air conditioner, ask the user not operate the air conditioner until the interior finish work is completed.

If the air conditioner is operated, the inside of the indoor units may be polluted by substances generated from the coating and adhesives used for the interior finish work and cause water splash and leakage.

After test operation is completed, before delivering the air conditioner to the user, confirm that the electrical wiring box cover is closed.

In addition, explain the power supply status (power supply ON/ $\ensuremath{\mathsf{OFF}}\xspace$) to the user.

3P500432-1

12.2 <BRC1E73> Wired Remote Controller

1. Safety Considerations

The original instructions are written in English. All other languages are translations of the original instructions.

All phases of the field-installation, including, but not limited to, electrical, piping, safety, etc. must be in accordance with manufacturer's instructions and must comply with national, state, provincial and local codes.

Read these SAFETY CONSIDERATIONS carefully before installing the remote controller.

After completing the installation, ensure that the remote controller operates properly during the startup operation.

Train the customer to operate and maintain the remote controller. Inform customers that they should store this Installation Manual with the Operation Manual for future reference.

Always use a licensed installer or contractor to install this product. Improper installation can result in electrical shock, fire, or explosion.

Meanings of WARNING, CAUTION, and NOTE Symbols.

Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.
Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices.
Indicates situations that may result in equipment or property-damage accidents only.

Only qualified personnel must carry out the installation work.

Consult your Daikin dealer regarding relocation and reinstallation of the remote controller. Improper installation work may result in electric shocks or fire.

Electrical work must be performed in accordance with relevant local and national regulations and with instructions in this installation manual.

Improper installation may cause electrical shocks or fire.

Use only specified accessories and parts for installation work.

Failure to use specified parts may result in electric shocks, fire, or the unit falling.

Do not disassemble, reconstruct, or repair.

Electric shock or fire may occur.

Make sure that all wiring is secured, that specified wires are used, and that no external forces act on the terminal connections or wires.

Improper connections or installation may result in fire.

Before touching electrical parts, confirm the power-off to the unit.

Keep water out of the remote controller.		
To avoid electric shock due to entry of water or insects, fill the wiring through-hole with putty.		
Do not wash the remote controller with water as it may result in electrical shocks or fire.		
Do not touch the remote controller buttons with wet fingers.		
Touching the buttons with wet fingers can cause an electric shock.		
Do not install the remote controller in the following locations:		
(a) Where a mineral oil mist or oil spray or vapor is produced, for example, in a kitchen.		
Plastic parts may deteriorate.		
(b) Where corrosive gas, such as sulfurous acid gas, is produced.		
(c) Near machinery emitting electromagnetic waves.		
Electromagnetic waves may disturb the operation of the control system and cause the unit to		
malfunction.		
(d) Where flammable gas may leak, where there is carbon fiber or ignitable dust suspensions in the		
air, or where volatile flammables such as thinner or gasoline are handled.		
Operating the unit in such conditions can cause a fire.		
(e) High temperature area or direct flame.		
Overheating and/or fire can occur.		
(f) Moist area, where there is exposure to water. If water enters the inside of the remote controller, it may cause electric shock and electrical components may fail.		
it may cause electric shock and electrical components may fail.		
Å NOTE		
Install the control wires for the indoor and the remote controller at least 3.5 feet (1 meter) away from		
televisions or radios to prevent image interference or noise. Depending on the radio waves, a		
distance of 3.5 feet (1 meter) may not be sufficient to eliminate the noise.		
When remote controller's temperature sensor is used, select the installation location as per the		
following:		
 A place where average temperature in the room can be detected. 		

- A place where average temperature in the room can be detected.
- A place where it is not exposed to direct sunlight.
- A place where it is far away from any heat source.
- A place where it is not affected directly by outside air.

2. Accessories

The following accessories are included.

Drywall screw	Drywall anchor	Wire tie	Operation manual	Installation manual	Wiring retainer
O.	ALL AND	A A A A A A A A A A A A A A A A A A A			
(2 pcs.)	(2 pcs.)	(1 pc.)	(1 pc.)	(1 pc.)	(1 pc.)

3. Remote Controller Installation Procedure

3-1 Determine where to install the remote controller.

Make sure to follow the Safety Considerations when determining the location.

3-2 If the control wire for the remote controller is to be routed from the rear, consider the location of the access hole in the lower case for making a hole in the wall.



3-3 Remove upper case.

Insert a screwdriver in the recess of lower case to remove the upper case (2 points).



4

- 3-4 Determine the location where the wiring will enter the remote controller (back, left side, top left, top center).
 - 3-4-1 Back outlet



Cut off resin area (notched area).

3-4-3 Top left outlet



Cut the plastic at the notched area and remove any remaining burrs.

3-4-2 Left outlet



Cut the plastic at the notched area and remove any remaining burrs.

3-4-4 Top center outlet



Cut the plastic at the notched area and remove any remaining burrs.

3-5 Install wiring.

- 🗥 NOTE -

- 1. Switch box and control wiring are filed supplied.
- 2. Do not touch the remote controller printed-circuit board.

Wiring Specifications

Wiring Type	Non-shielded, 2-conductor, stranded copper wire
Wiring Size	AWG-18
Wiring Length	Maximum 1640 feet (500 m)


Prepare the wiring for connection to the remote controller following these instructions:

Length of jacket to be removed:

- Approx. 6 inch (150 mm) for top left outlet
- Approx. 8 inch (200 mm) for top center outlet

Connect the terminals (P/P1, N/P2) of the remote controller to the terminals (P1, P2) of the indoor unit. (P1 and P2 are not polarity sensitive.)

3-5-1 Back outlet



3-5-2 Left outlet



3-5-3 Top left outlet



3-5-4 Top center outlet



— 🗥 NOTE -

• To prevent electrical noise and possible communication errors, avoid installing the remote controller wiring parallel to or in the vicinity of line voltage circuits.

3-6 Installation procedure for the lower case.

When wiring the remote controller through the top center or rear access points, attachment of the wire to the lower case is required before it is wall mounted. Closely follow the wiring procedures.

3-6-1 Wall installation

Secure by using furnished drywall anchors and screws (2 pcs.).



3-6-2 Switch box installation

Secure by using field supplied machine screws (2 pcs.).







3-7 Install the upper case.

- Align the upper case with tabs of the lower case (6 points), insert and install the upper case.
- Install the wiring with care to prevent pinching.
- Peel off the protective membrane which overlays the upper case.



4. Functions and Menu Items of Remote Controller Buttons

4-1 Functions and menu items



Language

*Depending on connected model

(7) Left button <

- Used to highlight items to the left of the currently selected item.
- Display contents are changed to previous screen per page.

(8) On/Off button

Press once to operate, and press once again to stop.

(9) Operation lamp

Green lamp lights up during operation. The lamp will flash if a malfunction occurs.

(10) Cancel button

- Used to return to the previous screen.
- Press and hold this button for 4 seconds or longer to display service settings menu.

(11) LCD (with backlight)

The backlight will illuminate for approximately 30 seconds by pressing any operation button.

Service Settings menu

Test Operation Maintenance Contact Field Settings *Energy Saving Options Prohibit Function Min Setpoints Differential *Outdoor unit AirNet Address Error History *Indoor Unit Status *Outdoor Unit Status Forced Fan ON Switch Main Sub Controller Filter Indicator *Brush/Filter Ind.

*Disable Filter Auto Clean

*Depending on connected model

- Operate the button while the backlight is illuminated.
- When one indoor unit is controlled by two remote controllers (main / sub) only the first controller to be accessed by the user will illuminate it's backlight.

4-2 Button menu display descriptions

<Service settings menu screen>



5. Power-on

- Check for completion of indoor/outdoor unit wiring.
- Ensure that covers have been replaced on electrical component boxes for both indoor and outdoor units prior to restoring power.



— NOTE When selecting a different language, refer to Chapter 12. Language. (See page 21.)

6. Field Settings

- 6-1 Press and hold Cancel button for 4 seconds or longer. Service settings menu is displayed.
- **6-2** Select **Field Settings** in the Service Settings menu, and press **Menu/OK** button. Field settings screen is displayed.
- 6-3 Highlight the mode, and select desired "Mode No." by using ▲▼ (Up/Down) button.
- 6-4 In the case of setting per indoor unit during group control (When Mode No. such as 20, 21, 22, 23, 25 are selected), highlight the unit No. and select "Indoor unit No." to be set by using ▲▼ (Up/Down) button. (In the case of group setting, this operation is not needed.)

In the case of individual setting per indoor unit, current settings are displayed. And, SECOND CODE NO. " - " means no function.

6-3

6-4

6-5

6-5 Highlight SECOND CODE NO. of the FIRST CODE NO. to be changed, and select desired "SECOND CODE NO." by using ▲▼ (Up/Down) button. Multiple identical mode number settings are available.

In the case of setting for all indoor units in the remote control group, available SECOND CODE NO. is displayed as " * " which means it can be changed. When SECOND CODE NO. is displayed as " - ", there is no function.



- **6-6** Press Menu/OK button. Setting confirmation screen is displayed.
- **6-7** Select Yes and press Menu/OK button. Setting details are determined and field settings screen returns.
- 6-8 In the case of multiple setting changes, repeat "6-3" to "6-7".
- **6-9** After all setting changes are completed, press **Cancel** button twice.
- 6-10 Backlight goes out, and [Checking the connection. Please stand by.] is displayed for initialization. After the initialization, the basic screen returns.



- Installation of optional accessories on the indoor unit may require changes to field settings. See the manual of the optional accessory.
- For field setting details related to the indoor unit, see installation manual shipped with the indoor unit.

Mode No.	First Code		Second Code No. (Note 2) (Items in bold are factory default settings)				
(Note 1)	No.		01	02	03	04	
2 :		Priority of thermistor sensors for space temperature control	The return air thermistor is primary and the remote controller thermistor is secondary.	The remote controller thermistor is not utilized. Only the return air thermistor will be utilized.	Only the remote controller thermistor will be utilized.		
	5	Room temperature value reported to multizone controllers	Return air thermistor	Thermistor designated by 10-2 above (Note 3)			
12 (22)	2	Thermo-on/off deadband (Note 4)	2F (1C)	1F (0.5C)			
1 1c		Thermistor sensor for auto changeover and setback control by the remote controller	Utilize the return air thermistor	Utilize the remote controller thermistor			
	3	Access permission level setting	Level 2	Level 3			
1e	2	Setback availability	N/A	Heat only	Cool only	Cool/Heat	

- Notes) 1. Field settings are normally applied to the entire remote control group, however if individual indoor units in the remote control group require specific settings or for confirmation that settings have been established, utilize the mode number in parenthesis.
 - 2. Any features not supported by the connected indoor unit will not be displayed.
 - 3. When mode 10-2-01 is selected, only the return air temperature value is reported to the multizone controller.
 - 4. The actual default deadband value will depend upon the indoor unit model.

7. Test Operation

Also see installation manuals furnished with the indoor unit and the outdoor unit.

- Verify that the wiring of the indoor unit and the outdoor unit is completed.
- Ensure that covers have been replaced on electrical component boxes for both indoor and outdoor units prior to restoring power.
- After refrigerant piping, drain piping and electric wiring are completed, clean inside of the indoor unit and decorative panel.
- Perform the test operation according to following procedure.
- To protect the compressor, apply power to the outdoor unit at least 6 hours prior to test operation.
- Set the remote controller display mode to standard or detailed display mode. Refer to Operation Manual for the setting method.

Notes for backlight -

- The backlight will be ON for 30 seconds by pressing any button.
- The initial push of the button will only turn on the backlight. While the backlight is turned on, the buttons assigned functionality will be available.
- **7-1** Set the operation mode to cooling by using the remote controller.
- **7-2** Press and hold **Cancel** button for 4 seconds or longer. Service settings menu is displayed.
- **7-3** Select **Test Operation** in the service settings menu, and press **Menu/OK** button. Basic screen returns and message "Test Operation" is displayed at the bottom.





- **7-4** Press **On/Off** button within 10 seconds, and the test operation starts. Monitor the operation of the indoor unit for a minimum of 10 minutes. During test operation, the indoor unit will continue to cool regardless of the temperature setpoint and room temperature.
 - * Note) In the case of above-men-

tioned procedures **7-3** and **7-4** in reverse order, test operation can start as well.

- **7-5** Press **Menu/OK** button in the basic screen. Main menu is displayed.
- 7-6 In the case of a model having airflow direction function, select
 Airflow Direction in the main menu and check that airflow direction is actuated according to the setting. For operation of airflow direction setting, see the operation manual.
- **7-7** After the operation of airflow direction is confirmed, press **Menu/OK** button. Basic screen returns.
- **7-8** Press and hold **Cancel** button for 4 seconds or longer in the basic screen. Service settings menu is displayed.
- 7-9 Select Test Operation in the service settings menu, and press Menu/OK button. Basic screen returns and normal operation is conducted. * Note) The test operation will automat-

ically finish in 30 minutes.

- **7-10** Check the functions according to the operation manual.
- **7-11** When the decorative panel is not installed, shut off the power supply after the test operation finishes.
- If construction activities are planned within the space following the test operation procedure, recommend to the customer that the indoor unit is not operated to prevent contamination from paints, drywall dust and other airborne materials.



<Basic screen>

- If operation is not possible due to a malfunction, refer to following Failure diagnosis method
 After the test operation finishes, check whether the error code history is displayed on the
- maintenance information screen of the main menu according to the following procedure.
- 7-12 Press Menu/OK button in the basic screen. Main menu screen is displayed.
- **7-13** Select Maintenance Information in the main menu, and press Menu/OK button.
- **7-14** Maintenance information screen is displayed. Check whether the error code history is displayed on the screen.
 - * If no error code history is displayed following this procedure the system has normally completed the test operation mode.
- 7-15 If the error code history is displayed, conduct the failure diagnosis referring to <Error code list> in the installation manual of the indoor unit.
 After the failure diagnosis finishes, press and hold On/Off button for 4 seconds or longer in the maintenance information screen to erase the error code history.

Failure diagnosis method

- Whenever the remote controller display is blank or displays [Checking the connection. Please stand by.], troubleshoot the system with the items in the Description column of the following table.
- If an error occurs, CODE is displayed on the LCD as shown to the right. Conduct the failure analysis referring to <Error code list> in the installation manual of the indoor unit. When the unit No. which detected the error during group control is confirmed,

refer to Chapter 8: Procedure for Checking Error History.





Remote controller display	Description
No display	 Power outage, power voltage error or open-phase Incorrect wiring (between indoor and outdoor units) Indoor printed-circuit board assembly failure Remote controller wiring not connected Remote controller failure Open fuse or tripped circuit breaker (outdoor unit)
Checking the connection. Please stand by. *	 Indoor printed-circuit board assembly failure Wrong wiring (between indoor and outdoor units)

* [Checking the connection. Please stand by.] will be displayed for up to 90 seconds following the application of power to the indoor unit. This is normal and does not indicate a malfunction.

8. Procedure for Checking Error History

- **8-1** Press and hold **Cancel** button for 4 seconds or longer in the basic screen. Service settings menu is displayed.
- **8-2** Select Error History in the service settings menu, and press Menu/OK button. The error history menu screen is displayed.
- 8-3 Select RC Error History in the error history menu, and press Menu/OK button.
 Error codes and unit No. can be confirmed in the RC error history screen.
- **8-4** In the error history, the 10 most recent items are displayed in order of occurrence.
- **8-5** Press Cancel button in the RC error history screen 3 times. The basic screen returns.



9. Adding Maintenance Contact Information

- Registration of the maintenance contact.
- 9-1 Press and hold Cancel button for 4 seconds or longer in the basic screen.
 Service settings menu is displayed.
- 9-2 Select Maintenance Contact in the service settings menu, and press
 Menu/OK button. Maintenance contact menu screen is displayed.
- 9-3 Select Maintenance Contact , and press Menu/OK button.
- 9-4 Enter the telephone number.
 Scroll through the numbers by using
 ▲▼ (Up/Down) buttons. Start from the left side. Blank digits should remain as " ".
- **9-5** Press **Menu/OK** button. Setting confirmation screen is displayed.
- **9-6** Select Yes and press Menu/OK button. Setting details are saved and service settings menu screen returns.
- **9-7** Press Cancel button once. The basic screen returns.



10. Confirming Registered Details

10-1 Press Menu/OK button in the basic

10-1

Main menu is displayed. Select Maintenance Information in the main menu, and press Menu/OK button.

10-2 Press **Cancel** button twice. The basic screen returns.

screen.



11. Clock & Calendar



11-3 Select year, month, day and time by using ▲► (Left/Right) button and set by using ▲▼ (Up/Down) button in the date & time screen. Press and hold the button for continuous change of the numeric value.

* Day of the week is set automatically.

- **11-4** Press **Menu/OK** button. Setting confirmation screen is displayed.
- **11-5** Select Yes and press Menu/OK button. Setting details are saved and basic screen returns.
- * If power outage exceeds 48 hours, reset is needed.



12. Language

12-1 Press Menu/OK button in the basic <Basic screen> screen. ∇ Main menu is displayed. Select Language in the main menu, <Main menu screen> press Menu/OK button. 12-1 Main Menu Language 12-2 Press ▲▼ (Up/Down) buttons to select Language on the language screen. English/Français/Español Press Menu/OK button. Press Menu/OK button. $\overline{\mathbf{v}}$ 12-2 Language English

Setting



3P243521-7L

12.3 <BRC082A43> Wireless Remote Controller

Wireless Remote Controller Kit

Installation manual

CONTENTS

1. SAFETY CONSIDERATIONS	2
2. BEFORE INSTALLATION	2
3. REMOTE CONTROLLER INSTALLATION	2
4. RECEIVER INSTALLATION	3
5. FIELD SETTING	6
6 TEST OPERATION	6

1. SAFETY CONSIDERATIONS

Please read these "SAFETY CONSIDERATIONS" carefully before installing air conditioning equipment and be sure to install it correctly. After completing the installation, make sure that the unit operates properly during the start-up operation. Please instruct the customer on how to operate the unit and keep it maintained.

Also, inform customers that they should store this installation manual along with the operation manual for future reference. This air conditioner comes under the term "appliances not accessible to the general public".

Meaning of warning, caution and note symbols.

Indication a potentially hazardous sit- uation which, if not avoided, could result in death or serious injury.
Indication a potentially hazardous sit- uation which, if not avoided, may result in minor or moderate injury. It may also be sued to alert against unsafe practices.
Indication situation that may result in equipment or property-damage-only accidents.

– 🥂 WARNING-

 Perform installation work in accordance with this installation manual.

Improper installation may result in electric shocks or fire.

 Be sure to use only the specified accessories and parts for installation work.
 Failure to use the specified parts may result in, electric

shocks, fire or the unit falling.

- Before touching electrical parts, turn off the unit.
- Do not touch the switch with wet fingers.
- Touching a switch with wet fingers can cause electric shock.

- Refer also to the installation manuals attached to the indoor unit and the decoration panel.
- Confirm that the following conditions are satisfied prior to installation.

Ensure that nothing interrupts the operation of the wireless remote controller. (Ensure that there is neither a source of light nor fluorescent lamp near the receiver. Also, ensure that the receiver is not exposed of direct sunlight.)

Ensure that the operation display lamp and other indicators are easy to see.

- The installation position of this receiver is one corner of the decoration panel. Therefore, confirm that its position is set so that the signal from the wireless remote controller can be easily transmitted and its display can be easily seen.
- If both this kit and fresh air intake kit are installed, only one duct chamber shall be used. Refer to the installation manual of the fresh air intake kit (optional hand book).

2. BEFORE INSTALLATION

2-1 ACCESSORIES

Check if	the following acce	essories are inclu	ded with the unit
Name (1) Receiver		(2) Wireless remote controller	(3) Remote controller holder
Quantity	1 pc.	1 pc.	1 pc.
Shape			
Name (4) Dry cell battery LR03 (AM4)		(5) Unit No. label	(6) Screw for install- ing remote con- troller holder
Quantity	2 pcs.	1 pc.	2 pcs.
Shape		1 2 3 1 2 3 1 2 3	M3.5

Name (7) Mounting screw (Black)		(8) Mounting screw	(9) Paper pattern printing
Quantity	2 pcs.	2 pcs.	1 pc.
Shape	M4	M5	3-15/16×1-15/16 (in.)

Name	(10) Winged bar	(11) Operation manual	(12) Installation manual
Quantity	1 pc.	1 pc.	1 pc.
Shape		\bigcirc	\bigcirc

2-2 NOTE TO THE INSTALLER

Be sure to instruct the customer how to properly operate the system showing him/her the attached operation manual.

3. REMOTE CONTROLLER INSTALLATION </br><Installing wireless remote controller>

 Do not throw the remote controller or impose large shocks. Also, do not store where it may be exposed to moisture or direct sunlight.

- When operating, point the transmitting part of the remote controller in the direction of the receiver.
- The direct transmitting distance of the remote controller is approximately 23 ft..
- The signal cannot be transmitted if something such as curtains blocks the receiver and the remote controller.

G

- Installing to a wall or a pillar
- 1. Fix the remote controller holder (3) with the screws (6).
- 2. Slide the remote controller (2) into the remote controller holder (3) from the top.
- How to put the dry cell batteries
 - Remove the back cover of the remote controller (2) to the direction pointed by the arrow mark.
- Put the dry cell batteries. Use two LR03<AM4> dry cell batteries (4). Put the dry cell batteries (4) correctly to fit their (+) and (-).
- 3. Close the back cover as before.

4. RECEIVER INSTALLATION

- Do not install more than 3 receivers in the vicinity of one another.
- With 4 or more units, there is always the possibility of malfunction.

4-1. Preparations before installation

- Remove the upper part of the receiver (1).
- Insert the screwdriver (-) here and gently work off the upper part of the receiver (1).



4-2. Determination of address and MAIN/SUB remote controller

If setting multiple wireless remote controllers to operate in 1 room, perform address setting for the receiver and the wireless remote controller. If setting multiple wired remote controllers in 1 room, change the MAIN/SUB switch of the receiver.

4-3. Setting procedure

 Setting the receiver Set the wireless address switch (SS2) on the PC-board according to the table below.



Change the setting so that the internal electronic equipments are not damaged with a pen etc.

When using both a wired and a wireless remote controller for 1 indoor unit, the wired controller should be set to MAIN. Therefore, set the MAIN/SUB switch (SS1) of the receiver to SUB.

	MAIN	SUB
MAIN/ SUB switch (SS1)	M S	M S

4-4. Receiver installation

– 🥂 WARNING—

Be sure to turn off the power before installation.

- \Lambda CAUTION -

<Precautions on transmission wiring>

- When wiring, run the wiring away the power supply wiring in order to avoid receiving electric noise (external noise).
- When wiring, refer to the wiring diagram of indoor unit (attached to indoor unit) as well.

WIRING SPECIFICATION

Wiring type	Sheathed wire (2 wire)
Size	AWG18-16
Wiring length	Max 650 ft. (See Note)

Keep wires to less than 650 ft. total when using 2 remote controllers (wired or wireless) and when not.

4-5. Attaching the receiver (for ceiling installation)

- 1. Prepare the ceiling for the receiver.
 - Open a hole in the ceiling for the receiver. (Use paper pattern printing (9)).



- 2. Wire the indoor unit and fix the lower part.
 - Install the winged bar (10) to the lower part and fit the part with the screws (8). Then, wire (field supplied) accordingly. (Connect the P1 and P2 terminals on the rear of the lower part to the P1 and P2 terminals on the indoor unit. The P1 and P2 terminals have no polarity.)



 Insert the lower part into the opening in the ceiling, first by pressing the wings inward to fit the hole and then by pushing from the screws (8) until it sits flat on the ceiling.



• Tighten the screws (8) until the lower part is fixed in place.



(Tighten both screws (8) evenly. Overtightening may deform the case and possibly make it harder to install the upper part.)

• Attach the upper part of receiver (1).



(Install the upper part on the lower part being careful parts are facing in the correct direction. After installation, turn on the power, and test emergency run button.)



4-6 Attaching the receiver (for wall mounting) 1. Wire the indoor unit.



(Connect the P1 and P2 terminals on the rear of the lower part to the P1 and P2 terminals on the indoor unit. Neither of the terminals is polarized, so it is not important if connections are crossed.)

2. Fix the lower part.

 Install the lower part on the control box (field supplied part). (Select as flat a place as possible to install the lower part. Also, be aware of the fact that overtightening the screws (7) may deform the case and possibly make it harder to install the upper part.)



3. Attach the upper part of remote controller. (Install the upper part on the lower part being careful parts are facing in the correct direction. After installation, turn on the power, and test emergency run button.)



The control box and wiring are not included.
 Do not directly touch the PC-board with your hand.

4-7. Setting the address of wireless remote controller (It is factory set to "1".) <Setting from the remote controller>



- Hold down the " Ш " button and the " 遂/TEST " button for at least 4 seconds to get the FIELD SET MODE. (Indicated in the display area in the figure at top.)
- (2) Press the " A FAN " button and select a multiple setting (A/b). Each time the button is pressed the display switches between "A" and "b".

(3) Press the " △ " button and " ▽ " button to set the address.

$$\rightarrow 1 \rightarrow 2 \rightarrow 3 \rightarrow 4 \rightarrow 5 \rightarrow 0$$

Address can be set from 1 to 6, but set it from 1 to 3 and to same address as the receiver. (The receiver does not work with address from 4 to 6.)

- (4) Press the "RESERVE " button to enter the setting.
- (5) Push the " <u>★/TEST</u> " button to quit the FIELD SET MODE and return to the normal display.

When the indoor unit is being operating by outside control (central remote controller, etc.), it sometimes does not respond to ON/OFF and temperature setting commands from this remote controller. Check what setting the customer wants and make the multiple setting as shown below.

Remote	controller	Indoor unit			
Multiple setting	Remote control- ler display	To control other air conditions and units	For other than on left		
A: Standard	All items dis- played.	Commands other than ON/OFF and temperature setting accepted. (1 LONG BEEP or 3 SHORT BEEPS emitted)			
b: Multi System	Operations remain displayed shortly after execution	All commands ac (2 SHORT BEEP			

4-8. Stick the Unit No. label on the receiver and the back of the wireless remote controller.



Set the Unit No. of the receiver and the wireless remote controller to be equal. If the settings differ, the signal from the remote controller cannot be transmitted.

5. FIELD SETTING

If optional accessories are mounted on the indoor unit, the indoor unit setting may have to be changed. Refer to the instruction manual (optional hand book) for each optional accessory.



Procedure

- When in the normal mode, press the " 逐/TEST" button for at least 4 seconds, and the FIELD SET MODE is entered.
- (2) Select the desired MODE NO. with the " \fbox{MODE} " button.
- (3) Push the " \triangle_{UP} " button and select the FIRST CODE NO..
- (4) Push the " \sum_{DOWN} " button and select the SECOND CODE NO..
- (5) Push the" <u>RESERVE</u> "button and the present settings are set.
- (6) Push the " <u>INFEST</u> " button to quit the FIELD SET MODE and return to the normal display.
- (Example) If the time to clean air filter is set to "Filter Contamination-Heavy", set Mode No. to "10", FIRST CODE NO. to "0", and SECOND CODE NO. to "02".

MODE NO.	FIRST CODE NO.	DESCRIPTION OF SETTING			
10	0	Filter Contamination-Heavy/Light (Setting for spacing time of display time to clean air filter) (Setting for	Long-life type		
		when filter contamination is heavy, and spacing time of display time to clean air filter is to be halved)	Standard type		
	3	Spacing time of display time to clean air filter count (Setting for when the filter sign is not to be displayed			
12 (VRV	1	ON/OFF input from outside (Set to enable starting/ stopping from remote.)			
system)	2	Thermostat differential changeover (Set when usin remote controller thermostat sensor.)			

MODE	FIRST	SECOND CODE NO.				
NO.			01	02		03
	0	Light	Approx. 2,500 hours	Heavy	Approx. 1,250 hours	_
10			Approx. 200 hours		Approx. 100 hours	
	3		Display	Do	not display	_
12	1	Forced OFF input		ON/OFF		—
(VRV system)	2 2°F	1°F		—		

The SECOND CODE NO. is factory set to "01". Do not use any settings not listed in the table. For group control with a wireless remote controller, initial settings for all the indoor units of the group are equal. (For group control, refer to the installation manual attached to the indoor unit for group control.)

6. TEST OPERATION

- Perform test operation according to the instructions in the installation manual attached to the indoor unit.
- After refrigerant piping, drain piping, and electric wiring, operate according to the table to protect the unit.

- 🕂 CAUTION -

- 1. Refer to a malfunction code in the installation manual attached to the outdoor unit if it does not operate.
- 2. Refer to the installation manual attached to the outdoor unit for individual operation system types.

Order	Operation
(1)	Open gas side stop valve.
(2)	Open liquid side stop valve.
(3)	Electrify crank case heater for 6 hours.
(4)	Set to cooling with the remote controller and push " ON/OFF " button to start operation.
(5)	Push" 😹/TEST] "button twice and operate in TEST OPERA- TION MODE for 3 minutes.
(6)	Push" r_{t} Bwing "button and confirm its operation.
(7)	Push" 逶/TEST] "button and operate normally.
(8)	Confirm its function according to the operation manual.

12.4 Outdoor Unit

Contents

Safety Considerations	1
Accessories	3
Precautions for Selecting a Location	3
Precautions on Installation	4
Outdoor Unit Installation Diagram	4
Installation Space Requirements	5
Outdoor Unit Installation	5
1. Installing the outdoor unit	5
2. Drain work	
3. Flaring the pipe end	6

4. Refrigerant piping	6
5. Pressure test and evacuating system	7
6. Refilling refrigerant	8
7. Refrigerant piping work	8
Wiring	9
	11
(cooling at low outdoor temperature)	
Facility Setting (cooling at low outdoor temperature) Pump Down Operation Trial Operation and Testing	11

Safety Considerations

Read these **Safety Considerations for Installation** carefully before installing an air conditioner or heat pump. After completing the installation, make sure that the unit operates properly during the startup operation.

Instruct the user on how to operate and maintain the unit. Inform users that they should store this installation manual with the operation manual for future reference.

Always use a licensed installer or contractor to install this product. Improper installation can result in water or refrigerant leakage, electric shock, fire, or explosion.

Meanings of **DANGER**, **WARNING**, **CAUTION**, and **NOTE** Symbols:

A DANGER ······	Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.
MARNING	Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.
	Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices.
<u>∧</u> NOTE	Indicates situations that may result in equipment or property-damage accidents only.

ADANGER -

- Refrigerant gas is heavier than air and replaces oxygen.
 A massive leak can lead to oxygen depletion, especially in basements, and an asphyxiation hazard could occur leading to serious injury or death.
- Do not ground units to water pipes, gas pipes, telephone wires, or lightning rods as incomplete grounding can cause a severe shock hazard resulting in severe injury or death.
 Additionally, grounding to gas pipes could cause a gas leak and potential explosion causing severe injury or death.

1

- If refrigerant gas leaks during installation, ventilate the area immediately. Refrigerant gas may produce toxic gas if it comes into contact with fire. Exposure to this gas could cause severe injury or death.
- After completing the installation work, check that the refrigerant gas does not leak throughout the system.
- Do not install unit in an area where flammable materials are present due to risk of explosions that can cause serious injury or death.
- Safely dispose all packing and transportation materials in accordance with federal/state/local laws or ordinances. Packing materials such as nails and other metal or wood parts, including plastic packing materials used for transportation may cause injuries or death by suffocation.

🕂 WARNING -

- Only qualified personnel must carry out the installation work. Installation must be done in accordance with this installation manual. Improper installation may result in water leakage, electric shock, or fire.
- When installing the unit in a small room, take measures to keep the refrigerant concentration from exceeding allowable safety limits. Excessive refrigerant leaks, in the event of an accident in a closed ambient space, can lead to oxygen deficiency.
- Use only specified accessories and parts for installation work. Failure to use specified parts may result in water leakage, electric shock, fire, or the unit falling.
- Install the air conditioner or heat pump on a foundation strong enough that it can withstand the weight of the unit. A foundation of insufficient strength may result in the unit falling and causing injuries.
- Take into account strong winds, typhoons, or earthquakes when installing. Improper installation may result in the unit falling and causing accidents.

- Make sure that a separate power supply circuit is provided for this unit and that all electrical work is carried out by qualified personnel according to local, state, and national regulations. An insufficient power supply capacity or improper electrical construction may lead to electric shock or fire.
- Make sure that all wiring is secured, that specified wires are used, and that no external forces act on the terminal connections or wires. Improper connections or installation may result in fire.
- When wiring, position the wires so that the electrical wiring box cover can be securely fastened. Improper positioning of the electrical wiring box cover may result in electric shock, fire, or the terminals overheating.
- · Before touching electrical parts, turn off the unit.
- The circuit must be protected with safety devices in accordance with local and national codes, i.e. a circuit breaker.
- Securely fasten the outdoor unit terminal cover (panel). If the terminal cover/panel is not installed properly, dust or water may enter the outdoor unit causing fire or electric shock.
- When installing or relocating the system, keep the refrigerant circuit free from substances other than the specified refrigerant (R410A) such as air. Any presence of air or other foreign substance in the refrigerant circuit can cause an abnormal pressure rise or rupture, resulting in injury.
- Do not change the setting of the protection devices. If the pressure switch, thermal switch, or other protection device is shorted and operated forcibly, or parts other than those specified by Daikin are used, fire or explosion may occur.

- Do not touch the switch with wet fingers. Touching a switch with wet fingers can cause electric shock.
- Do not allow children to play on or around the unit to prevent injury.
- The heat exchanger fins are sharp enough to cut. To avoid injury wear gloves or cover the fins while working around them.
- Do not touch the refrigerant pipes during and immediately after operation as the refrigerant pipes may be hot or cold, depending on the condition of the refrigerant flowing through the refrigerant piping, compressor, and other refrigerant cycle parts. Your hands may suffer burns or frostbite if you touch the refrigerant pipes. To avoid injury, give the pipes time to return to normal temperature or, if you must touch them, be sure to wear proper gloves.
- Install drain piping to proper drainage. Improper drain piping may result in water leakage and property damage.
- Insulate piping to prevent condensation.
- Be careful when transporting the product.
- Do not turn off the power immediately after stopping operation. Always wait for at least 5 minutes before turning off the power. Otherwise, water leakage may occur.
- Do not use a charging cylinder. Using a charging cylinder may cause the refrigerant to deteriorate.
- Refrigerant R410A in the system must be kept clean, dry, and tight.
- (a) Clean and Dry -- Foreign materials (including mineral oils such as SUNISO oil or moisture) should be prevented from getting into the system.

- (b) Tight -- R410A does not contain any chlorine, does not destroy the ozone layer, and does not reduce the earth's protection again harmful ultraviolet radiation. R410A can contribute to the greenhouse effect if it is released. Therefore take proper measures to check for the tightness of the refrigerant piping installation. Read the chapter *Refrigerant Piping Work* and follow the procedures.
- Since R410A is a blend, the required additional refrigerant must be charged in its liquid state. If the refrigerant is charged in a state of gas, its composition can change and the system will not work properly.
- The indoor unit is for R410A. See the catalog for indoor models that can be connected. Normal operation is not possible when connected to other units.
- Remote controller (wireless kit) transmitting distance can be shorter than expected in rooms with electronic fluorescent lamps (inverter or rapid start types). Install the indoor unit far away from fluorescent lamps as much as possible.
- Indoor units are for indoor installation only. Outdoor units can be installed either outdoors or indoors. This unit is for indoor use.
- Do not install the air conditioner or heat pump in the following locations:
- (a) Where a mineral oil mist or oil spray or vapor is produced, for example, in a kitchen. Plastic parts may deteriorate and fall off or result in water leakage.
- (b) Where corrosive gas, such as sulfurous acid gas, is produced. Corroding copper pipes or soldered parts may result in refrigerant leakage.
- (c) Near machinery emitting electromagnetic waves. Electromagnetic waves may disturb the operation of the control system and cause the unit to malfunction.
- (d) Where flammable gas may leak, where there is carbon fiber, or ignitable dust suspension in the air, or where volatile flammables such as thinner or gasoline are handled. Operating the unit in such conditions can cause a fire.
- Take adequate measures to prevent the outdoor unit from being used as a shelter by small animals. Small animals making contact with electrical parts can cause malfunctions, smoke, or fire. Instruct the user to keep the area around the unit clean.

- The outdoor unit should be positioned where the unit and power supply wires (breaker panel to outdoor unit) are at least 10ft (3m) away from any televisions or radios. (The unit may cause interference with the picture or sound.) Depending on the radio waves, a distance of 10ft (3m) may not be sufficient to eliminate the noise.
- Dismantling the unit, treatment of the refrigerant, oil and additional parts must be done in accordance with the relevant local, state, and national regulations.
- Do not use the following tools that are used with conventional refrigerants: gauge manifold, charge hose, gas leak detector, reverse flow check valve, refrigerant charge base, vacuum gauge, or refrigerant recovery equipment.
- If the conventional refrigerant and refrigerator oil are mixed in R410A, the refrigerant may deteriorate.
- This air conditioner or heat pump is an appliance that should not be accessible to the general public.
- As design pressure is 604 psi, the wall thickness of fieldinstalled pipes should be selected in accordance with the relevant local, state, and national regulations.

Accessories

(A) Installation manual		1	B Drain socket This is at the bettern of the peolessies		1
			This is at the bottom of the packaging.		
© Drain cap (1)	09/12 class	4	D Drain cap (2)	09/12 class	2
	15/18/24 class	6	Ĩ	15/18/24 class	3
E Warranty		1			

Precautions for Selecting a Location

- 1) Choose a place solid enough to bear the weight and vibration of the unit, where the operating sound will not be amplified.
- 2) Choose a location where the hot air discharged from the unit or the operating sound will not cause a nuisance to the neighbors of the user.
- 3) Avoid locations, such as near bedrooms, where the operating sound may cause disturbance.
- 4) There must be sufficient space to carry the unit into and out of the site.
- 5) There must be sufficient space for air passage and no obstructions around the air inlet and the air outlet.
- 6) The site must not be prone to flammable gas leaks in the surrounding area.
- 7) In coastal areas or other places with a salty atmosphere or one containing sulfate gas, corrosion may shorten the life of the air conditioner.
- Since water will flow from the drain of the outdoor unit, do not place under the unit anything which must be kept away from moisture.

NOTE

Cannot be installed suspended from a ceiling or stacked.

When operating the air conditioner in a low outdoor ambient temperature, be sure to follow the instructions described below.

- To prevent exposure to wind, install the outdoor unit with its suction side facing the wall.
- Never install the outdoor unit at a site where the suction side may be exposed directly to wind.
- To prevent exposure to wind, it is recommended to install a baffle plate on the air discharge side of the outdoor unit.
- In heavy snow areas, select an installation site where the snow will not affect the unit.

Construct a large canopy.
Construct a pedestal.



Install the unit high enough off the ground to prevent burying in snow.

Precautions on Installation

- Check the strength and level of the installation surface so that the unit does not cause any operating vibrations or noise after installation.
- Fix the unit in place securely using foundation bolts, as in the figure. (Prepare 4 sets of 5/16 inch (M8) or 3/8 inch (M10) foundation bolts, nuts and washers; all separately available.)
- It is best to screw in the foundation bolts until their ends are 3/4 inch (20mm) from the foundation surface.



Outdoor Unit Installation Diagram



Installation Space Requirements

- Position the unit on a horizontal surface. Any tilt in the unit should be 3° or less to the horizontal.
- Where a wall or other obstacle is in the path of the outdoor unit's intake or exhaust airflow, follow the installation space requirements below.
- For any of the below installation patterns, the wall height on the outlet side should be 47-1/4 inch (1200mm) or less.



Outdoor Unit Installation

1. Installing the outdoor unit

When installing the outdoor unit, refer to "Precautions for Selecting a Location" and the "Outdoor Unit Installation Diagram".
 If drain work is necessary, follow the procedures on the next page.

2. Drain work

- If the drain port is covered by a mounting base or floor surface, place additional foot bases of at least 1-1/4 inch (30mm) in height under the outdoor unit's feet.
- In cold areas, do not use a drain socket, drain caps (1,2) and a drain hose with the outdoor unit. (Drain water may freeze, impairing heating performance.)
- 1) Attach \bigcirc drain cap (1) and \bigcirc drain cap (2).
- 2) Attach (B) drain socket.
 - When attaching (B) drain socket to the bottom frame, make sure to connect the drain hose to the drain socket first.



0.039-0.059 inch

(1.0-1.5mm)

0.059-0.079 inch

(1.5-2.0mm)

15/18/24 class

Drain cap (2)

C Drain cap (1)

3. Flaring the pipe end

- 1) Cut the pipe end with a pipe cutter.
- Remove burrs with the cut surface facing downward, so that the filings do not enter the pipe.
- 3) Put the flare nut on the pipe.
- 4) Flare the pipe.
- 5) Check that the flaring has been done correctly.

- Do not apply mineral oil to the flare.
- · Prevent mineral oil from getting into the system as this would reduce the service life of the units.
- Never use piping which has been used for previous installations. Only use parts which are delivered with this unit.

X

'n

0-0.020 inch

(0-0.5mm)

09/12 class

Drain cap (2)

CDrain cap (1)

- Never install a dryer to this R410A unit in order to guarantee its service life.
- The drying material may dissolve and damage the system.
- Incomplete flaring may result in refrigerant gas leakage.

4. Refrigerant piping

- Use the flare nut fixed to the main unit. (This is to prevent the flare nut from cracking as a result of deterioration over time.)
- To prevent gas leakage, apply refrigeration oil only to the inner surface of the flare. (Use refrigeration oil for R410A.)
- Use a torque wrench when tightening the flare nuts to prevent damage to the flare nuts and gas leakage.
- Align the centers of both flares and tighten the flare nuts 3 or 4 turns by hand, then tighten them fully with a spanner and a torque wrench.

		Flare	e nut tigh	tening to	rque		
		Gas si	de				Liquid side
3/8 inch (9.5m	n)	1/2 inch (12	2.7mm)	5/8 incl	n (15.9mm)	1/	4 inch (6.4mm)
24-1/8-29-1/2lbf • ft 36-1/2-44-1			/2lbf • ft	45-5/8-	55-5/8lbf • ft	10-	1/2-12-3/4lbf • ft
(32.7-39.9N • m) (49.5-60		(49.5-60.3	N • m) (61.8-75.4N • m)		(14.2-17.2 N • m)		
Width across flats	11/1	6 inch (17mm)	3/4 inch	(19mm)	7/8 inch (22m	ım)	1-1/16 inch (27mm)
Valve cap tightening torque				5-3/8lbf • ft).9N • m)	t 16–20-1/4lbf • (21.6-27.4N • n		35-3/8-44-1/8lbf • ft (48-59.8N • m)
Service port cap tightening torque							
	8−10-7/8lbf • ft (10.8-14.7N • m)						

Apply oil



Outdoor Unit Installation

5. Pressure test and evacuating system

- Make sure that air or any matter other than refrigerant (R410A) does not get into the refrigeration cycle.
- If refrigerant gas leaks should occur, ventilate the room as soon and as much as possible.
- R410A, as well as other refrigerants, should always be recovered and never be released directly into the environment.
- Use a vacuum pump for R410A exclusively. Using the same vacuum pump for different refrigerants may damage the vacuum pump or the unit.
- When piping work is complete, it is necessary to perform a pressure test and evacuate system with a vacuum pump.
- If using additional refrigerant, purge the air from the refrigerant pipes and indoor unit using a vacuum pump, then charge additional refrigerant.
- Use a hexagonal wrench (3/16 inch (4mm)) to operate the stop valve rod.
- All refrigerant pipe joints should be tightened with a torque wrench to the specified tightening torque.



- 1) Pressurize the liquid pipe and gas pipe from the service ports of each stop valve to 550psi (3.8MPa) (do not pressurize more than 550psi (3.8MPa)) for 1 hour minimum, 24 hours recommended. If there is a pressure drop, check for leaks, make repairs and perform the pressure test again.
- 2) Connect the gauge manifold's charging hose to the gas stop valve's service port.
- Fully open the gauge manifold's low-pressure valve (Lo) and completely close its high-pressure valve (Hi). (High-pressure valve will require no further operation.)
- 4) Evacuate system using vacuum pump to below 500 microns for 1 hour minimum.
- 5) Close the gauge manifold's low-pressure valve (Lo) and stop vacuum pump.
- (Maintain this condition for 4-5 minutes to make sure that the compound pressure gauge pointer does not swing back.)*1 6) Remove the valve caps from the liquid stop valve and gas stop valve.
- 7) Turn the liquid stop valve's rod 90° counter-clockwise with a hexagonal wrench to open the valve.
 Close it after 5 seconds, and check for gas leakage.
 Using soapy water, check for gas leakage from the indoor unit's flare and outdoor unit's flare and valve rods.
 After the check is complete, wipe all soapy water off.
- Disconnect the charging hose from the gas stop valve's service port, then fully open the liquid and gas stop valves. (Do not attempt to turn the valve rod further than it can go.)
- 9) Tighten the valve caps and service port caps for the liquid and gas stop valves with a torque wrench to the specified torques.
 - Refer to "4. Refrigerant piping" on page 6 for details.
- *1 If the compound pressure gauge pointer swings back, the refrigerant may have water content or there may be a loose pipe joint.
 - Check all pipe joints and retighten nuts as needed, then repeat steps 3) through 5).

6. Refilling refrigerant

Check the type of refrigerant to be used on the machine nameplate. Precautions when adding R410A

Fill from the liquid pipe in liquid form.

R410A is a mixed refrigerant, so adding it in gas form may cause the refrigerant composition to change, preventing normal operation.

1) Before filling, check whether the cylinder has a siphon attached or not. (It should have something like "liquid filling siphon attached" displayed on it.)

Filling a cylinder with an attached siphon

Stand the cylinder upright when filling.



Turn the cylinder upside-down when filling.

Be sure to place a ca

If no flare cap is available, cover the flare mouth with tape to kee dirt and water o

- There is a siphon pipe inside, so the cylinder need not be upside-down to fill with liquid.
- · Be sure to use the R410A tools to ensure pressure and to prevent foreign objects entering.

7. Refrigerant piping work

7-1. Cautions on pipe handling

- · Protect the open end of the pipe from dust and moisture.
- · All pipe bends should be as gentle as possible. Use a pipe bender for bending.

7-2. Selection of copper and heat insulation materials

When using commercial copper pipes and fittings, observe the following:

- Insulation material: Polyethylene foam Heat transfer rate: 0.041 to 0.052W/mK (0.024 to 0.030Btu/fth°F (0.035 to 0.045kcal/mh°C))
 - Be sure to use insulation that is designed for use with HVAC Systems.
- · ACR Copper only.
- · Be sure to insulate both the gas and liquid piping and observe the insulation dimensions as below.

	Piping size	Minimum bend radius	Piping thickness	Thermal insulation size	Thermal insulation thickness	
	O.D. 3/8 inch (9.5mm)	1-3/16 inch (30mm) or more	0.031 inch (0.8mm)	I.D. 15/32-19/32 inch (12-15mm)	13/32 inch	
Gas side	O.D. 1/2 inch (12.7mm)	1-9/16 inch (40mm) or more	(C1220T-O)	I.D. 9/16-5/8 inch (14-16mm)		
	O.D. 5/8 inch (15.9mm)	1-15/16 inch (50mm) or more	0.039 inch (1.0mm) (C1220T-O)	I.D. 5/8-13/16 inch (16-20mm)	(10mm) Min.	
Liquid side	O.D. 1/4 inch (6.4mm)	1-3/16 inch (30mm) or more	0.031 inch (0.8mm) (C1220T-O)	I.D. 5/16-13/32 inch (8-10mm)		

· Use separate thermal insulation pipes for gas and liquid refrigerant pipes.





Wiring

- Do not use tapped wires, extension cords, or starburst connections, as they may cause overheating, electric shock, or fire.
- Do not use locally purchased electrical parts inside the product. (Do not branch the power for the drain pump, etc., from the terminal block.) Doing so may cause electric shock or fire.
- The circuit must be protected with safety devices in accordance with local and national codes, i.e. a circuit breaker.
- Use an all-pole disconnection type circuit breaker with at least 1/8 inch (3mm) between the contact point gaps.
- When carrying out wiring, take care not to pull at the conduit.
- Do not connect the power wire to the indoor unit. Doing so may cause electric shock or fire.
- Do not turn on the circuit breaker until all work is completed.
 - 1) Strip the insulation from the wire (3/4 inch (20mm)).
 - 2) Connect the inter-unit wires between the indoor and outdoor units so that the terminal numbers match. Tighten the terminal screws securely. It is recommended that a slot-head screwdriver be used to tighten the screws. The screws are packed with the terminal block.



09/12 class

[Method of mounting conduit]

- A protection plate is fixed for protection from the high-voltage section.
- 1) Dismount the stop valve cover by removing the screw.
- 2) Dismount the protection plate by removing the 2 screws.
- 3) Dismount the conduit mounting cover by removing the 2 screws.
- 4) Pass wires through the conduit and secure them with a lock nut.
- 5) After completing the work, reattach the stop valve cover, the conduit mounting cover, and the protection plate to its original position.



15/18/24 class

[Method of mounting conduit]

1) Dismount the service lid by removing the 2 screws.

2) Pass wires through the conduit and secure them with a lock nut.

3) After completing the work, reattach the service lid to its original position.



Precautions to be taken for power supply wiring

crimp-style

terminal



X Wrong

Arrow view A

• When connecting the inter-unit wires to the terminal block using a single core wire, be sure to curl the end of the lead. Improper work may cause heat and fires.

O Good



Facility Setting (cooling at low outdoor temperature)

This function is limited only for facilities (the target of air conditioning is equipment (such as computer)). Never use it in a residence or office (the space where there is a human).

- Cutting jumper 6 (J6) on the circuit board will extend the operation range to 14°F (-10°C). Installing an air direction adjustment grille (sold separately) will further extend the operation range to -4°F (-20°C). In these cases, the unit will stop operating if the outdoor temperature falls below -4°F (-20°C), restarting once the temperature rises above this level.
 - 1) Remove the top plate of the outdoor unit. (09/12 class: 3 screws, 15/18/24 class: 6 screws)
- 2) Remove the front plate. (09/12 class: 4 screws, 15/18/24 class: 8 screws)
- 3) Cut the jumper (J6) of the PCB inside.

CAUTION -

- If the outdoor unit is installed where the heat exchanger of the unit is exposed to direct wind, provide a windbreak wall.
- Intermittent noises may be produced by the indoor unit due to the outdoor fan turning on and off when using facility settings.
- Do not place humidifiers or other items which might raise the humidity in rooms where facility settings are being used.
 A humidifier might cause dew jumping from the indoor unit outlet vent.
- Cutting jumper 6 (J6) sets the indoor fan tap to the highest position. Notify the user about this.

Pump Down Operation

In order to protect the environment, be sure to pump down when relocating or disposing of the unit.

- 1) Remove the valve cap from the liquid stop valve and gas stop valve.
- 2) Carry out forced cooling operation.
- 3) After 5 to 10 minutes, close the liquid stop valve with a hexagonal wrench.
- 4) After 2 to 3 minutes, close the gas stop valve and stop forced cooling operation.
- 5) Attach the valve cap once procedures are complete.



Forced cooling operation

- ■Using the indoor unit's remote controller
- [For wired remote controller]
- 1) Set to COOL operation using the remote controller.
- 2) Press and hold the Cancel button for 4 seconds or longer. Service settings menu is displayed.
- Select Test Operation in the service settings menu, and press the Menu/OK button. Basic screen returns and "Test Operation" is displayed at the bottom.
- Press the On/Off button within 10 seconds, and the forced cooling operation starts.
 - Forced cooling operation will stop automatically after about 15 minutes. To stop the operation, press the On/Off button.



[For wireless remote controller] 1) Press ≝ and select the COOL operation.
2) Press 🎽 Twice. "Test" is displayed.
3) Press within 10 seconds, and the forced cooling operation starts.
 Forced cooling operation will stop automatically after about 15 minutes.
To stop the operation, press



Trial Operation and Testing

1. Trial operation and testing

Refer to the installation manual for the indoor unit.

2. Test items

Test items	Symptom	Check
Indoor and outdoor units are installed properly on solid bases.	Fall, vibration, noise	
No refrigerant gas leaks.	Incomplete cooling/heating function	
Refrigerant gas and liquid pipes and indoor drain hose extension are thermally insulated.	Water leakage	
Draining line is properly installed.	Water leakage	
System is properly grounded.	Electrical leakage	
The specified wires are used for inter-unit wiring.	No operation or burn damage	
Indoor or outdoor unit's air inlet or air outlet are unobstructed.	Incomplete cooling/heating function	
Stop valves are opened.	Incomplete cooling/heating function	
Check that the connector of the lead wires of the decoration panel is connected securely.	Louvers do not move	
Indoor unit properly receives wireless remote control commands.	No operation	

13. Operation Manual

Contents

Read Before Operation	_
Safety Considerations1	
Names of Parts4	
Multi Connection	
Note for Multi System5	
Care	
Care and Cleaning7	-
When the Need Arises	_
Troubleshooting9	-

Safety Considerations

Read these **Safety Considerations for Operations** carefully before operating an air conditioner or heat pump. Make sure that the unit operates properly during the startup operation. Instruct the user on how to operate and maintain the unit.

Inform users that they should store this operation manual with the installation manual for future reference.

Meanings of $\ensuremath{\mathsf{DANGER}}$, $\ensuremath{\mathsf{WARNING}}$, $\ensuremath{\mathsf{CAUTION}}$, and $\ensuremath{\mathsf{NOTE}}$. Symbols:

ADANGER Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.
WARNING Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.
CAUTION Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices.
NOTE Indicates situations that may result in equipment or property-damage accidents only.

— \land danger –

- Do not install the unit in an area where flammable materials are present due to risk of explosion resulting in serious injury or death.
- Any abnormalities in the operation of the air conditioner or heat pump, such as smoke or fire, could result in severe injury or death. Turn off the power and contact your dealer immediately.
- Refrigerant gas may produce toxic gas if it comes into contact with fire, such as from a fan heater, stove, or cooking device. Exposure to this gas could cause severe injury or death.
- For refrigerant leakage, consult your dealer. Refrigerant gas is heavier than air and replaces oxygen. A massive leak could lead to oxygen depletion, especially in basements, and an asphyxiation hazard could occur leading to serious injury or death.
- If equipment utilizing a burner is used in the same room as the air conditioner or heat pump, there is the danger of oxygen deficiency which could lead to an asphyxiation hazard resulting in serious injury or death. Be sure to ventilate the room sufficiently to avoid this hazard.
- Safely dispose of the packing materials. Packing materials, such as nails and other metal or wooden parts, may cause stabs or other injuries.

 Tear apart and throw away plastic packaging bags so that children will not play with them. Children playing with plastic bags face the danger of death by suffocation.

– \land warning -

- Contact your dealer for repair and maintenance. Improper repair and maintenance may result in water leakage, electric shock, and fire. Only use accessories made by Daikin that are specifically designed for use with the equipment and have them installed by a professional.
- Contact your dealer to move and reinstall the air conditioner or heat pump. Incomplete installation may result in water leakage, electric shock, and fire.
- Never let the indoor unit or the remote controller get wet. Water can cause an electric shock or a fire.
- Never use flammable spray such as hair spray, lacquer, or paint near the unit. Flammable spray may cause a fire.
- When a fuse blows out, never replace it with one of incorrect ampere ratings or different wires. Always replace any blown fuse with a fuse of the same specification.
- Never inspect or service the unit by yourself. Contact a qualified service person to perform this work.
- Turn off all electrical power before doing any maintenance to avoid the risk of serious electric shock; never sprinkle or spill water or liquids on the unit.
- Do not touch the switch with wet fingers. Touching a switch with wet fingers can cause electric shock.
- Do not allow children to play on or around the unit to prevent injury.
- The heat exchanger fins are sharp enough to cut. To avoid injury wear gloves or cover the fins while working around them.
- Do not put a finger or other objects into the air inlet or air outlet. The fan is rotating at high speed and will cause injury.
- Check the unit foundation for damage on a continuous basis, especially if it has been in use for a long time. If left in a damaged condition the unit may fall and cause injury.
- Never touch the internal parts of the controller. To check and adjust internal parts, contact your dealer.
- Be sure to establish a ground.
 Do not ground the unit to a utility pipe, arrester, or telephone ground. Incomplete grounding may cause electrical shock, or fire. A high surge current from lightning or other sources may cause damage to the air conditioner.
- Be sure to install a ground fault circuit interrupter. Failure to install a ground fault circuit interrupter may result in electric shock or fire.

- 🗥 CAUTION -

- Do not use the air conditioner or heat pump for any other purposes other than comfort cooling or heating.
 Do not use the unit for cooling precision instruments, food, plants, animals or works of art.
- Do not place items under the indoor unit as they may be damaged by condensates that may form if the humidity is above 80% or if the drain outlet gets blocked.
- Before cleaning, stop the operation of the unit by turning the power off or by pulling the supply cord out from its receptacle. Otherwise, an electric shock and injury may result.
- Do not wash the air conditioner or heat pump with excessive water. An electric shock or fire may result.
- Avoid placing the controller in a spot splashed with water. Water entering the controller may cause an electric shock or damage the internal electronic parts.
- Do not operate the air conditioner or heat pump when using a room-fumigation type of insecticide.
 Failure to observe this could cause the chemicals to be deposited in the unit and can endanger the health of those who are hypersensitive to chemicals.
- Do not turn off the power immediately after stopping operation. Always wait for at least 5 minutes before turning off the power. Otherwise, water leakage may occur.
- The appliance is not intended for use by young children or infirm persons without supervision.
- The remote controller should be kept away from children so they cannot play with it.
- Consult with the installation contractor for cleaning.
- Incorrect cleaning of the inside of the air conditioner or heat pump could make the plastics parts break and cause water leakage or electric shock.
- Do not touch the air inlet or aluminum fin of the air conditioner or heat pump as they can cut and cause injury.
- Do not place objects in direct proximity of the outdoor unit. Do not let leaves and other debris accumulate around the unit. Leaves are a hotbed for small animals which can enter the unit. Once inside the unit, animals can cause the unit to malfunction, and cause smoke or fire when they make contact with electrical parts.
- For care and cleaning, call service personnel.

Safety Considerations

— \land NOTE ·

- Never press the button of the remote controller with a hard, pointed object. The remote controller may be damaged.
- Never pull or twist the electric wire of the remote controller. It may cause the unit to malfunction.
- Do not place appliances that produce open flames in places that are exposed to the airflow of the unit or under the indoor unit. It may cause incomplete combustion or deformation of the unit due to the heat.
- Do not expose the controller to direct sunlight. The LCD display can become discolored and may fail to display the data.
- Do not wipe the controller operation panel with benzene, thinner, chemical dust cloth, etc. The panel may get discolored or the coating can peel off. If it is heavily dirty, soak a cloth in a water-diluted neutral detergent, squeeze it well and wipe the panel clean. Then wipe it with another dry cloth.
- Dismantling of the unit, disposal of the refrigerant, oil, and additional parts, should be done in accordance with the relevant local, state, and national regulations.
- Operate the air conditioner or heat pump in a sufficiently ventilated area and not surrounded by obstacles. Do not use the air conditioner or heat pump in the following places.
 - a. Places with a mist of mineral oil, such as cutting oil.
 - b. Locations such as coastal areas where there is a lot of salt in the air.
 - c. Locations such as hot springs where there is a lot of sulfur in the air.
 - d. Locations such as factories where the power voltage varies a lot.
 - e. In cars, boats, and other vehicles.
 - f. Locations such as kitchens where oil may splatter or where there is steam in the air.
 - g. Locations where equipment produces electromagnetic waves.
 - h. Places with an acid or alkaline mist.
 - i. Places where fallen leaves can accumulate or where weeds can grow.
- Take snow protection measures. Contact your dealer for the details of snow protection measures, such as the use of a snow protection hood.

This is an appliance that is not accessible to the general public.

Precautions relating to area surrounding the indoor and outdoor units

- Be sure to follow the instructions below.
 - The indoor unit is at least 3.3ft (1m) away from any television or radio set (unit may cause interference with the picture or sound).
 - Refrain from using the units in areas prone to high levels of oily smoke, such as a kitchen. Water leakage may result.

Do not attempt to do electrical work or grounding work unless you are licensed to do so. Consult with your dealer for electrical work and grounding work.

- Pay attention to operating sound. Be sure to use the following places:
 - Places that can sufficiently withstand the weight of the air conditioner or heat pump yet can suppress the operating sound and vibration.
 - Places where warm air from the air outlet of the outdoor unit or the operating sound of the outdoor unit does not annoy neighbors.
- Make sure that there are no obstacles close to the outdoor unit. Obstacles close to the outdoor unit may drop the performance of the outdoor unit or increase the operating sound of the outdoor unit.
- Consult your dealer if the air conditioner or heat pump in operation generates unusual noise.
- Make sure that the drainpipe is installed properly to drain water. If no water is discharged from the drainpipe while the air conditioner or heat pump is in the cooling mode, the drainpipe may be clogged with dust or dirt and water leakage from the indoor unit may occur. Stop operating the air conditioner or heat pump and contact your dealer.

FFP001-U
Names of Parts

Indoor Unit



а	Drain discharge device (built-in)	g	Refrigerant piping
b	Drain pan inspection window	h	Drain piping
Remote controller (Wired type)		i	Model name (Model name plate)
c	The appearance of the remote controller may differ between different models.	j	Air filter (Sold separately)
		k	Suction filter chamber (Sold separately)
d	Wiring between the indoor and outdoor units	Т	Suction duct (Field supply)
е	Air outlet grille (Field supply)		Suction grille (Field supply)
f	Exhaust duct (Field supply)		·

Remote controller





• For details on remote controller operation, refer to the operation manual included with the remote controller.

Outdoor Unit

• The appearance of the outdoor unit may differ between different models.



Care and Cleaning

$^{\prime}$ CAUTION

- Only a qualified service person is allowed to perform maintenance.
- Before cleaning, be sure to stop the operation and turn off the circuit breaker.
- Do not touch the aluminium fins of the indoor unit. If you touch those parts, this may cause an injury.

How to clean the air filter

When the remote controller indicates "Time to clean filter", clean the air filter.

It indicates after running for a certain time.

NOTE

- For cleaning, do not use any of the following:
- · Volatile liquid such as benzene, gasoline and thinner
- Polishing compounds
- Rough materials such as a scrubbing brush
- You may change the time of indication "Time to clean filter".
- If the indoor unit is used in a space where the air is too contaminated, ask your local dealer for solution.

Contamir	nation	Time until indication is displayed
Normal		2500 hours (equivalent to one year)
More con	taminated	1250 hours (equivalent to a half year)

- If it becomes difficult to remove contamination from the air filter, replace the air filter.
- (Air filter for replacement is a separately sold accessory.)
- . Do not remove the air filter except when cleaning. Unnecessary handling may damage the filter.
- (This product is not provided with an air filter as a standard accessory.)
- Do not attach objects other than the genuine air filter (e.g., kitchen paper) to the air inlet.
- Otherwise, the performance of the air conditioner will be degraded, and icing or water leakage may result.
- This product is a ceiling mounted duct type air conditioner.

Installing under roof

If the air filter (sold separately) is used, request a special contractor for the cleaning of the air filter.

Not installing under roof

Always use the long-life filter chamber (sold separately). Be sure to request your dealer for the installation of the long-life chamber. For the methods of mounting, dismounting, and cleaning the air filter, refer to the manual provided with the air filter.

- Be sure to use the separately sold filter chamber.
- Request your dealer for the installation of the filter chamber.
- Be sure to clean the air filter at the beginning of the cooling or heating season.
- (A decrease in the airflow volume of the air conditioner will result and the performance of the air conditioner will be degraded if the air filter is clogged with dust or dirt.)

Increase the frequency of cleaning if the unit is installed in a room where the air is extremely contaminated.

After completing cleaning and installing an air filter, turn off the indication of "Time to clean filter" on the remote controller. · Press the FILTER SIGN RESET button.

- The indication can be turned off while the unit is either operating or stopped.

■ How to clean air outlet, outside panels and remote controller

1. Clean with soft cloth.

2. When it is difficult to remove stains, use water or neutral detergent.

NOTE

```
Do not wash the suction grille with water of 122°F (50°C) or higher.
It may cause discoloration and deformation.
When drying the suction grille, do not heat it with fire. It may cause burning.
Do not use substances such as gasoline, benzene, thinner, polishing powder and liquid insecticide sold in the market.
It may cause discoloration and deformation.
```

Prior to a long period of non-use

1. Operate the FAN mode for several hours on a fine day to dry out the inside.

1) Press the "MODE" selector button and select "FAN" operation.

2) Press the "ON/OFF" button and start operation.

2. After operation stops, turn off the circuit breaker for the room air conditioner.

3. Clean the air filters and reattach them. **Drage 7**

4. To prevent battery leakage, take out the batteries from the remote controller. (Only for the wireless remote controller)

■ We recommend periodical maintenance

- In certain operating conditions, the inside of the air conditioner may get foul after several seasons of use, resulting in poor performance. It is recommended to have periodical maintenance by a specialist.
- For specialist maintenance, please contact the dealer where you bought the air conditioner.
- The maintenance cost must be borne by the user.

Troubleshooting

Before making an inquiry or a request for repair, please check the following. If the problem persists, consult your dealer.

Not a problem This case is not a proble	em. Check Please check again before requesting repairs.		
Case	Description / what to check		
 Operation does not start soon. When ON/OFF button was pressed soon after operation was stopped. When the mode was reselected. 	This is to protect the air conditioner. You should wait for about 3 minutes.		
Air does not come out.	 In HEAT operation The air conditioner is warming up. Wait for about 1 to 4 minutes. During defrosting operation, hot air does not flow out of the indoor unit. When the air conditioner operates immediately after the circuit breaker is turned on The air conditioner is preparing to operate. Wait for about 3 to 20 minutes. 		
The HEAT operation stops suddenly and a flowing sound is heard.	The system is taking away the frost on the outdoor unit. You should wait for about 4 to 12 minutes.		
The outdoor unit emits water or steam.	 In HEAT mode The frost on the outdoor unit melts into water or steam when the air conditioner is in defrost operation. In COOL or DRY mode Moisture in the air condenses into water on the cool surface of outdoor unit piping and drips. 		
Mist comes out of the indoor unit.	This happens when the air in the room is cooled into mist by the cold airflow during cooling operation.		
The indoor unit gives out odor.	 This happens when smells of the room, furniture, or cigarettes are absorbed into the unit and discharged with the airflow. (If this happens, we recommend you to have the indoor unit washed by a technician. Consult your dealer where you bought the air conditioner.) 		
The outdoor fan rotates while the air conditioner is not in operation.	 After operation is stopped: The outdoor fan continues rotating for another 1 minute for system protection. While the air conditioner is not in operation: When the outdoor temperature is very high, the outdoor fan starts rotating for system protection. 		
The operation stopped suddenly. (OPERATION lamp is on.)	For system protection, the air conditioner may stop operating on a sudden large voltage fluctuation. It automatically resumes operation in about 3 minutes.		
The air conditioner does not operate. (OPERATION lamp is off.)	 Hasn't the circuit breaker turned OFF or a fuse blown? Isn't it a power failure? Are batteries set in the remote controller? Is the timer setting correct? 		
Cooling (Heating) effect is poor.	 Are the air filters clean? Is there anything blocking the air inlet or the outlet of the indoor and the outdoor units? Is the temperature setting appropriate? Are the windows and doors closed? Are the airflow rate and the air direction set appropriately? 		
Operation stops suddenly. (OPERATION lamp flashes.)	 Are the air filters clean? Is there anything blocking the air inlet or the outlet of the indoor and the outdoor units? Clean the air filters or take all obstacles away and turn the circuit breaker OFF. Then turn it ON again and try operating the air conditioner with the remote controller. If the lamp still blinks, call your dealer where you bought the air conditioner. 		

Case	Description / what to check		
An abnormal functioning happens during operation.	• The air conditioner may malfunction with lightning or radio waves. Turn the breaker OFF, turn it ON again and try operating the air conditioner with the remote controller.		

Notes on the operating conditions

- If operation continues under any conditions other than those listed in the table,
- A safety device may activate to stop the operation.
- Dew may form on the indoor unit and drip from it when COOL or DRY operation is selected.

Mode Operating conditions	
COOL / DRY	Outdoor temperature: 50-115°F (10-46°C) Indoor temperature: 64-90°F (18-32°C) Indoor humidity: 80% max.
HEAT	Outdoor temperature: [RX]: 5-75°F (-15-24°C) [RXL]: -13-75°F (-25-24°C) Indoor temperature: 50-86°F (10-30°C)

Call your dealer immediately

When an abnormality (such as a burning smell) occurs, stop operation and turn off the circuit breaker.

- · Continued operation in an abnormal condition may result in problems, electric shock or fire.
- · Consult the dealer where you bought the air conditioner.

Do not attempt to repair or modify the air conditioner by yourself.

- · Incorrect work may result in electric shock or fire.
- Consult the dealer where you bought the air conditioner.

If one of the following symptoms takes place, call your dealer immediately.

- The power cord is abnormally hot or damaged.
- An abnormal sound is heard during operation.
- The circuit breaker cuts off the operation frequently.
- A switch or a button often fails to work properly.
- There is a burning smell.
- Water leaks from the indoor unit.

Turn off the circuit breaker and call your dealer.

After a power failure

• The air conditioner automatically resumes operation in about 3 minutes. You should just wait for a while.

Lightning

 If there is a risk lightning could strike in the neighborhood, stop operation and turn off the circuit breaker to protect the system.

Disposal requirements

• Dismantling of the unit, handling of the refrigerant, oil and other parts, should be done in accordance with the relevant local and national regulations.

13.1 With <BRC1E73> Wired Remote Controller

Safety Considerations

The original instructions are written in English. All other languages are translation of the original instructions.

Read these SAFETY CONSIDERATIONS carefully before operating the remote controller.

Train the customer to operate and maintain the remote controller.

Inform customers that they should store this Operations Manual with the Installation Manual for future reference.

Meanings of WARNING and CAUTION Symbols:

	Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.
	Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices.
≜ NOTE	Indicates situations that may result in equipment or property-damage accidents only.

• The following pictograms are used in this manual.



	WARNING			
\bigcirc	• Do not modify or repair the remote controller. Consult your Daikin dealer for any modification or for repairs.			
\bigcirc	• Do not relocate or reinstall the remote controller by yourself. Improper installation may result in electric shocks or fire. Consult your Daikin dealer to relocate or for any reinstallation.			
\oslash	• Do not use flammable materials (e.g., hairspray or insecticide) near the remote controller. Do not clean the product with organic solvents such as paint thinner. The use of organic solvents may cause cracking, damaging the product, causing electric shocks, or fire.			
0	 Consult the dealer if the remote controller was submerged under water due to a natural disaster, such as a flood or hurricane. Do not operate the remote controller at this time or a malfunction, electric shock, or fire can occur. 			





Button Locations and Descriptions



Functions other than basic operation items (i.e., On/Off, Operation Mode, Fan Speed, and Setpoint) are set from the menu screen.

NOTE

- Do not install the remote controller in places exposed to direct sunlight, the LCD will be damaged.
- Do not pull or twist the remote controller cord, the remote controller may be damaged.
- Do not use objects with sharp ends to press the buttons on the remote controller, damage may result.

1. Operation mode selector button

 Press this button to select the operation mode of your preference. (See page 10.)
 *Available modes vary with the indoor unit model.

2. Fan speed control button

 Press this button to select the fan speed of your preference. (See page 11.)
 * Available fan speeds vary with the indoor unit model.

3. Menu/OK button

- Used to enter the main menu. (See page 20 for the menu items.)
- Used to enter the selected item.

4. Up button **▲**

- Used to raise the setpoint.
- The item above the current selection will be highlighted.
 (The highlighted items will be scrolled continuously when the button is continuously pressed.)
- Used to change the selected item.

5. Down button ▼

- Used to lower the setpoint.
- The item below the current selection will be highlighted.

(The highlighted items will be scrolled continuously when the button is continuously pressed.)

Used to change the selected item.

6. Right button ►

- Used to highlight the next items on the right-hand side.
- Each screen is scrolled in the right-hand direction.

7. Left button ◀

- Used to highlight the next items on the left-hand side.
- Each screen is scrolled in the left-hand direction.

8. On/Off button

- Press this button and system will start.
- Press this button again to stop the system.

9. Operation lamp

- This lamp illuminates solid green during normal operation.
- This lamp flashes if an error occurs.

10.Cancel button

• Used to return to the previous screen.

11.LCD (with backlight)

- The backlight will be illuminated for approximately 30 seconds by pressing any button.
- If two remote controllers are used to control a single indoor unit, only the controller accessed first will have backlight functionality.

Names and Functions

Liquid Crystal Display

- Three types of display mode (Standard, Detailed and Simple) are available.
- Standard display is set by default.
- Detailed and Simple displays can be selected in the main menu. (See page 40.)

Standard display



Detailed display

The airflow direction, clock, and selectable item appear on Detailed display screen in addition to the items appearing on Standard display.



Simple display



Note for all display modes

• Depending on the field settings, while the indoor unit is stopped, OFF may be displayed instead of the operation mode and/or the setpoint may not be displayed.

Names and Functions

1. Operation mode

- Used to display the current operation mode: Cool, Heat, Vent, Fan, Dry or Auto.
- In Auto mode, the actual operation mode (Cool or Heat) will be also displayed.
- Operation mode cannot be changed when OFF is displayed.
 Operation mode can be changed after starting operation.

2. Fan Speed

- Used to display the fan speed that is set for the indoor unit.
- The fan speed will not be displayed if the connected model does not have fan speed control functionality.

3. Setpoint

- Used to display the setpoint for the indoor unit.
- Use the Celsius/Fahrenheit item in the main menu to select the temperature unit (Celsius or Fahrenheit).

4. Stand by for Defrost/Hot start

- " [STANDBY] " (See page 12.)
- If ventilation icon is displayed in this field:
- Indicates that an energy recovery ventilator (ERV) is connected.
 For details, refer to the Operation Manual of the ERV.

5. Message

The following messages may be displayed.

"This function is not available"

- Displayed for a few seconds when an Operation button is pressed and the indoor unit does not provide the corresponding function.
- In a remote control group, the message will not appear if at least one of the indoor units provides the corresponding function.

- "Error: Push Menu button"
- "Warning: Push Menu button"
- Displayed if an error or warning is detected (see page 50).
- "Time to clean filter"
- "Time to clean element"
- "Time to clean filter & element"
- Displayed as a reminder when it is time to clean the filter and/or element (see page 48).

6. Ventilation

- Displayed when an energy recovery ventilator is connected.
- Ventilation Mode icon." ERV BYPASS " These icons indicate the current ventilation mode (ERV only) (AUTO, ERV, BYPASS).
- Air Purify ICON " ARRIEV " This icon indicates that the air purifying unit (Optional) is in operation.

7. - Key Lock (See page 19.)

• Displayed when the key lock is set.

8. ④ Scheduled (See page 30.)

• Displayed if the Schedule or Off timer is enabled.

9. Under Centralized control " CENTRE "

• Displayed if the system is under the management of a multi-zone controller (Optional) and the operation of the system through the remote controller is limited.

10.Changeover controlled by the master indoor unit "

(VRV only)

• Displayed when another indoor unit on the system has the authority to change the operation mode between cool and heat.

11. Setback " SETBACK " (See page 14.)

• The setback icon flashes when the unit is turned on by the setback control.

12.Airflow Direction ".,[–]"

- Displayed when the airflow direction and swing are set (see page 23).
- If the connected indoor unit model does not include oscillating louvers this item will not be displayed.

13.Current Day/Time (12/24 hour time display)

- Displayed if the clock is set (see page 42).
- If the clock is not set, "--:--" will be displayed.
- 12 hour time format is displayed by default.
- Select 12/24 hour time display option in the main menu under "Clock & Calendar".

14.Selectable Display Item

- Room temperature is selected by default.
- For other choices see page 41.

15. XUnable to schedule

- Displayed when the clock needs to be set.
- The schedule function will not work unless the clock is set.

Basic Operation

Cool/Heat/Auto/Fan Operation (SkyAir and VRV)



Preparation

• For mechanical protection purposes, apply power to the outdoor units at least six hours before starting the operation of the system.

Operation





Basic Operation

 Adjust Airflow Direction from the main menu (see page 23).

* If the connected indoor unit does not have oscillating louvers, this function will not be available.



 When **On/Off** button is pressed again, the system will stop operating and the Operation lamp will turn off.



*When the system is stopped while in the heating mode, the fan will continue to operate for approximately one minute to remove residual heat from the indoor unit.

Note

• To prevent condensation water damage or system failure, do not shut off the power supply to the indoor unit immediately after operation. Wait at least five minutes for the condensate pump to finish draining residual water from the indoor unit.

Characteristics of Heat Mode

The system automatically controls the following operating modes to prevent the reduction of heating capacity and space comfort.

Defrost operation	• The system will automatically go into defrost operation to prevent frost accumulation at the outdoor unit and subsequent loss of heating capacity.
	 The indoor unit fan will stop, and "<u>STANDBY</u>" will be displayed on the remote controller.
	 The system will finish the Defrost operation and return to normal usually within six to eight minutes. It won't last for more than ten minutes.
Hot start	 When the system starts heating operation, the indoor unit fan will operate with a delay in order to prevent a cold draft. (In that case, " <u>STANDBY</u> " will be displayed on the remote controller.)

Dry Mode

Preparation

- For equipment protection purposes, apply power to the outdoor units at least six hours before starting the operation of the system.
- The dry mode may not be selected if the remote controller is master controlled and the system is not already in the cooling mode of operation. (see page 18 for details)

Operation



 Press Mode button several times until the Dry mode is selected.



*The dry mode may not be available depending on the type of indoor unit.



Press On/Off button. The Operation lamp will illuminate solid green and the system will start operating.



*In Dry mode, the system maintains automatic temperature and fan speed control. Therefore, temperature setpoint or fan speed settings are not available while the indoor unit is in the Dry mode.

 Adjust Airflow Direction from the main menu (see page 23).

* If the connected indoor unit does not have oscillating louvers, this function will not be available.

Basic Operation



 When On/Off button is pressed again, the system will stop operating and the Operation lamp will turn off.



Note

• To prevent condensation water damage or system failure, do not shut off the power supply to the indoor unit immediately after operation. Wait at least five minutes for the condensate pump to finish draining residual water from the indoor unit.

Characteristic of Dry mode

The Dry mode dehumidifies the space at reduced cooling capacity to prevent the room temperature from dropping to an uncomfortable level.



Setback

The Setback function can be used to maintain the space temperature in an assigned range for an unoccupied period.

Note

- When enabled, the Setback mode becomes active when the indoor unit is turned off by either the user, a schedule event or an off timer.
- This function is not available by default. It can be enabled by the system installer.

Operation



• The setback icon flashes when the unit is turned on by the setback control.

Ventilation Mode When the Indoor Unit is Interlocked with Energy Recovery Ventilator

Preparation

• For equipment protection purposes, apply power to the outdoor units at least six hours before starting the operation of the system.

Operation



Basic Operation



 Press On/Off button.
 The Operation lamp will illuminate solid green and the system will start operating.



 When On/Off button is pressed again, the system will stop operating and the Operation lamp will turn off.



Setting the Cool / Heat Changeover Master

(VRV only)

Setting Changes See page 18 for an explanation of the cool/heat changeover master indoor unit.



- Press **Mode** button on the remote controller of the changeover master indoor unit for at least four seconds while the backlight is illuminated.
- The "
 "
 "
 icon on each remote controller for the indoor units connected to the same outdoor unit or Branch Selector unit will start flashing.
- *Vent mode setting changes are possible regardless of the cool/ heat changeover master indoor unit.
- * If the outdoor unit is configured as cool/heat changeover master, all remote controllers serving the associated indoor units will display its "[__MATELE_]" icon.
- Set the cool/heat changeover master indoor unit as outlined below.

Selection Settings The icon " COMMITCIED " will flash on all remote controllers when the power is turned ON for the first time.



 Press Mode button on the remote controller of the indoor unit which is to serve as the cool/heat changeover master.
 The remote controller for the changeover master indoor unit is established and the complete icon is no longer displayed.
 Other remote controllers in the system (indoor units served by the same outdoor unit or indoor units served by the same branch selector unit) will now display the complete icon.



• Press **Mode** button on the remote controller of the indoor unit designated as the cool/heat changeover master (the remote controller not displaying the commode is selected. The display will change to **Fan**, **Dry**, **Auto**, **Cool**, **Heat** each time the button is pressed.

• Simultaneously, the other indoor units on the system will follow suit and change modes to reflect the new mode selected at the changeover master remote controller.



Basic Operation

Cool / Heat Mode Selection Availability

• "Cool", "Heat", and "Auto" are all only available for selection on the cool/heat changeover master indoor unit. The following table indicates the available operating modes of the other indoor units on the system based upon the selected mode of the master indoor unit.

When the master indoor unit is set to	The other indoor units in the system can be set to				
	Cool	Dry	Heat	Fan	
Cool mode	1				
Dry mode	1	1		 ✓ 	
Heat mode			1	 ✓ 	
Fan mode				 ✓ 	
Auto mode (Cooling operation)	1	1		 ✓ 	
Auto mode (Heating operation)			1	 ✓ 	

Precautions for Selecting the Cool / Heat Changeover Master Indoor Unit

• The cool/heat changeover master must be set for a single indoor unit in the following applications



(3-Pipe Heat Recovery System)



Set any one of the indoor units as the cool/heat changeover master.



Quick Reference

■The main menu has the following items.

Menu item		Description	Reference page
Airflow Direction Used to configure airflow direction settings. • The airflow direction louver is automatically operated up and down (left and right). • The fixed airflow directions are configurable for five positions. * This function is not available on all indoor unit models.		23	
Individual	Louver Setting	Set the airflow direction individually for each of the 4 louvers. • Maximum 16 units (unit 0 till 15).	25
Airflow Direction (depends on	Louver Setting List	Setting table for louver.	26
indoor unit model)	Reset All Louvers Position	Reset all louvers to factory default setting.	27
		Used to set "Low" or "High"	28
operation settings for energy recovery ventilator	Ventilation Mode	Used to set Auto, ERV, or Bypass.	29
Schedule	Daily Patterns	 Day settings are selected from four patterns, i.e., "7Days", "Weekday/Sat/Sun", "Weekday/Weekend", and "Everyday". 	31
	Settings	 Set the startup time and operation stop time. ON: Startup time, cooling and heating temperature setpoints can be configured. OFF: Operation stop time, cooling and heating setback temperature setpoints can be configured. (: Indicates that the setback function is disabled for this time period.) Indicates that the temperature setpoint and setback temperature setpoint for this time period is not specified. The last active setpoint will be utilized. Up to five actions can be set for each day. 	32
Off Timer		 Used to set the run-time for the indoor unit using this controller. Possible to set in 10 minute increments from 30 to 180 minutes. 	35
Celsius / Fahrenheit		 Used to select whether temperature values will be displayed in Celsius or Fahrenheit. 	_

М	enu item	Description	Reference page
Filter Auto Clean		Set the time when the filter needs to be automatically cleaned. For the detailed operation refer to the Operation Manual of the self cleaning decoration panel.	
Maintenance I	nformation	Used to display the maintenance information.	37
Configuration	Draft Prevention (Only available with Occ. sensor installed indoor unit model)	The draft prevention function can be enabled or disabled . When enabled, the Occ. sensor will adjust the louver's position to prevent air blowing directly on occupant.	38
	Contrast Adjustment	Used to make LCD contrast adjustment.	39
	Display	 Used to set the display mode. Display mode Standard, Detailed, or Simple display Detailed and Simple displays provide the selectable display item among Room Temp, System, None or Outside Air Temp. 	40
Current Settin	gs	 Used to display a list of current settings for available items. 	42
Clock & Date & Time Calendar		 Used to configure date and time settings and corrections. The default time display is 12H. The clock will maintain accuracy to within ±30 seconds per month. If there is a power failure for a period not exceeding 48 hours, the clock will continue working with the built-in backup power supply. 	42
	12H/24H Clock	The time can be displayed in either a 12 hour or a 24 hour time format.	45
Daylight Savir	ng Time	Used to adjust the clock in observance of daylight saving time.	45
Language		The display language can be selected between English , Francais , or Espanol .	48

Note: Available setting items vary with the indoor unit model.



Menu Options

Navigating the Main Menu Screen

■Display Method for Main Menu

Operation

Cool Set to 74 F Basic screen	• Press Menu/OK button.	
2 Main Menu 1/3 Articox Direction Individual Artifox Direction Ventilation Schedule	● The main menu screen is displayed.	
Off Timer Celsius / Fahrenheit (Setting Main menu screen	<⊐ Instructions for navigating the main menu will appear.	
3	 Selecting items from the main menu. 1. Press ▼▲ buttons to select the desired item to be set. 	
	2. Press Menu/OK button to display the details for the selected item.	
4	• To go back to the basic screen from the main menu, press Cancel button.	

Note

• If a button is not pressed for 5 minutes during configuration, the controller will automatically revert to the basic screen.

Airflow Direction

■Configuring Airflow direction

Operation

Main Menu 1/3 Arrilow Direction Individual Airlflow Direction Verillation Schedule Off Timer Celsius / Fahrenheit Setting	 Display the main menu screen. (See page 22.) Press ▼▲ buttons to select Airflow Direction and press Menu/OK button. 	
2	 (1) Adjusting method when there is single airflow direction. Select the desired airflow direction from Position 0, Position 1, Position 2, Position 3, Position 4, Swing or Auto using V▲ buttons. Press Menu/OK button to confirm the settings and to return to the basic screen. 	
setting (up/down)	$\begin{array}{c} 0\\1\\2\\3\\4\end{array}$ $\begin{array}{c} 0\\1\\2\\3\\4\end{array}$ $\begin{array}{c} 0\\1\\2\\3\\2\\3\\3\end{array}$	Position 0 Position 1 Position 2 Position 3 Position 4

Menu Options



Airflow Direction Louver

Position 0

When front/back direction is selected

When left/right direction is selected

Position 0

(2) Adjusting method for selecting dual airflow directions.



● Press ◀▶ buttons, to select front/back or left/right direction setting.

Notice -

These operation and screen are example of dual airflow directions type indoor unit (Single flow cassette model).



 Select the desired airflow direction from Position 0, Position 1, Position 2 Position 3 , Position 4 , Swing or Auto







- Selecting Swing will cause the airflow direction louver to swing position 0 to 4.
- Setting Auto is not available when left/ right direction is selected.
- Press Menu/OK button to confirm the settings and return to the basic screen.





Airflow Directio

• If dual airflow directions are set, then the dual airflow direction icons are displayed in the basic screen.

Individual Airflow Direction

■Louver Setting

Operation



Menu Options

	Louver Setting	
4	Outlet Unit 0	Direction No Ind Set
	Outletmark	
	Setti	ing 🔶

- Press <> button to select the airflow direction.
 Use
- Use ▼▲ buttons to change the airflow direction to the following:

No Ind Set , Position 0 , Position 1 Position 2 , Position 3 , Position 4 , Swing or Blocked .



Blocked : Individual airflow is blocked.

• Press **Menu/OK** button to confirm the settings and to return to the basic screen.



 If individual airflow direction is set, then the individual airflow direction icon is displayed in the basic screen.

■Louver Setting List

Position 0

Position 0

Position 0

OFF

OFF OFF

OFF



Unit 0



• A table shows the current settings.

Press ▼▲ buttons to go to the next unit.
Press Cancel button to return to the previous menu.





■Reset All Louvers Position

Operation



Operational Details and Functions

There are two types of airflow direction settings.



Movement of airflow direction louver

Under the operating conditions shown next, airflow direction is controlled automatically. Actual operation may be different than what is displayed on the remote controller.

Menu Options

Operating condition	 Room temperature is higher than the remote controller's setpoint (in heating operation). When defrosting (in heating operation). (The airflow discharges horizontally to avoid creating a draft for the room
	occupants.) • Under continuous operation with the airflow discharging horizontally.

Ventilation

■Ventilation screen display properties

Operation



Changing the ventilation rate

Operation



• Navigate to the ventilation screen (see above).

 Press VA buttons to select
 Ventilation Rate on the ventilation screen.

Press **Menu/OK** button to display the ventilation rate screen.





Changing the ventilation mode



Menu Options



• Selecting and confirming the desired ventilation mode will take you back to the basic screen. (Pressing **Cancel** button takes you back to the previous screen without changing the ventilation



Ventilation Mode

Auto mode	Using information from the indoor unit (cool, heat, fan, and setpoint) and the energy recovery ventilator unit (indoor and outdoor temperatures), the ventilation mode is automatically changed between ERV and Bypass.
ERV mode	Outside air is passed through the ERV core and is supplied to the conditioned space.
Bypass mode	Outside air is supplied to the conditioned space without passing through the ERV core.

mode.)

Schedule

■Setting the schedule

Operation The schedule will disappear when a multizone controller is connected, but can be re-enabled by the system installer.



Display the main menu screen. (See page 22.)
Press ▼▲ buttons to select Schedule Press Menu/OK button to display the

schedule screen.





■ Daily Patterns



Schedule nable/Disable

Daily Patte

- The schedule screen will appear. ● Press ▼▲ buttons to
 - select Daily Patterns on the schedule screen.

The daily patterns screen will appear when Menu/OK button is pressed.





 Press ▼▲ buttons to select 7 Days, Weekday/Sat/Sun, Weekday/Weekend or Everyday on the daily patterns screen. The confirmation screen will appear

when Menu/OK button is pressed.



Menu Options



Press <> buttons to select Yes on the confirmation screen.
 Pressing Menu/OK button enters the daily patterns in the schedule and takes you back to the main menu screen.



■Settings






Operation Display the schedule screen. Schedule Enable/Disable (See page 30.) Daily Patterns Settings ● Press ▼▲ buttons to select Enable / Disable on the schedule Setting screen. Press Menu/OK button to display the enable/disable screen. ● Press ▼▲ buttons to select Enable Schedule Enable/Disable or Disable on the enable/disable Disable screen. Press Menu/OK button after selecting the item. The confirmation screen is displayed. ● Press ◀▶ buttons to select Yes on the Schedule Save the settings? confirmation screen. Yes No Pressing Menu/OK button confirms the enable/disable setting for the schedule Setting and takes you back to the basic screen.

Off Timer

■Configuring and Confirming the Off Timer settings

Operation

1	Main Menu 1/3 Airflow Direction Individual Airflow Direction Ventilation Schedule Off Timer Celsius / Fahrenheit Setting \$	 Display the main menu screen. (See page 22.) Press ▼▲ buttons to select the Off Timer on the main menu screen. Press Menu/OK button to display the off timer screen. 	
2	Off Timer Enable/Disable Settings	 Press ▼▲ buttons to select Settings on the off timer screen. Press Menu/OK button to display the configuration screen. 	
3	Off Timer After you turn on the unit, it will automatically turn off in 60 minutes.	 Use ▼▲ buttons to set the time from operation start until the unit automatically stops. Selections can be made in increments of 10 minutes from 30 to 180 minutes. Holding down the button causes the number to change continuously. Select the desired time and press Menu/ OK button. The confirmation screen will appear. 	
4	Off Timer Save the settings? Vers No Setting	 Press ◄► button to select Yes on the confirmation screen. Pressing Menu/OK button confirms the off timer and takes you back to the basic screen. 	



Operation



Maintenance Information

Displaying the service contact and model information

Operation

1	Main Menu 2/3 Filter Auto Clean Maintenance Information Configuration Current Settings Clock & Calendar Daylight Saving Time Setting ♦	 Display the main menu screen. (See page 22.) Press ▼▲ buttons to select Maintenance Information on the main menu screen and press Menu/OK button. 	
2	Maintenance Information Contact Info 0123-456-7890 Indoor Model/000 Outdoor Model/000	 The phone number for the contact is displayed at the top of the screen. (If it has not yet been entered, it will not be displayed.) The model information of the indoor and outdoor units for your product will be displayed on the bottom of the screen. (For some models the product code may be displayed.) *The model name will not be displayed if the indoor unit PCB has been replaced. 	
		*The error code history may also be displayed. If the Operation lamp is not flashing, the unit is working properly. The error code history is no longer displayed if you press On/Off button for more than 4 seconds.	

Menu Opti		
Configuration Configuration Draft Preventie Operation		
Main Menu 2/3 Filter Auto Clean Maintenance Information Configuration Configuration Current Settings Clock & Calendar Daylight Saving Time Setting	 Display the main menu screen. (See page 22.) Press ▼▲ buttons to select Configuration and press Menu/OK button. 	
2 Configuration Uraft Prevention Contrast Adjustment Display Setting	 Press ▼▲ buttons to select Draft Prevention and press Menu/OK button. 	
3 Enable/Disable Disable Setting	 Press ▼▲ buttons to select Enable or Disable . The confirmation screen will appear when Menu/OK button is pressed. 	
Draft Prevention Save the settings? Mo Setting	 Press <> buttons to select Yes . Press Menu/OK button to confirm the settings and to return to the basic screen. 	×

■Contrast Adjustment

Operation



■Display Display Mode

Operation



Display Item

Operation



Navigate to the display screen. (See page 40.)
Press ▼▲ buttons to select Display Item on the display screen.

Press **Menu/OK** button to display the display item screen.



2	Display Display Item	_
	Room Temp	•



* Some models may not display these items even if they are selected.

• Be sure to read the following notes regarding display of room temperature and outside air temperature.

Room Temp

...... The temperature at the remote controller.

The temperature that is detected may be affected by the location of the remote controller.

Outside Air Temp

- The temperature at the outdoor unit. The temperature that is detected may be affected by factors such as the location of the unit (for example, if it is in direct sunlight) and unit operation during defrosting.
- After setting, press **Menu/OK** button to confirm settings and return to the basic screen.

Current Settings

■Confirming the current settings

Operation



Clock & Calendar

2/3

■Date & Time

Main Menu

Configuration

Current Settings Clock & Calendar Daylight Saving Tin

Filter Auto Clean Maintenance Information

Operation

- Display the main menu screen. (See page 22.)
- Press VA buttons to select
 Clock & Calendar on the main menu screen.

Press **Menu/OK** button to display the clock & calendar screen.



2	Clock & Calendar Date & Time 12H/24H Clock	 Press ▼▲ buttons to select Date & Time on the clock & calendar screen. Press Menu/OK button to display the date & time screen. 	
3	Date & Time Year 2015 Month 1 Day 1 Thursday 12:00A Setting ◀�	 Select Year with ◀▶ buttons. Change the year with ▼▲ buttons. Holding down the button causes the number to change continuously. 	
4	Date & Time Year 2016 Month 10 Day 1 Saturday 12:00A Setting ↔	 Select Month with ◀▶ buttons. Change the month with ▼▲ buttons. Holding down the button causes the number to change continuously. 	
5	Date & Time Year 2016 Month 10 Day ▼ Friday 12:00A Setting ↔	 Select Day with ◄► buttons. Change the day with ▼▲ buttons. Holding down the button causes the number to change continuously. Days of the week change automatically. 	
6	Date & Time Year 2016 Month 10 Day 7 Friday 12:00A Setting	 Select Hour with ◄► buttons. Change the hour with ▼▲ buttons. Holding down the button causes the number to change continuously. 	



■12H/24H CLOCK

Operation

Clock & Calendar Date & Time 12H/24H Clock Setting	 Display the clock & calendar screen. (See page 42.) Press ▼▲ buttons to select 12H/24H Clock on the clock & calendar screen. The 12H/24H clock screen will appear when Menu/OK button is pressed. 	
2 <u>12H/24H Clock</u> 12H Setting	By default, the time display is set to the 12H format. • Press ▼▲ buttons to select 12H 24H on the 12H/24H clock screen. • The confirmation screen will appear when Menu/OK button is pressed.))))
3 <u>I2H/24H Clock</u> Save the settings? <u>Ves</u> No <u>Setting</u>	Press ◀► buttons to select Yes on the confirmation screen. Pressing Menu/OK button confirms the 12H or 24H and takes you back to the basic screen.	

Daylight Saving Time

■How to display Daylight Saving Time

Operation



Enabling or disabling Daylight Saving Time

Operation

Daylight Saving Time Enable/Disable DST Dates Setting	 Display the daylight saving time screen. (See page 45.) Press ▼▲ buttons to select Enable/Disable on the daylight saving time screen. Press Menu/OK button to display the enable/disable screen. 	
2	 Press VA buttons to select Enable or Disable on the enable/disable screen. Press Menu/OK button to display the setting confirmation screen. 	
3 Daylight Saving Time Save the settings? Fres No Setting	 Press <> buttons to select Yes on the setting confirmation screen. Pressing Menu/OK button confirms the daylight saving time enable/disable setting and takes you back to the basic screen. 	

Setting the date

Operation





When Daylight Saving Time is enabled

When the time in the remote controller reaches 2:00 a.m. on the specified start date, the clock is automatically set forward by one hour. When the time in the remote controller reaches 2:00 a.m. on the end date, the clock is automatically set back by one hour.

Language

■Selectable Languages

Operation

1	Main Menu 3/3 Language	 Display the main menu screen. (See page 22.) Press ▼▲ buttons to select Language on the main menu screen and press Menu/OK button. 	
2	English Setting	 Press ▼▲ buttons to select the preferred language on the language screen. English/Français/Español are available. Press Menu/OK button to confirm the settings and return to the basic screen. 	

Maintenance

Reset Filter Indicator Operation • When it is time to clean or replace the filter, one of Cool the following messages will be displayed on the Set to 2 74⊧ bottom of the basic screen. Time to clean filter Time to clean filter & element Time to clean element * This is not displayed when Simple display is set. • Wash, clean, or replace the filter or element. For details, refer to the operation manual supplied with the indoor unit.



Maintaining the Unit and LCD Display

- Wipe the LCD and surface of the remote controller with a dry cloth when they become dirty.
- If the dirt on the surface cannot be removed, soak the cloth in neutral detergent diluted with water, squeeze the cloth tightly, and clean the surface. Wipe the surface with a dry cloth.

Note

• Do not use any paint thinner, organic solvent, or strong acid.

Reference Information

Error Code Display

Contact your Daikin dealer in the following cases

Operation



After-sale Service



• Do not relocate or reinstall the remote controller by yourself. Improper installation may result in electric shocks or fire. Consult your Daikin dealer.

Advise your Daikin Dealer of the following items

- Model name
- Date of installation
- Failure conditions: As precise as possible.
- Your address, name, and telephone number

■ Repairs after Warranty Period

Consult your Daikin dealer.

■Inquiry about After-sale Service

Contact your Daikin dealer.

13.2 With <BRC082A43> Wireless Remote Controller







COOL/HEAT CHANGEOVER REMOTE CONTROL SWITCH

Fig. 1-3

CONTENTS

- - 1. SAFETY CONSIDERATIONS4
 - 2. NAMES AND FUNCTIONS OF THE OPERATING SECTION4
 - 3. HANDLING FOR WIRELESS REMOTE

 - 5. NOT MALFUNCTION OF THE AIR CONDITIONER9

1. SAFETY CONSIDERATIONS

Please read these "SAFETY CONSIDERATIONS" carefully before installing air conditioning equipment and be sure to install it correctly. After completing the installation, make sure that the unit operates properly during the start-up operation. Please instruct the customer on how to operate the unit and keep it maintained.

Also, inform customers that they should store this operation manual along with the installation manual for future reference. This air conditioner comes under the term "appliances not accessible to the general public".

Meaning of warning, caution and note symbols.

▲ WARNING....... Indication a potentially hazardous situation which, if not avoided, could result in death or serious injury.
▲ CAUTION Indication a potentially hazardous situa-

tion which, if not avoided, may result in minor or moderate injury. It may also be sued to alert against unsafe practices.

NOTE.....Indication situation that may result in equipment or property-damage-only accidents.

Keep these warning sheets handy so that you can refer to them if needed.

Also, if this equipment is transferred to a new user, make sure to hand over this operation manual to the new user.

- It is not good for your health to expose your body to the air flow for a long time.
- In order to avoid electric shock, fire or injury, or if you detect any abnormality such as smell of fire, turn off power and call your dealer for instructions.
- Ask your dealer for installation of the air conditioner. Incomplete installation performed by yourself may result in a water leakage, electric shock, and fire.
- Ask your dealer for improvement, repair, and maintenance. Incomplete improvement, repair, and maintenance may result in a water leakage, electric shock, and fire.
- Do not put a finger, a rod or other objects into the air inlet or outlet. As the fan is rotating at high speed, it will cause injury.
- Ask your dealer to move and reinstall the air conditioner. Incomplete installation may result in a water leakage, electric shock, and fire.

- Do not touch the switch with wet fingers. Touching a switch with wet fingers can cause electric shock.
- Do not operate the air conditioner with a wet hand. Otherwise, you could receive an electric shock.

- Do not use the air conditioner for other purposes. In order to avoid any quality deterioration, do not use the unit for cooling precision instruments, food, plants, animals or works of art.
- To avoid oxygen deficiency, ventilate the room sufficiently if equipment with burner is used together with the air conditioner.
- Do not allow a child to mount on the unit or avoid placing any object on it.

Falling or tumbling may result in injury.

- **Do not let children play on and around the unit.** If they touch the unit carelessly, it may result in injury.
- Do not place a flower vase and anything containing water. Water may enter the unit, causing an electric shock or fire.
- Do not operate the air conditioner when using a room fumigation type insecticide. Failure to observe could cause the chemicals to become
- deposited in the unit, which could endanger the health of those who are hypersensitive to chemicals.
- Never use flammable spray such as hair spray, lacquer or paint near the unit.
 It may cause a fire.

NAMES AND FUNCTIONS OF THE

OPERATING SECTION (Fig. 1-1~3, 2)

1	DISPLAY "▲""I" (SIGNAL TRANSMISSION)
•	This lights up when a signal is being transmitted.
2	DISPLAY " 🍫 " " 🗃 " " 🏝 " " 🗍 " " 🛊 " " 🛞 " (OPERATION MODE)
2	This display shows the current OPERATION MODE. For
	VRV system, " \Lambda " is not installed.
3	DISPLAY "
	This display shows the set temperature.
	DISPLAY " ଲ.୭.उँ ଲ.୭.୳ଁ " (PROGRAMMED TIME)
4	This display shows PROGRAMMED TIME of the system start or stop.
5	DISPLAY " 🗞 " " 🗞 " (FAN SPEED)
-	This display shows the set fan speed.
	DISPLAY "WTEST" (INSPECTION/ TEST OPERA-
6	TION)
	When the INSPECTION/TEST OPERATION BUTTON
	is pressed, the display shows the system mode is in.
-	ON/OFF BUTTON
7	Press the button and the system will start. Press the button again and the system will stop.

	FAN SPEED CONTROL BUTTON
8	Press this button to select the fan speed, HIGH,
	MEDIUM or LOW, of your choice.
	TEMPERATURE SETTING BUTTON
9	Use this button for SETTING TEMPERATURE.
9	(Operates with the front cover of the remote controller
	closed.)
	PROGRAMMING TIMER BUTTON
10	Use this button for programming "START and/or STOP"
	time. (Operates with the front cover of the remote con-
11	TIMER MODE START/STOP BUTTON
	Refer to page 7.
12	
	Refer to page 7.
13	OPERATION MODE SELECTOR BUTTON
	Press this button to select OPERATION MODE.
	FILTER SIGN RESET BUTTON
14	Refer to the section of MAINTENANCE in the operation
	manual attached to the indoor unit. INSPECTION/TEST OPERATION BUTTON
15	
15	This button is pressed for inspection or test operation. Do not use for normal operation.
	EMERGENCY OPERATION SWITCH
16	This switch is readily used if the remote controller does
	not work.
47	RECEIVER
17	This receives the signals from the remote controller.
	OPERATING INDICATOR LAMP (Red)
18	This lamp stays lit while the air conditioner runs.
	It flashes when the unit is in trouble.
19	TIMER INDICATOR LAMP (Green)
13	This lamp stays lit while the timer is set.
20	AIR FILTER CLEANING TIME INDICATOR LAMP (Red)
20	Lights up when it is time to clean the air filter.
	DEFROST LAMP (Orange)
21	Lights up when the defrosting operation has started.
	(For cooling only type this lamp does not turn on.)
	FAN/AIR CONDITIONING SELECTOR SWITCH
22	Set the switch to " 🍫 " (FAN) for FAN and " 🇊 " (A/C)
	for HEAT or COOL.
	COOL/HEAT CHANGEOVER SWITCH
23	Set the switch to " 🛊 " (COOL) for COOL and " 💓 "
	(HEAT) for HEAT.
	I. · · · ·

- For the sake of explanation, all indications are shown on the display in Fig. 1-1 contrary to actual running situations.
- Fig. 1-2 shows the remote controller with the front cover opened.
- Fig. 2 shows this remote controller can be used in conjunction with the one provided with the VRV system.
- If the air filter cleaning time indicator lamp lights up, clean the air filter as explained in the operation manual provided with the indoor unit.
- After cleaning and reinstalling the air filter, press the filter sign reset button on the remote controller. The air filter cleaning time indicator lamp on the receiver will go out.
- The DEFROST lamp will flash when the power is turned on. This is not a malfunction.

3. HANDLING FOR WIRELESS REMOTE CONTROLLER

- Precautions in handling remote controller
- Direct the transmitting part of the remote controller to the receiving part of the air conditioner. If something blocks the transmitting and receiving path of the indoor unit and the remote controller as curtains, it will not operate.



- Transmitting distance is approximately 23 ft..
- Do not drop or get it wet. It may be damaged.
- Never press the button of the remote controller with a hard, pointed object.
 - The remote controller may be damaged.
- Installation site

It is possible that signals will not be received in rooms that have electronic fluorescent lighting. Please consult with the salesman before buying new fluorescent lights. If the remote controller operated some other electrical apparatus, move that machine away or consult your dealer.

Placing the remote controller in the remote controller holder

Install the remote controller holder to a wall or a pillar with the attached screw. (Make sure it transmits.)



ation will restart automatically after the power turns back on again.

COOLING, HEATING, AUTOMATIC, FAN, AND PRO-**GRAM DRY OPERATION**

Operate in the following order.

 AUTOMATIC OPERATION can be selected only by Heat pump system or Heat recovery system.

- FAN OPERATION"
- DRY OPERATION
- See "FOR SYSTEM WITHOUT COOL/HEAT CHANGEOVER REMOTE CONTROL SWITCH" for details on dry operation.

[°F]

(2) Press OPERATION MODE SELECTOR button several

times and select " 💽 ".

(This operation is only available during dry operation.)



Press ON/OFF button.

OPERATING INDICATOR lamp lights up or goes off and the system starts or stops OPERATION.

 Do not turn off power immediately after the unit stops. Then, wait no less than 5 minutes.

Water is leaking or there is something else wrong with the unit.

[EXPLANATION OF HEATING OPERATION] DEFROST OPERATION

- As the frost on the coil of an outdoor unit increase, heating effect decreases and the system goes into DEFROST OPERATION.
- The fan operation stops and the DEFROST lamp of the indoor unit goes on.
- After 6 to 8 minutes (maximum 10 minutes) of DEFROST OPERATION, the system returns to HEATING OPERATION.

Heating capacity & Outdoor air temperature

- Heating capacity drops as outdoor air temperature lowers. If feeling cold, use another heater at the same time as this air conditioner.
- Hot air is circulated to warm the room. It will take some time from when the air conditioner is first started until the entire room becomes warm. The internal fan automatically turns at low speed until the air conditioner reaches a certain temperature on the inside. In this situation, all you can do is wait.
- If hot air accumulates on the ceiling and feet are left feeling cold, it is recommended to use a circulator. For details, contact the place of purchase.

ADJUSTMENT

For programming TEMPERATURE and FAN SPEED, follow the procedure shown below.



TEMPERATURE SETTING

Press TEMPERATURE SETTING button and program the setting temperature.



Each time this button is pressed, setting temperature rises $1^\circ\text{F}.$

Each time this button is pressed, setting temperature lowers $1^\circ\text{F}.$

In case of automatic operation



Each time this button is pressed, setting temperature shifts to "H" side.

Each time this button is pressed, setting temperature shifts to "L" side.

	Н	•	М	•	L	
Setting temperature	77	73	71	70	66	

• The setting is impossible for fan operation.

- 🕂 NOTE

The setting temperature range of the remote controller is 60° F to 90° F.



Press FAN SPEED CONTROL button.

High, Medium or Low fan speed can be selected.

The microchip may sometimes control the fan speed in order to protect the unit.

PROGRAM TIMER OPERATION

Operate in the following order.

- The timer is operated in the following 2 ways.
- Programming the stop time $(\bigcirc \cdot \bigcirc)$ The system stops operating after the set time has elapsed. Programming the start time $(\bigcirc \cdot |)$
- The system starts operating after the set time has elapsed.
- The timer can be programmed a maximum of 72 hours.
- The start and the stop time can be simultaneously programmed.



TIMER MODE START/STOP

Press the TIMER MODE START/STOP button several times and select the mode on the display.

The display flashes.

For setting the timer stop " $\oplus \circ \bigcirc$ " For setting the timer start " $\oplus \circ \mid$ "



Press the PROGRAMMING TIMER button and set the time for stopping or starting the system.



When this button is pressed, the time advances by 1 hour.

When this button is pressed, the time goes backward by 1 hour.



Press the TIMER RESERVE button.

The timer setting procedure ends.

The display changes from flashing light to a constant light.



Press the TIMER CANCEL button to cancel programming. The display vanishes. For example.



When the timer is programmed to stop the system after 3 hours and start the system after 4 hours, the system will stop after 3 hours and then 1 hour later the system will start.

NOTE

After the timer is programmed, the display shows the remaining time.

HOW TO SET MASTER REMOTE CONTROLLER (For VRV system)

· When the system is installed as shown below, it is necessary to designate the master remote controller.

For Heat pump system

When 1 outdoor unit is connected with several indoor units.



One of these remote controllers needs to be designated as the master remote controller.

For Heat recovery system

When 1 BS unit is connected with several indoor units.



· Only the master remote controller can select HEATING, COOLING or AUTOMATIC OPERATION.

When the indoor unit with master remote controller is set to "COOL", you can switch over operation mode between "FAN", "DRY" and "COOL".

When the indoor unit with master remote controller is set to "HEAT", you can switch over operation mode between "FAN" and "HEAT".

When the indoor unit with master remote controller is set to "FAN", you cannot switch operation mode.

1 long beepWhen attempting settings than that consented above. Only with Heat recovery system, you can

set the indoor unit to AUTOMATIC. Attempting to do so.

How to designate the master remote controller Operate in the following order.



Continuously press the OPERATION MODE SELEC-TOR button for 4 seconds.

The displays showing " () " of all slave indoor unit connected to the same outdoor unit or BS unit flash.



Press the OPERATION MODE SELECTOR button to the indoor unit that you wish to designate as the master remote controller. Then designation is completed. This indoor unit is designated as the master remote controller and the display showing "
 " vanishes.

• To change settings, repeat steps (1) and (2).

EMERGENCY OPERATION

When the remote controller does not work due to battery failure or the absence there of, use this switch which is located beside the discharge grille on the indoor unit. When the remote controller does not work, but the battery low indicator on it is not lit, contact your dealer.



[START]



Press the EMERGENCY OPERATION switch.

The machine runs in the previous mode.

[STOP]



Press the EMERGENCY OPERATION switch again.

PRECAUTIONS FOR GROUP CONTROL SYSTEM **OR 2 REMOTE CONTROLLERS CONTROL SYSTEM**

This system provides 2 other control systems beside individual control (1 remote controller controls 1 indoor unit) system. Confirm the following if your unit is of the following control system type.

- Group control system
 1 remote controller controls up to 16 indoor units.
 All indoor units are equally set.
- 2 remote controllers control system
 2 remote controllers control 1 indoor unit.
 (In case of group control system, 1 group of indoor units)
 The unit follows individual operation.

- Cannot have 2 remote controllers control system with only wireless remote controllers. (It will be a 2 remote controllers control system having 1 wired and 1 wireless remote controllers.)
- Under 2 remote controllers control system, wireless remote controller cannot control timer operation.
- Only the operating indicator lamp out of 3 other lamps on the indoor unit display functions.
- Contact your dealer in case of changing the combination or setting of group control and 2 remote controllers control systems.

5. NOT MALFUNCTION OF THE AIR CONDITIONER

The following symptoms do not indicate air conditioner malfunction.

- THE SYSTEM DOES NOT OPERATE
- The system does not restart immediately after the ON/ OFF button is pressed.

If the OPERATING INDICATOR lamp lights, the system is in normal condition. It does not restart immediately because a safety device operates to prevent overload of the system. After 3 minutes, the system will turn on again automatically.

• The system does not restart immediately when TEM-PERATURE SETTING button is returned to the former position after pushing the button.

It does not restart immediately because a safety device operates to prevent overload of the system. After 3 minutes, the system will turn on again automatically.

- If the reception beep is rapidly repeated 3 times. (It sounds only 2 times when operating normally.) Control is set to the optional controller for centralized control.
- If the DEFROST lamp on the indoor unit's display is lit when heating is started. This indication is to warn against cold air being blown from
- the unit. There is nothing wrong with the equipment. The unit stops operation from time to time.
- With "U4" "U5" displayed on the remote controller, the unit stops, but it resumes operation in a few minutes. Since electric noises produced from other equipment than the air conditioner interrupt communication between the units, the unit stops operation.

If these electric noises subside, operation is restarted automatically.

- COOLING / HEATING changeover is impossible.
- If the indoor unit emits a receiving sound "1 long beep". It is because the indoor unit under the control of operation changeover is set to the mode that cannot be selected.

- Display Indicates only a part.
- Even if the unit is in operation, the display shows only operational indication. Even if the indication is shown, the indication other than operation disappears after a while. It is because the remote controller is set to multi-system.
- Display disappears or shows all indication.
- It happens when the button of the remote controller is pressed.
- It is because the battery is dead.
- No favorable cooling is achieved.
- The unit is in DRY OPERATION. DRY OPERATION is carried out to perform operation such that the room temperature is not decreased as much as possible.

6. HOW TO DIAGNOSE TROUBLE SPOTS

EMERGENCY STOP

When the air conditioner stops in emergency, the run lamp on the indoor unit starts blinking. Take the following steps yourself to read the malfunction code that appears on the display. Contact your dealer with this code. It will help pinpoint the cause of the trouble, speeding up the repair.





Press the INSPECTION/TEST OPERATION button to select the inspection mode " []".

"appears on display and blinks. "UNIT No." lights up.



Press PROGRAMMING TIMER button and change the unit number.

Press to change the unit number until the indoor unit beeps and perform the following operation according to the number of beeps.

Number of beeps

- 3 short beeps..... Perform all steps from (3) to (6).
- 1 short beep..... Perform ③ and ⑥ steps.
- 1 long beep Normal state



Press OPERATION MODE SELECTOR button.

" 🖪 " on the left-hand of the malfunction code blinks.



Press PROGRAMMING TIMER button and change the malfunction code.

Press until the indoor unit 2 beeps.



Press OPERATION MODE SELECTOR button.

" 👖 " on the right-hand of the malfunction code blinks.



Press PROGRAMMING TIMER button and change the malfunction code.

Press until the indoor unit makes 1 long beep.

The malfunction code is fixed when the indoor unit makes 1 long beep.

Reset of the display

Press OPERATION MODE SELECTOR button to get the display back to the normal state.

■ IN CASE BESIDES EMERGENCY STOP

- The unit does not operate at all.
 - Check if the receiver is exposed of sunlight or strong light. Keep receiver away from light.
 - Check if there are batteries in the remote controller. Place the batteries.
 - Check if the indoor unit number and wireless remote controller number are equal.

Number



Operate the indoor unit with the remote controller of the same number.

Signal transmitted from 1 remote controller of a different number cannot be accepted. (If the number is not mentioned, it is considered as "1".)

The system operates but it does not sufficiently cool or heat.

- If the set temperature is not proper. (See page 7)
- If the FAN SPEED is set to LOW SPEED. (See page 7)

Contact the place of purchase in the following case.



When you detect a burning odor, shut OFF power immediately and contact the place of purchase. Using the equipment in anything but proper working condition can result in equipment damage, electric shock or fire.

[Trouble]

The OPERATING INDICATOR lamp of the indoor unit is flashing and the unit does not work at all.



Check the malfunction code (A1 - UF) on the remote controller and contact the place of purchase. (Refer to indoor unit installation manual.)

14. Options

14.1 Option List

14.1.1 Indoor Unit

	Optior	n Name	09/12 Class	15/18/24 Class	
4	Demote controller (required)	Wired type	BRC	1E73	
I	Remote controller (required)	Wireless type	BRCO	82A43	
0	l link officiency filter	65%	KAFP632B56	KAFP632B80	
2	High efficiency filter	90%	KAFP633B56	KAFP633B80	
3	Longlife filter		KAFP631B56	KAFP631B80	
4	Filter chamber		KDDFP63B56	KDDFP63B80	
5	Central remote controller		DCS3	02C71	
6	Unified ON/OFF controller		DCS3	DCS301C71	
7	Schedule timer controller		DST30	01BA61	
		White KTBJ25K56W		KTBJ25K80W	
8	Service panel	Mireless type BRC08 65% KAFP632B56 90% KAFP633B56 90% KAFP631B56 KDDFP63B56 DCS30 DCS30 DCS30 White KTBJ25K56W Fresh white KTBJ25K56F Brown KTBJ25K56T KDAP25A56A KDBD63	KTBJ25K80F		
	Filter chamber KDDFP63E Central remote controller Unified ON/OFF controller Unified ON/OFF controller White Schedule timer controller White Service panel White Fresh white KTBJ25K5 Brown KTBJ25K5 Air discharge adaptor KDAP25A5	KTBJ25K56T	KTBJ25K80T		
9	Air discharge adaptor		KDAP25A56A	KDAP25A71A	
10	Shield plate for side plate		KDBD	63A160	
11	Remote sensor		KRCS	S01-4B	
12	Remote controller loss prevent	tion with chain	KKFS	910A4	

14.1.2 Outdoor Unit

	Option Name	09/12 Class	15/18/24 Class		
1	Air direction adjustment grille	KPW937E4	KPW063A4		
2	Back protection wire net	KKG067A41	KKG063A42		
3	Drain plug ★	ККР	KKP937A4		
4	Drain pan heater	FTDBHMS KEH067A41I	FTDBHMS, FTDBHML, KEH067A41E, KEH063A4E		
5	Snow hood (intake side plate)	KPS067A41	KPS063A41		
6	Snow hood (intake rear plate)	KPS067A42	KPS063A44		
7	Snow hood (outlet)	KPS067A44	KPS063A47		

Note: \star Standard accessory

14.2 <KDDFP63B56/80> Filter Chamber





3P399856-1B

14.3 <DCS302C71> Central Remote Controller

14.3.1 Installation Manual

Please read these "SAFETY CONSIDERATIONS" carefully before installing air conditioning equipment and be sure to install it correctly. After completing the installation, make sure that the unit operates properly during the start-up operation. Please instruct the customer on how to operate the unit and keep it maintained. Also, inform customers that they should store this installation manual along with the operation manual for future reference. This air conditioner comes under the term "appliances not accessible to the general public". Meaning of warning, caution and note symbols. A WARNING Indication a potentially hazardous situation which, if not avoided, could result in death or serious injury. ▲ NOTE Indication situation that may result in equipment or property-damage-only accidents Ask your dealer or qualified personnel to carry out installation work. Do not try to install the machine by yourself, Improper installation may result in water leakage, electric shocks or fire. Perform installation work in accordance with this installation manual. Improper installation may result in water leakage, electric shocks or fire. Be sure to use only the specified accessories and parts for installation work. Failure to use the specified parts may result in water leakage, electric shocks, fire or the unit falling. Carry out the specified installation work after taking into account strong winds, typhoons or earthquakes, Improper installation work may result in the equipment failing and causing accidents. Make sure that a separate power supply circuit is provided for this unit and that all electrical work is carried out by qualified personnel according to local laws and regulations and this installation manual. An insufficient power supply capacity or improper electrical construction may lead to electric shocks or fire. by qualifi Make sure that all wiring is secured, the specified wires and used, and no external forces act on the terminal connections or wires. connections or installation may result in fire When wiring the power supply and connecting the remote controller wiring and transmission wiring, position the wires so that the electric parts box lid can be securely fastened. Improper positioning of the electric parts box lid may result in electric shocks, fire or the terminals overheating. Before touching electrical parts, turn off the unit. Ground the air conditioner. Do not connect the ground wire to gas or water pipes, lightning rod or a telephone ground wire. Incomplete grounding may result in electric shocks When installing or relocating the system, be sure to keep the refrigerant circuit free from substances other than the specified refrigerant (R410A), such as air. Do not reconstruct or change the settings of the protection devices. If the pressure switch, thermal switch, or other protection device is shorted and operated forcibly, or parts other than those specified by Daikin are used, fire or explosion may result. Do not touch the switch with wet fingers. Touching a switch with wet fingers can cause electric shock Install an leak circuit breaker, as required. If an leak circuit breaker is not installed, electric shock may result. Do not install the air conditioner or the remote controller in the following locations: (a) where a mineral oil mist or an oil spray or vapor is produced, for example in a kitchen Plastic parts may deteriorate and fall off or result in water leakage. (b) where corrosive gas, such as sulfurous acid gas, is produced Corroding copper pipes or soldered parts may result in refrigerant leakage. (c) near machinery emitting electromagnetic waves Electromagnetic waves may disturb the operation of the control system and result in a malfunction of the equipment. (d) where flammable gases may leak, where there are carbon fiber or ignitable dust suspensions in the air, or where volatile flammables such as thinner or gasoline are handled. Operating the unit in such conditions may result in fire. Be very careful about product transportation. Safely dispose of the packing materials. Packing materials, such as nais and other metal or wooden parts, may cause stabs or other injuries. Tear apart and throw away plastic packaging bags so that children will not play with them. If children play with a plastic bag which was not torn apart, they face the risk of suffocation. Do not turn off the power immediately after stopping operation. Always wait at least five minutes before turning off the power. Otherwise, water leakage and trouble may occur. Install the indoor and outdoor units, power supply wiring and connecting wires at least 3.5ft. away from televisions or radios in order to prevent image interference or noise. (Depending on the radio waves, a distance of 3.5ft, may not be sufficient enough to eliminate the noise.) Remote controller (wireless kit) transmitting distance can result shorter than expected in rooms with electronic fluorescent lamps.(inverter or rapid start types) Install the indoor unit as far away from fluorescent lamps as possible. This unit is a class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures. Dismantling of the unit, treatment of the refrigerant, oil and eventual other parts, should be done in accordance with the relevant local and national regulations.





If it is difficult to contain a long wiring, strip the sheathed part of the wiring.



Electric parts box (KJB311A)

Weak current electric wire

(1) Connector for	sotting master con	trollor (X1A)	(Provided with con	postor at factor	v sot)	
 When using a 	only 1 central remote	e controller,	do not disconnect t	he connector fo		controller. (Us
			nich it was delivered rs, or using the cent		oller in coniuncti	on with the
			akes settings as ind			
Pattern of connection	of optional controllers for ce	entralized control	Connector for setting	master controller (X1A	Setting, Removed]
	Unified ON/OFF controller					
1 to 4	1 to 16	1	Set one to "Used" and all the rest to "Not used"	Set all to "Not used	d" "Not used"	
		1			"Not used"	
(Remove all the co	onnectors for the ce	ntral remote	controller, the on/c	off controller, and	d the schedule ti	imer when
		P controller,	the master station I	ll, the DMS interf	face, the paymen	it managemer
	l interface station.)					
(2) Address settir			n in 😢 SYSTEM CON		o control on whore	up to a may
			is must be set. This is d			
SS3 setting				loor unit address		
SETTING EACH ADDR				control indoor units		
5-00	from group Nos. 1-	-00 5	5-00 1 99 from	m group Nos, 5-00		
~ 8-15	through 4-15		8-15 // 15 // thro	ough 8-15		
	······	·	SUB changeover sv	vitch.		ations. In this
Central remote controller (1)	Group No.1-00	Group No.1-1			Central remote controller (2)	
Central remote controller (1)	Group No.1-00	· · Group No.1-1 Ma>	5 Group No.2-00	Vitch.	Central remote controller (2)	
Central remote controller (1) One of the two	Group No.1-00 •	Group No.1-1 Max trollers (1) . (5 Group No.2-00 · · · < 64 groups	Vitch.	Central remote controller (2)	
Central remote controller (1) One of the two (4) Setting of the The central re	Group No.1-00 · central remote conf sequential operation mote controller is ex	, Group No.1-1 Max trollers (1) . (n function quipped with	5 Group No2-00 · · · · · · · · · · · · · · · · · ·	vitch. Group No.4-15 vhile the other is tion function that	Central remote controller (2) s set to "SUB". at sequentially tu	rns indoor
Central remote controller (1) One of the two (4) Setting of the The central re units on in 2=	Group No.1-00 · central remote cont sequential operation mote controller is ed second intervals dur	Group No.1-1 Max trollers (1) . (n function quipped with ring unified c	5 Group No.2-00 · · · 6. 64 groups (2) is set to "MAIN" v a sequential operation. (Sequential	vitch. Group No.4-15 vhile the other is tion function that	Central remote controller (2) s set to "SUB". at sequentially tu	rns indoor
Central remote controller (1) One of the two (4) Setting of the The central re units on in 2=	Group No.1-00 · central remote conf sequential operation mote controller is ec	Group No.1-1 Max trollers (1) . (in function quipped with ing unified c set as follows	5 Group No2-00 · · · 64 groups (2) is set to "MAIN" v a sequential opera operation. (Sequential s.	vitch. Group No.4-15 vhile the other is tion function the al operation is fa	Central remote controller (2) s set to "SUB". at sequentially tu	rns indoor
Central remote controller (1) One of the two (4) Setting of the The central re units on in 2=	Group No.1-00 · central remote cont sequential operation mote controller is ed second intervals dur	Group No.1-1 Max trollers (1) . (n function quipped with ing unified c set as follows While holdin	5 Group No2-00 · · · 5 Group No2-00 · · · · · · · · · · · · · · · · · ·	vitch. Group No.4-15 vhile the other is tion function the al operation is fa	Central remote controller (2) s set to "SUB". at sequentially tu	rns indoor
Central remote controller (1) One of the two 4) Setting of the The central re units on in 2-4 sequential ope	Group No.1-00 · central remote cont sequential operation mote controller is ed second intervals dur	Group No.1-1 Max trollers (1) . (in function quipped with ing unified c set as follows	5 Group No2-00 · · · 5 Group No2-00 · · · · · · · · · · · · · · · · · ·	vitch. Group No.4-15 vhile the other is tion function the al operation is fa stop button,	Central remote controller (2) s set to "SUB". at sequentially tu actory set to "ON	rns indoor ") To switch
Central remote controller (1) One of the two 4) Setting of the The central re units on in 2-4 sequential ope	Group No.1-00 · central remote cont sequential operation mote controller is ex second intervals dur gration ON or OFF, s	Group No.1-1 Max trollers (1) . (n function quipped with ing unified c set as follows While holdin perform for	5 Group No.2-00 · · · 5 Group No.2-00 · · · 6 A groups (2) is set to "MAIN" v a sequential opera poperation. (Sequential s. g down the unified ced reset.	vitch. • Group No.4-15 vhile the other is tion function that al operation is fat stop button,	Central remote controller (2) s set to "SUB". at sequentially tu	rns indoor ") To switch
Central remote controller (1) One of the two (4) Setting of the The central re units on in 2- sequential ope	Group No.1-00 • central remote cont sequential operation mote controller is en second intervals dur pration ON or OFF, s uential operation	Group No.1-1 Max trollers (1) . (n function quipped with ing unified c set as follows While holdin perform for While holdin	5 Group No.2-00 · · · 5 Group No.2-00 · · · 6 A groups (2) is set to "MAIN" v a sequential opera- operation. (Sequential s. g down the unified ced reset. ng down the unified	vitch. • Group No.4-15 vhile the other is tion function that al operation is fat stop button,	Central remote controller (2) s set to "SUB". at sequentially tu actory set to "ON	rns indoor ") To switch
Central remote controller (1) One of the two (4) Setting of the The central re units on in 2-4 sequential ope	Group No.1-00 · central remote cont sequential operation mote controller is ex- second intervals dur pration ON or OFF, s uential operation "ON" (Factory set)	Group No.1-1 Max trollers (1) . (n function quipped with ing unified c set as follows While holdin perform for While holdin button, per	5 Group No.2-00 · · · 5 Group No.2-00 · · · 6 64 groups (2) is set to "MAIN" v a sequential opera operation. (Sequential s. g down the unified ced reset. ng down the unified form forced reset.	vitch. Group No.4-15 vhile the other is tion function that a operation is fat stop button,	Central remote controller (2) s set to "SUB". at sequentially tu actory set to "ON Sequential opera "OFF"	rns indoor ") To switch ation
Central remote controller (1) One of the two (4) Setting of the The central re- units on in 2- sequential ope Sequential ope	Group No.1-00 Group No.1-00 central remote cont sequential operation mote controller is ex- second intervals dur eration ON or OFF, s uential operation "ON" (Factory set) ential operation func- ntee that compresse	Group No.1-1 Max trollers (1) . (n function pulpped with ing unified c set as follows While holdin perform for While holdin button, per ction is desig prs will not b	5 Group No2-00 · · · 5 Group No2-00 · · · 6 64 groups (2) is set to "MAIN" v a a sequential opera operation. (Sequential s. g down the unified ced reset. ng down the unified form forced reset. med to reduce the ke be started simultane	vitch. Group No.4-15 vhile the other is tion function the al operation is fa stop button, d operation bad on the powe ously. You canno	Central remote controller (2) s set to "SUB". at sequentially tu actory set to "ON Sequential opera "OFF"	ation
Central remote controller (1) One of the two (4) Setting of the The central re- units on in 2- sequential ope Sequential ope	Group No.1-00 Group No.1-00 central remote cont sequential operation mote controller is ex- second intervals dur eration ON or OFF, s uential operation "ON" (Factory set) ential operation func- ntee that compresse	Group No.1-1 Max trollers (1) . (n function pulpped with ing unified c set as follows While holdin perform for While holdin button, per ction is desig prs will not b	5 Group No.2-00 · · · 5 Group No.2-00 · · · 6 A groups 6 A groups 6 A groups 7 A a sequential operation. (Sequential 9 down the unified 10 ced reset. 10 g down the unified 10 ced reset. 10 g down the unified 10 ced reset. 10 g down the unified 10 ced reset. 11 g down the unified 12 ced reset. 13 g down the unified 14 ced reset. 15 g down the unified 16 ced reset. 16 ced reset. 17 g down the unified 17 g down the unified 18 ced reset. 19 g down the unified 19 g down the unified 10 ced reset. 10 g down the unified 10 g	vitch. Group No.4-15 vhile the other is tion function the al operation is fa stop button, d operation bad on the powe ously. You cannot r selection.	Central remote controller (2) s set to "SUB". at sequentially tu actory set to "ON Sequential opera "OFF" er supply equipm ot therefore cour	ation
Central remote controller (1) One of the two (4) Setting of the The central re- units on in 2 sequential ope Sequential ope Sequential ope	Group No.1-00 · central remote cont sequential operation mote controller is ex- second intervals dur eration ON or OFF, s uential operation (Factory set) ential operation func- ntee that compressed eduction effect by p	Group No.1-1 Max trollers (1) . (n function pulpped with ing unified c set as follows While holdin perform for While holdin button, per ction is desig prs will not b	5 Group No2-00 · · · 5 Group No2-00 · · · 6 64 groups (2) is set to "MAIN" v a a sequential opera operation. (Sequential s. g down the unified ced reset. ng down the unified form forced reset. med to reduce the ke be started simultane	vitch. Group No.4-15 vhile the other is tion function the al operation is fa stop button, d operation bad on the powe ously, You cannor r selection. Con	Central remote controller (2) s set to "SUB". at sequentially tu cotory set to "ON. Sequential opera "OFF" er supply equipm ot therefore cour nector for setting	ation
Central remote controller (1) One of the two (4) Setting of the The central re units on in 2- sequential ope Sequential ope Sequential ope (5) Forced reset s When changing	Group No.1-00 · central remote cont sequential operation mote controller is ex- second intervals dur eration ON or OFF, s uential operation "ON" (Factory set) ential operation func- ntee that compressed eduction effect by p witch g the setting of the co	While holdin button, per While holdin button, per conserver supply	5 Group No2-00 · · · 5 Group No2-00 · · · 6 64 groups (2) is set to "MAIN" v a a sequential opera operation. (Sequential s. g down the unified ced reset. ng down the unified form forced reset. med to reduce the ke be started simultane	vitch. Group No.4-15 vhile the other is tion function that a operation is fat stop button, d operation bad on the power ously. You canner r selection. Con mas	Central remote controller (2) s set to "SUB". at sequentially tu actory set to "ON Sequential opera "OFF" er supply equipm ot therefore cour nector for setting ter controller	ation
Central remote controller (1) One of the two (4) Setting of the The central re- units on in 2-a sequential ope Sequential ope Sequential ope (5) Forced reset s When changing for setting ma	Group No.1-00 • Group No.1-00 • central remote cont sequential operation mote controller is er second intervals dur pration ON or OFF, s uential operation (Factory set) ential operation func- ntee that compress eduction effect by p witch the setting of the co ster controller, etc., y	Max trollers (1) . (n function quipped with ing unified c set as follows While holdin perform ford While holdin perform ford While holdin button, per ction is desig pors will not b power supply ponnector ou can	5 Group No2-00 · · · 5 Group No2-00 · · · 6 64 groups (2) is set to "MAIN" v a a sequential opera operation. (Sequential s. g down the unified ced reset. ng down the unified form forced reset. med to reduce the ke be started simultane	vitch. Group No.4-15 vhile the other is tion function the al operation is fa stop button, d operation bad on the powe ously. You canno r selection. Con mas Swi	Central remote controller (2) s set to "SUB". at sequentially tu actory set to "ON Sequential opera "OFF" er supply equipm ot therefore cour nector for setting ter controller	ation
Central remote controller (1) One of the two (4) Setting of the The central re- units on in 2- sequential ope Sequential ope Sequential ope (5) Forced reset s When changing for setting ma reset simply by	Group No.1-00 · central remote cont sequential operation mote controller is ex- second intervals dur eration ON or OFF, s uential operation "ON" (Factory set) ential operation func- ntee that compressed eduction effect by p witch g the setting of the co	Group No.1-1 Max trollers (1) . (n function quipped with ing unified cs et as follows While holdin perform for While holdin button, per tion is desig pors will not b power supply ponnector ou can side	5 Group No2-00 · · · 5 Group No2-00 · · · 6 64 groups (2) is set to "MAIN" v a a sequential opera operation. (Sequential s. g down the unified ced reset. ng down the unified form forced reset. med to reduce the ke be started simultane	vitch. Group No.4-15 vhile the other is tion function the al operation is fa stop button, d operation bad on the powe ously. You canno r selection. Con mas Swi	Central remote controller (2) s set to "SUB". at sequentially tu actory set to "ON Sequential opera "OFF" er supply equipm ot therefore cour nector for setting ter controller	ation
Central remote controller (1) One of the two (4) Setting of the The central re- units on in 2 sequential ope Sequential ope (5) Forced reset s When changing for setting ma reset simply by once and retur without turning	Group No.1-00 Group No.1-00 central remote controller is ex- second intervals dur beration ON or OFF, s uential operation "ON" (Factory set) ential operation func- ntee that compresses eduction effect by p witch ster controller, etc., y setting it to the reset ning to the normal sig the power OFF.	Max trollers (1) . (n function quipped with ing unified c set as follows While holdin perform ford While holdin button, per While holdin button, per ction is desig pros will not b boower supply ponnector ou can side de,	5 Group No2-00 · · · 64 groups (2) is set to "MAIN" v a sequential opera operation. (Sequential s. g down the unified ced reset. Ing down the unified form forced reset. Ing down the unified the started simultane y equipment breaked (2) is set to "MAIN" v a sequential opera is a seq	vitch. Group No.4-15 vhile the other is tion function that al operation is fat stop button, d operation bad on the power ously. You cannot r selection. Con mas Swi eac	Central remote controller (2) s set to "SUB". at sequentially tu actory set to "ON Sequential opera "OFF" er supply equipm ot therefore cour nector for setting ter controller th for setting h address WAIN/SUB	ation
Central remote controller (1) One of the two (4) Setting of the The central re- units on in 2 sequential ope Sequential ope (5) Forced reset s When changing for setting ma reset simply by once and retur without turning	Group No.1-00 · central remote cont sequential operation mote controller is ex- second intervals dur eration ON or OFF, s uential operation ("ON" (Factory set) ential operation func- nete that compress eduction effect by p witch the setting of the ca ster controller, etc., y setting it to the reset ning to the normal si eration, set the swit	Max trollers (1) . (n function quipped with ing unified c set as follows While holdin perform ford While holdin perform ford While holdin button, per ction is desig pors will not b power supply ponnector ou can side de, ch to	5 Group No2-00 · · · 64 groups (2) is set to "MAIN" v a sequential opera operation. (Sequential s. g down the unified ced reset. Ing down the unified form forced reset. Ing down the unified the started simultane y equipment breaked (2) is set to "MAIN" v a sequential opera is a seq	vitch. Group No.4-15 vhile the other is tion function that al operation is fat stop button, d operation bad on the power ously. You cannot r selection. Con mas Swi eac	Central remote controller (2) s set to "SUB". at sequentially tu actory set to "ON Sequential opera "OFF" er supply equipm ot therefore cour nector for setting ter controller the for setting h address	ation

5 ELECTRIC WIRING





Call the group of flashing display, confirm malfunction code, and check the source of malfunction.

• Check that setting of the connector for setting master controller is correct.

• After turning the power supply ON, if the unit does not accept operation for two minutes or more with the

• For test operation, refer to the installation manual of the outdoor unit.

• Check that the group No. for centralized control has been set.

1P124687-1A

NOTES

If the operation lamp flashes, it indicates a malfunction.

(The operation manual lists all error codes, so refer to it.)

display of "88", check the following points.

14.3.2 Operation Manual

BEFORE USE

■ GENERAL DESCRIPTION OF SYSTEM

This central remote controller can monitor and control up to 64 indoor unit groups. Using two central remote controllers allows monitoring and controlling of up to 128 indoor unit groups.

Main Functions

- 1. Batch starting and stopping of indoor units connected to the central remote controller.
- 2. Handling of operation settings such as start/stop, timer operation, remote controller prohibition/permission, etc., and operation status settings such as temperature.
- 3. Operation status monitoring of operation mode, set temperature, etc.
- Can be connected to an external central monitor panel and key system using the forced stop input (non-voltage a connector).
- · When using 1 central remote controller



(The central remote controller and the separately sold remote control adapter circuit board or group remote control adapter cannot be used together.)

* GROUP OF INDOOR UNIT refers to the below.

- 1. A single indoor unit without remote controller
 - 1. A single indoor unit without remote controller
 - Indoor unit
- 2. A single indoor unit controlled by one or two remote controllers



Two remote controllers

3. Maximum of 16 indoor units, group-controlled by one or two remote controllers


* Zone control from the central remote controller

Zone control is available from the central remote controller. With it, it is possible to make unified settings for multiple groups, so setting operations are greatly simplified.



- · Any setting you make within a given zone will apply to all groups in the said zone.
- A maximum of 64 zones can be set from a single central remote controller.
- (Each zone contains a maximum of 64 groups.)
- Zones can be set randomly from the central remote controller.

SAFETY CONSIDERATIONS

Please read these "SAFETY CONSIDERATIONS" carefully before installing air conditioning equipment and be sure to install it correctly.

After completing the installation, make sure that the unit operates properly during the start-up operation. Please instruct the customer on how to operate the unit and keep it maintained.

Also, inform customers that they should store this installation manual along with the operation manual for future reference. This air conditioner comes under the term "appliances not accessible to the general public".

Meaning of danger, warning, caution and note symbols.

- **DANGER** Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.
- WARNING Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.
- CAUTION Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices.
- NOTE...... Indicates situation that may result in equipment or property-damageonly accidents.

Keep these warning sheets handy so that you can refer to them if needed.

Also, if this equipment is transferred to a new user, make sure to hand over this operation manual to the new user.

- Any abnormalities in the operation of the air conditioner such as smoke or fire could result in severe injury or death. Turn off the power and contact your dealer immediately for instructions.
- Do not install the unit in an area where flammable materials are present due to risk of explosion resulting in serious injury or death.
- Safely dispose of the packing materials. Packing materials, such as nails and other metal or wooden parts, may cause stabs or other injuries. Tear apart and throw away plastic packaging bags so that children will not play with them. Children playing with plastic bags face the danger of death due to suffocation.

WARNING -

- Ask your dealer for installation of the air conditioner. Incomplete installation performed by yourself may result in a water leakage, electric shock, and fire.
- Ask your dealer for improvement, repair, and maintenance. Incomplete improvement, repair, and maintenance may result in a water leakage, electric shock, and fire.
- Improper installation or attachment of equipment or accessories could result in electric shock, short-circuit, leaks, fire or other damage to the equipment. Be sure only to use accessories made by Daikin which are specifically designed for use with the equipment and have them installed by a professional.
- Ask your dealer to move and reinstall the air conditioner or the remote controller.
 Incomplete installation may result in a water leakage, electric shock, and fire.
- Never let the indoor unit or the remote controller get wet. It may cause an electric shock or a fire.



 Fig. 3
 Fig. 4

 3



Fig. 5



Fig. 6



Fig. 7



Fig. 8

- Never use flammable spray such as hair spray, lacquer or paint near the unit.
 It may cause a fire.
- Do not allow children to play on or around the unit as they could be injured.
- Never replace a fuse with that of wrong ampere ratings or other wires when a fuse blows out. Use of wire or copper wire may cause the unit to break down or cause a fire.
- Never inspect or service the unit by yourself. Ask a qualified service person to perform this work.
- Cut off all electric waves before maintenance.
- Do not wash the air conditioner or the remote controller with excessive water. Electric shock or fire may result.
- Do not touch the switch with wet fingers. Touching a switch with wet fingers can cause electric shock.
- Never touch the internal parts of the controller. Do not remove the front panel because some parts inside are dangerous to touch. In addition, some parts may be damaged by touching. For checking and adjusting internal parts, contact your dealer.
- Check the unit stand for damage on a continuous basis, especially if it had been in use for a long time. If left in a damaged condition the unit may fall and cause injury.
- Placing a flower vase or other containers with water or other liquids on the unit could result in a shock hazard or fire if a spill occurs.

- CAUTION -

 Avoid placing the controller in a spot splashed with water.

Water coming inside the machine may cause an electric leak or may damage the internal electronic parts.

- Do not operate the air conditioner when using a room fumigation type insecticide. Failure to observe could cause the chemicals to become deposited in the unit, which could endanger the health of those who are hypersensitive to chemicals.
- Do not turn off the power immediately after stopping operation.
 Always wait at least five minutes before turning off the
- power. Otherwise, water leakage and trouble may occur.
 The appliance is not intended for use by young children or infirm persons without supervision.
- The remote controller should be installed in such a way that children cannot play with it.

- Never press the button of the remote controller with a hard, pointed object.
- The remote controller may be damaged. • Never pull or twist the electric wire of the remote controller.

It may cause the unit to malfunction.

- Do not place the controller exposed to direct sunlight. The LCD display may get discolored, failing to display the data.
- Do not wipe the controller operation panel with benzine, thinner, chemical dustcloth, etc. The panel may get discolored or the coating peeled off. If it is heavily dirty, soak a cloth in water-diluted neutral detergent, squeeze it well and wipe the panel clean. And wipe it with another dry cloth.
- Dismantling of the unit, treatment of the refrigerant, oil and eventual other parts, should be done in accordance with the relevant local and national regulations.

CONTENTS

BEFORE USE 1 GENERAL DESCRIPTION OF SYSTEM	
SAFETY CONSIDERATIONS	
FEATURES AND FUNCTIONS	
NAMES AND FUNCTIONS OF THE	
OPERATING SECTION 7	
OPERATION	
Individual screen, all screen, zone screen	
Batch operation and stop method9	
Group operation and stop method9	
Registering zones9	
Zone operation and stop method 10	
Changing the fan direction and fan strength 11 Changing the ventilation mode and	
ventilation strength 11	
Timer Number Setting 11	
Setting the Operation Code12	

OPERATION MODE	13
Setting operation mode	16
Group monitoring	16
Error diagnosing function	17
Setting master remote controller	20
Display of time to clean	21
INSTALLATION TABLE	22
OPTIONAL ACCESSORIES	23
DOUBLE CENTRAL REMOTE	
CONTROLLERS	23
SPECIFICATIONS	
Specifications	
Outline drawings	
Fig. 1, 2, 3, 4	
Fig. 5, 6, 7, 8	
Fig. 9, 10, 11, 12	25
Fig. 13, 14, 15, 16	26
u	



Room air conditioners and multi-purpose air conditioners may also be connected by using separately-sold adapter boards.

This may limit functionality, so consult the manuals that come with each adapter board.

NAMES AND FUNCTIONS OF THE OPERATING SECTION (Fig. 1, 2)

,	UNIFIED OPERATION BUTTON	Γ		"	
1	Press to operate all indoor units.			SELEC	
2	UNIFIED STOP BUTTON		13	For zon	
2	Press to stop all indoor units.			this is d	
	OPERATION LAMP (RED)	ŀ		selected	
3	Lit white any of the indoor units under control is			" (HOST,	
	in operation.			COMF	
	" CIRCUIT " DISPLAY (REFRIGERANT		14	TROL While th	
4	SYSTEM DISPLAY)			made. I	
	This indication in the square is lit while the			machin conditic	
	refrigerant system is being displayed.	ſ		" ®_8	
5	" ^{ZONE} " DISPLAY (ZONE SETTING)		15		
5	The lamp is lit while setting zones.			Display	
	" MONITOR " DISPLAY (OPERATION	ŀ		" <u>~</u>	
6	MONITOR)			-	
	The lamp is lit while operation is being monitored.		16	CODE This dis	
	" ALL " " ZONE " " INDIVIDUALLY " DISPLAY		10	when a	
7	The status displays indicates either batch			In main	
'	functions or which zone or individual unit	-		content	
	(or group) are being used.			"NOT (NO F	
8	OPERATION MONITOR		17	If a fund	
0	Each square displays the state corresponding to each group.		even if t		
	«(ĵ)» «‰» «(•)» «(⊥)» « ‡» «⊛» «»	-		is may l	
9	DISPLAY (OPERATION MODE)			"	
•	Displays operating state.		18	(FAN	
	"ඎ" "ஊ" "ஊ" "⊂■" DISPLAY			This dis	
		-		or set to	
10	This is displayed when a Ventiair total enthalpy			"∉`"'	
	heat exchanger unit or other such unit is			DISPL	
	connected.		19	STRE	
	" 遒́TEST " DISPLAY (INSPECTION/TEST)			DISPL	
11	Pressing the maintenance/test run button			This dis	
	(for service) displays this. This button should not normally be used.			" 🕘 "	
			20	Display	
	" 🖉 / 🚰 " DISPLAY (TIME TO CLEAN)			conjunc	
12	It lights up when any individual unit (group) has reached the time for the filter or element to be	-			
	cleaned.				

" DISPLAY (COOLING/HEATING CTION PRIVILEGE NOT SHOWN) es or individual units (groups) for which lisplayed, cooling and heating cannot be d. 🕹 " DISPLAY (UNDER HOST PUTER INTEGRATED CONhis display is lit up, no settings can be It lights up when the upper central es are present on the same air oning network. B[™] " DISPLAY SET TEMPERATURE) s the preset temperature. *십* Y " DISPLAY (MALFUNCTION plays (flashes) the content of errors n error failure has occurred. tenance mode, it displays the latest error **AVAILABLE" DISPLAY UNCTION DISPLAY**) ction is not available in the indoor unit the button is pressed, "NOT AVAILABLE" be displayed for a few seconds. " DISPLAY DIRECTION SWING DISPLAY) plays whether the fan direction is fixed o swing. " **や**" " **や**" " **や**" " FRESH UP" L H HH (A) AY (VENTILATION NGTH/SET FAN STRENGTH AY) plays the set fan strength. **DISPLAY (TIME NO.)** s the operation timer No. when used in tion with the schedule timer.

21	" UNIT NO. 18" " DISPLAY (OPERATION CODE AND UNIT NUMBER DIS- PLAY)
	The method of operation (remote controller prohibited, central operation priority after-press operation priority, etc.) is displayed by the corresponding code.
	This displays the numbers of any indoor units which have stopped due to an error.
	"ể " "着 " DISPLAY (TIME TO
22	CLEAN AIR CLEANER ELEMENT/ TIME TO CLEAN AIR FILTER)
	Displayed to notify the user it is time to clean the air filter or air cleaner element of the group displayed.
	VENTILATION MODE BUTTON
23	This is pressed to switch the ventilation mode of the total enthalpy heat exchanger.
	ALL/INDIVIDUAL BUTTON
24	Pressing this button scrolls through the "all
	screen", "zone screen", and "individual screen".
25	
20	This button is pressed when calling an individual indoor unit or a zone.
	ON/OFF BUTTON
26	Starts and stops ALL, ZONE, and INDIVIDUAL units.
	TEMPERATURE ADJUSTMENT BUTTON (ZONE NUMBER BUTTON)
27	This button is pressed when setting the
	temperature. Select the zone number if any zones have been registered.
28	zones have been registered. FAN DIRECTION ADJUSTMENT
28	zones have been registered. FAN DIRECTION ADJUSTMENT BUTTON This button is pressed when setting the fan
	zones have been registered. FAN DIRECTION ADJUSTMENT BUTTON This button is pressed when setting the fan direction to "fixed" or "swing". OPERATION MODE SELECTOR
28 29	zones have been registered. FAN DIRECTION ADJUSTMENT BUTTON This button is pressed when setting the fan direction to "fixed" or "swing". OPERATION MODE SELECTOR BUTTON This sets the operation mode. The dry setting
28	zones have been registered. FAN DIRECTION ADJUSTMENT BUTTON This button is pressed when setting the fan direction to "fixed" or "swing". OPERATION MODE SELECTOR BUTTON This sets the operation mode. The dry setting cannot be done. TIME NO. BUTTON Selects time No. (Use in conjunction with the schedule timer only).
28 29 30	zones have been registered. FAN DIRECTION ADJUSTMENT BUTTON This button is pressed when setting the fan direction to "fixed" or "swing". OPERATION MODE SELECTOR BUTTON This sets the operation mode. The dry setting cannot be done. TIME NO. BUTTON Selects time No. (Use in conjunction with the
28 29	zones have been registered. FAN DIRECTION ADJUSTMENT BUTTON This button is pressed when setting the fan direction to "fixed" or "swing". OPERATION MODE SELECTOR BUTTON This sets the operation mode. The dry setting cannot be done. TIME NO. BUTTON Selects time No. (Use in conjunction with the schedule timer only). CONTROL MODE BUTTON Selects control mode.
28 29 30	zones have been registered. FAN DIRECTION ADJUSTMENT BUTTON This button is pressed when setting the fan direction to "fixed" or "swing". OPERATION MODE SELECTOR BUTTON This sets the operation mode. The dry setting cannot be done. TIME NO. BUTTON Selects time No. (Use in conjunction with the schedule timer only). CONTROL MODE BUTTON

33	SET BUTTON						
55	Sets control mode and time No.						
34	FAN STRENGTH ADJUSTMENT BUTTON						
	Pressing this button scrolls through "weak", "strong", and "fast".						
	ZONE SETTING BUTTON						
35	Zone registration mode can be turned on and off by pressing the start and stop buttons simulta- neously for at least four seconds.						
36	INSPECTION/TEST RUN BUTTON (FOR SERVICE)						
	Pressing this button scrolls through "inspection", "test run", and "system display". This button is not normally used.						
	VENTILATION STRENGTH ADJUSTMENT BUTTON						
37	This button is pressed to switch the ventilation strength ("fresh up") of the total enthalpy heat exchanger.						
i	tes) Please note that all the displays in the figure appear for explanation purposes or when the cover is open. If the unit is used in conjunction with other optional						
 -	central controllers, the OPERATION LAMP of the unit that is not under operation control may light up and go out a few minutes behind schedule. This shows that the signal is being exchanged, and does not indicate any failure.						

OPERATION

■ Individual screen, all screen, zone screen (Fig. 3)

This controller can perform operations in the individual screen, all screen, or zone screen.

- Individual screen The individual screen is used when performing group operations.
 All screen is used when performing the all screen is used when performing the all screen is used when performed when perf
- All screen The all screen is used when performing operations for all units at once.
 Zono screen The zono screen is used when
- Zone screen The zone screen is used when performing zone operations.
- 1. ^(f) Select the screen by pressing the "ALL/INDIVIDUAL" button.

CD Every time the "ALL/INDIVIDUAL" button is pressed, the selection scrolls through INDIVIDUAL \rightarrow ALL \rightarrow ZONE.

If nothing is done in the all or zone screens for one minute, it automatically goes to the individual screen.

If the zone number in the zone screen is displayed as "---," this indicates that no units are registered in a zone.
 Please perform zone registration before pro-

ceeding in the zone screen. (See page 9)

Batch operation and stop method (Fig. 4)

This is for operating or stopping all connected units at once.

A. What to do when operating or stopping all connected units at once.

1. Press either IP " ALL | " or

2 "ALL O".

- Operation can be performed from the individual screen, the all screen, or the zone screen.
- The "TEMPERATURE ADJUSTMENT" and "OPERATION MODE SELECTOR" buttons cannot be used. To set the temperature and operation mode,

Is set the temperature and operation mode, use B. batch operation.

B. Batch Operation

1. ⁽³⁾ Press the "ALL/INDIVIDUAL button" to enter the all screen.

The " The second seco

2. ⁽⁴⁾ Press the "SELECT" button.

The " I display lights up on all connected units.

⁽⁵⁾ Press the "RESET" button.

The " **I** " display goes off on all connected units. Operation and stop in the batch screen are done the same as with the batch operation and batch stop buttons.

Image: Second state of the Image and the Imag

The temperature rises 1° every time

the (\blacktriangle) button is pressed.

The temperature drops $1^\circ\mbox{ every time}$

the ($\mathbf{\nabla}$) button is pressed.

Set to " -- " when you do not wish to use batch setting for the temperature setting. Setting to 1° above or below the temperature setting range displays " -- ".

Call up the desired mode by pressing the "OPERATION MODE SELECTOR" button.

Set to " -- " when you do not wish to use batch setting for the operation setting.

Group operation and stop method (Fig. 5)

This is for operating or stopping connected units in groups.

[Group operation]

1. Press the Tr "ALL/INDIVIDUAL button"

to enter the *raindividual screen.* The unit will enter the individual screen automatically if nothing is done for one minute.

2. ⁽³⁾ Using the arrow keys, ⁽⁴⁾ move the

" T * to select the units to operate or stop. Keeping the button pressed down will move it rapidly.

The " 📃 " in this screen has selected unit 1-04.

3. ⁽⁵⁾ Press the "SELECT" button.

The " 🔳 " display lights up in the group.

⁽⁶⁾ Press the "RESET" button.

The " 🔳 " display goes off in the group.

4. ⁽⁾ Press the "TEMPERATURE ADJUST-MENT" button.

The temperature rises 1° every time the

(▲) button is pressed.

The temperature drops 1° every time the

(▼) button is pressed.

Temperature adjustment cannot be done if the selected group's air conditioners are in fan mode.

5. Call up the desired mode by pressing the "OPERATION MODE SELECTOR" button.

Registering zones (Fig. 6)

It is possible to set multiple groups as one zone and control each zone separately.

No zones are registered when the unit is shipped from the factory.

Zone registration can be done in the individual screen, all screen, or zone screen.

[Registration]

1. Tressing the "ALL/INDIVIDUAL" button for four seconds. To Displays ZONE SET.

Zone Number 1 will be displayed, and if there are any groups already registered in the displayed

zone, a " 🔳 " will light up on the operation monitor.

- 2. ⁽³⁾ Select the Zone Number to be registered using the "ZONE NUMBER" button. Keeping the button pressed down will move it rapidly.
- Image: "Image: Second state of the second state of th
- 4. ^(C) Press the "SELECT" button to register that group to the zone.

The " **n** " display lights up on all the selected units.

There are the second to the second term of term of

" 🔳 " goes off.

Repeat steps 3 and 4 until all the units you wish to register to the zone have been added.

ZONE SET										Z	201	١E				1
	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
1-																
2-																
3-																
4-																

In this example, a screen is shown with units 1-00, 1-02, 1-03, and 2-00 registered to Zone Number 1.

- 5. Repeat steps 2 to 4 to register to the next zone.
- Once zone registration is complete,
 press the "ALL/INDIVIDUAL" button to turn off "ZONE SET" display and return to the individual screen.

The display returns to the normal screen if nothing is done for one minute when in zone registration mode.

(NOTE)

• It is impossible to register one group to several different zones.

If this is done, the last zone registered to will be valid.

[Batch deletion of zone registration]

- Image: Pressing the "ALL O" for at least four seconds while Image: pressing the "FIL-TER SIGN RESET" button when Image: "ZONE SET" is displayed will delete all zone registrations. The zone registrations for all units will be lost.
- Zone operation and stop method (Fig. 7)

This is for operating or stopping connected units in zones.

[Zone operation]

- 1. IP Press the "ALL/INDIVIDUAL button" to enter the zone screen.
- 2. ⁽³⁾Using the arrow keys, select the zone number to operate or stop.

Pressing - and - reduces the zone number

while \rightarrow and \uparrow raise the number. Keeping the button pressed down will move it rapidly.

• If the zone number is displayed as "---," this indicates that no units are registered in a zone. Please perform zone registration before using a zone. (See page 9)

3. ^(J) Press the "SELECT" button.

The " 🔳 " display lights up in the group.

Press the "RESET" button.

The " I display goes off in the group.

4. In Press the "TEMPERATURE ADJUST-MENT" button.

The temperature rises 1° every time the (\blacktriangle) button is pressed.

The temperature drops 1° every time the ($\mathbf{\nabla}$) button is pressed.

Set to "--" when you do not wish to use zone setting for the temperature setting. Setting to 1° above or below the temperature setting range displays "--".

 IP Call up the desired mode by pressing the "OPERATION MODE SELECTOR" button.

Set to "--" when you do not wish to use zone setting for the operation mode.

Changing the fan direction and fan strength (Fig. 8)

This changes the fan direction and strength settings in the air conditioner.

Changing the fan direction and strength is done in the individual screen.

[Registration]

1. IP Press the "ALL/INDIVIDUAL button"

to enter the (37⁻ individual screen. The unit will enter the individual screen automatically if nothing is done for one minute.

- 2. ③ Using the arrow keys, ④ move the
 - " " to select the units to fan direction adjustment or fan strength adjustment. Keeping the button pressed down will move it rapidly.
- Image: Second State of Second Sta

This sets "fixed" or "swing" for the fan direction.

Press the "FAN STRENGTH ADJUST-MENT" button.

Pressing this button scrolls through " ${}^{a}_{L}$ ", " ${}^{a}_{H}$ ", and " ${}^{a}_{H}$ ".

Depending on the indoor unit, only " $\frac{1}{L}$ " and " $\frac{1}{H}$ "

may be available.

The functions included in the indoor units may vary. Pressing a button for a function which is not available will cause "NOT AVAILABLE" to be displayed.

Changing the ventilation mode and ventilation strength (Fig. 9)

This changes the ventilation mode and strength settings in the total enthalpy heat exchanger. Changing the ventilation mode and strength is done in the individual screen.

[Registration]

1. IP Press the "ALL/INDIVIDUAL button" to

enter the @individual screen.

The unit will enter the individual screen automatically if nothing is done for one minute.

2. I Using the arrow keys, I move the

" To select the units to ventilation mode or ventilation strength adjustment. Keeping the button pressed down will move it rapidly. 3. IPPress the "VENTILATION MODE" button.

It will scroll through " $(\underline{\mathbb{A}}_{\mathbb{D}})^{*} \rightarrow (\underline{\mathbb{A}}_{\mathbb{D}})^{*} \rightarrow (\underline{\mathbb{A}}_{\mathbb{D}})^{*}$ "

→ "மீஹ". ⓒ Press the "VENTILATION STRENGTH ADJUSTMENT" button.

It will scroll through " $\stackrel{\bullet}{\overset{\bullet}{L}}$ " \rightarrow " $\stackrel{\bullet}{\overset{\bullet}{H}}$ " \rightarrow " $\stackrel{\bullet}{\overset{L}{\underset{\mathsf{FRESH UP}}{\overset{\bullet}{T}}}$ " \rightarrow

 $\stackrel{\clubsuit}{}_{\text{FRESH UP}} ^{"} \rightarrow \stackrel{`}{}_{\text{L}} ^{"}$

The fresh up function may not be available depending on the connected unit model. The functions included in the indoor units may vary. Pressing a button for a function which is not available will cause "NOT AVAILABLE" to be displayed.

Ventilation Mode and Amount

If these are changed using the remote controller depending on the unit model, they cannot be displayed on the central remote controller. To monitor the ventilation mode and amount, check the values on the remote controller.

Timer Number Setting (Fig. 10)

(Only when used with the schedule timer) Using this together with the schedule timer makes it possible to set on and off times four times a day.

[Registration]

 TPressing the "TIMER NO." button causes the number set for timer number 1 to blink.

If no timer setting has been made

" - " will be displayed. Select the desired timer number by pressing the ① TIMER NO." button.



2. In Once the desired timer number is displayed, press the "SET" button.

Press the $(ij)^{-}$ "SET" button within 10 seconds after the timer number is displayed. The display will return to how it was after 10 seconds.



The display for timer number 1

will stop blinking and then timer number 2 will start blinking.

3. IP Select the desired timer number by pressing the "TIMER NO." button.

Once the desired timer number is displayed, 127 press the "SET" button. The display for timer number 2

will stop blinking.



The " $\bigoplus_{No.}$ " display will disappear after 3 seconds.

Select " – " in the timer number when you do not wish to set a timer number.

It is possible to set only one timer number. (The times for turning the unit(s) on and off twice a day can be set with a single timer number.)

Timer Number Setting

- Group control: select the unit in the individual screen and set the timer number.
- Batch control: set the timer numbers for all connected units.
- Zone control: set the timer numbers for all zone-registered units. Call up the zones which you wish to set in the zone screen and set the timer numbers.
- Since the timer number will be set to afterpress priority, the timer number in the last screen set will be valid for the connected units.

Example 1

Setting timer number 1 for unit 1-00 to "1" and timer number 2 to "2" in the individual screen and then setting timer number 1 to "3" and timer number 2 to "4" in the batch screen causes the timer numbers for all units to be set, so timer number 1 for unit 1-00 will be "3" and timer number 2 will be "4".

Example 2

To prevent leaving units on, timer number 1 is set to "5" in the batch screen.

Setting timer number 1 in zone number 1 to "–" in the zone screen after that will change the timer number for zone number 1, so the setting to prevent leaving the units on will be lost for zone number 1 only.

If a timer number is set incorrectly by accident, redo the setting in the desired screen.

• What happens when the timer number on time and off time are set to the same time

When the on time and off time are set to the same time for the same timer number, operation does not change.

When the on time and off time are set to the same time for different timer numbers, the off time is given priority.

When using timer operation, make sure the times do not overlap when setting the program of the schedule timer.

■ Setting the Operation Code (Fig. 11)

[Registration]

1. The Pressing the "CONTROL MODE" button causes the currently set operation code to blink.

Call up the desired code number by pressing the Control "CONTROL MODE" button. Scroll through the code numbers.

2. IP Once the code number is displayed, press the "SET" button.

The display will stop blinking. The operation code display will disappear after 3 seconds.

[The Operation Code Setting]

Group control:	select the unit in the individual screen
	and set the operation code.

- Batch control: set the operation code for all connected units.
- Zone control: set the operation code for all zone-registered units. Call up the zones which you wish to set in the zone screen and set the operation code.

Since the operation code will be set for after-press priority, setting the operation code in the zone and individual screens after setting the operation code in the batch screen, will cause the operation codes set afterwards to be valid.

OPERATION MODE

The following five operation control modes can be selected along with the temperature setting and operation mode by remote controller, for a total of twenty different modes. These twenty modes are set and displayed with control modes of 0 to 19. (For further details, see **EXAMPLE OF OPERATION SCHEDULE** on the next page.)

ON/OFF control impossible by remote controller	Use this mode when operating and stopping from the central remote controller only. (ON/OFF control by the remote controller is disabled.)
Only OFF control possible by remote controller	Use this mode when executing the operation only by the central remote controller, and executing only the stop by remote controller.
Centralized	Use this mode when executing the operation only by the central remote controller, and executing start/stop freely by remote controller during the preset hours.
Individual	Use this mode when executing start/stop both by central remote controller and remote controller.
Timer operation possible by remote controller	Use this mode when executing start/stop by remote con- troller during the preset hours, and not starting operation by the central remote controller at the programmed time of system start.

[HOW TO SELECT THE CONTROL MODE]

- Select whether to accept or to reject the operation from the remote controller regarding the operation, stop, temperature setting and operation mode setting, respectively, and determine the particular control mode from the rightmost column of the table below.
- Example



	Control by remote controller										
Operation mode	Operat	ion				Control					
	Unified operation, individ- ual operation by central remote controller, or opera- tion controlled by timer	Unified stop, individual stop by central remote controller, or timer stop	Stop	Tempera- ture control	Operation mode setting	Control mode					
				Rejection	Acceptance	0					
ON/OFF control			Rejection	Rejection	Rejection	10					
impossible by remote controller			(Example)	Acceptance	Acceptance (Example)	1 (Example)					
	Rejection			(Example)	Rejection	11					
Only OFF control possible by	(Example)			Rejection	Acceptance	2					
		Rejection		Rejection	Rejection	12					
remote controller		(Example)		Acceptance	Acceptance	3					
					Rejection	13					
				Rejection	Acceptance	4					
Centralized	A			Rejection	Rejection	14					
Centralized				Acceptance	Acceptance	5					
			Acceptance	Acceptance	Rejection	15					
	Acceptance		Acceptance	Rejection	Acceptance	6					
Individual		Accentance		Rejection	Rejection	16					
munuuuai		Acceptance		Accentance	Acceptance	7					
				Acceptance	Rejection	17					
				Dejection	Acceptance	8					
Timer operation	Acceptance	Rejection		Rejection	Rejection	18					
possible by remote controller	(During timer at ON position only)	(During timer at OFF position)		Accontance	Acceptance	9					
		,		Acceptance	Rejection	19					

Note) Do not select the timer operation possible without the remote controller. In this case, timer operation is disabled.



EXAMPLE OF OPERATION SCHEDULE

Operation schedule is possible only in conjunction with the schedule timer (optional accessory). Liquid crystal display of schedule timer

ON/OFF control impossible by remote controller





Only OFF control possible by remote controller



■ Setting operation mode (Fig. 12)

[Registration]

- 1. IP Press the OPERATION MODE SELEC-TOR BUTTON. Each time you press this button, the display rotates as shown on the below list.
- List of operations which can be set In the below list, " \bigcirc " refers to the acceptable setting, while " × " refers to the not acceptable setting.

\square	A: Zones and groups with no "⊵, " display.				
Display	Setting	Contents of setting			
	×				
+ ~~	0	Can be set in individual zones or groups			
	0 * 1	Can be set in individual zones or groups			
*	0	Can be set in individual zones or groups			
*	0	Can be set in individual zones or groups			
den or ≸n z or ≁22	O * 1	Can be set in individual zones or groups * 3			
	0 * 1	Can be set in individual zones or groups			
	0	Select this display if you don't wish to set by zone.			

	B: Zones and groups with a "⊵, " display.				
Display	Setting	Contents of setting			
	0	To be set by zone * 2			
* 2-	0	Can be set in individual zones or groups			
	×				
*	×	The displays are shown by group * 4			
*	×	The displays are shown by group * 4			
⊈#∞ or \$\$\$ 2 or * 2	O * 1	Can be set in individual zones or groups * 3			
	0 * 1	Can be set in individual zones or groups			
	0	Select this display if you don't wish to set by zone.			

- *1: Setting may not be acceptable depending on the type of indoor unit with which this unit is connected.
- *2: In zone control, the units run in temperature adjustment mode (heating or cooling) for the outdoor system for the groups registered to those zones. Heating or cooling selection is not available.
- *4: In group control, the units run in temperature adjustment mode (heating or cooling) for the group outdoor system. Heating or cooling selection is not available.
- The Zone consists of the following two cases.

A. Zone without display" 🔄 🙏

The group with master remote controller setting exists in this zone.

Setting the master remote controller enables cool/ heat selection.

Operations other than cool/heat operations can also be set for some operations. For further details, see the list on the left.

No group with master remote controller setting exists in this zone. The cool/heat selection is not available because the master remote controller has not been set. Some operations other than cool/heat operations can be set. For further details, see the list in the left.

See page 20 if the display" [] 🔀 🙏 " is flashing.

- Fan operation can be performed for each zone using the central remote controller even if there is no cooling/heating selection right during cooling or heating. Also, if a Ventiair is connected in the zone, ventilation and ventilation cleaning operation is possible. See the included operating manuals for details.
- When the indoor unit is in heat operation, change the setting to FAN operation through the central remote controller; then, you can switch the fan speed to the extremely low fan speed. Warm air may blow if any other indoor unit belonging to the same system is in heat operation.
- The indoor fan stops during defrost/hot start.
- DRY cannot be set from the central remote controller.

Group monitoring (Fig. 13)

Utilize the group monitor function in each of the following cases:

- 1. Check the malfunction code. (See the next page.)
- 2. Check the group that requires cleaning of the air filter and air cleaner element. (See page 21.)
- 3. Change the setting of the master remote controller. (See page 20.)
- Check the group(s) sharing the same outdoor unit. Or, check the particular group(s) with the master remote controller setting. (See page 20.)
- 5. Check the conditions of other individual groups.

When in zone screen

The zone screen will revert to the individual screen automatically if nothing is done in it for one minute.

[Registration]

- 1. TPress the "ALL/INDIVIDUAL" button to switch to the T "INDIVIDUAL" screen.
- 2. I Using the arrow key, move the

" [] " to select the unit to be monitored. Keeping the button pressed down will move it rapidly.

 \bigcirc The " \square " lights up and the status of that unit is displayed in the LCD. The cursor in the screen Fig. 13 has selected unit 2-06.

Error diagnosing function (Fig. 14)

This central remote controller is provided with a diagnosing function, for when an indoor unit stops due to malfunction. In case of actuation of a safety device, disconnection in transmission wiring for control or failure of some parts, the operation lamp, inspection display and unit No. start to flash; then, the malfunction code is displayed. Check the contents of the display, and contact your DAIKIN dealer because the above signs can give you the idea on the trouble area.



The display " — " flashes under the group No. where the indoor unit that has stopped due to malfunction.

[Registration]

1. IP Press the ARROW KEY BUTTON to call up the group that has stopped due to malfunction.

(2) The unit No. (3) the malfunction code is flashing because of an error failure.



Operation lamp	Maintenance display	Unit No.	Malfunction code	Error content
¢.	•	⋪	64	Indoor air thermistor error
\$	•	⋪	65	Outdoor air thermistor error
÷¢-	•	⋪	68	HVU error (Ventiair dust-collecting unit)
☆	•	\$	6A	Dumper system error
৵	⇒	⋪	6A	Dumper system error + Thermistor error
¢.	•	\$	6F	Simple remote controller error
÷	•	Þ	6Н	Door switch (Ventiair dust-collecting unit), relay harness fault (Ventiair dust-collecting/humidifier unit)
÷Þ	÷	⇒	94	Ventiair internal transmission error (between total enthalpy – fan unit)
৵	⇒	⋪	A0	Indoor unit · external safety device error
÷Þ	÷Þ	⇒	A1	Indoor unit · BEV unit (Sky-Air connection unit) PC board assembly fault
\$	•	⋪	A1	Indoor unit · PC board assembly fault
⇒	⇒	⇒	A3	Indoor unit · Drain level error (33H)
⇒	⇒	⋪	A6	Indoor unit · Fan motor (51F) lock, overload
¢	•	*	Α7	Indoor unit \cdot Fan direction adjustment motor (MA) error
৵	⇒	\$	A9	Indoor unit · BEV unit, electric expansion valve motor (20E) error
÷.	•	\$	AF	Indoor unit · Malfunctioning drain
\$	•	⋪	АН	Indoor unit · Dust-collector error
৵	÷)	\$	AJ	Indoor unit · Insufficient capacity setting, address setting fault

Þ	⊅	৵	C4	Indoor unit · Liquid piping thermistor (Th2) Error (faulty connec- tion, cut wire, short circuit, fault)
¢,	.⇔	⇒	C5	Indoor unit · BEV unit, gas piping thermistor (Th3) Error (faulty connection, cut wire, short circuit, fault)
÷Þ	⇒	⇒	C9	Indoor unit · Intake air thermistor (Th1) Error (faulty connection, cut wire, short circuit, fault)
÷Þ	- `	⇒	CA	Indoor unit · Outlet air thermistor (Th4) Error (faulty connection, cut wire, short circuit, fault)
☆	•	¢	CJ	Indoor unit · remote controller sensor error
÷Þ	.⊅	÷Þ	E0	Outdoor unit · Safety device operation
÷Þ	⇒	÷Þ	E1	Outdoor unit · PC board assembly fault
☆	•	⇒	E1	Outdoor unit · PC board assembly fault
⇒	⇒	৵	E3	Outdoor unit · High-pressure switch fault
⇒	⇒	⇒	E4	Outdoor unit · Low-pressure switch fault
⇒	⇒	⇒	E9	Outdoor unit · Electric expansion valve motor (20E) error
¢	•	⇒	EC	Heat source unit · Intake water temperature inter-lock operation (fan operation)
÷)	⇒	÷	EF	Outdoor unit · Ice thermal storage unit error
⇒	⇒	⇒	F3	Outdoor unit · Discharge piping temperature error
\$÷	•	⇒	H3	Outdoor unit · High-pressure switch operation
⇒	⇒	Þ	H4	Outdoor unit · Low-pressure switch operation
⇒	-≯	⇒	Н9	Outdoor unit · Outdoor air thermistor (Th1) Error (faulty connection, cut wire, short circuit, fault)
☆	•	⇒	H9	Outdoor unit · Outdoor air thermistor (Th1) Error (faulty connection, cut wire, short circuit, fault)
☆	•	÷Þ	НС	Outdoor unit · Water temperature sensor system error
☆	•	৵	HF	Ice thermal storage unit error, ice thermal storage controller error, error in outdoor unit during ice thermal storage operation
÷,	.≯	-⊅	НJ	Outdoor unit · water system fault
৵	- ' Þ	৵	J1	Outdoor unit · pressure sensor error
৵	- ' Þ	⇒	J3	Outdoor unit · Discharge piping thermistor (Th3) Error (faulty connection, cut wire, short circuit, fault)
☆	•	⇒	J3	Outdoor unit · Discharge piping thermistor (Th3) Error (faulty connection, cut wire, short circuit, fault)
৵	- ' Þ	৵	J5	Outdoor unit Intake piping thermistor (Th4) Error (faulty connection, cut wire, short circuit, fault)
৵	-¢-	÷\$	J6	Outdoor unit Heat exchange thermistor (Th2) error
¢	•	∻	J6	Outdoor unit · Heat exchange thermistor (Th2) error Error (faulty connection, cut wire, short circuit, fault)
⇒	-¢-	⇒	J7	Outdoor unit · Header thermistor (Th6) error
⇒	- ' Þ	÷Þ	JA	Outdoor unit · Discharge piping pressure sensor error
৵	⊅	->>	JC	Outdoor unit · Intake piping pressure sensor error
÷.	⇒	÷\$	JF	Outdoor unit · Oil temperature sensor (Th5) system error
☆	•	÷Þ	JH	Outdoor unit \cdot Oil temperature sensor (Th5) system error
৵	- Þ	⋪	L0	Outdoor unit · Inverter system fault
-)	- ` Þ	-⊅	L4	Outdoor unit · Inverter cooler fault
⇒	.⇒	÷	L5	Outdoor unit · Ground circuit for compressor motor, short circuit,

⇒	÷\$	⇒	L6	Outdoor unit \cdot Ground circuit for compressor motor, short circuit
×	÷ þ	-Þ	L8	Outdoor unit · Compressor overload, compressor motor wire disconnection
৵	÷ þ		L9	Outdoor unit · Compressor lock
⇒	÷Þ	⇒	LA	Outdoor unit · Power unit error
	÷Þ	-\$ •	LC	Outdoor unit · Transmission error between inverter and outdoor control unit
⇔ or ●	-≯	-¢-	M1	Central controller: PC board fault
⇔r •	÷Þ	⇒	M8	Transmission error between central controllers
⇔ or ●	.⊅	⇒	MA	Central controller: Incorrect combination
⇔ or ●	÷Þ	. Þ	MC	Central controller: Address setting fault
৵	٠	⇒	P0	Insufficient gas (thermal storage)
⇒	÷Þ	⇒	P1	Outdoor unit · Power voltage imbalance, phase loss
⇒	÷Þ	-¢-	P4	Outdoor unit · Power unit temperature sensor error
÷	•	-\$ Þ	UO	Pressure drop due to insufficient refrigerant, electric expansion valve fault, etc.
৵	÷\$	⇒	U1	Reversed or lost phase
⇒	÷Þ	⇒	U2	Power voltage error, momentary electrical stoppage
÷Þ	÷ þ	-¢-	U4	Transmission error between indoor unit/BEV unit and outdoor/BS unit, Transmission error between outdoor unit and BS unit
৵	.⊅	-¢-	U5	Transmission error between remote controller and indoor control unit
•	☆	•	U5	Remote controller board fault or remote controller setting fault
⇒	-≯	-≯	U6	Transmission error between indoor units
.⇔	Þ	->Þ	U7	Transmission error between outdoor units Transmission error between outdoor unit and ice thermal storage unit
¢.	٠	*	U7	Transmission error between outdoor units (cooling/heating batch, low-noise operation)
*	⇒	•	U8	Transmission error between master remote controller and slave remote controller (slave remote controller error) Incorrect combination of indoor unit and remote controller within a single system (model)
- >	¢	-\$ þ	U9	Transmission error between indoor unit/BEV unit and outdoor unit within a single system Transmission error between BS unit and indoor unit/BEV unit and outdoor unit within a single system
≯	¢	-¢	UA	Incorrect combination of indoor, BS, and outdoor units within a single system (model, number of units, etc.) Incorrect combination of indoor unit and remote controller (remote controller in question) BS unit connection position fault
¢.	٠	×	UC	Central control group numbers overlap
÷	->	-¢-	UE	Transmission error between indoor unit and central controller
-> þ	÷Þ	-> þ	UF	Unset system, incorrect settings between BEV unit and indoor unit
÷	- Þ	-≯	UH	System fault

- error codes (in outline font) do not display "maintenance" and the system will run, but please check the content of the display and contact your dealer.

Setting master remote controller (Fig. 15)

You must set the master remote controller of the operation mode for one of the indoor units, if two or more such indoor units with the remote controller are connected with the outdoor unit where the operation modes such as cool/heat operation and FAN operation can be set by remote controller and central remote controller.

1. Preparations

When you want to fix settings

- Check the particular group with the master remote controller setting for the refrigerant system you wish to reset. (See the below.)
- · Call up the group without the display

" 💽 🙏 " (See page 16.)

The Hold the OPERATION MODE SELECTOR BUTTON down for about four seconds while the above group is being called up.

The display " [], " flashes on the liquid crystal display of the remote controller for all the groups sharing the same outdoor unit or BS unit.

When you turn on the power switch for the first

time, the display" [] time, the display. " flashes.



2. Setting selection right

Pall up the desired group to set the master remote controller, and for press the OPERA-TION MODE SELECTOR BUTTON. The master remote controller is set for this group, and the

display " 💽 🧶 " goes out. The display

"
 "
 "
 "
 appears for the other groups.
 Setting is finished now.

When switching operation

In case of operation switch
 Call up the zone including the group with the setting of master remote controller.

(Zone without the display "

The Press the OPERATION MODE SELECTOR BUTTON several times, and switch to the desired operation mode.

NOTE

 However, the displays " A general and "VENTI-LATION MODE" may apper in some zones, depending on the type on indoor unit with which they are connected. (VENTILATION MODE)

📇 or 🕱 or 🏏

[System Display]

- 1. Test run mode is necessary to display the system display.
- 2. In order to turn on test run mode, select the appropriate air conditioner on the individual screen with the cursor and then set its operation mode to either cooling or heating. (It makes no difference if the air conditioner is running or not running while this operator is being performed.)
- 3. Press the "inspection/test run" button twice to put it into test run mode.
- 4. Pressing the "inspection/test run" button for four or more seconds in test run mode will display IP the "REF CIRCUIT."



Call the unit whose system you wish to look up using the arrow keys.

The " **I** " on all groups in the same system as the displayed group will light up.

Of those, the " **I** " display in all groups which have cooling/heating selection privilege will blink.



In this example, individual units 1-00, 1-03, 1-05, 1-06, 1-07, 2-02, and 2-03 are in the same system, and 1-05 has the cooling/heating selection privilege.

To look up other systems, call up all the units you wish to look up using the arrow keys.

Pressing the inspection/test run button one more time gets rid of the system display and ends it.

The unit will enter the individual screen automatically if nothing is done for one minute in the system display screen.

This function may not be available for all connected outdoor units, in which case "REF CIRCUIT" will blink. It will also not be correctly displayed if DIII-NET extension ADP is used.

■ Display of time to clean (Fig. 16)

This central remote controller displays the time to clean the air filter or air cleaner element for each group or any given group by utilizing two types of signs. The display " 같이, 플라" tells the time to clean the air filter or the air

cleaner element of some group.

If a cleaning sign is displayed

A filter or element in some group is ready to be cleaned.

1. ①[¬] Press the ARROW KEY BUTTON, and search the groups displaying " → " or

" 💒 " (The group may be plural.)

Clean or change the air filter or air cleaner element.

For further details, see the operation manual attached to each indoor unit. (Clean or change the air filter or air cleaner element of all the groups dis-

playing " 🖓 " or " 🖉 ".)

2. ② Press the FILTER SIGN RESET BUT-TON, and the display " → " disappears. (Including all the groups where the air filter has been cleaned.)

NOTE

Be sure to check the display I " J has disappeared at this point. The appearance of the above display is a sign that the air filter or air cleaner element of some group still needs cleaning.

INSTALLATION TABLE

When installing the equipment, mark the zone No. of each group and installation location in the below table.

Setting group No.

(Setting is not possible unless power is activated to both the central remote controller and indoor unit.)

Operated by remote controller

- 1. Activate power to both the central remote controller and indoor unit.
- 2. While in the normal mode, hold down the " 圕" button for a minimum of 4 seconds. The unified ON/ OFF controller will enter the FIELD SET MODE.
- 3. Select the MODE No. " 🔐 " with the " 🗐 " button.
- Use the " " button to select the group No. for each group. (Group No. increases in the order of 1-00, 1-01 ... 1-15, 2-00, ... 8-15.)
- 6. Press "🖑 " to return to the NORMAL MODE.



Operated by simplified remote controller

- 1. Activate power to both the central remote controller and indoor unit.
- 2. Remove the upper part of the remote controller.
- 3. Press the **BS6** BUTTON (field set) on the PC board. The controller will enter the FIELD SET MODE.
- 4. Select the MODE No. " CC " with the BS2 BUT-

TON and BS3 BUTTON (temperature setting).

- 5. Use the BS9 BUTTON (set A) and BS10 BUTTON (set B) to select the group No. for each group. (Group No. increases in the order of 1-00, 1-01 ... 1-15, 2-00, ... 8-15.)
- 6. Press BS7 BUTTON (set/cancel) to set the selected group No.
- 7. Press BS6 BUTTON (field set) to return to the NORMAL MODE.



Zone No.																
Group No.	-00	-01	-02	-03	-04	-05	-06	-07	-08	-09	-10	-11	-12	-13	-14	-15
Indoor unit Quantity of units Controlled by																
Location																
Zone No.																
Group No.	-00	-01	-02	-03	-04	-05	-06	-07	-08	-09	-10	-11	-12	-13	-14	-15
Indoor unit Quantity of units Controlled by																
Location																

Zone No.																
Group No.	-00	-01	-02	-03	-04	-05	-06	-07	-08	-09	-10	-11	-12	-13	-14	-15
Indoor unit Quantity of units Controlled by																
Location																
Zone No.																
Group No.	-00	-01	-02	-03	-04	-05	-06	-07	-08	-09	-10	-11	-12	-13	-14	-15
Indoor unit Quantity of units Controlled by																
Location																

OPTIONAL ACCESSORIES



You can perform the normal operation, take off the malfunction contact point and unified start/stop by contact point, all by connecting this unit with the unification adaptor for computerized control. For further details, ask your DAIKIN dealer.

(a) Unification adaptor for computerized control (b) Central remote controller

DOUBLE CENTRAL REMOTE CONTROLLERS



With two central remote controllers, centralized control (indoor units) is possible from different locations.

(a) Central remote controller
(b) Group No. 1 – 00
(c) Group No. 1 – 15
(d) Group No. 2 – 00
(e) Group No. 4 – 15
(f) A maximum of 64 groups

Note)

• For control alignment and settings for double central remote controllers, contact your dealer.

SPECIFICATIONS

Specifications

Power supply	1 ~ 50/60Hz, 100V – 240V
Power consumption	Max. 8W
Forced ON/OFF input	Continuous "a" contact Contact current: approximately 10mA
Size	180 (W) × 120 (H) × 64.5 (D)
Weight	420g

■ Outline drawings



When using this unit an electric parts box of KJB311A is required. For installation, a steel electric parts box to be embedded is mandatory.



Fig. 9



Fig. 10



Fig. 11



Fig. 12



Fig. 13



Fig. 14



Fig. 15



26

3P124623-1E

14.4 <DCS301C71> Unified ON/OFF Controller

14.4.1 Installation Manual

Please read these "SAFETY CONSIDERATIONS" carefully before installing air conditioning equipment and be sure to install it correctly. After completing the installation, make sure that the unit operates properly during the start-up operation. Please instruct the customer on how to operate the unit and keep it maintained. Also, inform customers that they should store this installation manual along with the operation manual for future reference. This air conditioner comes under the term "appliances not accessible to the general public".
 Meaning of warning, caution and note symbols. WARNING Indication a potentially hazardous situation which, if not avoided, could result in death or serious injury. CAUTION Indication a potentially hazardous situation which, if not avoided, may result in minor or moderate injury. It may also be sued to alert against unsafe practices. NOTE
Ask your dealer or qualified personnel to carry out installation work. Do not try to install the machine by yourself.
Improper installation may result in water leakage, electric shocks or fire. Perform installation work in accordance with this installation manual. Improper installation may result in water leakage, electric shocks or fire.
Be sure to use only the specified accessories and parts for installation work. Failure to use the specified parts may result in water leakage, electric shocks, fire or the unit falling.
Carry out the specified installation work after taking into account strong winds, typhoons or earthquakes. Improper installation work may result in the equipment falling and causing accidents.
Make sure that a separate power supply circuit is provided for this unit and that all electrical work is carried out by qualified personnel according to local laws and regulations and this installation manual. An insufficient power supply capacity or improper electrical construction may lead to electric shocks or fire.
Make sure that all wiring is secured, the specified wires and used, and no external forces act on the terminal connections or wires. Improper connections or installation may result in fire.
When wiring the power supply and connecting the remote controller wiring and transmission wiring, position the wires so that the electric parts box lid can be securely fastened. Improper positioning of the electric parts box lid may result in electric shocks, fire or the terminals overheating.
Before touching electrical parts, turn off the unit.
Ground the air conditioner. Do not connect the ground wire to gas or water pipes, lightning rod or a telephone ground wire. Incomplete grounding may result in electric shocks.
When installing or relocating the system, be sure to keep the refrigerant circuit free from substances other than the specified refrigerant (R410A), such as air.
Do not reconstruct or change the settings of the protection devices. If the pressure switch, thermal switch, or other protection device is shorted and operated forcibly, or parts other than those specified by Daikin are used, fire or explosion may result.
Do not touch the switch with wet fingers. Touching a switch with wet fingers can cause electric shock.
Install an leak circuit breaker, as required. If an leak circuit breaker is not installed, electric shock may result.
Do not install the air conditioner or the remote controller in the following locations: (a) where a mineral oil mist or an oil spray or vapor is produced, for example in a kitchen Plastic parts may deteriorate and fail off or result in water leakage. (b) where corrosive gas, such as sulfurous acid gas, is produced Corroding copper pipes or soldered parts may result in refrigerant leakage. (c) near machinery emitting electromagnetic waves Electromagnetic waves may disturb the operation of the control system and result in a malfunction of the equipment. (d) where flammable gases may leak, where there are carbon fiber or ignitable dust suspensions in the air, or where volatile flammables such as thinner or gasoline are handled. Operating the unit in such conditions may result in fire.
Be very careful about product transportation.
Safely dispose of the packing materials. Packing materials, such as nails and other metal or wooden parts, may cause stabs or other injuries. Tear apart and throw away plastic packaging bags so that children will not play with them. If children play with a plastic bag which was not torn apart, they face the risk of suffocation.
Do not turn off the power immediately after stopping operation. Always wait at least five minutes before turning off the power. Otherwise, water leakage and trouble may occur.
▲ NOTE
Install the indoor and outdoor units, power supply wiring and connecting wires at least 3.5ft. away from televisions or radios in order to prevent image interference or noise. (Depending on the radio waves, a distance of 3.5ft. may not be sufficient enough to eliminate the noise.)
Remote controller (wireless kit) transmitting distance can result shorter than expected in rooms with electronic fluorescent lamps. (inverter or rapid start types) Install the indoor unit as far away from fluorescent lamps as possible.
This unit is a class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.
Dismantling of the unit, treatment of the refrigerant, oil and eventual other parts, should be done in accordance with the relevant local and national regulations.



 When u 	5			5	ON/OFF con	roller in conjunction with e	other optio	nal controllers for	r centralized
Patterr Unified ON/OF		f optional controllers Central remote cont		lized control Schedule timer	Linifi	Connector for setting r ed ON/OFF controller		roller (X1A) Setting I remote controller	
onlined Orwool					Set one to "Us	ed" and all the rest to "Not used			
1 to	16	1 to 4		1		et all to "Not used". ed" and all the rest to "Not used	".	(Note)	"Not used
		1 to 4		1		et all to "Not used".		(Note)	"Not used
These sw	os. 1–00 throug	to set group contro	d in the		-00 ~ 7-15 8-00	it is shipped from the fact - 8-15 NOTE) Indicates the position of switches.	-	Me la	
	After setting, atta	ach the number sea display sticker, as Example) n the case of 1-00 t	al applic shown ir	able to respective on the diagram below	ontrol range	of the	<u>F</u> vitch for se <u>Co</u> r	(To hold reset) g master controlle Forced reset switc etting each addres ntrol mode select MAIN/SUB change	ch ss or
locations. In One of the Setting of The unifier sequential indoor uni operation. To switch s	n this kind of set-u two unified ON/C the sequential o d ON/OFF contrr operation functi ts on in 2-second (Sequential opera	p, it is necessary to se DFF controllers (1)-(2 peration function oller is equipped wit ion that sequentially d intervals during ur eration is factory set ation ON or OFF, set	et the MAI) is set to turns hified to "ON.")	Sequential operation "ON" WS. (Factory set)	itch. er is set to "SL on Wile While	B". Unified ON/OFF Controller (1)	outton, perform	orm forced reset.	Unified ON controller
started 5 Control m	l simultaneousl ode selector (D	y. You cannot there	fore cou	nt on a capacity rec		by power supply equipme			
Control mode	Ir	ndividual		Centralized		Timer operation possib remote controller	le by		ntrol impossible te controller
Content	unified ON/OFF remote controlle	er.	contr contr	operated by unified ON roller, operation/stop is fi rolled by remote controll bed by unified ON/OFF of	reely er until	When used in conjunction with sch operation/stop is controlled freely b controller during the set time but op not available when schedule timer	y remote peration is	Operation/stop is co ON/OFF controller of (This unit can not be remote controller.)	ontrolled by unifie only.
DS2 setting	(Factory set)								CONTROL MODE
NOTES) •	indicates the p	accition of quitaboo			1				





Before starting test operation, supply power to the indoor units, outdoor units, and unified ON/OFF controller and press the ON/OFF BUTTON. If the operation lamp flashes, it indicates a malfunction in the indoor unit of the applicable group. If the display of " _____ " flashes, it indicates a malfunction in the optional controllers for centralized control. Check for such malfunctions.

 NOTES
 • For test operation of indoor and outdoor units, refer to the installation manual attached with the outdoor unit.

After turning the power supply ON, if the unit does not accept operation for two minutes or more with the display of "______" flashing, check the following points.
 Check that setting of the connector for setting master controller is correct.

Check that the group No. for centralized control has been set.

1P126474-1B

14.4.2 Operation Manual

	TY CONSIDERATIONS" carefully before installing air conditioning equipment and be sure to install it correctly. After completing the installation, make sure that the unit
operates properly during	the start-up operation. ner on how to operate the unit and keep it maintained.
	the on new to operate the unit and neep in instantion. at they should store this installation manual along with the operation manual for future reference.
This air conditioner come	s under the term "appliances not accessible to the general public"
Meaning of warning, caut	ion and note symbols.
A WARNING	ndication a potentially hazardous situation which, if not avoided, could result in death or serious injury.
	ndication a potentially hazardous situation which, if not avoided, may result in minor or moderate injury. It may also be sued to alert against unsafe practices.
	Indication situation that may result in equipment or property-damage-only accidents.
	sets handy so that you can refer to them if needed. Iransferred to a new user, make sure to hand over this operation manual to the new user.
In order to avoid electri	c shock, fire or injury, or if you detect any abnormality such as smell of fire, turn off power and call your dealer for instructions.
	allation of the air conditioner. rformed by yourself may result in a water leakage, electric shock, and fire.
	rovement, repair, and maintenance.
Incomplete improvement,	repair, and maintenance may result in a water leakage, electric shock, and fire.
	attachment of equipment or accessories could result in electric shock, short-circuit, leaks, fire or other damage to the equipment. essories made by Daikin which are specifically designed for use with the equipment and have them installed by a professional.
	e and reinstall the air conditioner or the remote controller. ay result in a water leakage, electric shock, and fire.
	it or the remote controller get wet.
It may cause an electric s	shock or a fire.
Never use flammable sp It may cause a fire.	pray such as hair spray, lacquer or paint near the unit.
Never replace a fuse wi	th that of wrong ampere ratings or other wires when a fuse blows out.
Use of wire or copper wir Never inspect or service	re may cause the unit to break down or cause a fire.
	error to perform this work.
Cut off all electric wave	
Do not wash the air con Electric shock or fire may	ditioner or the remote controller with excessive water.
	nditioner or the remote controller at any place where flammable gas may leak out.
If the gas leaks out and s	tays around the air conditioner, a fire may break out.
Do not touch the switch	with wet fingers.
Do not touch the switch	
Do not touch the switch	with wet fingers. et fingers can cause electric shock.
Do not touch the switch	with wet fingers.
Do not touch the switch Touching a switch with w	with wet fingers. et fingers can cause electric shock.
Do not touch the switch Touching a switch with we After a long use, check If they are left in a damage	The unit stand and fitting for damage.
Do not touch the switch Touching a switch with we After a long use, check If they are left in a damag Do not allow a child to r	The with wet fingers. et fingers can cause electric shock.
Do not touch the switch Touching a switch with we After a long use, check If they are left in a damag Do not allow a child to r Falling or tumbling may re Do not let children play	The with wet fingers. et fingers can cause electric shock.
Do not touch the switch Touching a switch with we After a long use, check If they are left in a damag Do not allow a child to r Falling or trumbling may re Do not let children play If they touch the unit care	the unit stand and fitting for damage. Jed condition, the unit may fall and result in injury. mount on the unit or avoid placing any object on it. assult in injury. In and result in injury.
Do not touch the switch Touching a switch with with After a long use, check If they are left in a damag Do not allow a child to Falling or tumbling may re Do not let children play If they touch the unit care Do not place a flower ve	The with wet fingers. et fingers can cause electric shock.
Do not touch the switch Touching a switch with we After a long use, check If they are left in a damag Do not allow a child to r Falling or tumbling may re Do not let children play If they touch the unit care Do not place a flower we Water may enter the unit, Never touch the interna	The with wet fingers. The tingers can cause electric shock.
Do not touch the switch Touching a switch with we After a long use, check If they are left in a damag Do not allow a child to r Falling or tumbling may re Do not let children play If they touch the unit care Do not place a flower va Water may enter the unit, Never touch the interna Do not remove the front p	The with wet fingers. The tringers can cause electric shock. CAUTION CAUTION the unit stand and fitting for damage. field condition, the unit may fall and result in injury. mount on the unit or avoid placing any object on it. assult in injury. on and around the unit. elessly, it may result in injury. asse and anything containing water. causing an electric shock or fire.
Do not touch the switch Touching a switch with we After a long use, check If they are left in a damag Do not allow a child to ro Falling or tumbling may re Do not let children play If they touch the unit care Do not let ca flower ve Water may enter the unit, Never touch the interna Do not preve the front p For checking and adjustir Avoid placing the contr	n with wet fingers. et fingers can cause electric shock.
Do not touch the switch Touching a switch with we After a long use, check If they are left in a damag Do not allow a child to r Falling or tumbling may re Do not let children play If they touch the unit care Do not place a flower ve Water may enter the unit, Never touch the interna Do not remove the front p For checking and adjustir Avoid placing the contr	n with wet fingers. et fingers can cause electric shock.
Do not touch the switch Touching a switch with we After a long use, check If they are left in a damag Do not allow a child to o Falling or tumbling may re Do not let children play If they touch the unit care Do not let ca flower ve Water may enter the unit, Never touch the interna Do not preae a flower ve Water coming inside the Do not prate the air or Failure to observe could d	the unit stand and fitting for damage. led condition, the unit may fall and result in injury. mount on the unit or avoid placing any object on it. esult in injury. on and around the unit. esses and anything containing water. causing an electric shock or fire. I parts of the controller. banel. Some parts inside are dangerous to touch, and a machine trouble may happen. g the internal parts, contact your dealer. toiler in a spot splashed with water. machine may cause an electric leak or may damage the internal electronic parts. bronditioner when using a room fumigation - type insecticide. cause the chemicals to become deposited in the unit, which could endanger the health of those who are hypersensitive to chemicals.
Do not touch the switch Touching a switch with we After a long use, check If they are left in a damag Do not allow a child to r Falling or tumbling may re Do not let children play If they touch the unit and Do not place a flower ve Water may enter the unit, Never touch the interna Do not remove the front p For checking and adjustir Avoid placing the contr Water coming inside the Do not operate the air of Failure to observe could Safely dispose of the pu	the unit stand and fitting for damage. led condition, the unit may fall and result in injury. mount on the unit or avoid placing any object on it. esult in injury. on and around the unit. esses and anything containing water. causing an electric shock or fire. I parts of the controller. banel. Some parts inside are dangerous to touch, and a machine trouble may happen. g the internal parts, contact your dealer. toiler in a spot splashed with water. machine may cause an electric leak or may damage the internal electronic parts. bronditioner when using a room fumigation - type insecticide. cause the chemicals to become deposited in the unit, which could endanger the health of those who are hypersensitive to chemicals.
Do not touch the switch Touching a switch with we After a long use, check If they are left in a damag Do not allow a child to r Falling or tumbling may re Do not let children play If they touch the unit care Do not let children play If they touch the unit care Do not let children play If they touch the unit and Never touch the interna Do not remove the front p For checking and adjustir Avoid placing the contr Water coming inside the Do not operate the air of Fallure to observe could Safely dispose of the pr Packing materials, such a Tear apart and throw awa	n with wet fingers. et fingers can cause electric shock.
Do not touch the switch Touching a switch with we After a long use, check If they are left in a damag Do not allow a child to r Falling or tumbling may re Do not let children play If they touch the unit care Do not place a flower ve Water may enter the unit, Never touch the interna Do not precedent the interna Do not remove the front p For checking and adjustir Avoid placing the contr Vater coming inside the Do not operate the air of Failure to observe could Safely dispose of the p Packing materials, such a Tear apart and throw ave	In with wet fingers. et fingers can cause electric shock.
Do not touch the switch Touching a switch with we After a long use, check If they are left in a damag Do not allow a child to i Falling or tumbling may re Do not let children play If they touch the unit care Do not place a flower va Water may enter the unit, Never touch the interna Do not remove the front p For checking and adjustir Avoid placing the contr Water coming inside the Do not operate the air of Failure to observe could Safely dispose of the p Packing materials, such a Tear apart and throw awa Do not the pow Always wait at least five r	tet fingers can cause electric shock.
Do not touch the switch Touching a switch with we After a long use, check If they are left in a damag Do not allow a child to r Falling or tumbling may re Do not let children play If they touch the unit care Do not let children play If they touch the unit care Po not place a flower va Water may enter the unit, Never touch the interna Do not remove the front p For checking and adjustir Avoid placing the contr Water comig inside the Do not operate the air of Failure to observe could Safely digmaterials, such a Tear apart and throw awa Do not turn off the pow Always wait at least five r	n with wet fingers. et fingers can cause electric shock.
Do not touch the switch Touching a switch with we After a long use, check If they are left in a damag Do not allow a child to r Falling or tumbling may re Do not let children play If they touch the unit care Do not let children play If they touch the unit care Po not place a flower va Water may enter the unit, Never touch the interna Do not remove the front p For checking and adjustir Avoid placing the contr Water comig inside the Do not operate the air of Failure to observe could Safely digmaterials, such a Tear apart and throw awa Do not turn off the pow Always wait at least five r	et lingers can cause electric shock.
Do not touch the switch Touching a switch with we After a long use, check If they are left in a damag Do not allow a child to r Falling or tumbling may re Do not let children play If they touch the unit care Do not let children play If they touch the unit care Po not place a flower va Water may enter the unit, Never touch the interna Do not remove the front p For checking and adjustir Avoid placing the contr Water comig inside the Do not operate the air of Failure to observe could Safely digmaterials, such a Tear apart and throw awa Do not turn off the pow Always wait at least five r	et lingers can cause electric shock.
Do not touch the switch Touching a switch with we After a long use, check If they are left in a damag Do not allow a child to r Falling or tumbling may re Do not let children play If they touch the unit care Do not let children play If they touch the unit care Po not place a flower va Water may enter the unit, Never touch the interna Do not remove the front t For checking and adjustir Avoid placing the contr Water comig inside the Do not operate the air c Failure to observe could Safely dispace of the p Packing materials, such a Tear apart and throw awa Do not turn off the pow Always wait at least five r	et lingers can cause electric shock.
Do not touch the switch Touching a switch with we After a long use, check If they are left in a damag Do not allow a child to r Falling or tumbling may re Do not let children play If they touch the unit care Do not let children play If they touch the unit care Do not place a flower va Water may enter the unit, Never touch the interna Do not remove the front p For checking and adjustir Avoid placing the contr Water comig nisde the Do not operate the air of Failure to observe could Safely dispose of the p Packing materials, such a Tear apart and throw awe Do not turn off the pow Always wait at least five r The appliance is not int The remote controller s	In with wet fingers. et fingers can cause electric shock.
Do not touch the switch Touching a switch with we After a long use, check If they are left in a damag Do not allow a child tor Falling or tumbling may re Do not let children play If they touch the unit care Do not let children play If they touch the interna Do not remove the front p For checking and adjustir Avoid placing the contr Water comig inside the Do not operate the air of Failure to observe could Safely dispose of the p Packing materials, such a Tear apart and throw awe Do not trun off the pow Always wait at least five r The appliance is not int The remote controller materials	In vitik wet fingers. It fingers can cause electric shock.
Do not touch the switch Touching a switch with we After a long use, check If they are left in a damag Do not allow a child to r Falling or tumbling may re Do not let children play If they touch the unit care Do not place a flower ve Water may enter the unit, Never touch the interna Do not remove the front p For checking and adjustin Avoid placing the contr Water coming inside the Do not operate the air of Failure to observe could Safely dispose of the pir Packing materials, such a Tear apart and throw awe Do not turn off the pow Always wait at least five r The appliance is not int The remote controller s Never press the button The remote controller ma	In with wet fingers. It ingers can cause electric shock.
Do not touch the switch Touching a switch with with a switch with with the switch with with with the switch with with with a switch with with with a switch with with with a switch with with with a switch with a switch with a switch with a switch with a switch with a switch with a switch with a switch with a switch with a switch witch	In with wet fingers. It fingers can cause electric shock.
Do not touch the switch Touching a switch with we After a long use, check If they are left in a damag Do not allow a child to r Falling or tumbling may re Do not let children play If they touch the unit care Do not let children play If they touch the unit are Do not tel children play If they touch the unit are Do not to the children play If they touch the unit are To checking and adjustir Avoid placing the contr Water coming inside the Do not operate the air co Failure to observe could Safely dispose of the pow Always wait at least fiver or The appliance is not int The remote controller sa Never press the button The remote controller ma Never pull or twist the e It may cause the unit to m Do not place the contro	In the wet fingers. It ingers can cause electric shock. The unit stand and fitting for damage. the unit stand and fitting for damage. the unit may fail and result in injury. mount on the unit may fail and result in injury. mount on the unit or avoid placing any object on it. suit in injury. on and around the unit. dessity. It may result in may fail and result in injury. on and around the unit. dessity. It may result in may. see and anything containing water. causing an electric shock or fire. I parts of the controller. and. Some parts inside are dangerous to touch, and a machine trouble may happen. ig the internal parts, contact your dealer. Olier in aspot splashed with water. machine may cause an electric leak or may damage the internal electronic parts. Somidlicer when using a room fungiastion - type insecticide. causes the chemicals to become deposited in the unit, which could endanger the health of those who are hypersensitive to chemicals. asking materials. as nalis and other metial or wooden parts, may cause status or other injuries. wy placts packaging bages of that fulform will not play with them. If children play with the plastic bag which was not forn apart, they face the risk of suffocation. er immediately after stopping operation. hindutes before turning off the power. Otherwise, water leakage and trouble may occur. ended for use by young children or infirm persons without supervision. theoud be installed in such away that children cannot play with it. for the remote controller. allunction. It errores and the remote controller. allunction. It errores to direct sunlight. discolared, falling to display the data. ter operation panel with beainster, binner, chemical dustcloth, etc.
Do not touch the switch Touching a switch with with With the switch Touching a switch with with After a long use, check if they are left in a damag Do not allow a child to if Falling or tumbling may re Do not let children play if they touch the unit care Do not place a flower va Water may enter the unit, Never touch the interna Do not remove the front p For checking and adjustir Avoid placing the contr Water coming inside the Do not operate the air of Failure to observe could Safely dispose of the p Packing materials, such Tear apart and throw awa Do not turn off the pow Always wait at least five r The appliance is not int The remote controller ma Never pull or twist the el t may cause the unit ton The panel may get discol cloth.	in the weit fingers. It ingers can cause electric shock.



The following four patterns of control mode can be set.

When used in conjunction with schedule timer, operation/stop is controlled freely by remote controller during the set time but operation is not available when schedule timer is ON.	Operation/stop is controlled by unified ON/OFF controller only. Indoor units can not be operated/ stopped by remote controller.
	0N
	L N

When used in conjunction with central remote controller, the control modes of the central remote controller has the priority.

4 DISPLAY OF MALFUNCTION

Flashing of UNDER HOST COMPUTER INTEGRATED CONTROL lamp

 Flashing of lamps indicates malfunctions. Contact your Daikin dealer.

 When turning power supply on, all lamps may light and UNDER HOST COMPUTER INTEGRATED CONTROL lamp may flash and not accept the operation for about on minute.

 These conditions are not malfunctions.

 States of lamps
 Contents of malfunctions

 Flashing of operation lamp
 Indicates malfunctions in the indoor unit in the group where the operation lamp is flashing.

Indicates malfunctions in optional controllers for centralized control

2P12647	5-1
---------	-----

14.5 <DST301BA61> Schedule Timer Controller

Enables you to connect and control weekly schedule for up to 128 indoor units all together.



- Simultaneous control of up to 128 indoor units is managed by a week schedule.
- The start and stop time for twice a day can be set for the week in increments of 1 minute.
- By combining with a central remote controller and schedule timer, you can construct a system that matches the size and use of the building.
- If used together with a central remote controller, you can set up to 8 schedule patterns which can be distributed among zones as desired using the central remote controller.
- Is equipped with a compensation function for power failure up to 48 hours.
- Features thin design of a mere 16 mm in thickness. (Uses JIS recessed box for 2.)
- Wiring can be up to 1 km in length. Applicable wiring methods include bus and star in addition to crossover type.
- Can be used in combination with other D-BACS equipment.

14.5.1 Specifications / Dimensions SPECIFICATIONS

Specifications

Display of time	12-hour digital display
Clock cycle type	Quartz clock type
Clock accuracy	Within ± 30 sec./month (environmental temperature from 15° C to 35° C)
Timer programming	Two pairs of programmed time for both system start and system off can be set in units of minute for each day of the week
Power failure compensation time	Approximately 48 hours for a single occurrence of power failure (clock with No. of programmed time)
Size	120 (W) \times 120 (H) \times 53 (D) mm (Width/Height/Depth)
Weight	Approximately 210g

Outline drawings





Specifications and appearance subject to change without notice.

14.5.2 Installation Manual

Please read these "SAFETY CONSIDERATIONS" carefully before installing air conditioning equipment and be sure to install it correctly. After completing the installation, make sure that the unit operates properly during the start-up operation. Please instruct the customer on how to operate the unit and keep it maintained. Also, inform customers that they should store this installation manual along with the operation manual for future reference. This air conditioner comes under the term "appliances not accessible to the general public".
Meaning of warning, caution and note symbols.
 ▲ WARNINGIndication a potentially hazardous situation which, if not avoided, could result in death or serious injury. ▲ CAUTIONIndication a potentially hazardous situation which, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices.
▲ NOTE
⚠ WARNING
Ask your dealer or qualified personnel to carry out installation work. Do not try to install the machine by yourself. Improper installation may result in water leakage, electric shocks or fire.
Perform installation work in accordance with this installation manual.
Improper installation may result in water leakage, electric shocks or fire. Be sure to use only the specified accessories and parts for installation work.
Failure to use the specified parts may result in water leakage, electric shocks, fire or the unit falling.
Carry out the specified installation work after taking into account strong winds, typhoons or earthquakes. Improper installation work may result in the equipment falling and causing accidents.
Make sure that a separate power supply circuit is provided for this unit and that all electrical work is carried out by qualified personnel according to local laws and regulations and this installation manual. An insufficient power supply capacity or improper electrical construction may lead to electric shocks or fire.
Make sure that all wiring is secured, the specified wires and used, and no external forces act on the terminal connections or wires. Improper connections or installation may result in fire.
When wiring the power supply and connecting the remote controller wiring and transmission wiring, position the wires so that the electric parts box lid can be securely fastened. Improper positioning of the electric parts box lid may result in electric shocks, fire or the terminals overheating.
Before touching electrical parts, turn off the unit.
Ground the air conditioner. Do not connect the ground wire to gas or water pipes, lightning rod or a telephone ground wire. Incomplete grounding may result in electric shocks.
When installing or relocating the system, be sure to keep the refrigerant circuit free from substances other than the specified refrigerant (R410A), such as air.
Do not reconstruct or change the settings of the protection devices. If the pressure switch, thermal switch, or other protection device is shorted and operated forcibly, or parts other than those specified by Daikin are used, fire or explosion may result.
Do not touch the switch with wet fingers. Touching a switch with wet fingers can cause electric shock.
Install an earth leak circuit breaker, as required. If an earth leak circuit breaker is not installed, electric shock may result.
 Do not install the air conditioner or the remote controller in the following locations: (a) where a mineral oil mist or an oil spray or vapor is produced, for example in a kitchen Plastic parts may deteriorate and fall off or result in water leakage. (b) where corrosive gas, such as sulfurous acid gas, is produced Corroding copper pipes or soldered parts may result in refrigerant leakage. (c) near machinery emitting electromagnetic waves (c) near machinery emitting electromagnetic waves
Electromagnetic waves may disturb the operation of the control system and result in a malfunction of the equipment. (d) where flammable gases may leak, where there are carbon fiber or ignitable dust suspensions in the air, or where volatile flammables such as thinner or gasoline are handled. Operating the unit in such conditions may result in fire.
CISPR 22 Class A Warning. This is a class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.








Refer to the installation manual attached to the outdoor unit.

In case the schedule timer is used individually and the wiring is changed after the system has been operated, reset the power after energizing for more than five minutes. It may not be possible to control the unit from the schedule timer.

3P162015-1A

14.5.3 Operation Manual



1



[1]



SAFETY CONSIDER-ATIONS

Please read these "SAFETY CONSIDER-ATIONS " carefully before installing air conditioning equipment and be sure to install it correctly. After completing the installation, make sure that the unit operates properly during the start-up operation.

Please instruct the customer on how to operate the unit and keep it maintained.

Also, inform customers that they should store this installation manual along with the operation manual for future reference.

This air conditioner comes under the term " appliances not accessible to the general public ".

Meaning of warning, caution and note symbols.

- WARNING......Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.
- CAUTION Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices.

NOTE Indicates situation that may result in equipment or property-damage-only accidents.

Keep these warning sheets handy so that you can refer to them if needed.

Also, if this equipment is transferred to a new user, make sure to hand over this operation manual to the new user.

— 🥂 WARNING -

In order to avoid electric shock, fire or injury, or if you detect any abnormality such as smell of fire, turn off power and call your dealer for instructions.

Ask your dealer for installation of the air conditioner.

Incomplete installation performed by yourself may result in a water leakage, electric shock, and fire.

Ask your dealer for improvement, repair, and maintenance.

Incomplete improvement, repair, and maintenance may result in a water leakage, electric shock, and fire.

Improper installation or attachment of equipment or accessories could result in electric shock, short-circuit, leaks, fire or other damage to the equipment. Be sure only to use accessories made by Daikin which are specifically designed for use with the equipment and have them installed by a professional.

Ask your dealer to move and reinstall the air conditioner or the remote controller. Incomplete installation may result in a water leakage, electric shock, and fire.

Never let the indoor unit or the remote controller get wet.

It may cause an electric shock or a fire.

Never use flammable spray such as hair spray, lacquer or paint near the unit. It may cause a fire.

Never replace a fuse with that of wrong ampere ratings or other wires when a fuse blows out.

Use of wire or copper wire may cause the unit to break down or cause a fire.

Never inspect or service the unit by yourself.

Ask a qualified service person to perform this work.

Cut off all electric waves before maintenance.

Do not wash the air conditioner or the remote controller with excessive water. Electric shock or fire may result.

Do not install the air conditioner or the remote controller at any place where flammable gas may leak out.

If the gas leaks out and stays around the air conditioner, a fire may break out.

Do not touch the switch with wet fingers. Touching a switch with wet fingers can cause electric shock.

CISPR 22 Class A Warning:

This is a class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

- 🕂 CAUTION

After a long use, check the unit stand and fitting for damage.

If they are left in a damaged condition, the unit may fall and result in injury.

Do not allow a child to mount on the unit or avoid placing any object on it.

Falling or tumbling may result in injury.

Do not let children play on and around the unit.

If they touch the unit carelessly, it may result in injury.

Do not place a flower vase and anything containing water.

Water may enter the unit, causing an electric shock or fire.

Never touch the internal parts of the controller.

Do not remove the front panel. Some parts inside are dangerous to touch, and a machine trouble may happen.

For checking and adjusting the internal parts, contact your dealer.

Avoid placing the controller in a spot splashed with water.

Water coming inside the machine may cause an electric leak or may damage the internal electronic parts.

Do not operate the air conditioner when using a room fumigation - type insecticide.

Failure to observe could cause the chemicals to become deposited in the unit, which could endanger the health of those who are hypersensitive to chemicals.

Safely dispose of the packing materials. Packing materials, such as nails and other metal or wooden parts, may cause stabs or

other injuries. Tear apart and throw away plastic packaging bags so that children will not play with them. If children play with a plastic bag which was not torn apart, they face the risk of suffocation.

Do not turn off the power immediately after stopping operation.

Always wait at least five minutes before turning off the power. Otherwise, water leakage and trouble may occur.

The appliance is not intended for use by young children or infirm persons without supervision.

The remote controller should be installed in such away that children cannot play with it.

Never press the button of the remote controller with a hard, pointed object. The remote controller may be damaged.

Never pull or twist the electric wire of the remote controller.

It may cause the unit to malfunction.

Do not place the controller exposed to direct sunlight.

The LCD display may get discolored, failing to display the data.

Do not wipe the controller operation panel with benzine, thinner, chemical dustcloth, etc.

The panel may get discolored or the coating peeled off. If it is heavily dirty, soak a cloth in water-diluted neutral detergent, squeeze it well and wipe the panel clean. And wipe it with another dry cloth.

Dismantling of the unit, treatment of the refrigerant, oil and eventual other parts, should be done in accordance with the relevant local and national regulations.

CONTENTS

SAFETY CONSIDERATIONS	1
FEATURES AND FUNCTIONS	3
NAMES AND FUNCTIONS OF	
OPERATING SECTION	4
OPERATION	5
Setting present time	5
Setting no. of programmed time	6

Change and cancellation of no. of	
programmed time	7
Manual operation	
Operation control code	9
Error diagnosing function	9
QUESTION AND ANSWER	10
SPECIFICATIONS	12
Specifications	12
Outline drawings	12

FEATURES AND FUNCTIONS



• When used in conjunction with central remote controller (Optional Accessory) The operation controlled by programmed time can be set for up to eight different patterns (timer No. 1 - 8). Each schedule pattern can be also selected.

NAMES AND FUNCTIONS OF OPERATING SECTION (Fig. 1, 2)

		_
	UNIFIED OPERATION BUT-	
1	TON ""	!
•	Press this button to perform the unified operation regardless of the No. of pro-	
	UNIFIED STOP BUTTON	1
2		
	Press this button to perform the unified stop regardless of the No. of pro- grammed time.	
-	OPERATION LAMP (RED)	1
3	The light turns on during the operation of the indoor unit.	
	DISPLAY " 🖱 🎖 " (TIME NO.)	
4	Displays the time No. only when used in conjunction with the central remote controller.	1
	DISPLAY	
5		1
ວ		
	The light turns on when the timer is programmed.	-
•	DISPLAY " OFF " (HOLIDAY SETTING)	
6	Lights above the day of the week set as holiday. The operation controlled by timer is not available on that day.	1
	,	
7	DISPLAY " — " (SETTING OF DAYS OF A WEEK)	
7	DISPLAY " — " (SETTING	1
7	DISPLAY "—" (SETTING OF DAYS OF A WEEK) Flashes below the day of the week pro-	1





OPERATION

■ Setting present time (Fig. 3)

(Example) In case of setting Friday, 5:30 p.m.

Image: Optimized Content of Con

(NOTE)

• The present time needs adjusting in case of turning power supply on for the first time or the occurrence of power failure over the period of 48 hours or more.



2. ⁽²⁾ Press the BUTTON FOR SELECTING DAYS OF A WEEK. Each time the button is pressed, the day display shifts to the right. (NOTE)

The display " MON " follows the display " SUN."

	CLOCK	
I	CLOCK	

Set the day to Friday.

3. ⁽³⁾ Set the time with the HOUR/ MINUTE BUTTON. Each time the HOUR/MINUTE BUTTON is pressed, the display is put forward minute by minute and hour by hour. When the button is kept pressed, the display is put forward continuously.

(NOTES)

- After becoming " AM 11:00 ", when the button is pressed, the display becomes " PM 0:00 ".
- After becoming " 59 " (minute), when the button is pressed, the display becomes " 00 " (minute).



Set the time to 5:30 p.m.

 G Press the TIMER ON BUTTON the moment the time signal of TV, radio, telephone, etc. is heard. The mark ":" flashes, and the clock starts.

	FRI
CLOCK	рм 930

Press the TIMER ON BUTTON in tune with the time signal at 5:30 p.m.

(NOTES)

- The clock used is of 12-hour type.
- When you turn power supply on, the system may display " 🖧 " for about one minute and not start to operate after all the liquid crystal displays appear at a time.
- If the CLOCK ADJUSTING BUTTON is pressed by mistake, press it again to return to the original state. As the clock does not stop, the time indicated by the clock is kept correct. In case of power failure within 48 hours, the clock keeps operating by utilizing the built-in battery.

Setting no. of programmed time (Fig. 4)

(Example) Time No. 5 (to be programmed only when used in conjunction with the central remote controller)

> Monday to Friday: Operating from 8:45 a.m. till 5:00 p.m. Operating from 5:15 p.m. till 11:00 p.m.

- Saturday and Sunday: Setting the whole day stop operation (application for holidays) controlled by programmed time.
- Image: Constant of the second state of the second sta

PROGRAM J START

- 2. Press the TIME No. BUTTON, and select the desired number. (NOTE)
 - Unless used in conjunction with the central remote controller, The TIME No. is not displayed and can not be selected.

Select the TIME No. 5.



3. ^(J) Press the BUTTON FOR SELECTING DAYS OF A WEEK, and set the proper day of the week. Each time you press it, the flashing display of days of a week shifts to the right.

Ð NO.		J START THU FRI SAT SUN		0 OFF -:
[CLOCK	Рм 5:30	SET2 ON	O ^{off} -:

Set to Monday.

- (1) Setting programmed time
- 4. ⁽⁴⁾ Set the programmed time of system start 1 by using the HOUR/ MINUTE BUTTON. Each time the HOUR/MINUTE BUTTON is pressed, the display is put forward minute by minute and hour by hour. When the button is kept pressed, the display is put forward continuously.

Ð NO.		START SET LON OFF
	CLOCK PN	råi SET2 ON O OFF S:30 -: ► -:)

Set the "PROGRAMMED TIME OF SYSTEM START 1" at 8:45 a.m.

 5. 5 Press the TIMER ON BUTTON, and set the programmed time of system start 1. Each time you press it, the next area to be set flashes.

(NOTE)

Set the other programmed time in the same procedure.



- (2) Set the next day of the week. Set the day of the week to Tuesday, and copy the program of the previous day (Monday). In the same procedure, set the day of the week to Wednesday through Friday in sequence.
- 6. ^(J) Press the BUTTON FOR SELECTING DAYS OF A WEEK and set the following day. Press the BUTTON FOR COPYING PRO-GRAM OF PREVIOUS DAY. The same program as that of the immediately preceding day of the week is set.

(NOTE)

Repeat each procedure 3 - 5 in the above when not copying the contents of the previous day.

(3) Holiday setting

 C Press the BUTTON FOR SELECTING DAYS OF A WEEK and set one or more days of the week as holiday. Press the HOLI-DAY SETTING BUTTON, and the display " OFF " is displayed at the top of the day of the week. If you press it again, the display returns to the original state.

Ð NO.		J START	111/	0 off -:
	CLOCK	рм 5:30	SET2 ON -: ►	O ^{off} -:

Set Saturday and Sunday as holidays.

8. IP Press the PROGRAMMING START BUTTON, and finish the program setting.

(NOTES)

- Unless the button is pressed within 20 minutes, the display will automatically revert back to the original state. In this case, setting contents up to the point where the TIMER ON BUTTON (or HOL-IDAY SETTING BUTTON or BUTTON FOR COPYING PROGRAM OF PREVI-OUS DAY) is pressed will only take effect.
- The display "PROGRAM J START" and the display of days of a week "—" disappears.

- The flashing display goes off, and the No. of programmed time of the present day is displayed. Then the operation controlled by timer starts.
- The operation controlled by timer is executed even while the program is being set.

Ð NO.	START SET1 ON O OFF OFF MON TUE WED THU FRI SAT SUN 845 ► 5	°FF :00
	CLOCK PM 5:30 SET2 ON O 5:15 ► 11	

This is the end of the setting example.

Change and cancellation of no. of programmed time (Fig. 5)

(Example) Time No. 3 (to be set only when used in conjunction with the central remote controller)



- 2. In Press the TIME No. BUTTON, and select the desired No.

⊕ №.	MÔN TỦE WẾĐ	OFFOFF SET1 ON OFF AM FRISATSUN 8:45 ► 5:00
	CLOCK	FRI 5:00 SET2 ON O OFF PM 5:00 S: /S ► / /:00

Select the time No. 3.

3. ^(J) Press the BUTTON FOR SELECTING DAYS OF A WEEK, and set the day of the week to be changed. The set No. of programmed time of the day of the week is displayed.

	OFF OFF AM BYSE STUD
СLOCK	FŘI SET2 ON O OFF PM 6:00 S: IS ► I I:00

Set the day to Wednesday.

A. Change/cancel partially

4. ^(J) Press the TIMER ON BUTTON and change, and the display of programmed time flashes. Each time you press it, the next area to be set flashes.

Ð NO.	3	่ง	นานี้ม คลิเ	OFF OFF 8 7 SAT SUN	SET1 ON M 8:45 ►	9 ¶F. 5:00
		CLOCK	FÅ PM	6:00	SET2 ON PM S: /S ►	0 off :00

Shift to the display "PROGRAMMED TIME OF SYSTEM OFF 1".

5. ⁽³⁾ Press the HOUR/MINUTE BUTTON and change the programmed time. Press the TIMER ON BUTTON, and finalize the setting of change.

(1) NO. 1		OFF OFF	SET1 ON #M 8:45 ►	0 ¶. 1:00
	CLOCK	_{Рм} 6:00	SET2 ON PM 5: /5 ►	

Change the "PROGRAMMED TIME OF SYSTEM OFF 1" to 7:00 p.m.

6. ^(C) Press the PROGRAM CAN-CELING BUTTON, and cancel the programmed time. If you press it again, display returns to the original state. Press the TIMER ON BUTTON to finalize the cancellation.

NO. J NON TỦE WỆD THU FẦI SẮT SỦN SUN	°N O °FF PM 'S► '7:00
CLOCK PM 6:00 5:1	

Shift to the "PROGRAMMED TIME OF SYSTEM START 2".

OFF OFF STI ON OF AM NON TŮE WÊD THU FRI SÂT SUN B:45 ► 7: NO	D D D D

Set the "PROGRAMMED TIME OF SYSTEM START 2" to program cancellation.

In the same procedure, cancel the programmed time of system off 2.

B. Cancel the whole

7. The Press the BUTTON FOR SELECTING DAYS OF A WEEK, and shift to the day of the week to be canceled. Then, press the HOL-IDAY SETTING BUTTON, the display " OFF " appears at the top of the particular day of the week. The programmed time is canceled. If you press the button again, the display returns to the original state.

Ð NO.	OFF OFF SETION OFF
	FŘI CLOCK PM 5:00 -: ► -:

Shift the day of the week to Thursday to set as a holiday.

8. ^(I) Press the PROGRAMMING START BUTTON. The program setting is now finished.

(NOTES)

- Unless the button is pressed within 20 minutes, the display will automatically revert back to the original state. In this case, setting contents to the point where the TIMER ON BUTTON (or HOLIDAY SETTING BUTTON or BUTTON FOR COPYING PROGRAM OF PREVIOUS DAY) is pressed will only take effect.
- To continue the change/cancellation, do not press the PROGRAMMING START BUTTON until all change/cancellation are completed.
- The operation controlled by timer is executed even while the program is being set.

■ Manual operation (Fig. 6)

This schedule timer enables the operation/stop by pressing the UNIFIED OPERATION/STOP BUTTON in addition to the operation controlled by timer (operation/stop according to the programmed time) at any time.

- 1. CP Press the UNIFIED OPERA-TION BUTTON, and the OPERA-TION LAMP turns on.
- 2. Press the UNIFIED STOP BUT-TON, and the OPERATION LAMP is turned off.

(NOTES)

- The operation automatically stops according to the programmed time of system off even during the manual operation. In the meantime, the operation starts automatically according to the programmed time of system start even during the stop of operation.
- If the unit is used in conjunction with other optional controllers for centralized control, the OPERATION LAMP of the unit that is not under operation control may be turned on or off a few minutes behind schedule. This shows that the signal is being exchanged, and does not indicate any failure.

Operation lamp

 Turn on: The light turns on when any of the indoor units is in operation whether the operation is controlled by timer or by hand.
 Turn off: The light turns off when all the

indoor units stop.

Operation control code

Two different types of operation control codes can be selected when this kit is used independently (when not used in conjunction with the central remote controller, unified ON/OFF controller, etc.).

Individual

In case where the operation/stop is controlled by both schedule timer and remote controller.

Centralized

The operation is controlled by the schedule timer alone, and the operation/stop is controlled freely with the remote controller during the programmed time.

(NOTES)

- For current settings, contact your DAIKIN dealer.
- To change settings, contact your DAIKIN dealer.

Do not change settings yourself.

Error diagnosing function (Fig. 7)

This schedule timer is provided with the malfunction diagnosing function. The malfunction code flashes if there occurs any malfunction in communication, etc. between and among the optional controllers for centralized control. In addition, the operation lamp also flashes if there occurs any malfunction in communication with the indoor unit. Check the contents of the display and contact your DAIKIN dealer because the signals give you the idea of the trouble area.

Opera- tion lamp	Malfunc- tion code	Contents of mal- function
Turn off	M1	Failure of PC board of schedule timer. Fixes The following causes are possi- ble. Check each one. 1. PC board prob- lems
Turn on or off	M8	Malfunction of transmission between each optional controllers for centralized con- trol. Fixes Check all central devices which are connected (e.g., power supply, transmission wiring, etc.).
Turn on or off	MA	 Improper combination of optional controllers for centralized control. Fixes The following causes are possible. Check each one. Are all central devices combined correctly? Is the master central connector attached to two or more central devices? Are there 128 or more indoor units connected?

Turn on or off	МС	 Address failure of schedule timer. Fixes The following causes are possible. Check each one. Do the control range addresses in the central remote controller overlap? Do the control range addresses in the on/off controller overlap? Are there 2 or more schedule timers connected?
Flash	UE	Malfunction of transmission between indoor unit and optional controllers for cen- tralized control. Fixes Inspect all indoor units which are dis- playing an error (e.g., power supply, transmission wiring, etc.).
Flash	_	Malfunction in indoor unit (Refer to the malfunction codes of the indoor remote controller, while also read the " CAUTION FOR SERVICING " attached to the indoor unit.)

QUESTION AND ANSWER

Question	Answer
It is possible to make settings twice a day, but is it possible to make only the " off " setting? (To avoid forget- ting to turn the unit off.)	Yes. Press the PRO- GRAM CANCELING BUTTON in the "ﷺ ^{1™} " section in order to set it to " oFF".

Is it possible to set times which straddle days?	Yes, it is possible. Example: Start operation at 5:00 a.m. on Sunday Stop operation at 6:00 p.m. on Monday	The TIME NO. is not displayed.	The following causes are possible. 1. The TIME NO. is not displayed when using the schedule timer alone. (It can be set if using the central remote controller at the same time.)
	abox pM 5:30 ST2 ON OFF	The display remains	
The unit does not turn on even though the set " on " time has come. (When using the schedule timer alone)	The following causes are possible. 1. Are the " on " time and the " off " time set to the same time?	"	The following causes are possible. 1. Is the day set to a holiday?
The unit does not turn on even though the set " on " time has come. (When using the unit with a central remote controller)	 The following causes are possible. Check each one. 1. Was the timer number set with the central remote controller? Was an incorrect timer number set? 2. Is another timer no. set with the central remote controller set for " off " at the same time? 3. Is the operation code set to " remote control permission timer " using the central remote controller or the on/off controller? 	I cannot set " central manage- ment priority " or " after-push prior- ity " with the schedule timer.	The following causes are possible. 1. Is a central remote controller or on/off controller also installed? * The priority order of the operation codes depends on the central devices which are installed. The below operation codes are set. • Schedule timer Central remote controller is used as well Operation code of the central remote controller • Schedule timer
The unit oper- ates even though that day is set as a holiday. (When using the unit with a central remote controller)	The following causes are possible. 1. Is another timer num- ber set with the cen- tral remote controller set for " on " at the same time? (If two timer numbers are set, make sure that the settings for holidays and working days do not overlap between the different timer numbers.)		 Schedule timer On/off controller is used as well Operation code of the on/off control- ler Schedule timer Central remote controller On/off controller is used as well Operation code of the central remote controller

11

3P124623-5C

14.6 <KDAP25A56/71A> Air Discharge Adapter



3P399034-1

14.7 <KDBD63A160> Shield Plate for Side Plate



[Fig. 2]



3P400742-1

14.8 <KRCS01-4B> Remote Sensor

Notes

- Please check applicable kit model name by catalog etc.
- When installed on SkyAir Round-flow type models, the dehumidification by detection of humidity does not operate.

Accessories

Check the following accessories.



Mounting

1) Selection of mounting location.

The thermistor for temperature detection is incorporated into the remote sensor. Select the mounting location taking the following cautions into account.

1 Where the average temperature of an air conditioned room can be detected.

- (2) Where it is not exposed to the direct sunlight.
- ③ Where it is not influenced by other heat sources.
- (4) Where it is not exposed to the direct discharge air from the air conditioner.
- (5) Where it is not exposed to the outdoor air infiltrated into the room by opening the door.

2) Mounting

• Remove the cover of the sensor box.

(T

about 6mm width flat blade screw driver Insert a flat blade screw driver into the sensor box concave part (2 locations).
 Remove the cover pushing up the nail to the cover of the sensor box.

<Cautions>

Do not push the nail powerfully with a narrow flat blade screw driver, because you may break off the nail.





Conduct cooling and heating operation test after the sensor is mounted and the wiring is completed.

3K019189-1D

14.9 <KPW937E4> Air Direction Adjustment Grille





3P397163-1

14.10 <KPW063A4> Air Direction Adjustment Grille



2 Installation of air direction adjustment grille)



3P398171-1

14.11 <KKG067A41> Back Protection Wire Net



3P397444-1

14.12 <KKG063A42> Back Protection Wire Net



2P403095-1

14.13 <FTDBHMS, FTDBHML, KEH067A41E, KEH063A4E> Drain Pan Heater

perates properly duri		ully before installing the drain pan heartion.	ater. After completing	g the installation, check if the uni
leaning of DANGER ,	• I I			
		nently hazardous situation which, if esult in death or serious injury.		Indicates a potentially hazardou situation which, if not avoided, may result in minor or moderate
		ally hazardous situation which, if not ult in death or serious injury.		
After completing the All phases of the fiel manufacturer's instru- This product is a hea unit from freezing.	installation, make s d-installation, incluc uctions and must co ater designed to me	installation manual for future referenc sure that the unit operates properly du ling, but not limited to, electrical, pipin mply with national, state, provincial, a It snow that is blown into the product od on a high stand if this product is u	uring the startup ope ng, and safety, must l and local codes. from the outside to p	be done in accordance with prevent the drain pan of the outdo
	ER			
The temperature of the	ne heater unit will becc	nout wearing gloves. ome high when the heater is turned on. Ill result in burns or injury.		
	ling			
		zed technician to install the pro	oduct.	
•		sult in water leakage, an electric shock, o		
		Suit in water leakage, an electric shock, of	r fire.	
• The product mu	st be installed ad	ccording to the instructions give	en in this manual	
• The product mu The Incomplete insta	st be installed ad	ccording to the instructions give ould result in water leakage, an electric sh	en in this manual	
• The product mu The Incomplete insta • Use the supplie	st be installed ad llation of the product c d or specified ins	ccording to the instructions give ould result in water leakage, an electric sh stallation parts.	en in this manual lock, or fire.	
 The product mu The Incomplete insta Use the supplie Use of other parts co 	st be installed ad llation of the product c d or specified ins uld result in the unit be	ccording to the instructions give ould result in water leakage, an electric sh stallation parts. ecoming loose and falling, water leakage, o	en in this manual lock, or fire.	
• The product mu The Incomplete insta • Use the supplie Use of other parts co • Turn off the pow	st be installed ac llation of the product o d or specified ins uld result in the unit be ver supply at the	ccording to the instructions give ould result in water leakage, an electric sh stallation parts.	en in this manual lock, or fire. electric shock, or fire.	
• The product mu The Incomplete insta • Use the supplie Use of other parts co • Turn off the pow Touching any electric	st be installed ad lation of the product o d or specified ins uld result in the unit be rer supply at the al parts may with the p	ccording to the instructions give ould result in water leakage, an electric sh stallation parts. ecoming loose and falling, water leakage, o time of installation.	en in this manual lock, or fire. electric shock, or fire. ctric shock.	
• The product mu The Incomplete insta • Use the supplie Use of other parts co • Turn off the pow Touching any electric • Use specified wii Wires connected or fi	st be installed ac lation of the product of d or specified ins uld result in the unit be rer supply at the al parts may with the p res. Connect and xed improperly could in	ccording to the instructions give ould result in water leakage, an electric sh stallation parts. ecoming loose and falling, water leakage, of time of installation. Hower supply turned on could result in elect fix the wires so that the wires will esult in terminal overheating, an electric s	en in this manual ock, or fire. electric shock, or fire. tric shock. not put improper hock, or fire.	force on the terminal junction
The product mu The Incomplete insta Use the supplie Use of other parts co Turn off the pow Touching any electric Use specified win Wires connected or fi When wiring an	st be installed ac llation of the product of d or specified ins uld result in the unit be rer supply at the al parts may with the p res. Connect and xed improperly could in d connecting the	ccording to the instructions give ould result in water leakage, an electric sh stallation parts. ecoming loose and falling, water leakage, of time of installation. bower supply turned on could result in elect fix the wires so that the wires will esult in terminal overheating, an electric so indoor and outdoor units, care	en in this manual ock, or fire. electric shock, or fire. tric shock. not put improper hock, or fire.	force on the terminal junction
 The product mu The Incomplete insta Use the supplie Use of other parts co Turn off the pow Touching any electric Use specified win Wires connected or fi When wiring an put improper for 	st be installed ad lation of the product of d or specified insuld result in the unit be ver supply at the al parts may with the p res. Connect and txed improperly could in d connecting the rece on the struct	ccording to the instructions give ould result in water leakage, an electric sh stallation parts. ecoming loose and falling, water leakage, of time of installation. bower supply turned on could result in elect fix the wires so that the wires will esult in terminal overheating, an electric so indoor and outdoor units, care	en in this manual ock, or fire. electric shock, or fire. etric shock. not put improper shock, or fire. fully arrange the	force on the terminal junction wiring so that they will not
 The product mu The Incomplete insta Use the supplie Use of other parts co Turn off the pow Touching any electric Use specified win Wires connected or fi When wiring an put improper for 	st be installed ad lation of the product of d or specified insuld result in the unit be ver supply at the al parts may with the p res. Connect and txed improperly could in d connecting the rece on the struct	ccording to the instructions give ould result in water leakage, an electric sh stallation parts. ecoming loose and falling, water leakage, of time of installation. bower supply turned on could result in elect fix the wires so that the wires will esult in terminal overheating, an electric so indoor and outdoor units, care ures.	en in this manual ock, or fire. electric shock, or fire. etric shock. not put improper shock, or fire. fully arrange the	force on the terminal junction wiring so that they will not
 The product mu The Incomplete insta Use the supplie Use of other parts co Turn off the pow Touching any electric Use specified win Wires connected or fi When wiring an put improper for 	st be installed ac lation of the product of d or specified insuld result in the unit be ver supply at the al parts may with the p res. Connect and the xed improperly could in d connecting the rece on the struct of wires. Incomplete com	ccording to the instructions give ould result in water leakage, an electric sh stallation parts. ecoming loose and falling, water leakage, of time of installation. bower supply turned on could result in elect fix the wires so that the wires will esult in terminal overheating, an electric so indoor and outdoor units, care ures.	en in this manual ock, or fire. electric shock, or fire. etric shock. not put improper shock, or fire. fully arrange the	force on the terminal junction wiring so that they will not
The product mu The Incomplete insta Use the supplie Use of other parts co Turn off the pow Touching any electric Use specified win Wires connected or fi When wiring an put improper foo Install covers over the CAUT	st be installed ac lation of the product of d or specified insuld result in the unit be ver supply at the al parts may with the p res. Connect and take a improperly could in d connecting the rece on the struct wires. Incomplete com	coording to the instructions give ould result in water leakage, an electric sh stallation parts. accoming loose and falling, water leakage, of time of installation. sower supply turned on could result in elect fix the wires so that the wires will result in terminal overheating, an electric s indoor and outdoor units, care ures. ver installation could result in terminal over	en in this manual ock, or fire. electric shock, or fire. etric shock. not put improper shock, or fire. fully arrange the	force on the terminal junction wiring so that they will not
 The product mu The Incomplete insta Use the supplie Use of other parts co Turn off the pow Touching any electric Use specified win Wires connected or fit When wiring an put improper for Install covers over the CAUT Wear protective 	st be installed ad lation of the product of d or specified insuld result in the unit be ver supply at the al parts may with the p res. Connect and take at improperly could in d connecting the rce on the struct wires. Incomplete con ION gloves at the tim	coording to the instructions give ould result in water leakage, an electric sh stallation parts. accoming loose and falling, water leakage, of time of installation. sower supply turned on could result in elect fix the wires so that the wires will result in terminal overheating, an electric s indoor and outdoor units, care ures. ver installation could result in terminal over	en in this manual ock, or fire. electric shock, or fire. etric shock. not put improper shock, or fire. fully arrange the	force on the terminal junction wiring so that they will not
 The product mu The Incomplete insta Use the supplie Use of other parts co Turn off the pow Touching any electric Use specified win Wires connected or fit When wiring an put improper for Install covers over the CAUT Wear protective Touching the suction Do not install the 	st be installed ad lation of the product of d or specified insuld result in the unit be ver supply at the al parts may with the p res. Connect and take at improperly could in d connecting the rece on the struct wires. Incomplete could ION gloves at the tim mouth or aluminum fir e product in place	coording to the instructions give ould result in water leakage, an electric sh stallation parts. ecoming loose and falling, water leakage, of time of installation. sower supply turned on could result in elect fix the wires so that the wires will esult in terminal overheating, an electric s indoor and outdoor units, care ures. ver installation could result in terminal over he of installation. of the outdoor unit may result in injury. ces where there is danger of ex	en in this manual lock, or fire. electric shock, or fire. stric shock. not put improper hock, or fire. fully arrange the rheating, an electric sh	force on the terminal junction wiring so that they will not ock, or fire.
 The product mu The Incomplete insta Use the supplie Use of other parts co Turn off the pow Touching any electric Use specified win Wires connected or fit When wiring an put improper for Install covers over the Mear protective Touching the suction Do not install the If the gas leaks and the 	st be installed ad lation of the product of d or specified insuld result in the unit be ver supply at the al parts may with the p res. Connect and taken at porter and the unit of connecting the rce on the structure wires. Incomplete con ION gloves at the tim mouth or aluminum fin e product in place uilds up around the unit	coording to the instructions give ould result in water leakage, an electric sh stallation parts. accoming loose and falling, water leakage, of time of installation. bower supply turned on could result in elect fix the wires so that the wires will result in terminal overheating, an electric s indoor and outdoor units, care ures. ver installation could result in terminal over he of installation. to the outdoor unit may result in injury. ces where there is danger of exp it, it may catch fire.	en in this manual lock, or fire. electric shock, or fire. stric shock. not put improper hock, or fire. fully arrange the rheating, an electric sh	force on the terminal junction wiring so that they will not ock, or fire.
 The product mu The Incomplete insta Use the supplie Use of other parts co Turn off the pow Touching any electric Use specified win Wires connected or fit When wiring an put improper for Install covers over the CAUT Wear protective Touching the suction Do not install the If the gas leaks and the 	st be installed ad lation of the product of d or specified insult result in the unit be ver supply at the al parts may with the p res. Connect and take at improperly could in d connecting the rece on the struct wires. Incomplete could low gloves at the tim mouth or aluminum fir e product in place uilds up around the ur top plate of the other	coording to the instructions give ould result in water leakage, an electric sh stallation parts. ecoming loose and falling, water leakage, of time of installation. sower supply turned on could result in elect fix the wires so that the wires will result in terminal overheating, an electric s indoor and outdoor units, care ures. ver installation could result in terminal over the of installation. of the outdoor unit may result in injury. ces where there is danger of exp it, it may catch fire.	en in this manual lock, or fire. electric shock, or fire. stric shock. not put improper hock, or fire. fully arrange the rheating, an electric sh	force on the terminal junction wiring so that they will not ock, or fire.
 The product mu The Incomplete insta Use the supplie Use of other parts co Turn off the pow Touching any electric Use specified win Wires connected or fi When wiring an put improper for Install covers over the CAUT Wear protective Touching the suction Do not install the If the gas leaks and the The sharp edge of the Do not install the 	st be installed ad lation of the product of d or specified insuld result in the unit be ver supply at the al parts may with the p res. Connect and fixed improperly could in d connecting the rece on the structure wires. Incomplete cou- ling gloves at the time mouth or aluminum fir e product in place uilds up around the ur top plate of the e top plate may cause e outdoor unit in de and touch the interr	coording to the instructions give ould result in water leakage, an electric sh stallation parts. ecoming loose and falling, water leakage, of time of installation. sower supply turned on could result in elect fix the wires so that the wires will esult in terminal overheating, an electric s indoor and outdoor units, care ures. ver installation could result in terminal over the of installation. of the outdoor unit may result in injury. ces where there is danger of exp it, it may catch fire.	en in this manual lock, or fire. electric shock, or fire. stric shock. not put improper shock, or fire. ifully arrange the rheating, an electric sh posure to inflamm emoving the top p ay nest in the out	force on the terminal junction wiring so that they will not ock, or fire. nable gas leakage. late.

¢				
Accessories				
	KEH067A41E KEH063A4E FTDBHMS FTDBHML	KEH067A41E KEH063A4E FTDBHMS FTDBHML		
A Drain pan heater	1 1	E Installation manual (multi-language) 1 1		
B M4 piercing screw	3 6	F Electric wiring diagram label 1 1		
© Binding band	1 1	G Information label 1 1		
Sealing material	1 2	Appearance of the (A) drain pan heater may differ from some models.		
	I]		
Тоо	Is Require	d for Installation		
• Electric drill • \operatorname{1}	/8 inch (ø3.2mm) drill	Phillips screwdriver Nippers		
Ir	nstallation	Procedure (1)		
Be sure to check that the power	supply of the product is tu	urned off.		
Some stages in the installation proceed model of outdoor unit. Refer to the inst relevant model. Type A models : RX09/12, RXN09/ Type B models : RX15/18/24, RXN Type C models : 2/3/4MXS, 2/3MX	12, RXL09/12 18/24, RXL15	Electric wiring diagram label		
1. Remove each compo	onent of	Front plate		
the outdoor unit.	Fort	type B and C models Top plate		
 1) Remove the top plate. 2) Affix the (F) electric wiring diag where there is enough space a the back of the top plate. 3) Remove the screws from the p wire mesh if one is fitted. (2 sc (For type B and C models only 4) Remove the front plate. 5) Remove the anti-drip cover. (For type B and C models only 	gram label available on protective prews) /)	(F) Electric wiring diagram label		
 6) Affix the () information label r manufacture's label. The appearance of the outdoo the number of screws may diffimodels. Screw types for each compone indicated as below. No icon: Hexagon tapping screw : Truss head tapping sc	or unit and ier from some ent are ew	View A Protective wire mesh		









3P421082-1C

14.14 <KPS067A41> Snow Hood (Intake Side Plate)





2 Appearance of the snow hood (intake side plate) following installation)



3P436077-1

14.15 <KPS067A42> Snow Hood (Intake Rear Plate)




3P436078-1

14.16 <KPS067A44> Snow Hood (Outlet)



Installing the snow hood (outlet)





3P436079-1

14.17 <KPS063A41> Snow Hood (Intake Side Plate)





3P436071-1

14.18 <KPS063A44> Snow Hood (Intake Rear Plate)





2 Appearance of the snow hood (intake rear plate) after installation)



3P436072-1

14.19 <KPS063A47> Snow Hood (Outlet)





3P436073-1



- Ask a qualified installer or contractor to install this product. Do not try to install the product yourself. Improper installation can result in water or refrigerant leakage, electrical shock, fire or explosion.
 - Use only those parts and accessories supplied or specified by Daikin. Ask a qualified installer or contractor to install those parts and accessories. Use of unauthorized parts and accessories or improper installation of parts and accessories can result in water or refrigerant leakage, electrical shock, fire or explosion.
 - Read the user's manual carefully before using this product. The user's manual provides important safety instructions and warnings. Be sure to follow these instructions and warnings.

If you have any enquiries, please contact your local importer, distributor and/or retailer.

Cautions on product corrosion

1. Air conditioners should not be installed in areas where corrosive gases, such as acid gas or alkaline gas, are produced. 2. If the outdoor unit is to be installed close to the sea shore, direct exposure to the sea breeze should be avoided. If you need to install the outdoor unit close to the sea shore, contact your local distributor.