EDUS041129





Engineering Data SPLIT

- Cooling Only / Heat Pump -

FTXS-L Series







DAIKIN AC (AMERICAS), INC.

Split Type Air Conditioners FTXS-L Series

Single Split Duct-Free System		
Cooling Only	FTXS30LVJU FTXS36LVJU	RKS30LVJU RKS36LVJU
Heat Pump	FTXS30LVJU FTXS36LVJU	RXS30LVJU RXS36LVJU

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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
FTXS30LVJU	RKS30LVJU	
FTXS36LVJU	RKS36LVJU	1 φ, 208 - 230 V, 60 Hz
FTXS30LVJU	RXS30LVJU	Τ ψ, 206 - 230 Ϋ, 60 Η2
FTXS36LVJU	RXS36LVJU	

Power Supply Intake ; Outdoor Unit

Note:

2. Functions

Basic Function Inverter (with Inverter Power Control) • • • • ·<	Category	Functions	FTXS30/36LVJU RKS30/36LVJU	FTXS30/36LVJU RXS30/36LVJU	Category	Functions	FTXS30/36LVJU RKS30/36LVJU	FTXS30/36LVJU RXS30/36LVJU
Operation Limit for Cooling ("FDB) 11.6	Basic Function	Inverter (with Inverter Power Control)	٠	•		Air-Purifying Filter	—	—
Operation Compressor Comprest		Operation Limit for Cooling (°FDB)			Clean	Photocatalytic Deodorizing Filter	_	_
PAIR-Control Image: Compression Image: Compression <thimage: compression<="" th=""> Image: Compres</thimage:>		Operation Limit for Heating (°FWB)						_
Swing Compressor • • Relax Compressor - - Reluctance D Motor • • Comfortable Anflow Power-Airflow Dual Louvers • • Power-Airflow Dual Louvers • • - Power-Airflow Diffuser - - - Power-Airflow Diffuser - - - Wide-Angle Fins (Vertical Blades) • • - Verteal Auto-Swing (Up and Down) • • - - Horizontal Auto-Swing (Right and Left) • • - - Fielability & Durability • • • • Comfort Auto Fan Speed • • • • Indoor Unit Quiet Operation • • • • • NIGHT SET Mode • • • • • Indoor Unit Quiet Operation • • • • • Indoor Unit Quiet Operation (Manual) • •		PAM Control	٠	•			•	•
Rotary Compressor - - Reluctance DC Motor • • Airllow Power-Airlow Duver (Horizontal Blade) - Power-Airlow Diffuser - - Power-Airlow Diffuser - - Wide Angle Fins (Vertical Blades) • • Vertical Auto-Swing (Up and Down) • • Horizontal Auto-Swing (Right and Left) • • 3-D Airlow • • Comfort Auto Fas Speed • Indoor Unit Quiet Operation • • NIGHT ZUET Mode (Automatic) - - NIGHT QUIET Mode (Automatic) - - NICHT RUEIGENT EVE Operation • • Nitcle Defosting - - Nitcle Defosting - - Notower Selection - - Notexthare State State St	Compressor	Oval Scroll Compressor	_	—		Air Filter (Prefilter)	•	•
Reluctance DC Motor Image: Motor		Swing Compressor	•	•		Wipe-Clean Flat Panel	•	•
Comfortable Anflow Power-Airflow Dual Louvers - <td></td> <td>Rotary Compressor</td> <td>_</td> <td>_</td> <td></td> <td>Washable Grille</td> <td>—</td> <td>—</td>		Rotary Compressor	_	_		Washable Grille	—	—
Airflow Power-Airflow Dual Louvers • • Good-Sleep Cooling Operation - - Power-Airflow Diffuser -		Reluctance DC Motor	•	•		MOLD PROOF Operation	—	—
Power-Aritiow Dial Louvers Image Good-Step Cooling Operation Image Good-Step Cooling Operation Image Image Good-Step Cooling Operation Image Image <thimage< th=""> Image <thimage<< td=""><td></td><td>Power-Airflow Louver (Horizontal Blade)</td><td> </td><td> </td><td></td><td>Heating Dry Operation</td><td>_</td><td>_</td></thimage<<></thimage<>		Power-Airflow Louver (Horizontal Blade)				Heating Dry Operation	_	_
Wide-Angle Fins (Vertical Blades) • • 24-Hour ON/OFF TIMER • • Vertical Auto-Swing (Up and Down) • • NIGHT SET Mode • • Bornal Auto-Swing (Right and Left) •	Airflow	Power-Airflow Dual Louvers	٠	•		Good-Sleep Cooling Operation		-
Vertical Auto-Swing (Up and Down) Image: Nicht Set Mode Image: Nicht Set Mode<		Power-Airflow Diffuser		_	Timer	WEEKLY TIMER	•	٠
Horizontal Auto-Swing (Right and Left) Image: Construct of the second seco		Wide-Angle Fins (Vertical Blades)	•	•		24-Hour ON/OFF TIMER	•	٠
3-D Airflow • <td< td=""><td></td><td>Vertical Auto-Swing (Up and Down)</td><td>•</td><td>•</td><td></td><td>NIGHT SET Mode</td><td>•</td><td>٠</td></td<>		Vertical Auto-Swing (Up and Down)	•	•		NIGHT SET Mode	•	٠
Self-Diamow Self-Diagnosis (Digital, LED) Display Image: Comport Control Comfort Control Auto Fan Speed Image: Comport Control Image: Comport Control Image: Comport		Horizontal Auto-Swing (Right and Left)	٠	٠		Auto-Restart (after Power Failure)	•	•
COMFORT AIRFLOW Operation •<		3-D Airflow		٠		Self-Diagnosis (Digital, LED) Display	•	•
Control Auto Pain Speed • • Heat Exchanger • • Indoor Unit Quiet Operation • • • Multi-Split / Split Type Compatible - - NIGHT QUIET Mode (Automatic) - <td></td> <td colspan="2">COMFORT AIRFLOW Operation</td> <td>•</td> <td>Durability</td> <td>Wiring Error Check Function</td> <td>_</td> <td>_</td>		COMFORT AIRFLOW Operation		•	Durability	Wiring Error Check Function	_	_
Indoor Unit Quiet Operation •		Auto Fan Speed	•	•			•	•
Outdoor Unit Quiet Operation (Manual) • • INTELLIGENT EYE Operation • • Quick Warming Function (Preheating Operation) - • Hot-Start Function - • Automatic Defrosting - • Program Dry Function - • Program Dry Function • • Fan Only • • Lifestyle Convenience New POWERFUL Operation - - Noretre POWERFUL Operation - - - Inverter POWERFUL Operation - - - Inverter POWERFUL Operation - - - Priority-Room Setting - - - Priority-Room Setting - - - Proirity-Room Setting - - - COOL / HEAT Mode Lock - - - HOME LEAVE Operation - - - Indoor Unit ON/OFF Button • - - R/C with Back Light • - - -		Indoor Unit Quiet Operation	•	•	Flexibility		_	_
INTELLIGENT EYE Operation • • Quick Warming Function (Preheating Operation) • Hot-Start Function • Automatic Defrosting • Operation Automatic Operation Automatic Operation • Program Dry Function • • Fan Only • • Inverter POWERFUL Operation Inverter POWERFUL Operation Priority-Room Setting Inverter POWERFUL Operation Priority-Room Setting COOL / HEAT Mode Lock HOME LEAVE Operation Indoor Unit ON/OFF Button Signal Receiving Sign R/C with Back Light		NIGHT QUIET Mode (Automatic)		_		H/P, C/O Compatible Indoor Unit	•	٠
Quick Warming Function (Preheating Operation) - • Hot-Start Function - • Automatic Defrosting - • Operation Automatic Operation - • Program Dry Function • • • Program Dry Function • • • Fan Only • • • • Lifestyle Convenience New POWERFUL Operation (Non-Inverter) - - - Inverter POWERFUL Operation COOL / HEAT Mode Lock - - Remote Controller • • HOME LEAVE Operation COOL / HEAT Mode Lock - - - Outerelease • • HOME LEAVE Operation COOL / HEAT Mode Lock - - Controller Wirel (Option) • • HOME LEAVE Operation COOL / HEAT Mode Lock - - Controller Vireless • • HOME LEAVE Operation Receiving Sign R/C with Back Light • • • • • • Indoor Unit ON/OFF Button • • • • • • • •		Outdoor Unit Quiet Operation (Manual)	•	•		Flexible Power Supply Correspondence	—	—
(Preheating Operation) - • Hot-Start Function - • Automatic Defrosting - • Operation Automatic Operation - • Program Dry Function • • • Fan Only • • • Lifestyle Convenience New POWERFUL Operation (Non-Inverter) - - Inverter POWERFUL Operation • • • Priority-Room Setting - - • Priority-Room Setting - - • Priority-Room Setting - - • HOME LEAVE Operation - - • • HOME LEAVE Operation • • • •		INTELLIGENT EYE Operation	•	•		Chargeless	32 ft	32 ft
Automatic Defrosting - • Operation Automatic Operation - • Program Dry Function • • • Fan Only • • • Lifestyle Convenience New POWERFUL Operation (Non-Inverter) - - • Inverter POWERFUL Operation Convenience New POWERFUL Operation (Nor-Inverter) - - • Inverter POWERFUL Operation Convenience New POWERFUL Operation (Nor-Inverter) - - • Inverter POWERFUL Operation Control • • • • • Priority-Room Setting - - Remote Controller • • • HOME LEAVE Operation - - • • • • • HOME LEAVE Operation - - • • • • • • Indoor Unit ON/OFF Button • • • • • • • Signal Receiving Sign • • • • • • • • Vith Back Light •				•		Either Side Drain (Right or Left)	•	•
Automatic Derivsting - •		Hot-Start Function	_	٠		Power Selection	_	-
Automatic Operation - • Display (factory setting : °F) • • Program Dry Function •		Automatic Defrosting		•		Low Temperature Cooling Operation (–15°C) (5°F)	•	•
Fan Only Image: Control Fan Only Remote Control Adaptor (Normal Open-Pulse Contact) (Option) Image: Control Adaptor (Normal Open-Pulse Contact) (Option) Lifestyle Convenience New POWERFUL Operation (Non-Inverter) Image: Control Adaptor (Normal Open Contact) (Option) Image: Control Adaptor (Normal Open Contact) Image: Control Adaptor (Normal Open Contact) Image: Control Adaptor (Normal Open Contact) Image: Contact (Option) I	Operation	Automatic Operation		•			•	•
Fan Only••••Lifestyle ConvenienceNew POWERFUL Operation (Non-Inverter)Remote Control Adaptor (Normal Open-Pulse Contact) (Option)••Inverter POWERFUL Operation Priority-Room SettingDIII-NET Compatible (Adaptor) (Option)••Priority-Room Setting COOL / HEAT Mode LockWireless•••HOME LEAVE Operation ECONO Operation••••Indoor Unit ON/OFF Button Signal Receiving Sign•••		Program Dry Function	٠	•		5-Rooms Centralized Controller (Option)	•	•
Convenience (Non-Inverter) Image: Convenience (Non-Inverter) Image: Convenience (Normal Open Contact) (Option) Image: Convenience Inverter POWERFUL Operation Image: Convenience		Fan Only	•	•	Control		•	•
Priority-Room SettingRemote ControllerWireless••COOL / HEAT Mode LockWireless••••HOME LEAVE Operation•• <t< td=""><td></td><td></td><td> </td><td>_</td><td></td><td></td><td>•</td><td>•</td></t<>				_			•	•
COOL / HEAT Mode Lock — — Controller Wired (Option) ● ● HOME LEAVE Operation — … <		Inverter POWERFUL Operation	٠	•		DIII-NET Compatible (Adaptor) (Option)	•	•
COOL / HEAT Mode Lock — — Wired (Option) •		Priority-Room Setting	_	—		Wireless	•	•
ECONO Operation•••Indoor Unit ON/OFF Button••••Signal Receiving Sign••••R/C with Back Light••••		COOL / HEAT Mode Lock	_		Controller	Wired (Option)	•	•
Indoor Unit ON/OFF Button •<		HOME LEAVE Operation	—	—				
Signal Receiving Sign •		ECONO Operation	•	•				
R/C with Back Light		Indoor Unit ON/OFF Button	٠	•				l
		Signal Receiving Sign	٠	•				1
Temperature Display — — —		R/C with Back Light	٠	•				
		Temperature Display	—	—				İ

Note: • : Holding Functions

— : No Functions

Specifications

3. Specifications

3.1 Cooling Only

	Indoor Unit		FTXS30LVJU	FTXS36LVJU
Model	Outdoor Unit		RKS30LVJU	RKS36LVJU
	Outdoor Onit	kW	8.8 (3.0 ~ 8.8)	10.5 (3.0 - 10.5)
Capacity		Btu/h	30,000 (10,200 ~ 30,000)	36,000 (10,200 ~ 36,000)
Rated (Min. ~ Ma	ax.)			
	-1	kcal/h	7,570 (2,580 ~ 7,570)	9,030 (2,580 ~ 9,030)
Moisture Remov		gal/h (L/h)	1.5 (5.8)	1.8 (6.9)
Running Current	· · ·	A	13.6 - 12.2	18.8
	otion Rated (Min	W	2,800 (620 ~ 2,800)	4,300 (620 ~4,300)
Max.)				
Power Factor (Ra	ated)	%	99.8	99.4
EER (Rated)		Btu/h⋅W	10.71	8.37
SEER			19.3	17.9
D ¹ · 1 · 1 · 1	Liquid	in. (mm)	φ 3/8 (9.5)	φ 3/8 (9.5)
Piping Connections	Gas	in. (mm)	φ 5/8 (15.9)	φ 5/8 (15.9)
Connections	Drain	in. (mm)	φ 5/8 (16.0)	φ 5/8 (16.0)
Heat Insulation			Both Liquid and Gas Pipes	Both Liquid and Gas Pipes
Max. Interunit Pi	pina Lenath	ft (m)	98.4 (30)	98.4 (30)
Max. Interunit He		ft (m)	65.6 (20)	65.6 (20)
			. ,	
Chargeless	ional Charge of	ft (m)	32 (10)	32 (10)
Amount of Additi Refrigerant	ional Gharge of	oz/ft (g/m)	0.54 (50)	0.54 (50)
Indoor Unit		(9/11)	FTXS30LVJU	FTXS36LVJU
Front Panel Colo)r		White	White
FION Panel Colo				
	Н	_	706 (20.0)	770 (21.8)
Airflow Rate	M	cfm(m ³ /min)	611 (17.3)	635 (18.0)
	L	,	519 (14.7)	519 (14.7)
	SL		473 (13.4)	473 (13.4)
	Туре		Cross Flow Fan	Cross Flow Fan
Fan	Motor Output	W	64	64
	Speed	Steps	5 Steps, Quiet, Auto	5 Steps, Quiet, Auto
Air Direction Cor			Right, Left, Horizontal, Downward	Right, Left, Horizontal, Downward
Air Filter			Removable / Washable / Mildew Proof	Removable / Washable / Mildew Proof
Running Current	(Potod)	A	0.38 - 0.34	0.38 - 0.34
•	· · ·	W		
Power Consumption (Rated)			77	77
Power Factor (Rated)		%	97.4 - 98.5	97.4 - 98.5
Temperature Co			Microcomputer Control	Microcomputer Control
Dimensions ($H \times W \times D$)		in. (mm)	12-13/16 × 51-9/16 × 16-7/8 (325 × 1,310 × 429)	12-13/16 × 51-9/16 × 16-7/8 (325 × 1,310 × 429)
Packaged Dimer	nsions (H \times W \times D)	in. (mm)	13-3/8 × 47-1/4 × 9-7/16 (340 × 1,200 × 240)	13-3/8 × 47-1/4 × 9-7/16 (340 × 1,200 × 240)
Weight (Mass)		Lbs (kg)	38 (17)	38 (17)
Gross Weight (G	iross Mass)	Lbs (kg)	51 (23)	51 (23)
Sound Pressure	H/M/L/SL		47.445.40.407	10/15/10/07
Level	H/M/L/SL	dB(A)	47 / 45 / 40 / 37	49 / 45 / 40 / 37
Sound Power Le	evel	dB	63	65
Outdoor Unit			RKS30LVJU	RKS36LVJU
Casing Color			Ivory White	Ivory White
~	Туре		Hermetically Sealed Swing Type	Hermetically Sealed Swing Type
Compressor	Model		2YC63FXD	2YC63FXD
	Motor Output	W	2,030	2,030
	Type	~~	FVC50K	FVC50K
Refrigerant Oil	Charge	oz (L)	25.5 (0.75)	25.5 (0.75)
	*	02 (L)		
Refrigerant	Туре	1.1.2.2.2	R-410A	R-410A
	Charge	Lbs (kg)	6.17 (2.8)	6.17 (2.8)
U	Н	cfm(m ³ /min)	2,627 (74.4)	2,627 (74.4)
-	SL	S(2,316 (65.6)	2,316 (65.6)
-	-		Propeller	Propeller
Airflow Rate	Туре		1.100	
Airflow Rate	-	W	200	200
Airflow Rate	Type Motor Output	W		
Airflow Rate Fan Running Current	Type Motor Output (Rated)		200	200
Airflow Rate Fan Running Current Power Consump	Type Motor Output (Rated) tion (Rated)	A W	200 11.86 2,723	200 18.46 4,223
Airflow Rate Fan Running Current Power Consump Power Factor (Ri	Type Motor Output : (Rated) tion (Rated) ated)	A W %	200 11.86 2,723 99.8	200 18.46 4,223 99.5
Airflow Rate Fan Running Current Power Consump Power Factor (Ra Starting Current	Type Motor Output (Rated) tition (Rated) ated)	A W % A	200 11.86 2,723 99.8 18.9	200 18.46 4,223 99.5 19.4
Airflow Rate Fan Running Current Power Consump Power Factor (R: Starting Current Dimensions (H ×	Type Motor Output (Rated) tion (Rated) ated) * W × D)	A W % A in. (mm)	200 11.86 2,723 99.8 18.9 38-15/16 × 37 × 12-5/8 (990 × 940 × 320)	200 18.46 4,223 99.5 19.4 38-15/16 × 37 × 12-5/8 (990 × 940 × 320)
Airflow Rate Fan Running Current Power Consump Power Factor (R: Starting Current Dimensions (H × Packaged Dimer	Type Motor Output (Rated) tition (Rated) ated)	A W % A in. (mm) in. (mm)	200 11.86 2,723 99.8 18.9 38-15/16 × 37 × 12-5/8 (990 × 940 × 320) 43-7/8 × 39-7/16 × 16-11/16 (1,114 × 1,003 × 425)	200 18.46 4,223 99.5 19.4 38-15/16 × 37 × 12-5/8 (990 × 940 × 320) 43-7/8 × 39-7/16 × 16-11/16 (1,114 × 1,003 × 425)
Airflow Rate Fan Running Current Power Consump Power Factor (R Starting Current Dimensions (H × Packaged Dimer Weight (Mass)	Type Motor Output (Rated) (tion (Rated) ated) (W × D) nsions (H × W × D)	A W % A in. (mm) in. (mm) Lbs (kg)	200 11.86 2,723 99.8 18.9 38-15/16 × 37 × 12-5/8 (990 × 940 × 320) 43-7/8 × 39-7/16 × 16-11/16 (1,114 × 1,003 × 425) 179 (81)	200 18.46 4,223 99.5 19.4 38-15/16 × 37 × 12-5/8 (990 × 940 × 320) 43-7/8 × 39-7/16 × 16-11/16 (1,114 × 1,003 × 425) 179 (81)
Airflow Rate Fan Running Current Power Consump Power Factor (R: Starting Current Dimensions (H × Packaged Dimer Weight (Mass) Gross Weight (G	Type Motor Output (Rated) tion (Rated) ated) (W × D) misions (H × W × D) irross Mass)	A W % A in. (mm) in. (mm)	200 11.86 2,723 99.8 18.9 38-15/16 × 37 × 12-5/8 (990 × 940 × 320) 43-7/8 × 39-7/16 × 16-11/16 (1,114 × 1,003 × 425)	200 18.46 4,223 99.5 19.4 38-15/16 × 37 × 12-5/8 (990 × 940 × 320) 43-7/8 × 39-7/16 × 16-11/16 (1,114 × 1,003 × 425)
Airflow Rate Fan Running Current Power Consump Power Factor (R: Starting Current Dimensions (H ×	Type Motor Output (Rated) tion (Rated) ated) (W × D) misions (H × W × D) irross Mass)	A W % A in. (mm) in. (mm) Lbs (kg)	200 11.86 2,723 99.8 18.9 38-15/16 × 37 × 12-5/8 (990 × 940 × 320) 43-7/8 × 39-7/16 × 16-11/16 (1,114 × 1,003 × 425) 179 (81)	200 18.46 4,223 99.5 19.4 38-15/16 × 37 × 12-5/8 (990 × 940 × 320) 43-7/8 × 39-7/16 × 16-11/16 (1,114 × 1,003 × 425) 179 (81)
Airflow Rate Fan Running Current Power Consump Power Factor (Ri Starting Current Dimensions (H × Packaged Dimer Weight (Mass) Gross Weight (G Sound Pressure	Type Motor Output (Rated) tition (Rated) ated) (W × D) nsions (H × W × D) iross Mass)	A W % A in. (mm) in. (mm) Lbs (kg) Lbs (kg)	200 11.86 2,723 99.8 18.9 38-15/16 × 37 × 12-5/8 (990 × 940 × 320) 43-7/8 × 39-7/16 × 16-11/16 (1,114 × 1,003 × 425) 179 (81) 204 (93)	200 18.46 4,223 99.5 19.4 38-15/16 × 37 × 12-5/8 (990 × 940 × 320) 43-7/8 × 39-7/16 × 16-11/16 (1,114 × 1,003 × 425) 179 (81) 204 (93)

60 Hz, 208 - 230 V

Note:

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

Cooling	Piping Length
Indoor ; 80°FDB (26.7°CDB) / 67°FWB (19.4°CWB) Outdoor ; 95°FDB (35°CDB) / 75°FWB (24°CWB)	25 ft (7.5 m)

Conversion Formulae
$kcal/h = kW \times 860$ Btu/h = kW × 3412 cfm = m ³ /min × 35.3

3.2 Heat Pump

60 Hz, 208 - 230 V

	Indoor Unit		FTXS30	LVJU	FTXS36LVJU			
Model	Outdoor Unit		RXS30L	.VJU	RXS36LVJU			
			Cooling	Heating	Cooling	Heating		
		kW	8.8 (3.0 ~ 8.8)	10.2 (3.0 ~ 10.2)	10.5 (3.0 - 10.5)	11.1 (3.0 - 11.1)		
Capacity			, ,	34,800 (10,200 ~	36,000	38.000		
Rated (Min. ~ Max.)		Btu/h	30,000 (10,200 ~ 30,000)	34,800)	(10,200 - 36,000)	(10,200- 38,000)		
		kcal/h	7,570 (2,580 ~ 7,570)	8,770 (2,580 ~ 8,770)	9,030	9,550		
Malatan Damaral				0,110 (2,000 0,110)	(2,580 - 9,030)	(2,580 - 9,550)		
Moisture Removal	1/	gal/h (L/h)	1.5 (5.8) 12.2	17.1	1.8 (6.9) 18.8	18.4		
Running Current (Rated	,	A			4,000 - 4,300	3,800 - 4,200		
Power Consumption Ra	ated (Min Max.)	W	2,800 (620 ~ 2,800)	3,900 (620 ~ 3,900)	(620 ~ 4,000 - 4,300)	(620 ~ 3,800 - 4,200)		
Power Factor (Rated)		%	99.8	99.2	99.4	99.2		
EER (Rated)		Btu/h⋅W	10.71 (16.45 ~ 10.71)	8.92 (16.45 ~ 8.92)	8.75 - 8.37	9.47 - 9.05		
SEER/HSPF			19.3	8.3	(16.45 ~ 8.75 - 8.37) 17.9	(16.45 ~ 9.47 - 9.05) 8.3		
SEEIVIISIT	Liquid	in. (mm)	φ 3/8 (!		φ 3/8 (9			
Piping Connections	Gas	in. (mm)	φ 5/8 (1		φ 5/8 (1			
r ipning connectione	Drain	in. (mm)	φ 5/8 (1	,	φ 5/8 (1	1		
Heat Insulation		()	Both Liquid and	,	Both Liquid and	,		
Max. Interunit Piping Le	ength	ft (m)	98.4 (30)	98.4 (3	30)		
Max. Interunit Height Di	•	ft (m)	65.6 (20)	65.6 (2	1		
Chargeless		ft (m)	32 (1	0)	32 (10	0)		
Amount of Additional Ch	harge of Refrigerant	oz/ft	0.54 (50)	0.54 (5	50)		
Indoor Unit		(g/m)	FTXS30	,	FTXS36L			
Front Panel Color			Whit		White			
	Н		706 (20.0)	710 (20.1)	770 (21.8)	808 (22.9)		
	M	cfm(m³/min)	611 (17.3)	611 (17.3)	635 (18.0)	657 (18.6)		
Airflow Rate	L	Ciri(iii-/iiiii)	519 (14.7)	519 (14.7)	519 (14.7)	519 (14.7)		
	SL		473 (13.4)	469 (13.3)	473 (13.4)	469 (13.3)		
	Туре	•	Cross Flo	w Fan	Cross Flow Fan			
Fan	Motor Output	W	64		64			
	Speed	Steps	5 Steps, Qu		5 Steps, Quiet, Auto			
Air Direction Control			Right, Left, Horizo	,	Right, Left, Horizontal, Downward			
Air Filter			Removable / Washal		Removable / Washab			
Running Current (Rated	,	A	0.38 - 0.34	0.38 - 0.34	0.38 - 0.34	0.38 - 0.34		
Power Consumption (Ra Power Factor (Rated)	ated)	W %	77 97.4 - 98.5	77 97.4 - 98.5	77 97.4 - 98.5	77 97.4 - 98.5		
Temperature Control		%	97.4 - 98.5 Microcomput		97.4 - 98.5 Microcompute			
Dimensions (H × W × D)	in. (mm)	12-13/16 × 51-9/16 × 16-7		12-13/16 × 51-9/16 × 16-7			
Packaged Dimensions (in. (mm)	13-3/8 × 47-1/4 × 9-7/16 (340 × 1,200 × 240)		13-3/8 × 47-1/4 × 9-7/16			
Weight (Mass)	(Lbs (kg)	38 (17)		38 (1	<u> </u>		
Gross Weight (Gross M	ass)	Lbs (kg)	51 (23)		51 (23)			
Sound Pressure Level	H/M/L/SL	dB(A)	47 / 45 / 40 / 37	47 / 44 / 38 / 35	49 / 45 / 40 / 37	49 / 44 / 38 / 35		
Sound Power Level		dB	63	63	65	65		
Outdoor Unit			RXS30L		RXS36L	VJU		
Casing Color			Ivory White		Ivory White			
	Туре		Hermetically Sealed Swing Type		Hermetically Sealed Swing Type			
Compressor Model			2YC63FXD		2YC63FXD			
		14/		0	0.00/	ר ר		
	Motor Output	W	2,03		2,030 EVC50			
Refrigerant Oil	Motor Output Type		2,03 FVC5	٥K	FVC50	ЭК		
	Motor Output Type Charge	W oz (L)	2,03 FVC5 25.5 (0	0K 75)	FVC50 25.5 (0.	ОК 75)		
Refrigerant Oil Refrigerant	Motor Output Type Charge Type	oz (L)	2,03 FVC5 25.5 (0 R-410	0K .75) 0A	FVC50 25.5 (0. R-410	0K 75) IA		
Refrigerant	Motor Output Type Charge	oz (L) Lbs (kg)	2,03 FVC5 25.5 (0	0K .75) 0A	FVC50 25.5 (0.	0K 75) IA		
	Motor Output Type Charge Type Charge	oz (L)	2,03 FVC5 25.5 (0 R-410 6.17 (2	0K .75) 0A 2.8)	FVC5(25.5 (0. R-410 6.17 (2	0K 75) 0A 8)		
Refrigerant Airflow Rate	Motor Output Type Charge Type Charge H	oz (L) Lbs (kg)	2,03 FVC5 25.5 (0 R-41(6.17 (2 2,627 (74.4)	0K .75) 0A 2.8) 2,627 (74.4) 2,316 (65.6)	FVC50 25.5 (0. R-410 6.17 (2 2,627 (74.4)	DK 75) A .8) 2,627 (74.4) 2,316 (65.6)		
Refrigerant Airflow Rate Fan	Motor Output Type Charge Type Charge H SL SL Type Motor Output	oz (L) Lbs (kg) cfm(m³/min) W	2,03 FVC5 25.5 (0 R-41(6.17 (2 2,627 (74.4) 2,316 (65.6) Prope 200	0K .75))A 2.8) 2,627 (74.4) 2,316 (65.6) ler	FVC5(25.5 (0. R-41(6.17 (2 2,627 (74.4) 2,316 (65.6) Propel 200	DK 75) A 8) 2,627 (74.4) 2,316 (65.6) ler		
Refrigerant Airflow Rate Fan Running Current (Ratec	Motor Output Type Charge Type Charge H SL Type Motor Output d)	oz (L) Lbs (kg) cfm(m³/min) W A	2,03 FVC5 25.5 (0 R-411 6.17 (2 2,627 (74.4) 2,316 (65.6) Prope 200 1111.86	0K 75) 0A 2,627 (74.4) 2,316 (65.6) ler 16.76	FVC50 25.5 (0. R-410 6.17 (2 2,627 (74.4) 2,316 (65.6) Propel 200 18.46	DK 75) A 2,627 (74.4) 2,316 (65.6) ler 18.06		
Refrigerant Airflow Rate Fan Running Current (Ratec Power Consumption (Ratec	Motor Output Type Charge Type Charge H SL Type Motor Output d)	oz (L) Lbs (kg) cfm(m³/min) W A W	2,03 FVC5 25.5 (0 R-411 6.17 (2 2,627 (74.4) 2,316 (65.6) Prope 200 1111.86 2,723	0K .75))A 2,627 (74.4) 2,316 (65.6) ller 16.76 3,823	FVC50 25.5 (0. R-410 6.17 (2 2,627 (74.4) 2,316 (65.6) Propel 200 18.46 4,223	DK 75) A .8) 2,627 (74.4) 2,316 (65.6) ler 18.06 4,123		
Refrigerant Airflow Rate Fan Running Current (Ratec Power Consumption (Rated)	Motor Output Type Charge Type Charge H SL Type Motor Output d)	oz (L) Lbs (kg) cfm(m³/min) W A W %	2,03 FVC5 25.5 (0 R-411 6.17 (2 2,627 (74.4) 2,316 (65.6) Prope 200 111.86 2,723 99.8	0K .75))A 2,627 (74.4) 2,316 (65.6) ller 16.76 3,823 99.2	FVC50 25.5 (0. R-410 6.17 (2 2,627 (74.4) 2,316 (65.6) Propel 200 18.46 4,223 99.5	DK 75) A .8) 2,627 (74.4) 2,316 (65.6) ler 18.06 4,123 99.3		
Refrigerant Airflow Rate Fan Running Current (Ratec Power Consumption (Ra Power Factor (Rated) Starting Current	Motor Output Type Charge Type Charge H SL Type Motor Output i) ated)	oz (L) Lbs (kg) cfm(m³/min) W A W % A	2,03 FVC5 25.5 (0 R-410 6.17 (2 2,627 (74.4) 2,316 (65.6) Prope 200 111.86 2,723 99.8 18.5	0K .75) 0A 2,627 (74.4) 2,316 (65.6) ller 16.76 3,823 99.2	FVC50 25.5 (0. R-410 6.17 (2 2,627 (74.4) 2,316 (65.6) Propel 200 18.46 4,223 99.5 19.4	DK 75) A .8) 2,627 (74.4) 2,316 (65.6) ler 18.06 4,123 99.3		
Refrigerant Airflow Rate Fan Running Current (Ratec Power Consumption (Rated) Power Factor (Rated) Starting Current Dimensions (H × W × D	Motor Output Type Charge Type Charge H SL Type Motor Output i) ated)	oz (L) Lbs (kg) cfm(m³/min) W A W % A in. (mm)	2,03 FVC5 25.5 (0 R-410 6.17 (2 2,627 (74.4) 2,316 (65.6) Prope 200 1111.86 2,723 99.8 18.5 38-15/16 × 37 × 12-5/8	0K .75) 0A 2,627 (74.4) 2,316 (65.6) ller 16.76 3,823 99.2 9 8 (990 × 940 × 320)	FVC50 25.5 (0. R-410 6.17 (2 2,627 (74.4) 2,316 (65.6) Propel 200 18.46 4,223 99.5 19.4 38-15/16 × 37 × 12-5/8	DK 75) A .8) 2,627 (74.4) 2,316 (65.6) ler 18.06 4,123 99.3 (990 × 940 × 320)		
Refrigerant Airflow Rate Fan Running Current (Rateo Power Consumption (Rateo) Power Factor (Rated) Starting Current Dimensions (H × W × D Packaged Dimensions (Motor Output Type Charge Type Charge H SL Type Motor Output i) ated)	oz (L) Lbs (kg) cfm(m³/min) W A W % A in. (mm) in. (mm)	2,03 FVC5 25.5 (0 R-41(6.17 (2 2,627 (74.4) 2,316 (65.6) Prope 200 111.86 2,723 99.8 8.15/16 × 37 × 12-5/8 43-7/8 × 39-7/16 × 16-11/1	0K .75) 0A 2.8) 2.316 (65.6) ller 16.76 3.823 99.2 0 6 (990 × 940 × 320) 6 (1,114 × 1,003 × 425)	FVC50 25.5 (0. R-410 6.17 (2 2,627 (74.4) 2,316 (65.6) Propel 200 18.46 4,223 99.5 19.4 38-15/16 × 37 × 12-5/8 43-7/8 × 39-7/16 × 16-11/10	DK 75) A 2,627 (74.4) 2,316 (65.6) ler 18.06 4,123 99.3 (990 × 940 × 320) 6 (1,114 × 1,003 × 425)		
Refrigerant Airflow Rate Fan Running Current (Ratec Power Consumption (Ra Power Factor (Rated) Starting Current Dimensions (H × W × D	Motor Output Type Charge Type Charge H SL Type Motor Output d) ated) (H × W × D)	oz (L) Lbs (kg) cfm(m ³ /min) W A W % A in. (mm) in. (mm) Lbs (kg)	2,03 FVC5 25.5 (0 R-410 6.17 (2 2,627 (74.4) 2,316 (65.6) Prope 200 1111.86 2,723 99.8 18.5 38-15/16 × 37 × 12-5/8	0K .75))A 2,627 (74.4) 2,316 (65.6) ller 16.76 3,823 99.2 3 (990 × 940 × 320) 6 (1,114 × 1,003 × 425) 81)	FVC50 25.5 (0. R-410 6.17 (2 2,627 (74.4) 2,316 (65.6) Propel 200 18.46 4,223 99.5 19.4 38-15/16 × 37 × 12-5/8	DK 75) A 2,627 (74.4) 2,316 (65.6) ler 18.06 4,123 99.3 (990 × 940 × 320) 6 (1,114 × 1,003 × 425) 1)		
Refrigerant Airflow Rate Fan Running Current (Ratec Power Consumption (R Power Factor (Rated) Starting Current Dimensions (H × W × D Packaged Dimensions (Weight (Mass) Gross Weight (Gross M	Motor Output Type Charge Type Charge H SL Type Motor Output d) ated) (H × W × D)	oz (L) Lbs (kg) cfm(m³/min) W A W % A in. (mm) in. (mm)	2,03 FVC5 25.5 (0 R-41(2,627 (74.4) 2,316 (65.6) Prope 200 111.86 2,723 99.8 38-15/16 × 37 × 12-5/8 43-7/8 × 39-7/16 × 16-11/1	0K .75))A 2,627 (74.4) 2,316 (65.6) ller 16.76 3,823 99.2 3 (990 × 940 × 320) 6 (1,114 × 1,003 × 425) 81)	FVC56 25.5 (0. R-410 6.17 (2 2,627 (74.4) 2,316 (65.6) Propel 200 18.46 4,223 99.5 99.5 19.4 38-15/16 × 37 × 12-5/8 43-7/8 × 39-7/16 × 16-11/11 179 (8	DK 75) A 2,627 (74.4) 2,316 (65.6) ler 18.06 4,123 99.3 (990 × 940 × 320) 6 (1,114 × 1,003 × 425) 1)		
Refrigerant Airflow Rate Fan Running Current (Ratec Power Consumption (R Power Factor (Rated) Starting Current Dimensions (H × W × D Packaged Dimensions (Weight (Mass) Gross Weight (Gross M	Motor Output Type Charge Type Charge H SL Type Motor Output d) ated) H Y Motor Output H) (H × W × D)	oz (L) Lbs (kg) cfm(m³/min) W A W % A in. (mm) in. (mm) Lbs (kg) Lbs (kg)	2,03 FVC5 25.5 (0 R-41(2,627 (74.4) 2,316 (65.6) Prope 200 111.86 2,723 99.8 18.5 38-15/16 × 37 × 12-5/6 43-7/8 × 39-7/16 × 16-11/1 179 (6 204 (5	0K 75) A 2,627 (74.4) 2,316 (65.6) ler 16.76 3,823 99.2 0 8 (990 × 940 × 320) 6 (1,114 × 1,003 × 425) 31) 33)	FVC56 25.5 (0. R-410 6.17 (2 2,627 (74.4) 2,316 (65.6) Propel 200 18.46 4,223 99.5 99.5 19.4 38-15/16 × 37 × 12-5/8 43-7/8 × 39-7/16 × 16-11/11 179 (8 204 (9	DK 75) A .8) 2,627 (74.4) 2,316 (65.6) ler 18.06 4,123 99.3 (990 × 940 × 320) 5 (1,114 × 1,003 × 425) 1) 3)		

Note:

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

Cooling	Heating	Piping Length
Indoor ; 80°FDB (26.7°CDB) / 67°FWB	Indoor ; 70°FDB (21.1°CDB) / 60°FWB	
(19.4°CWB)	(15.6°CWB)	25 ft (7.5 m)
Outdoor ; 95°FDB (35°CDB) / 75°FWB	Outdoor ; 47°FDB (8.3°CDB)/ 43°FWB	25 it (7.5 iii)
(24°CWB)	(6°CWB)	

Conversion Formulae
$kcal/h = kW \times 860$ Btu/h = kW × 3412 cfm = m ³ /min × 35.3

4. Dimensions

FTXS30/36LVJU



RKS30/36LVJU, RXS30/36LVJU



5. Wiring Diagrams

FTXS30/36LVJU



C: 3D060942H



RKS30/36LVJU, RXS30/36LVJU

6. Piping Diagrams

6.1 Indoor Unit

FTXS30/36LVJU



4D062742A

6.2 Outdoor Unit

RKS30/36LVJU



RXS30/36LVJU



Capacity Tables 7.

Cooling Only 7.1

FTXS30LVJU + RKS30LVJU (60 Hz, 208 - 230 V)

AFR	20.0
BF	0.23

Temp: Celsius

TC, SHC, PI: kW

IND	OOR		OUTDOOR TEMPERATURE (°CDB)																
EWB	EDB		20 25			30		32		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	6.92	4.97	1.38	6.92	4.97	1.61	6.92	4.97	1.88	6.92	4.97	2.00	6.92	4.97	2.20	6.92	4.97	2.46
16.0	22.0	8.63	5.59	1.85	8.63	5.59	2.18	8.60	5.58	2.57	8.44	5.49	2.66	8.19	5.37	2.78	7.78	5.16	2.81
18.0	25.0	9.83	6.19	2.17	9.42	5.99	2.38	9.01	5.78	2.59	8.84	5.70	2.67	8.60	5.59	2.79	8.19	5.39	2.82
19.4	26.7	10.03	6.43	2.18	9.62	6.23	2.39	9.21	6.04	2.59	9.05	5.96	2.68	8.80	5.84	2.80	8.39	5.66	2.83
22.0	30.0	10.64	6.17	2.20	10.23	5.99	2.40	9.82	5.82	2.61	9.65	5.75	2.69	9.41	5.65	2.82	9.00	5.48	2.84
24.0	32.0	11.04	5.97	2.21	10.63	5.81	2.42	10.22	5.65	2.62	10.06	5.59	2.71	9.81	5.49	2.83	9.40	5.34	2.86

Temp: Fahrenheit TC, SHC: kBtu/h

PI: kW

INDO	DOR							0	UTDOOI	R TEMP	ERATU	RE (°FD	B)						
EWB	EDB	68 77			86		90			95									
°F	°F	TC	SHC	ΡI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
57.2	68.0	23.61	16.97	1.38	23.61	16.97	1.61	23.61	16.97	1.88	23.61	16.97	2.00	23.61	16.97	2.20	23.61	16.97	2.46
60.8	71.6	29.44	19.09	1.85	29.44	19.09	2.18	29.35	19.04	2.57	28.79	18.75	2.66	27.95	18.31	2.78	26.55	17.61	2.81
64.4	77.0	33.53	21.13	2.17	32.13	20.43	2.38	30.73	19.74	2.59	30.17	19.47	2.67	29.33	19.06	2.79	27.94	18.40	2.82
67.0	80.0	34.22	21.94	2.18	32.82	21.26	2.39	31.42	20.59	2.59	30.86	20.33	2.68	30.00	19.94	2.80	28.63	19.30	2.83
71.6	86.0	36.29	21.04	2.20	34.90	20.43	2.40	33.50	19.84	2.61	32.94	19.61	2.69	32.10	19.26	2.82	30.70	18.69	2.84
75.2	89.6	37.68	20.37	2.21	36.28	19.82	2.42	34.88	19.28	2.62	34.32	19.06	2.71	33.48	18.74	2.83	32.09	18.22	2.86

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)

Note:

- 1. Ratings shown are net capacities which include a deduction for indoor fan motor heat.
- shows nominal (rated) capacities and power input.
 TC, PI and SHC must be calculated by interpolation using the figures in
- the tables. (Figures out of the tables should not be used for calculation.) 4. SHC values not included in the table must be calculated using
- interpolation with values of direct proportion. 5. Capacities are based on the following conditions. Corresponding refrigerant piping length : 25 ft

Level difference : 0 ft 6. Cooling capacity at –15°CDB and 5°FDB.

Temp: Celsius

TC, SHC, PI: kW

60 Hz, 208 - 230 V

INDO	DOR	0	OUTDOOR						
EWB	EDB	-15 (°CDB)							
°C	°C	TC	SHC	PI					
14.0	20.0	5.49	4.28	0.49					

Temp: Fahrenheit

TC, SHC: kBtu/h PI: kW

60 Hz, 208 - 230 V

	, =00								
INDO	DOR	OUTDOOR							
EWB	EDB	!	5 (°FDB)						
°F °F		TC	SHC	PI					
57.2	68.0	18.73	14.59	0.49					

FTXS36LVJU + RKS36LVJU (60 Hz, 208 - 230 V)

AFR	21.8
BF	0.27

Temp: Celsius

TC, SHC, PI: kW

INDO	DOR		OUTDOOR TEMPERATURE (°CDB)																
EWB	EDB	20 25		30		32		35											
°C	°C	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14.0	20.0	7.15	5.14	1.54	7.15	5.14	1.77	7.15	5.14	2.05	7.15	5.14	2.17	7.15	5.14	2.38	7.15	5.14	2.67
16.0	22.0	8.92	5.78	2.09	8.92	5.78	2.44	8.92	5.78	2.87	8.92	5.78	3.07	8.92	5.78	3.41	8.92	5.78	3.89
18.0	25.0	10.82	6.74	2.80	10.82	6.74	3.35	10.75	6.70	3.97	10.55	6.60	4.10	10.26	6.45	4.29	9.60	6.12	4.24
19.4	26.7	11.82	7.38	3.25	11.48	7.20	3.66	10.99	6.95	3.98	10.79	6.86	4.11	10.50	6.71	4.30	9.82	6.38	4.24
22.0	30.0	12.69	7.14	3.37	12.20	6.91	3.69	11.71	6.69	4.01	11.52	6.60	4.14	11.23	6.47	4.33	10.50	6.16	4.24
24.0	32.0	13.18	6.90	3.39	12.69	6.69	3.71	12.20	6.49	4.03	12.00	6.41	4.16	11.71	6.29	4.35	10.95	5.99	4.24

Temp: Fahrenheit

TC, SHC: kBtu/h

PI: kW

INDO	DOR							0	JTDOOI	R TEMP	ERATU	RE (°FD	B)						
EWB	EDB	68 77			86		90			95									
°F	°F	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
57.2	68.0	24.39	17.54	1.54	24.39	17.54	1.77	24.39	17.54	2.05	24.39	17.54	2.17	24.39	17.54	2.38	24.39	17.54	2.67
60.8	71.6	30.43	19.72	2.09	30.43	19.72	2.44	30.43	19.72	2.87	30.43	19.72	3.07	30.43	19.72	3.41	30.43	19.72	3.89
64.4	77.0	36.91	23.00	2.80	36.91	23.00	3.35	36.67	22.87	3.97	36.00	22.52	4.10	35.00	22.01	4.29	32.75	20.89	4.24
67.0	80.0	40.33	25.18	3.25	39.16	24.57	3.66	37.49	23.72	3.98	36.83	23.39	4.11	36.00	22.89	4.30	33.52	21.78	4.24
71.6	86.0	43.31	24.36	3.37	41.64	23.58	3.69	39.97	22.83	4.01	39.30	22.53	4.14	38.30	22.09	4.33	35.82	21.01	4.24
75.2	89.6	44.96	23.54	3.39	43.29	22.83	3.71	41.62	22.14	4.03	40.95	21.86	4.16	39.95	21.46	4.35	37.35	20.43	4.24

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)

Note:

- 1. Ratings shown are net capacities which include a deduction for indoor fan motor heat.
- shows nominal (rated) capacities and power input.
 TC, PI and SHC must be calculated by interpolation using the figures in the tables. (Figures out of the tables should not be used for calculation.)
- 4. SHC values not included in the table must be calculated using
- interpolation with values of direct proportion.
- 5. Capacities are based on the following conditions.
- Corresponding refrigerant piping length : 25 ft Level difference : 0 ft
- 6. Cooling capacity at -15°CDB and 5°FDB.

Temp: Celsius TC, SHC, PI: kW

INDO	DOR	0	OUTDOOR						
EWB	EDB	-15 (°CDB)							
°C	°C	TC	SHC	PI					
14.0	20.0	5.67	4.42	0.54					
Temp: Fahrenheit TC, SHC: kBtu/h									
PI: kW									
60 Hz 208 - 230 V									

60 Hz,	208 -	230	۷
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	,									
INDO	DOR	OUTDOOR								
EWB	EDB	!	5 (°FDB)							
°F	°F	TC	TC SHC							
57.2	68.0	19.35	15.08	0.54						

3D071131A

7.2 **Heat Pump**

FTXS30LVJU + RXS30LVJU (60 Hz, 208 - 230 V)

Cooling

0	
AFR	20.0
BF	0.23

Temp: Celsius TC, SHC, PI: kW

IND	OOR		OUTDOOR TEMPERATURE (°CDB)																
EWB	EDB		20		25			30		32			35						
°C	°C	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14.0	20.0	6.92	4.97	1.38	6.92	4.97	1.61	6.92	4.97	1.88	6.92	4.97	2.00	6.92	4.97	2.20	6.92	4.97	2.46
16.0	22.0	8.63	5.59	1.85	8.63	5.59	2.18	8.60	5.58	2.57	8.44	5.49	2.66	8.19	5.37	2.78	7.78	5.16	2.81
18.0	25.0	9.83	6.19	2.17	9.42	5.99	2.38	9.01	5.78	2.59	8.84	5.70	2.67	8.60	5.59	2.79	8.19	5.39	2.82
19.4	26.7	10.03	6.43	2.18	9.62	6.23	2.39	9.21	6.04	2.59	9.05	5.96	2.68	8.80	5.84	2.80	8.39	5.66	2.83
22.0	30.0	10.64	6.17	2.20	10.23	5.99	2.40	9.82	5.82	2.61	9.65	5.75	2.69	9.41	5.65	2.82	9.00	5.48	2.84
24.0	32.0	11.04	5.97	2.21	10.63	5.81	2.42	10.22	5.65	2.62	10.06	5.59	2.71	9.81	5.49	2.83	9.40	5.34	2.86

Temp: Fahrenheit TC, SHC: kBtu/h

PI: kW

INDO	DOR		OUTDOOR TEMPERATURE (°FDB)																
EWB	EDB		68		77			86		90			95						
°F	°F	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
57.2	68.0	23.61	16.97	1.38	23.61	16.97	1.61	23.61	16.97	1.88	23.61	16.97	2.00	23.61	16.97	2.20	23.61	16.97	2.46
60.8	71.6	29.44	19.09	1.85	29.44	19.09	2.18	29.35	19.04	2.57	28.79	18.75	2.66	27.95	18.31	2.78	26.55	17.61	2.81
64.4	77.0	33.53	21.13	2.17	32.13	20.43	2.38	30.73	19.74	2.59	30.17	19.47	2.67	29.33	19.06	2.79	27.94	18.40	2.82
67.0	80.0	34.22	21.94	2.18	32.82	21.26	2.39	31.42	20.59	2.59	30.86	20.33	2.68	30.00	19.94	2.80	28.63	19.30	2.83
71.6	86.0	36.29	21.04	2.20	34.90	20.43	2.40	33.50	19.84	2.61	32.94	19.61	2.69	32.10	19.26	2.82	30.70	18.69	2.84
75.2	89.6	37.68	20.37	2.21	36.28	19.82	2.42	34.88	19.28	2.62	34.32	19.06	2.71	33.48	18.74	2.83	32.09	18.22	2.86

Heating

AFR 20.1

Temp: Celsius TC, PI: kW

INDOOR		OUTDOOR TEMPERATURE (°CWB)													
EDB	L	-15		-10		-5		0		6	10				
°C	TC PI		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI			
15.0	4.86	2.51	6.17	2.68	6.82	2.77	9.17	3.62	10.55	3.81	11.47	3.94			
21.1	4.56	2.58	5.87	2.75	6.52	2.84	8.82	3.71	10.20	3.90	10.69	3.70			
22.0	4.44	2.61	5.75	2.78	6.40	2.87	8.68	3.74	10.01	3.89	10.01	3.34			
24.0	4.32	2.64	5.63	2.81	6.28	2.89	8.54	3.78	9.33	3.49	9.33	3.01			
25.0	4.26	2.65	5.57	2.82	6.22	2.91	8.47	3.80	8.99	3.30	8.99	2.86			
27.0	4.14	2.68	5.45	2.85	6.10	2.94	8.31	3.82	8.31	2.94	8.31	2.56			

Temp: Fahrenheit

TC: kBtu/h

PI: kW

INDOOR		OUTDOOR TEMPERATURE (°FWB)													
EDB	5	5	14		23		32		43		5	0			
°F	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI			
59.0	16.57	2.51	21.05	2.68	23.25	2.77	31.29	3.62	36.00	3.81	39.15	3.94			
70.0	15.55	2.58	20.03	2.75	22.23	2.84	30.09	3.71	34.80	3.90	36.46	3.70			
71.6	15.14	2.61	19.62	2.78	21.82	2.87	29.61	3.74	34.15	3.89	34.15	3.34			
75.2	14.74	2.64	19.21	2.81	21.42	2.89	29.13	3.78	31.83	3.49	31.83	3.01			
77.0	14.53	2.65	19.01	2.82	21.21	2.91	28.89	3.80	30.67	3.30	30.67	2.86			
80.6	14.12	2.68	18.60	2.85	20.80	2.94	28.36	3.82	28.36	2.94	28.36	2.56			

Symbols:

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

Note:

- 1. Ratings shown are net capacities which include a deduction for indoor fan motor heat.
- Shows nominal (rated) capacities and power input.
 TC, PI and SHC must be calculated by interpolation using the figures in the tables. (Figures out of the tables should not be used for calculation.)

- 4. SHC values not included in the table must be calculated using interpolation with values of direct proportion.
- 5. Capacities are based on the following conditions. Corresponding refrigerant piping length : 25 ft
- Level difference : 0 ft 6. Cooling capacity at -15°CDB and 5°FDB.

Temp: Celsius TC, SHC, PI: kW

60 HZ, 208 -	230 V
INDOOR	OUTDOOR

		-								
EWB	EDB	–15 (°CDB)								
°C	°C	TC	SHC	PI						
14.0	20.0	5.49	4.28	0.49						

Temp: Fahrenheit TC, SHC: kBtu/h

PI: kW

60 Hz, 208 - 230 V

INDO	DOR	0	UTDOO	R					
EWB	EDB	5 (°FDB)							
°F	°F	TC	TC SHC						
57.2	68.0	18.73	14.59	0.49					

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FTXS36LVJU + RXS36LVJU <60 Hz, 208 V>

Coolina

eeening	
AFR	21.8
BF	0.27

Temp: Celsius TC, SHC, PI: kW

INDO	DOR		OUTDOOR TEMPERATURE (°CDB)																
EWB	EDB		20			25			30		32			35					
°C	°C	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14.0	20.0	7.15	5.14	1.53	7.15	5.14	1.77	7.15	5.14	2.05	7.15	5.14	2.17	7.15	5.14	2.38	7.15	5.14	2.67
16.0	22.0	8.92	5.78	2.07	8.92	5.78	2.43	8.92	5.78	2.86	8.92	5.78	3.07	8.92	5.78	3.42	8.66	5.65	3.83
18.0	25.0	10.82	6.74	2.78	10.82	6.74	3.33	10.44	6.54	3.70	10.25	6.45	3.81	9.97	6.30	3.99	9.10	5.88	3.83
19.4	26.7	11.62	7.28	3.11	11.15	7.03	3.41	10.67	6.80	3.70	10.48	6.70	3.82	10.20	6.56	4.00	9.32	6.14	3.83
22.0	30.0	12.33	6.97	3.14	11.85	6.75	3.44	11.38	6.54	3.73	11.19	6.46	3.85	10.90	6.33	4.03	9.98	5.94	3.83
24.0	32.0	12.80	6.74	3.16	12.32	6.54	3.45	11.85	6.35	3.75	11.66	6.27	3.87	11.37	6.15	4.04	10.41	5.78	3.83

Temp: Fahrenheit TC, SHC: kBtu/h

PI: kW

INDO	DOR		OUTDOOR TEMPERATURE (°FDB)																
EWB	EDB		68			77		86			90			95					
°F	°F	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
57.2	68.0	24.39	17.54	1.53	24.39	17.54	1.77	24.39	17.54	2.05	24.39	17.54	2.17	24.39	17.54	2.38	24.39	17.54	2.67
60.8	71.6	30.43	19.72	2.07	30.43	19.72	2.43	30.43	19.72	2.86	30.43	19.72	3.07	30.43	19.72	3.42	29.55	19.27	3.83
64.4	77.0	36.91	23.00	2.78	36.91	23.00	3.33	35.62	22.33	3.70	34.97	22.00	3.81	34.00	21.51	3.99	31.05	20.05	3.83
67.0	80.0	39.66	24.83	3.11	38.04	24.00	3.41	36.42	23.19	3.70	35.77	22.87	3.82	35.00	22.39	4.00	31.79	20.96	3.83
71.6	86.0	42.07	23.78	3.14	40.45	23.04	3.44	38.83	22.32	3.73	38.18	22.03	3.85	37.21	21.61	4.03	34.04	20.26	3.83
75.2	89.6	43.67	23.00	3.16	42.05	22.32	3.45	40.43	21.65	3.75	39.78	21.39	3.87	38.81	21.00	4.04	35.53	19.72	3.83

Heating

AFR 22.9

Temp: Celsius

TC, PI: kW

INDOOR		OUTDOOR TEMPERATURE (°CWB)										
EDB	I.	15	-10		-5		0		6		10	
°C	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
15.0	5.00	2.45	6.01	2.57	7.02	2.70	9.44	3.53	10.86	3.71	11.81	3.84
21.1	4.69	2.51	5.70	2.64	6.71	2.76	9.08	3.61	10.50	3.80	11.45	3.93
22.0	4.57	2.54	5.58	2.67	6.58	2.79	8.93	3.65	10.36	3.83	11.30	3.96
24.0	4.45	2.57	5.45	2.69	6.46	2.82	8.79	3.68	10.21	3.87	11.16	3.99
25.0	4.38	2.58	5.39	2.71	6.40	2.83	8.71	3.70	10.14	3.89	10.97	3.92
27.0	4.26	2.61	5.27	2.74	6.28	2.86	8.57	3.73	9.99	3.92	10.15	3.45

Temp: Fahrenheit

TC: kBtu/h

PI: kW

INDOOR		OUTDOOR TEMPERATURE (°FWB)										
EDB	5		14		23		32		43		5	0
°F	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
59.0	17.06	2.45	20.50	2.57	23.94	2.70	32.21	3.53	37.06	3.71	40.30	3.84
70.0	16.01	2.51	19.45	2.64	22.89	2.76	30.97	3.61	36.00	3.80	39.06	3.93
71.6	15.59	2.54	19.03	2.67	22.47	2.79	30.48	3.65	35.33	3.83	38.57	3.96
75.2	15.17	2.57	18.61	2.69	22.05	2.82	29.98	3.68	34.84	3.87	38.07	3.99
77.0	14.96	2.58	18.40	2.71	21.84	2.83	29.73	3.70	34.59	3.89	37.44	3.92
80.6	14.54	2.61	17.98	2.74	21.42	2.86	29.24	3.73	34.09	3.92	34.62	3.45

<60 Hz, 230 V>

Cooling

AFR	21.8
BF	0.27

Temp: Celsius TC, SHC, PI: kW

INDO	DOR		OUTDOOR TEMPERATURE (°CDB)																
EWB	EDB		20			25			30			32			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	7.15	5.14	1.54	7.15	5.14	1.77	7.15	5.14	2.05	7.15	5.14	2.17	7.15	5.14	2.38	7.15	5.14	2.67
16.0	22.0	8.92	5.78	2.09	8.92	5.78	2.44	8.92	5.78	2.87	8.92	5.78	3.07	8.92	5.78	3.41	8.92	5.78	3.89
18.0	25.0	10.82	6.74	2.80	10.82	6.74	3.35	10.75	6.70	3.97	10.55	6.60	4.10	10.26	6.45	4.29	9.60	6.12	4.24
19.4	26.7	11.82	7.38	3.25	11.48	7.20	3.66	10.99	6.95	3.98	10.79	6.86	4.11	10.50	6.71	4.30	9.82	6.38	4.24
22.0	30.0	12.69	7.14	3.37	12.20	6.91	3.69	11.71	6.69	4.01	11.52	6.60	4.14	11.23	6.47	4.33	10.50	6.16	4.24
24.0	32.0	13.18	6.90	3.39	12.69	6.69	3.71	12.20	6.49	4.03	12.00	6.41	4.16	11.71	6.29	4.35	10.95	5.99	4.24

Temp: Fahrenheit TC, SHC: kBtu/h

PI: kW

INDO	DOR		OUTDOOR TEMPERATURE (°FDB)																
EWB	EDB		68			77			86			90			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	24.39	17.54	1.54	24.39	17.54	1.77	24.39	17.54	2.05	24.39	17.54	2.17	24.39	17.54	2.38	24.39	17.54	2.67
60.8	71.6	30.43	19.72	2.09	30.43	19.72	2.44	30.43	19.72	2.87	30.43	19.72	3.07	30.43	19.72	3.41	30.43	19.72	3.89
64.4	77.0	36.91	23.00	2.80	36.91	23.00	3.35	36.67	22.87	3.97	36.00	22.52	4.10	35.00	22.01	4.29	32.75	20.89	4.24
67.0	80.0	40.33	25.18	3.25	39.16	24.57	3.66	37.49	23.72	3.98	36.83	23.39	4.11	36.00	22.89	4.30	33.52	21.78	4.24
71.6	86.0	43.31	24.36	3.37	41.64	23.58	3.69	39.97	22.83	4.01	39.30	22.53	4.14	38.30	22.09	4.33	35.82	21.01	4.24
75.2	89.6	44.96	23.54	3.39	43.29	22.83	3.71	41.62	22.14	4.03	40.95	21.86	4.16	39.95	21.46	4.35	37.35	20.43	4.24

Heating

22.9

Temp: Celsius TC, PI: kW

INDOOR		OUTDOOR TEMPERATURE (°CWB)										
EDB	-15		-10		-5		0		6		10	
°C	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
15.0	5.29	2.70	6.35	2.84	7.42	2.98	9.98	3.90	11.48	4.11	12.49	4.24
21.1	4.96	2.78	6.03	2.92	7.09	3.06	9.60	3.99	11.10	4.20	12.10	4.34
22.0	4.83	2.81	5.90	2.95	6.96	3.09	9.44	4.03	10.95	4.24	11.95	4.38
24.0	4.70	2.84	5.77	2.98	6.83	3.12	9.29	4.07	10.79	4.28	11.39	4.08
25.0	4.63	2.85	5.70	2.99	6.77	3.13	9.21	4.09	10.72	4.29	10.97	3.83
27.0	4.50	2.88	5.57	3.02	6.64	3.16	9.06	4.12	10.15	3.96	10.15	3.37

Temp: Fahrenheit TC: kBtu/h

PI: kW

INDOOR		OUTDOOR TEMPERATURE (°FWB)										
EDB	Ę	5	14		23		32		43		5	0
°F	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
59.0	18.04	2.70	21.67	2.84	25.31	2.98	34.05	3.90	39.18	4.11	42.60	4.24
70.0	16.92	2.78	20.56	2.92	24.20	3.06	32.74	3.99	38.00	4.20	41.29	4.34
71.6	16.48	2.81	20.12	2.95	23.75	3.09	32.22	4.03	37.35	4.24	40.77	4.38
75.2	16.04	2.84	19.67	2.98	23.31	3.12	31.70	4.07	36.83	4.28	38.86	4.08
77.0	15.81	2.85	19.45	2.99	23.08	3.13	31.43	4.09	36.57	4.29	37.44	3.83
80.6	15.37	2.88	19.00	3.02	22.64	3.16	30.91	4.12	34.62	3.96	34.62	3.37

Symbols:

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

Note:

- 1. Ratings shown are net capacities which include a deduction for indoor fan motor heat.
- shows nominal (rated) capacities and power input.
 TC, PI and SHC must be calculated by interpolation using the figures in the tables. (Figures out of the tables should not be used for calculation.)

- 4. SHC values not included in the table must be calculated using interpolation with values of direct proportion.
- 5. Capacities are based on the following conditions. Corresponding refrigerant piping length : 25 ft
- Level difference : 0 ft 6. Cooling capacity at -15°CDB and 5°FDB.

Temp: Celsius TC, SHC, PI: kW

60 HZ, 208 -	230 V
INDOOR	OUTDOOR

EWB	EDB	–15 (°CDB)							
°C	°C	TC	SHC	PI					
14.0	20.0	5.67	4.42	0.54					

Temp: Fahrenheit TC, SHC: kBtu/h

PI: kW

60 Hz, 208 - 230 V

INDO	DOR	OUTDOOR				
EWB	EDB	!	5 (°FDB))		
°F	°F	TC	SHC	PI		
57.2	68.0	19.35	15.08	0.54		

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7.3 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>



NOTES:

- Cut the jumper on the outdoor unit PCB to expand the operation range down to 14°F.
- Operation can be extended down to 0°F with use of the optional wind baffle.

Note:

The graph shows the factor when additional refrigerant of the proper quantity is charged.

8. Operation Limit

RKS30/36LVJU



RXS30/36LVJU



9. Sound Level

9.1 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 (21.1°CDB) / 60°FWB (15.6°CWB) Outdoor ; 47°FDB (8.3°CDB)/ 43°FWB (6°CWB)	16.4 ft

9.2 Octave Band Level

9.2.1 Indoor Unit



10. Electric Characteristics

Indoor Unit	Outdoor Unit	Power Supply			COMP		OFM		IFM		
		Hz - Volts	Voltage Range	MCA	MFA	RHz	RLA	W	FLA	W	FLA
FTXS30LVJU	RKS30LVJU	60 - 208	MAX. 60 Hz, 253 V MIN. 60 Hz, 187 V	19.5	20	66	13.5	200	0.39	64 -	0.37
F1X330EV30		60 - 230					12.2		0.35		0.34
FTXS36LVJU	RKS36LVJU	60 - 208	MAX. 60 Hz, 253 V MIN. 60 Hz, 187 V	19.5	20	84	18.9	200	0.39	64	0.37
F1X330EV30		60 - 230				90	18.4		0.35		0.34
FTXS30LVJU	RXS30LVJU	60 - 208	MAX. 60 Hz, 253 V MIN. 60 Hz, 187 V	19.5	20	66	18.1	200	0.39	64	0.37
F1X330F430		60 - 230		19.5			16.4		0.35		0.34
FTXS36LVJU	RXS36LVJU	60 - 208	MAX. 60 Hz, 253 V MIN. 60 Hz, 187 V	19.5	20	84 20	20.3	200	0.39	64	0.37
FTX330EV30		60 - 230				90	18.4		0.35		0.34

Symbols:

- MCA : Min. circuit amps (A)
- MFA : Max. fuse amps (A)
- RHz : Rated operating frequency (Hz)
- : Rated load amps (A) RLA
- OFM : Outdoor fan motor
- IFM : Indoor fan motor
- W : Fan motor rated output (W)
- FLA : Full load amps (A)

Notes:

- RLA is based on the following conditions. Indoor temp. : 80°FDB / 67°FWB (26.7°CDB / 19.4°CWB) Outdoor temp. : 95°FDB (35°CDB)
 Maximum allowable voltage variation between phases is 2%.
 Select wire size based on the larger value of MCA.

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11.Installation Manual

11.1 Indoor Unit

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 customer on how to operate and maintain the unit. 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 water or refrigerant leakage, electrical shock, fire, or explosion.

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

DANGER	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.
<u>A</u> 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.
<u>NOTE</u>	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.
- 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 shocks, 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 shocks 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 terminal box lid can be securely fastened. Improper positioning of the terminal box lid may result in electric shocks, fire, or the terminals overheating.
- Before touching electrical parts, turn off the unit.
- Securely fasten the outside unit terminal cover (panel). If the terminal cover/panel is not installed properly, dust or water may enter the outside unit causing fire or electric shock.
- When installing or relocating the system, keep the refrigerant circuit free from substances other than the specified refrigerant (R-410A) 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 R-410A 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 -- R-410A does not contain any chlorine, does not destroy the ozone layer, and does not reduce the earth's protection again harmful ultraviolet radiation. R-410A 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* and follow the procedures.
- Since R-410A 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 R-410A. 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 outside 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 customer to keep the area around the unit clean.
- Install the power supply and control wires for the indoor and outdoor units at least 3.5 feet away from televisions or radios to prevent image interference or noise.
 Depending on the radio waves, a distance of 3.5 feet 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 R-410A, 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 478 psi, the wall thickness of field-installed pipes should be selected in accordance with the relevant local, state, and national regulations.

Accessories					
A Mounting plate	1	E Remote controller holder	1	J Tube	1
B Mounting plate fixing screws 3/16" × 1"L (M4 × 25L)	9	E Fixing screws for remote controller holder 1/8" × 13/16"L (M3 × 20L)	2	(K) Operation manual	1
C Titanium Apatite Photocatalytic Air-Purifying Filter	3	G Dry batteries AAA. LR03 (alkaline)	2	L Installation manual	1
D Wireless remote controller	1	$ \bigcirc $ Indoor unit fixing screws 3/16" × 1/2"L (M4 × 12L)	3	M Screw cover	3

Choosing an Installation Site

• Before choosing the installation site, obtain user approval.

1. Indoor unit.

- The indoor unit should be sited in a place where:
- 1) the restrictions on installation specified in the indoor unit installation drawings are met
- 2) both air intake and exhaust have clear paths met
- 3) the unit is not in the path of direct sunlight
- 4) the unit is away from the source of heat or steam
- 5) there is no source of machine oil vapor (this may shorten indoor unit life)
- 6) cool (warm) air is circulated throughout the room
- 7) the unit is away from electronic ignition type fluorescent lamps (inverter or rapid start type) as they may shorten the remote controller range
- 8) the unit is at least 3.5ft (1m) away from any television or radio set (unit may cause interference with the picture or sound)
- 9) install at the recommended height of 6ft (1.8m)

2. Wireless remote controller.

- 1) Turn on all the fluorescent lamps in the room, if any, and find the site where remote controller signals are properly received by the indoor unit within 23ft (7m).
- 2) Make the DIP switch settings. Set according to the type of unit purchased by the customer. The default settings are on the heat pump side.
- For cooling only (Outdoor unit model: RKS) Set the DIP switch on the cooling only side.



DIP

Cooling only

• For heat pump (Outdoor unit model: RXS) Check that the DIP switch is on the heat pump side. If they are set on the cooling only side, move them to the heat pump side.





1. Installing the mounting plate.

- The mounting plate should be installed on a wall which can support the weight of the indoor unit.
- 1) Temporarily secure the mounting plate to the wall, make sure that the panel is completely level, and mark the boring points on the wall.
- 2) Secure the mounting plate to the wall with screws.







Refrigerant Piping Work 1. Flaring the pipe end. Remove burrs 1) Cut the pipe end with a pipe cutter. right angles.) Flaring 2) Remove burrs with the cut surface facing sition shown below Set exactly at the po downward so that the chips do not enter the Flare tool for R410A Conventional flare tool ∳ A Clutch-type Clutch-type (Rigid-type) Wing-nut type (Imperial-type) pipe. 0-0.020 inch (0-0.5mm) 0.039-0.059 inch (1.0-1.5mm) 0.059-0.079 inch (1.5-2.0mm) 3) Put the flare nut on the pipe. The pipe end must 4) Flare the pipe. Flare's inne be evenly flared in a perfect circle. surface mus 5) Check that the flaring is properly made. be flaw-free Make sure that the flare nut is fitted. / WARNING 1) Do not use mineral oil on flared part. 2) Prevent mineral oil from getting into the system as this would reduce the lifetime of the units. 3) Never use piping which has been used for previous installations. Only use parts which are delivered with the unit. 4) Never install a drier to this R410A unit in order to guarantee it's lifetime. 5) The drying material may dissolve and damage the system. 6) Incomplete flaring may cause refrigerant gas leakage. **2.** Refrigerant piping. 1) Use the flare nut fixed to the main unit. (To prevent cracking of the flare nut by aged deterioration.) 2) To prevent gas leakage, apply refrigeration oil only to the inner surface of the flare. (Use refrigeration oil for R410A.) 3) Use torque wrenches 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 the torque wrenches. [Tighten] [Apply oil] Do not apply refrigeration Apply refrigeration oil to the Flare nut tightening torque oil to the outer surface nner surface of the flare Gas side Liquid side Flare nu 5/8 inch (15.9mm) 3/8 inch (9.5mm) 45.6-55.6ft · lbf 24.1-29.4ft · lbf (61.8-75.4N · m) (32.7-39.9N · m) Do not apply refrigeration oil to the flare Piping unior nut to avoid tightening with over torque Flare nu l l l Rai 2-1. Caution on piping handling. Be sure to place a car 1) Protect the open end of the pipe against dust and moisture. If no flare cap is 2) All pipe bends should be as gentle as possible. Use a pipe bender for bending. ilable, cover outh with ape to keep dirt o 2-2. Selection of copper and heat insulation materials. When using commercial copper pipes and fittings, observe the following: Inter-unit wire Gas nine 1) Insulation material: Polyethylene foam Liquid pipe Heat transfer rate: 0.041 to 0.052W/mK (0.024-0.030Btu/fth°F (0.035-0.045kcal/mh°C)) Be sure to use insulation that is designed for use with HVAC Systems. Liquid pipe 2) Be sure to insulate both the gas and liquid piping and to provide insulation insulation dimensions as below. na tape Drain hose Gas side Liquid side Gas pipe thermal insulation Liquid pipe thermal insulation O.D. 5/8 inch (15.9mm) O.D. 3/8inch (9.5mm) I.D. 0.630-0.787 inch (16-20mm) I.D. 0.472-0.591 inch (12-15mm) Minimum bend radius Thickness 0.393 inch (10mm) Min 1-15/16 inch (50mm) or more 1-3/16 inch (30mm) or more Thickness 0.039 inch (1mm) (C1220T-O) Thickness 0.031 inch (0.8mm) (C1220T-O) 3) Use separate thermal insulation pipes for gas and liquid refrigerant pipes.

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 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.

How to force cooling operation mode

■Using the indoor unit ON/OFF switch

- Press the indoor unit ON/OFF switch for at least 5 seconds. (Operation will start.)
- Forced cooling operation will stop automatically after around 15 minutes. To stop force cooling operation, press the indoor unit ON/OFF switch.

■Using the main unit's remote controller

- 1) Press the MODE button and select the cooling mode.
- 2) Press the ON/OFF button to turn on the system.
- 3) Press the both of TEMP button and the MODE button at the same time.
- 4) Press the MODE button twice. (7⁻ will be displayed and the unit will enter test run mode.)
- Test run mode will stop automatically after around 30 minutes. To stop test run mode, press the ON/OFF button.

1) After closing the liquid stop valve, close the gas stop valve within 3 minutes, then stop the forced operation.

Trial Operation and Testing (1)

1. Trial operation and testing.

- 1-1 Measure the supply voltage and make sure that it falls in the specified range.
- 1-2 Trial operation should be carried out in either cooling or heating mode.

■For Heat pump

1) In cooling mode, select the lowest programmable temperature; in heating mode, select the highest programmable temperature.

Trial operation may be disabled in either mode depending on the room temperature.

- In that case, use the remote controller for trial operation as described below.
- After trial operation is complete, set the temperature to a normal level (78°F to 82°F (26°C to 28°C)in cooling mode, 68°F to 75°F (20°C to 24°C) in heating mode).
- For protection, the system disables restart operation for 3 minutes after it is turned off.

■For Cooling only

- Select the lowest programmable temperature.
 - 1) Trial operation in cooling mode may be disabled depending on the room temperature. Use the remote controller for trial operation as described below.
 - 2) After trial operation is complete, set the temperature to a normal level (78°F to 82°F (26°C to 28°C)).
- 3) For protection, the system disables restart operation for 3 minutes after it is turned off.

1-3 Carry out the test operation in accordance with the operation manual to ensure that all functions and parts, such as louver movement, are working properly.

- The air conditioner requires a small amount of power in its standby mode. If the system is not to be used for some time after installation, shut off the circuit breaker to eliminate unnecessary power consumption.
- If the circuit breaker trips to shut off the power to the air conditioner, the system will restore the original operation mode when the circuit breaker is opened again.



Trial Operation and Testing (2)

Trial operation from remote controller.

1) Press the MODE button and select the trial operation mode. (cooling and heating).

2) Press the ON/OFF button to turn on the system.

3) Press the both of TEMP button and the MODE button at the same time.

- 4) Press the MODE button twice. (7⁻ will be displayed and the unit will enter test run mode.)
- Test run mode will stop automatically after around 30 minutes. To stop test run mode, press the ON/OFF button.

2. Test items.

Test items	Symptom (diagnostic display on RC)	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 ground to earth.	Electrical leakage			
The specified wires are used for inter-unit wiring.	Inoperative or burn damage			
Indoor or outdoor unit's air intake or exhaust has clear path of air. Stop valves are opened.	Incomplete cooling/heating function			
Indoor unit properly receives remote controller commands.	Inoperative			
The heat pump or cooling only mode is selectable with the DIP switch of the remote controller.	Remote controller malfunctioning			

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11.2 Outdoor Unit

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 customer on how to operate and maintain the unit. 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 water or refrigerant leakage, electrical 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.
<u>NOTE</u>	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.
- 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 shocks, 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 shocks 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 terminal box lid can be securely fastened. Improper positioning of the terminal box lid may result in electric shocks, fire, or the terminals overheating.
- Before touching electrical parts, turn off the unit.
- Securely fasten the outside unit terminal cover (panel). If the terminal cover/panel is not installed properly, dust or water may enter the outside unit causing fire or electric shock.
- When installing or relocating the system, keep the refrigerant circuit free from substances other than the specified refrigerant (R-410A) 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 R-410A 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 -- R-410A does not contain any chlorine, does not destroy the ozone layer, and does not reduce the earth's protection again harmful ultraviolet radiation. R-410A 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* and follow the procedures.
- Since R-410A 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 R-410A. 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 outside 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 customer to keep the area around the unit clean.
- Install the power supply and control wires for the indoor and outdoor units at least 3.5 feet away from televisions or radios to prevent image interference or noise.
 Depending on the radio waves, a distance of 3.5 feet 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 R-410A, 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 478 psi, the wall thickness of field-installed pipes should be selected in accordance with the relevant local, state, and national regulations.

Precautions for Selecting the Location

- 1) Choose a place solid enough to bear the weight and vibration of the unit, where the operation sounds will not be amplified.
- 2) Choose a location where the hot air discharged from the unit or the operation sounds will not disturb the neighbors of the user.
- 3) Avoid installing near bedrooms so that operation sounds will not be a problem.
- 4) There must be sufficient spaces for carrying 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 be free from the possibility of flammable gas leakage in a nearby place.
- 7) Install units, power cords and inter-unit wire at least 10ft (3m) away from television and radio sets. This is to prevent interference to images and sounds. (Noises may be heard even if they are more than 10ft (3m) away depending on radio wave conditions.)
- 8) In coastal areas or other places with salty atmosphere of sulfate gas, corrosion may shorten the life of the air conditioner.
- 9) Since drain flows out of the outdoor unit, do not place anything under the unit which must be kept away from moisture.

NOTE

Cannot be installed hanging from 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 snowfall areas, select an installation site where the snow will not affect the unit.



Precautions on Installation

- Check the strength and level of the installation ground so that the unit will not cause any operating vibration or noise after installed.
- In accordance with the foundation drawing, fix the unit securely by means of the foundation bolts.
- (Prepare 4 sets of 1/2 inch (M12) foundation bolts, nuts and washers each which are available on the market.)
- It is best to screw in the foundation bolts until their ends are 3/4 inch (20mm) from the foundation surface.



Outdoor Unit Installation Drawings



Installation Guidelines

Where a wall or other obstacle is in the path of outdoor unit's inlet or outlet airflow, follow the installation guidelines 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 outdoor unit

- 1) When installing the outdoor unit, refer to "Precautions for Selecting the Location" and the "Outdoor Unit Installation Drawings".
- 2) If drain work is necessary, follow the procedures below.

2. Drain work

- Use drain plug for drainage.
- If the drain port is covered by a mounting base or floor surface, place additional foot bases of at least 3-15/16 inch (100mm) in height under the outdoor unit's feet.
- In cold areas, do not use a drain socket (A), drain caps (B) and a drain hose with the outdoor unit. (Otherwise, drain water may freeze, impairing heating performance.)
- Insert drain receiver (C) onto drain socket (A) and drain cap (B) beyond 4 projections around drain socket and drain cap.
- Insert drain socket and drain caps into their matching drain hole; Drain socket (A) into drain hole I and drain caps (B) into the other drain holes. After insertion, turn them about 40° clockwise.

(Be sure not to insert them into wrong drain holes, or there causes water leakage.)

(View from bottom)



(C) Drain receiver

NOTE

Check that the drain receiver (C) is correctly engaged with the projections of the drain socket (A) and drain cap (B). Otherwise, water leakage may result.



- 3) Connect vinyl hose on the market (internal diameter of 1 inch (25mm)) to drain socket (A).
 - (If the hose is too long and hangs down, fix it carefully to prevent the kinks.)
- 4) Make sure that there is no water leakage from portion I, II, or III.

NOTE

If the drain holes of the outdoor unit are covered with the mounting bracket or the floor, raise the unit to provide the space of more than 3-15/16 inch (100mm) under the leg of the outdoor unit.

Outdoor Unit Installation

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 chips do not enter the pipe.
- Put the flare nut on the pipe.
- 4) Flare the pipe.
- 5) Check that the flaring is properly made.



WARNING

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

· Align the centers of both flares and tighten the flare

nuts 3 or 4 turns by hand. Then tighten them fully with

4. Refrigerant piping

the torque wrenches.

- Use the flare nut fixed to the main unit to prevent it from cracking and deteriorating from age.
- To prevent gas leakage, apply refrigeration oil only to the inner surface of the flare. (Use refrigeration oil for R410A.)
- Use torque wrenches when tightening the flare nuts to prevent damage to the flare nuts and gas leakage.
 - [Apply oil] Do not apply refrigeration oil to the outer surface. Flare nut Do not apply refrigeration oil to the flare nut to avoid tightening with excessive torque.

Flare nut tightening torque		Valve cap tightening torque	
Gas side	Liquid side	Gas side	Liquid side
5/8 inch (15.9mm)	3/8 inch (9.5mm)	5/8 inch (15.9mm)	3/8 inch (9.5mm)
45.6-55.6ft • lbf	24.1-29.4ft • lbf	35.5-44.0ft • lbf	15.9-20.2ft • lbf
(61.8-75.4N • m)	(32.7-39.9N • m)	(48.1-59.7N • m)	(21.6-27.4N • m)

Service port cap tightening torque	
7.9-10.8ft • lbf	
(10.8-14.7N • m)	

WARNING	
 Do not mix any subs When refrigerant ga R410A, as well as of 	stance other than the specified refrigerant (R410A) into the refrigeration cycle. s leaks occur, ventilate the room as soon and as much as possible. ther refrigerants, should always be recovered and never be released directly into the environment. o for R410A exclusively. Using the same vacuum pump for different refrigerants may damage the vacuum
leakage. • If using additional re unit using a vacuum • Use a hexagonal wr	e completed, it is necessary to purge the air and check for gas afrigerant, perform air purging from the refrigerant pipes and indoor pump, then charge additional refrigerant. ench (3/16 inch (4mm)) to operate the stop valve rod. bints should be tightened with a torque wrench at the specified bints should be tightened with at torque wrench at the specif
1) Connect projection si	de of charging hose (which comes from gauge manifold) to gas stop valve's service port.
	•
	nifold's low-pressure valve (Lo) and completely close its high-pressure valve (Hi). subsequently requires no operation.)
	· · · · · · · · · · · · · · · · ·
3) Do vacuum pumping	and make sure that the compound pressure gauge reads -29.9inHg (-0.1MPa).*1
<u> </u>	•
	i's low-pressure valve (Lo) and stop vacuum pump. few minutes to make sure that the compound pressure gauge pointer does not swing back.)*2
5) Remove caps from lic	uid stop valve and gas stop valve.
6) Turn the liquid stop va	alve's rod 90 degrees counterclockwise with a hexagonal wrench to open valve. ds, and check for gas leakage. neck for gas leakage from indoor unit's flare and outdoor unit's flare and valve rods.
Close it after 5 secon Using soapy water, cl	nplete, wipe all soapy water off.
Close it after 5 secon Using soapy water, ch After the check is con 7) Disconnect charging	nplete, wipe all soapy water off.
Close it after 5 secon Using soapy water, ch After the check is con 7) Disconnect charging	nplete, wipe all soapy water off.
Close it after 5 secon Using soapy water, cl After the check is con 7) Disconnect charging (Do not attempt to tur	nplete, wipe all soapy water off. the set from gas stop valve's service port, then fully open liquid and gas stop valves. n valve rod beyond its stop.)
Close it after 5 secon Using soapy water, cl After the check is con 7) Disconnect charging (Do not attempt to tur	nplete, wipe all soapy water off.
Close it after 5 secon Using soapy water, cl After the check is con 7) Disconnect charging (Do not attempt to tur	hose from gas stop valve's service port, then fully open liquid and gas stop valves. n valve rod beyond its stop.)
 Close it after 5 secon Using soapy water, ch After the check is com 7) Disconnect charging (Do not attempt to tur 8) Tighten valve caps an 	hplete, wipe all soapy water off.

all pipe joints and retighten nuts as needed, then repeat steps 2) through 4).

Outdoor Unit Installation

6. Refilling the refrigerant

Check the type of refrigerant to be used on the machine nameplate.

Precautions when adding R410A Fill from the gas pipe in liquid form.

- It 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 other cylinders

when filling.

Turn the cylinder upside-down

Filling a cylinder with an attached siphon





• Be sure to use the R410A tools to ensure pressure and to prevent foreign objects entering.

7. Refrigerant piping work

7-1 Caution on pipe handling

- 1) Protect the open end of the pipe against dust and moisture.
- 2) 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:

- 1) Insulation material: Polyethylene foam
- Heat transfer rate: 0.041 to 0.052W/mK (0.024 to 0.030Btu/tth°F (0.035 to 0.045kcal/mh°C)) Be sure to use insulation that is designed for use with HVAC Systems.
- 2) Be sure to insulate both the gas and liquid piping and to provide insulation



Liquid side	Gas pipe thermal insulation	Liquid pipe thermal insulation
O.D. 3/8 inch	I.D. 5/8-25/32 inch	I.D. 15/32-19/32 inch
(9.5mm)	(16-20mm)	(12-15mm)
end radius	Thickness 13/32 i	nch (10mm) Min.
1-3/16 inch (30mm)		
or more		
Thickness		
0.031 inch (0.8mm)		
(C1220T-O)		
	O.D. 3/8 inch (9.5mm) end radius 1-3/16 inch (30mm) or more Thickness 0.031 inch (0.8mm)	Liquid sideinsulationO.D. 3/8 inch (9.5mm)I.D. 5/8-25/32 inch (16-20mm)end radiusThickness 13/32 i1-3/16 inch (30mm) or moreThicknessThickness0.031 inch (0.8mm)



Be sure to

place a cap.

If no flare cap is

available, cover the flare mouth with tape to keep dirt of

vater out

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

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 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.

Forced cooling operation

Using the indoor unit ON/OFF switch

- Press the indoor unit ON/OFF switch for at least 5 seconds. (The operation will start.)
- Forced cooling operation will stop automatically after around 15 minutes. To stop the operation, press the indoor unit ON/OFF switch.

Using the indoor unit's remote controller

- 1) Press "MODE" button and select the cooling mode.
- 2) Press "ON/OFF" button to turn on the system.
- 3) Press both of "TEMP" button and "MODE" button at the same time.
- 4) Press "MODE" button twice. (7 will be displayed and the unit will enter forced cooling operation.)
- Forced cooling operation will stop automatically after around 30 minutes.
- To stop the operaion, press "ON/OFF" button.

Using the outdoor unit forced cooling operation switch

Forced cooling operation can be performed when the outdoor unit forced cooling operation switch is pressed within around 3 minutes after power is supplied.

Press the switch (SW1). (The operation will start.)

• Forced cooling operation will stop automatically after around 15 minutes. To stop the operation, press the switch (SW1).



Wiring

WARNING

- Do not use tapped wires, stranded wires, extension cords, or starburst connections, as they may cause overheating, electrical 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.
- Be sure to install a ground fault circuit interrupter breaker. (One that can handle higher harmonics.) (This unit uses an inverter, which means that it must be used a ground fault circuit interrupter breaker capable handling harmonics in order to prevent malfunctioning of the ground fault circuit interrupter breaker itself.)
- Use an all-pole disconnection type breaker with at least 1/8 inch (3mm) between the contact point gaps.
- . When carrying out wiring connection, 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 safety breaker until all work is completed.

- 1) Strip the insulation from the wire (3/4inch (20mm)).
- Connect the connection wires between the indoor and outdoor units so that the terminal numbers match. Tighten the terminal screws securely. We recommend a flathead screwdriver be used to tighten the screws.



NOTE: This equipment can be installed with a Ground-Fault Circuit Breaker (GFCI). Although this is a recognized measure for additional protection, with the earthing system in North America, a dedicated GFCI is not necessary.





Observe the notes mentioned following when wiring to the power supply terminal block. Precautions to be taken for power supply wiring.



3) Pull the wire and make sure that it does not disconnect. Then fix the wire in place with a wire stop.

Facility Setting (cooling at low outdoor temperature)

This function is designed for facilities such as equipment or computer rooms. It is never to be used in a residence or office where people occupy the space.

 You can expand the operation range to 14°F (-10°C) by turning on switch B (SW4) on the PCB. If the outdoor temperature falls to -0.4°F (-18°C) or lower, the operation will stop. If the outdoor temperature rises, the operation will start again.



- 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 condensation from the indoor unit outlet vent. • Use the indoor unit at the highest level of airflow rate.

Trial Operation and Testing

1. Trial operation and testing

- 1-1 Measure the supply voltage and make sure that it falls in the specified range.
- 1-2 Trial operation should be carried out in either cooling or heating mode.
- For heat pump
- In cooling mode, select the lowest programmable temperature; in heating mode, select the highest programmable temperature.
- 1) Trial operation may be disabled in either mode depending on the room temperature.
- 2) After trial operation is complete, set the temperature to a normal level (78°F to 82°F (26°C to 28°C) in cooling mode, 68°F to 75°F (20°C to 24°C) in heating mode).
- 3) For protection, the system disables restart operation for 3 minutes after it is turned off.
- For cooling only
- Select the lowest programmable temperature.
- 1) Trial operation in cooling mode may be disabled depending on the room temperature.
- 2) After trial operation is complete, set the temperature to a normal level (78°F to 82°F (26°C to 28°C)).
- 3) For protection, the system disables restart operation for 3 minutes after it is turned off.
- 1-3 Carry out the test operation in accordance with the operation manual to ensure that all functions and parts, such as fin movement, are working properly.
 - The air conditioner requires a small amount of power in its standby mode. If the system is not to be used for some time after installation, shut off the circuit breaker to eliminate unnecessary power consumption.
 - If the circuit breaker trips to shut off the power to the air conditioner, the system will restore the original operation mode when the circuit breaker is opened again.

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.	Inoperative or burn damage	
Indoor or outdoor unit's air inlet or air outlet has clear path of air. Stop valves are opened.	Incomplete cooling/heating function	
Indoor unit properly receives remote control commands.	Inoperative	

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12. Operation Manual

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 customer on how to operate and maintain the unit.

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

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.
<u></u> NOTE	Indicates situations that may result in equipment or property-damage accidents only.

- 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.
- 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 remove the fan guard of the unit. A fan rotating at high speed without the fan guard is very dangerous.
- 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.
- Placing a flower vase or other containers with water or other liquids on the unit could cause a shock or fire if a spill occurs.
- Do not touch the air outlet or horizontal blades while the swing flap is in operation because fingers could get caught and injured.
- Never touch the internal parts of the controller. Do not remove the front panel because some parts inside are dangerous to touch. To check and adjust internal parts, contact your dealer.
- 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 five 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 outside 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.
- 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 air flow 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 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.
- 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:
 - a. Places that can sufficiently withstand the weight of the air conditioner or heat pump yet can suppress the operating sound and vibration.
 - b. Places where warm air from the air outlet of the outside unit or the operating sound of the outside unit does not annoy neighbors.
- Make sure that there are no obstacles close to the outside unit. Obstacles close to the outside unit may drop the performance of the outside unit or increase the operating sound of the outside 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.



Open the front panel 0 Air filter č Titanium apatite photocatalytic air-purifying filter Outdoor Unit Appearance of the outdoor unit may differ from some models. Air inlet: (back and side) Ground terminal Inside this cover. Air outlet Model name plate **Refrigerant piping and** inter-unit wiring Drain hose to

Names of Parts

Remote Controller: ARC452A21



Open the front cover









AUTO · DRY · COOL · HEAT · FAN Operation





Adjusting the Airflow Direction





COMFORT AIRFLOW Operation



The flow of air will be in the upward direction while in COOL operation and in the downward direction while in HEAT operation, providing comfortable cool or warm air that does not come in direct contact with people.

■ To start COMFORT AIRFLOW operation

1. Press **()**/**()** and select "**()**" on the LCD.

- Each time the () is pressed a different setting option is displayed on the LCD.
- By selecting "இ இ" from the following icons, the air conditioner will be in COMFORT AIRFLOW operation combined with INTELLIGENT EYE operation. ▶Page 16



■ To cancel COMFORT AIRFLOW operation



• Press the button to select "Blank".

NOTE

Notes on COMFORT AIRFLOW operation

- The louvers position will change, preventing air from blowing directly on the occupants of the room.
- POWERFUL operation and COMFORT AIRFLOW operation cannot be used at the same time.
- The volume of air will be set to AUTO. If the upward and downward airflow direction is selected, the COMFORT AIRFLOW function will be canceled.
- Priority is given to the function of whichever button is pressed last.
- The COMFORT AIRFLOW function makes the following airflow direction adjustments. The louvers will move upward while cooling so that the airflow will be directed upward. The louvers will move downward while heating so that the airflow will be directed downward.





INTELLIGENT EYE Operation



"INTELLIGENT EYE" is the infrared sensor which detects the human movement.

To start INTELLIGENT EYE operation



	/ \

Display



- When the louvers (horizontal blades) are swinging, the operating as above will stop movement of them.
- The lamp will be lit while human movements are detected.

■ To cancel the INTELLIGENT EYE operation



• Press the button to select "Blank".

[EX.]



INTELLIGENT EYE Operation

"INTELLIGENT EYE" is useful for energy saving

- Energy saving operation
 - Change the temperature –3.6°F (-2°C) in heating / +3.6°F (+2°C) in cooling / +3.6°F (+2°C) in dry mode from set temperature. When the room temperature exceeds 86°F (30°C), the operation changes the temperature +1.8°F (+1°C) in COOL / +1.8°F (+1°C) in DRY mode from set temperature.
 - Decrease the airflow rate slightly in FAN mode only.
 If no presence detected in the room for 20 minutes.

NOTE

- Notes on "INTELLIGENT EYE"
- Application range is as follows



- Sensor may not detect moving objects further than 23ft (7m) away. (Check the application range)
- Sensor detection sensitivity changes according to indoor unit location, the speed of passersby, temperature range, etc.
- The sensor also mistakenly detects pets, sunlight, fluttering curtains and light reflected off of mirrors as passersby.
- INTELLIGENT EYE operation will not go on during POWERFUL operation.
- NIGHT SET mode Page 20 will not go on during use of INTELLIGENT EYE operation.
- To combine "COMFORT AIRFLOW operation" and "INTELLIGENT EYE operation"
- 1. Press 🖳 / 🔊 and select " 🕋 🔊 " on the LCD.

• Each time the **(*/*)** is pressed a different setting option is displayed on the LCD.



To cancel "COMFORT AIRFLOW operation" and "INTELLIGENT EYE operation"

2. Press ***/***.

• Press the button to select "Blank".

- The air conditioner can go into operation with the COMFORT AIRFLOW and INTELLIGENT EYE functions combined.
- The volume of air will be set to AUTO. If the upward and downward airflow direction is selected, the COMFORT AIRFLOW operation will be canceled.

Priority is given to the function of whichever button is pressed last.

• Do not place large objects near the sensor.

Also keep heating units or humidifiers outside the sensor's detection area. This sensor can detect undesirable objects. •Do not hit or forcefully push the INTELLIGENT EYE sensor. This can lead to damage and malfunction.

POWERFUL Operation



POWERFUL operation quickly maximizes the cooling (heating) effect in any operation mode. You can get the maximum capacity.

■ To start POWERFUL operation



- POWERFUL operation ends in 20 minutes. Then the system automatically operates again with the previous settings which were used before POWERFUL operation.
- "+" is displayed on the LCD.
- When using POWERFUL operation, there are some functions which are not available.

To cancel POWERFUL operation



• """ is no longer displayed on the LCD.

NOTE

Notes on POWERFUL operation

- POWERFUL operation cannot be used together with ECONO, COMFORT AIRFLOW or QUIET operation.
- POWERFUL operation will not increase the capacity of the air conditioner if the air conditioner is already in operation with its maximum capacity demonstrated.
- In COOL, HEAT and AUTO operation

To maximize the cooling (heating) effect, the capacity of outdoor unit is increased and the airflow rate is fixed to the maximum setting. The temperature and airflow settings are not variable.

In DRY operation

The temperature setting is lowered by 4.5°F (2.5°C) and the airflow rate is slightly increased.

In FAN operation

The airflow rate is fixed to the maximum setting.

OUTDOOR UNIT QUIET Operation



OUTDOOR UNIT QUIET operation lowers the noise level of the outdoor unit by changing the frequency and fan speed on the outdoor unit. This function is convenient during night.

■ To start OUTDOOR UNIT QUIET operation



• "fb" is displayed on the LCD.

■ To cancel OUTDOOR UNIT QUIET operation



• "from" is no longer displayed on the LCD.



Notes on OUTDOOR UNIT QUIET operation

- This function is available in COOL, HEAT, and AUTO operation. (This is not available in FAN and DRY operation.)
- POWERFUL operation and OUTDOOR UNIT QUIET operation cannot be used at the same time.
- Priority is given to the function of whichever button is pressed last.
- If operation is stopped using the remote controller or the indoor unit ON/OFF switch when using OUTDOOR UNIT QUIET operation, "1 will remain on the remote controller display.
- OUTDOOR UNIT QUIET operation will drop neither the frequency nor fan speed if the frequency and fan speed have been already dropped low enough.

ECONO Operation

VDAIKIN

ECONO operation is a function which enables efficient operation by limiting the maximum power consumption value. This function is useful for cases in which attention should be paid to ensure a circuit breaker will not trip when the product runs alongside other appliances.



TIMER Operation

Timer functions are useful for automatically switching the air conditioner on or off at night or in the morning. You can also use OFF TIMER and ON TIMER in combination.

■ To use OFF TIMER operation

• Check that the clock is correct. If not, set the clock to the present time. Page 9





- " \oplus " and day of the week are no longer displayed on the LCD.

2. Press still until the time setting reaches the point

you like.

• Each pressing of either button increases or decreases the time setting by 10 minutes. Holding down either button changes the time setting rapidly.

3. Press OFF again.

"OFF " and setting time are displayed on the LCD. The TIMER lamp lights yellow.

Display

■ To cancel OFF TIMER operation Press CANCEL.

- " OFF " and setting time are no longer displayed on the LCD.
- " \oplus " and day of the week are displayed on the LCD.
- The TIMER lamp goes off.

NOTE

- Notes on TIMER operation
 - When TIMER is set, the present time is not displayed.
 - Once you set ON, OFF TIMER, the time setting is kept in the memory. (The memory is canceled when remote controller batteries are replaced.)
 - When operating the unit via the ON/OFF TIMER, the actual length of operation may vary from the time entered by the user. (Maximum approximately 10 minutes)

NIGHT SET mode

When the OFF TIMER is set, the air conditioner automatically adjusts the temperature setting (0.9°F (0.5°C) up in COOL, 3.6°F (2.0°C) down in HEAT) to prevent excessive cooling (heating) for your pleasant sleep.



WEEKLY TIMER Operation

Up to 4 timer settings can be saved for each day of the week. It is convenient if the WEEKLY TIMER is set according to the family's life style.

■ Using in these cases of WEEKLY TIMER

An example of WEEKLY TIMER settings is shown below.

Example: The same timer settings are made for the week from Monday through Friday while different timer settings are made for the weekend.





WEEKLY TIMER Operation



6. Press **SELECT** to select the desired time.

- The time can be set between 0:00 and 23:50 in 10 minute intervals.
- To return to the ON/OFF TIMER mode setting, press BACK .
- Go to STEP 9 when setting the OFF TIMER.

7. Press NEXT

- The time will be set.
- " WEEKLY " and the temperature blink.

8. Press **SELECT** to select the desired temperature.

- The temperature can be set between 50°F (10°C) and 90°F (32°C). Cooling: The unit operates at 64°F (18°C) even if it is set at 50 (10) to 63°F (17°C). Heating: The unit operates at 86°F (30°C) even if it is set at 87 (31) to 90°F (32°C).
- To return to the time setting, press BACK
- The set temperature is only displayed when the mode setting is on.

9. Press NEXT

- The temperature will be set and go to the next reservation setting.
- To continue further settings, repeat the procedure from STEP 4.

10. Press \Rightarrow to complete the setting.

- · Be sure to direct the remote controller toward the indoor unit and check for a receiving tone and flashing the operation lamp.
- "OWEEKLY" is displayed on the LCD and WEEKLY TIMER operation is activated.
- The TIMER lamp lights yellow.

Display	

• A reservation made once can be easily copied and the same settings used for another day of the week. Refer to Copy mode . ▶Page 25

NOTE

- Notes on WEEKLY TIMER operation
 - Do not forget to set the clock on the remote controller first. Page 9
 - The day of the week, ON/OFF TIMER mode, time and set temperature (only for ON TIMER mode) can be set with WEEKLY TIMER. Other settings for ON TIMER are based on the settings just before the operation.
 - Both WEEKLY TIMER and ON/OFF TIMER operation cannot be used at the same time. The ON/OFF TIMER operation has priority if it is set while WEEKLY TIMER is still active. The WEEKLY TIMER will go into standby state, and "OWEEKLY" will be no longer displayed on the LCD. When ON/OFF TIMER is up, the WEEKLY TIMER will automatically become active
 - Only the time and set temperature set with the weekly timer are sent with the
 - Set the weekly timer only after setting the operation mode, the fan strength, and the fan direction ahead of time.
 - Shutting the breaker off, power failure, and other similar events will render operation of the indoor unit's internal clock inaccurate. Reset the clock. Page 9
 - The BACK can be used only for the time and temperature settings.
 - It cannot be used to go back to the reservation number.



WEEKLY TIMER Operation



Confirming a reservation

• The reservation can be confirmed.

Setting Displays 5:00 TUE **IS:30** יך ר Normal display Confirmation display

1. Press \Rightarrow

• The day of the week and the reservation number of the current day will be displayed.



reservation number to be confirmed.



• Pressing SELECT displays the reservation details.

 \bullet To change the confirmed reserved settings, select the reservation number and press $\fbox{\sf NEXT}$. The mode is switched to setting mode. Go to Setting mode STEP 4. Page 23



- " @WEEKLY " is displayed on the LCD and WEEKLY TIMER operation is activated.
- The TIMER lamp lights yellow.

Display	


WEEKLY TIMER Operation



The reservations for each day of the week This function can be used for deleting reservations for each day of the week.
1. Press
2. Press SELECT to select the day of the week to be
deleted.
3. Hold WEEKLY for 5 seconds.
The reservation of the selected day of the week will be deleted.
All reservations
Hold WEEKLY for 5 seconds while normal display.
 Be sure to direct the remote controller toward the indoor unit and check for a receiving tone

- k for a receiving tone.
- This operation is not effective while WEEKLY TIMER is being set.
- All reservations will be deleted.

Panel tab

Slide

Front panel shaft

2) Pull

Care and Cleaning

CAUTION Before cleaning, be sure to stop the operation and turn the breaker off.

Units

Indoor unit and remote controller

• Wipe them with a soft cloth when dirty.

Front panel

1. Open the front panel.

• Hold the front panel by the panel tabs on the both sides and open it.

2. Remove the front panel.

• Slide the front panel to either the left or right and pulling it toward you.

This will disconnect the front panel shaft on one side.

3. Clean the front panel.

- Wipe it with a soft cloth soaked in water.
- Only neutral detergent may be used.
- In case of washing the panel with water, wipe it with dry soft cloth, dry it up in the shade after washing.

4. Attach the front panel.

- Align the front panel shaft on the left and right of the front panel with the slots, then push them all the way in.
- Close the front panel slowly. (Press the panel at both sides and the central area.)



2) Pul

- Do not touch the aluminum fins of the indoor unit. If you touch those parts, this may cause an injury.
- When removing or attaching the front panel, use a robust and stable stool and watch your steps carefully.
- When removing or attaching the front panel, support the panel securely with hand to prevent it from falling.
- For cleaning, do not use hot water above 104°F (40°C), benzine, gasoline, thinner, nor other volatile oils, polishing compound, scrubbing brushes, nor other hand stuff.
- After cleaning, make sure that the front panel is securely fixed.

Care and Cleaning

Filters

1. Open the front panel. Page 29

2. Pull out the air filters.



• Hold the recessed parts of the frame and unhook the 4 claws.





5. Set the filters as they were and close the front panel.

• Press the front panel at both sides and the central area.

• Do not touch the aluminum fins by bare hand at the time of dismounting or mounting the filter.

[•] Push the filter tab at the center of each air filter slightly upward, then pull it down.

Air filter

Wash the air filters with water or clean them with vacuum cleaner.

- If the dust does not come off easily, wash them with neutral detergent thinned with lukewarm water, then dry them up in the shade.
- It is recommended to clean the air filters every 2 weeks.

Titanium apatite photocatalytic air-purifying filter

The titanium apatite photocatalytic air-purifying filter can be renewed by washing it with water once every 6 months.

We recommend replacing it once every 3 years.

[Maintenance]

1. Vacuum dusts, and soak in warm water or water for about 10 to 15 minutes if dirt is heavy.

• Do not remove the filter from frame when washing with water.

2. After washing, shake off remaining water and dry in the shade.

• Since the material is made out of polyester, do not wring out the filter when removing water from it.

[Replacement]

1. Remove the tabs on the filter frame and replace with a new filter.

· Dispose of the old filter as non-flammable waste.







Care and Cleaning

NOTE

- Operation with dirty filters:
 - 1) cannot deodorize the air.
 - 2) cannot clean the air.
 - 3) results in poor heating or cooling.
 - 4) may cause odor.
- To order titanium apatite photocatalytic air-purifying filter contact to the service shop there you purchased the air conditioner.
- Dispose of old filters as non-flammable waste.

Item	Part No.
Titanium apatite photocatalytic air-purifying filter (without frame) 1 set	KAF970A48
TTENTION Do not throw away the filter frame. Reuse the filter frame when replacing the	titanium apatite photocatalytic air-puri

CHECK

- Check that the base, stand and other fittings of the outdoor unit are not decayed or corroded.
- Check that nothing blocks the air inlets and the outlets of the indoor unit and the outdoor unit.
- Check that the drain comes smoothly out of the drain hose during COOL or DRY operation.
 If no drain water is seen, water may be leaking from the indoor unit. Stop operation and consult the service shop if this is the case.

Before a long idle period.

- **1.** Operate the "FAN only" for several hours on a nice day to dry out the inside.
 - Press MODE and select " Press MODE and select "
 - Press on start the operation.
- **2.** After operation stops, turn off the breaker for the room air conditioner.
- **3.** Clean the air filters and set them again.
- **4.** Take out batteries from the remote controller.

Troubleshooting

These cases are not troubles.

The following cases are not air conditioner troubles but have some reasons. You may just continue using it.



Troubleshooting

Case		Explanation		
The outdoor fan rotates while the air conditioner is not in operation.	▶	 After operation is stopped: The outdoor fan continues rotating for another 60 seconds 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.		
No remote controller signals are displayed. The remote controller sensitivity is low. The display is low in contrast or blacked out. The display runs out of control.	▶	• The batteries are dying and the remote controller is malfunctioning. Replace all the batteries with new size batteries, AAA.LR03 (alkaline). For details, refer to set the batteries of this manual. Page 8		
The ON/OFF TIMER does not operate according to the settings.	▶	• Check if the ON/OFF TIMER and the WEEKLY TIMER are set to the same time. Change or disable the settings in the WEEKLY TIMER. Page 23		

Check again.

Please check again before calling a repair person.

Case	Check		
The air conditioner does not operate. (OPERATION lamp is off.)	 Is a breaker off or a fuse blown? Is there 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 to block 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? Clean the air filters. Is there anything to block the air inlet or the outlet of the indoor and the outdoor units? Turn the breaker off and take all obstacles away. Then turn it on again and try operating the air conditioner with the remote controller. If the lamp still flashes, call the service shop where you purchased the air conditioner. 		
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.		
The flap does not start swinging immediately.	The air conditioner is adjusting the flap position. The flap will start moving soon.		
HEAT operation cannot be selected, even though the unit is heat pump model.	Slide the DIP switch to the left as shown in the illustration so that the HEAT operation can be selected with the "MODE" button.		

■ Call the service shop immediately.

- When an abnormality (such as a burning smell) occurs, stop operation and turn the breaker off.
 Continued operation in an abnormal condition may result in malfunctioning, electric shocks or fire.
 - Consult the service shop where you purchased the air conditioner.
- Do not attempt to repair or modify the air conditioner by yourself.
 - Incorrect work may result in electric shocks or fire.
 - Consult the service shop where you purchased the air conditioner.

If one of the following symptoms occurs, call the service shop immediately.

- The power cord is abnormally hot or damaged.
- An abnormal sound is heard during operation.
- The safety breaker, a fuse, or the ground leakage 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 the breaker off and call the service shop.



After a power failure

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

Lightning

• If lightning may strike the neighboring area, stop operation and turn the breaker off for system protection.

■ 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 periodic maintenance by a specialist aside from regular cleaning by the user.
- · For specialist maintenance, contact the service shop where you purchased the air conditioner.
- The maintenance cost must be born by the user.

Troubleshooting

Fault diagnosis.

FAULT DIAGNOSIS BY REMOTE CONTROLLER

In the ARC452A series, the temperature display sections on the main unit indicate corresponding codes.

1. When the TIMER CANCEL button is held down for 5 seconds, a " 🖓 " indication flashes on the temperature display section.



2. Press the TIMER CANCEL button repeatedly until a continuous beep is produced.

• The code indication changes as shown below, and notifies with a long beep.

	CODE	MEANING
	00	NORMAL
	U0	REFRIGERANT SHORTAGE
SYSTEM	U2	DROP VOLTAGE OR MAIN CIRCUIT OVERVOLTAGE
	U4	FAILURE OF TRANSMISSION (BETWEEN INDOOR UNIT AND OUTDOOR UNIT)
	A1	INDOOR PCB DEFECTIVENESS
	A5	HIGH PRESSURE CONTROL OR FREEZE-UP PROTECTOR
	A6	FAN MOTOR FAULT
	C4	FAULTY HEAT EXCHANGER TEMPERATURE SENSOR
	C9	FAULTY SUCTION AIR TEMPERATURE SENSOR
	EA	COOLING-HEATING SWITCHING ERROR
	E5	OL STARTED
	E6	FAULTY COMPRESSOR START UP
	E7	DC FAN MOTOR FAULT
	E8	OPERATION HALT DUE TO DETECTION OF INPUT OVER CURRENT
	F3	HIGH TEMPERATURE DISCHARGE PIPE CONTROL
OUTDOOR	H6	OPERATION HALT DUE TO FAULTY POSITION DETECTION SENSOR
UNIT	H8	CT ABNORMALITY
	H9	FAULTY SUCTION AIR TEMPERATURE SENSOR
	J3	FAULTY DISCHARGE PIPE TEMPERATURE SENSOR
	J6	FAULTY HEAT EXCHANGER TEMPERATURE SENSOR
	L4	HIGH TEMPERATURE AT INVERTER CIRCUIT HEATSINK
	L5	OUTPUT OVERCURRENT
	P4	FAULTY INVERTER CIRCUIT HEATSINK TEMPERATURE SENSOR

NOTE

A short beep and two consecutive beeps indicate non-corresponding codes.

• To cancel the code display, hold the TIMER CANCEL button down for 5 seconds. The code display also cancel itself if the button is not pressed for 1 minute.

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13. Optional Accessories

13.1 Option List

13.1.1 Indoor Unit

	Option Name	Model Name
1	Wired remote controller	BRC944B2-A08
2	Centralized Control Board-Up to 5 Rooms ★1	KRC72
3	Wiring Adaptor for Timer Clock / Remote Controller ★2 (Normal Open Pulse Contact / Normal Open Contact)	KRP413AB1S
4	Central Remote Controller (Fahrenheit) ★3	DCS302C71
5	Unified ON/OFF Controller ★3	DCS301C71
6	Schedule Timer Controller ★3	DST301BA61
7	Interface Adaptor for DIII-NET (Residential Air Conditioner)	KRP928BB2S
8	Titanium Apatite Photocatalytic Air-purifying Filter (Without frame) ★4	KAF970A48
9	Remote Controller Loss Prevention with Chain	KKF910A4

★1 A wiring adaptor (KRP413AB1S) is also required for each indoor unit.

- $\bigstar 2$ Timer clock and other devices ; obtained locally.
- ★3 An interface adaptor (KRP928BB2S) is also required for each indoor unit.
- ★4 Standard accessory

13.1.2 Outdoor Unit

ſ	Option Name		Model Name
ſ	1	Air Direction Adjustment Grille	KPW5E112
	2	Drain Plug ★	KKP945A4

★ Standard accessory for heat pump models

Note:

Note:

13.2 <BRC944B2> Wired Remote Controller

13.2.1 Installation Manual

⚠ CAUTION

- 1. No switch box or staple is supplied. Prepare them locally.
- 2. No remote controller cord is supplied. Prepare the optional remote controller cord 4 wire.
- 3. Be sure to turn off the power to any apparatus connected prior to mounting.
- 4. Prior to mounting equipment, touch something metallic such as a doorknob to remove static electricity from your body. Never touch the remote controller board or the adapter board.
- 5. Keep the wiring away from any other power source lines to avoid electric noise (external noise).
- 6. Select a flat surface, wherever possible, to mount the remote controller. To prevent deformation of the cases, do not overtighten the mounting screws.

1. Securing the remote controller lower case

Insert a bladed screwdriver into the concave (凹) in the remote controller lower case to remove the upper case assembly (two locations).

The remote controller board is located on the upper case. Take care not to scratch the board with the screwdriver.



- (1) Exposed mounting Secure the remote controller lower case with the two supplied wood screws.
 Wood screws (\ophi3.5mm × 16mm)
- (2) Embedded mounting

Secure the remote controller lower case with the two supplied machine screws.







5. Temperature indication change

To change from Celsius temperature indication to Fahrenheit one



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13.2.2 Operation Manual

Controller Commands and their Corresponding Functions





Preparation before Operation

Setting Temperature Indication change

Temperature indication can be changed between Celsius and Fahrenheit before use.

To change from Celsius temperature indication to Fahrenheit one

Press and hold down TEMP at the same time for 5 seconds while the Celsius temperature is indicated.





To change from Fahrenheit temperature indication to Celsius one

2 Press and hold down [⊕]TEMP</sup> at the same time for 5 seconds while the Fahrenheit temperature is indicated.



Automatic.DRY.Cooling.Heating Operation

Select your desired operation mode.

Once preset, the system can get restarted in the same operation mode.



■ To stop the operation:

Press ON/OFF again.

The run indicator lamp goes out.

Automatic operation)

 In Automatic, the temperature setting and operation mode (DRY, Cooling or Heating) are automatically selected according to the room temperature and outdoor temperature at the time of starting operation.

DRY operation

• In this mode, humidity is removed from the air.



 While running in the DRY mode, you may feel cool or warm air from the air outlet. In this case, readjust the airflow direction with the vertical airflow direction louvers. (except Duct Connected type)

Operation Setting mode to be adjusted	Automatic	Cooling	Heating	DRY
(Temperature)	Temperature is adjustable. Recommended temperature Cooling : 26°C-28°C (79°F~82°F) Heating : 20°C-22°C (68°F~72°F)			Temperature cannot be adjusted.
<pre></pre>	Five levels of airflow rate setting from " = " to " = plus " (A) " are available.		Airflow rate cannot be adjusted.	

■ To adjust the temperature and airflow rate:

• When the unit runs in the cooling or heating mode at a low airflow rate, the cooling or heating effect may be insufficient.

■ To adjust the airflow direction:

(🕼 page 9)

(Heating operation)

- Since the heating operation is performed by taking the heat from outdoor into the room, the heating capacity decreases as the outdoor temperature lowers. If the room is not heated sufficiently, it is recommended to use other heating appliance at the same time.
- Since the air conditioner heats the whole room by circulating hot air, it takes some time to heat the entire room completely.
- If the outdoor unit gets frosted during heating operation, the heating capacity is decreased. In this case, the unit starts defrosting operation.
- No hot air comes out of the indoor unit during defrosting operation.

Adjusting Airflow Direction

Adjust the airflow direction for maximum comfort.

To adjust the Airflow Direction

Press during operation.

• Each time the button is pressed, the airflow direction louvers change their movement.



■ Wall Mounted Types (without horizontal swing function)



Adjustment of horizontal airflow direction

• The automatic moving range of the horizontal airflow direction louvers varies depending on the operation mode.



- In fixing the horizontal airflow direction, keep the horizontal airflow direction louvers tilted downward in the heating mode, and keep them nearly horizontal level in the cooling or DRY mode. This will enhance the cooling and heating effect.
- On the air conditioners with vertical and horizontal swing function, be sure to adjust the airflow directions using the remote controller. Do not forcibly adjust louvers by hand or a malfunction may occur.

■ Wall Mounted Type (with horizontal swing function)



• The vertical and horizontal louvers cannot move at the same time.

Duct Connected Type (without swing function)

This function cannot be used.



 The operating procedure and remote controller display are different depending on the indoor unit being connected.
 Read How to Adjust the Airflow Direction in the air conditioner's Operation Manual.

Timer Operation

The Timer Operation feature automatically turns off operation when you go to sleep and turns it back on when you wake up.

Use the DAILY Timer mode on weekdays, and the ONE TIME timer mode on weekends.

To select the ONE TIME timer mode:



- Before starting the timer operation, make sure the current time is correct. If not, set the clock correctly. (□ page 5)
- In making time settings, --:- is displayed to make it easy to disable the timer too.
- If one minute has passed before making any timer setting, the previous timer settings are reintroduced and the timer is on standby.

In this case, use the $\stackrel{\text{\tiny SET}}{\longrightarrow}$ (time setting) button and make your desired timer settings.

- When the ON timer is programmed, the system starts one hour (maximum) earlier so that the temperature set by the remote controller is reached just in time.
- When the ONE TIME timer is programmed, the current time is no longer displayed.

ONE TIME timer

Once the timer has been activated and then deactivated, it is in the OFF mode. The ON or OFF timers can be programmed.









DAILY timer

After programming, the system starts and stops each day at the preset times. Two pairs of time settings can be programmed.

(Example: 8:00 ~ 10:00, and 18:00 ~ 23:00)



2 Make the ON and OFF time settings. • Take the steps from ① to ⑧. Program example: 8:00 ~ 10:00, and 18:00 ~ 23:00

Procedure		Press SET	
Timer	ON time setting ● When the timer 1 is not used, save the setting as ⊕ -		
	OFF time setting		
Timer	ON time setting ● When the timer 2 is not used, save the setting as ⊕ -		
	OFF time setting		

3 Press

SET

) . The DAILY timer is now programmed.



Cleaning

- Cleaning the remote controller

• Wipe it clean with soft, dry cloth.

Do not use any water hotter than 40°C (104°F), or volatile liquids such as benzine, gasoline and thinner, polishing powder, or anything hard such as a scrub brush.



13.3 <KRP413AB1S> Wiring Adaptor for Timer Clock / Remote Controller

Safety Precautions

- Read these safety precautions carefully before installing the unit, and be sure to install the unit properly.
- This manual classifies precautions to the user into the following two categories. These warnings and cautions are for your safety. Follow them.

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.

• After installation is complete, test the unit to confirm that it is working properly, and instruct the owner its proper use.

/ WARNING

- Installation should be left to the dealer from whom you purchased the unit, or another qualified professionals.
- Install the unit securely according to the installation manual. Faulty installation may lead to electric shock or fire.
- Be sure to use the supplied or specified parts. Using other parts may lead to electric shock or fire.
- Install the unit securely in a location that will support its weight. If installed in a
 poor location or improperly installed, the unit may not work as intended.
- For electrical work, follow local electric standards and the installation manual. Faulty installation may lead to fire or electric shock.
- Do not bundle the power cord, or attempt to extend it by splicing it with another cord or by using an extension cord. Do not place any other load on the power circuit used for the unit. Improper wiring may lead to electric shock, heat
- generation or fire. • Use dedicated wiring for all electrical connections, and be sure to arrange the
- wiring so that force applied to the wiring will not damage the terminals. Poor wiring or installation may cause electric shock, heat generation or fire.

A CAUTION

- Before installation, unplug the air conditioner to ensure safety. Failure to do so may cause electric shock.
- Static electricity may damage electric components. Before connecting cables and communication lines, and operating the switches, be sure to discharge any electrical charge from your body (by, for example, touching the ground line)
- Do not install the unit in a location where it may be exposed to flammable gases. If gas leaks and build up around the unit, it may catch fire.
- Do not place the wiring close to the power cord, inter-unit cable, or pipes which generate noise. Treat the wiring with care.

1. Functions and Features

- On/Off setting
- Switching between Instantaneous Contact/Normal Contact
- Connection with five-room central controller (KRC72 for oversea model)
- Connection with fan coil remote controller
- Automatic reset after power failure
- Output of normal operation signals/malfunction signals

2. Field Wiring

For interconnecting wiring, use Daikin KDC100A12 cable (not supplied) or other similar cable. Use a vinyl-covered wire or cable with four conductors each with a thickness of 0.2 to 1.25 mm².

Optional cable KDC100A12 (without connectors)

- Specifications: $0.2 \text{ mm}^2 \times 4 \text{ core (sheathed)}$
- Outer diameter:φ5.3Length:100 mColour:Grey
- Note : Keep any wiring for the control unit away from the power cord to prevent electrical noise.









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13.4 <KRP928BB2S> Interface Adaptor for DIII-NET (Residential Air Conditioner)

Safet	y Precauti	ons
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- Read these Safety Precautions carefully to ensure correct installation. This manual classifies precautions into WARNING and CAUTION.
- 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.

Be sure to follow all the precautions below ; they are all important for ensuring safety.

- Installation should be left to the dealer or another qualified professional.
- Improper installation by yourself may cause malfunction, electrical shock, or fire.
 Install the set according to the instructions given in this manual.
- Incomplete or improper installation may cause malfunction, electrical shock, or fire.
- Be sure to use the standard attachments or the genuine parts.
- Use of other parts may cause malfunction, electrical shock, or fire.
- Disconnect power to the connected equipment before starting installation.
 Failure to do so may cause malfunction, electrical shock, or fire.

- A ground leakage circuit breaker should be installed.
- If the breaker is not installed, electrical shock may occur.
- Do not install the set in a location where there is danger of exposure to inflammable gas.
- Gas accumulated around the unit at the worst may cause fire.
- To prevent damage due to electrostatic discharge, touch your hand to a nearby metal object (doorknob, aluminum sash, etc.) to discharge static electricity from your body before touching this kit.
 Static electricity can damage this kit.
- Lay this cable separately from other power cables to avoid external electrical noises.
- After installation is complete, test the operation of the PCB set to check for problems, and explain how to use the set to the end-user.

1. Overview, Features and Compatible Models

This kit is the interface required when connecting the central controller and a Daikin Room Air Conditioner. Use of the central controller makes it possible to perform the following monitoring and operations. It is compatible with room air conditioners which have an HA connector S21.

- 1.Run / stop for the central controller and wired remote controller, operating mode selection, and temperature can be set.
- 2. The operating status, any errors, and the content of those errors can be monitored from the central controller and wired remote controller.
- 3.Run / stop for the central controller and wireless remote controller, operating mode selection, and the temperature setting can be limited by the central controller.
- 4.Zone control can be performed from the central controller.5.The unit can remember the operating status of the air conditioner before a power
- outage and then start operating in the same status when the power comes back on. 6.Card keys, operating control panels, and other constant / instantaneous
- connection-compatible equipment can be connected.
- 7.The Operating / error signals can be read.
- 8.HA JEM-A-compatible equipment can be connected.
- 9. The indoor temperature can be monitored from the Ve-up controller

Precaution

- When reading the Operating / error signals, a separate external power source (12 V DC) is needed.
- A separate timer power source (16 V DC) is needed when using the schedule timer independently, and not in conjunction with other central controllers.
 The rance of temperatures that can be set from the central controller is 18°C to
- 3. The range of temperatures that can be set from the central controller is 18°C to 32°C in cooling and 14°C to 28°C in heating.
- Group control (i.e., control of multiple indoor units with a single remote controller) is not available.
- Monitoring is not available of the thermo status, compressor operating status, indoor fan operating status, electric heater, or humidifier operating status.
 Forced thermo off, filter sign display and reset, fan direction and speed settings,
- Forced thermo off, filter sign display and reset, fan direction and speed settings, air conditioning fee management, energy savings instructions, low-noise instructions, and demand instructions cannot be made.

2.Component Parts

This kit includes the following components. Check to ensure that none of these are missing.

	Parts	Q'ty	Parts	Q'ty
	Kit assy PCB is in the housing.		Connection harness (about 1.6m)	1set
		1	Mounting screws	3pcs.
			Binding band	6pc.
			Installation manual	2set



NOTE			power on after all the switches have been set. made while the power is on are invalid.								
	erseas air con	/ Japan ditioners	ese ur s, differ	nit sei rent n	tting (S nethoc		ed for s		he temp	ber	ature in
Destination		3-3 sett			00001		Vhat Ha	appens			
Japan	Japan OFF (Factory setting) (Factory setting) + "Automatic" operation is not available from the central controller. When using "automatic" operation using the wireless remote controller, the central controller displays automatic cooling (heating) and 25°C. Even if the temperature is changed, it will return to 25°C after a while.										
Overseas		ON	•	"Aut	omatic"	operation	is availa	ble from	the centr	al c	ontroller
than or Use SV However, t ndepende The settin central cor	ese wh ne unit W2-R f hese s ntly. Igs are ntroller	en using to the s or (3) So ettings needeo	the ce ame n ettings do not l when	entral umbe wher need usec	l contr er. n reco l to be d in co	oller. (Se vering fro made w njunctior	et to the om a po hen usi n with a	ower ou ing the nother	tage. schedul DCS Se	le ti erie	mer s
n this case, group numb											
	Knob positioț OF	<u> </u>		-	3—	4	5— R 7 6	6	7-	- 3 5	8— R 7 6 5
Lower group NO.		00	01	-	02	03	04	05	06	;	07
SW1 setting	OF	F 4 3 2			321	4 3 2 1			1 4 3 2		4 3 2 1
Lower group NO.		4 3 2	4 3 4		10	11	12	13	1 4 3 2		15
SW1 setting	OF				321	4 3 2 1	4 3 2		1 4 3 2		4 3 2
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5.Control Codes

n using a central remote controller, the operating codes can be used to limit ation from wireless remote controllers. Three beeps for signal reception will be heard nuously when the wireless remote controller is operated while in central control. ermitted; \times : prohibited

			C	perat	ions fr	om th	e rem	ote co	ontrolle	ər	Operations from	
S1				" contr al con	ol from troller		centr	o" conti al con	ol from roller	n the	central controller, contact input and	
operating mode	Control mode	An and tan speetar and tan spe	HA JEM-A input									
	ON / OFF control	0,1,3	×	×	0		×	×	0			
	is rejected	10,11	X	×	×		×	×	×			
	Only OFF control is accepted	2 12–19	×	0	×		×	0	×			
Instantaneous	Central priority	4	0	0	0		X	0	×	1		
contact mode	Central priority	5	0	0	0		×	×	0			
	Last command priority	6,7	0	0	0		0	0	0			
	Timer operation	8	0*	0*	0*	0	×	0	× O			
	is accepted by remote controller	9	0*	0*	0*		×	×	0	1	0	
	/	2,10-19			×				×			
0		0,1,3,5-7			0				0			
Constant contact mode		4	×	×	0		×	×	×			
contact mode		8			0*				×			
		9			0*				0			
All remote controller actions are prohibited			×	×	×	×	×	×	×	×		

emote controller permission / prohibition settings using the Ve-up controller are as follows. ermitted; \times : prohibited

S1 pin operating mode	Ve	-up controlle	er settings	Operati	ions fror	n the remote	controller	Operations from central controller, contact input and HA JEM-A input
,,	Start / stop	Change operating mode	Change set temperature	Run / timer	Stop	Operating mode temperature	Fan direction and fan speed	
Instantaneous contact mode	ON / OFF control is	permitted	permitted/prohibited	×	×	0		
Constant contact mode	rejected	prohibited	permitted/prohibited	×	×	×		
Instantaneous		permitted	permitted	×	×	0		
	0-1-055	P	prohibited	×	0	×		
contact mode	Only OFF control is	prohibited	permitted/prohibited		0	· ^	0	
Constant	accepted	permitted	permitted	X	×	0		
oonotan	accepted	permited	prohibited					0
contact mode		prohibited	permitted/prohibited	×	×	×		
Instantaneous		permitted	permitted/prohibited	0	0	0		
contact mode	Last command	prohibited	permitted/prohibited	×	0	×		
Constant	priority	permitted	permitted/prohibited	×	×	0		
contact mode	. ,	prohibited	permitted/prohibited	X	×	×		
All remote controller actions are prohibited	Do	es not affec	t settings	×	×	×	×	

6.Read Operating / Error Display Signal

Operating / error signals can be read from the contact output (S5).

Turn MR 1 ON when the air conditioner is running. : Turn MR 2 when a communication error has occurred between the KRP928BB2S and the air conditioner, or MR 1 is ON and the unit has stopped after an error. MR 2 is not turned ON during a warning.

KRP9	28BB2	2S	
S8	⊕ ⊕		Power supply for relay (Supply 12 V DC externally.) Recommended product OMRON S82J-01012A (Output current of 500 mA or over)
_			Operating control panel (Field supply) Relay specs (MR1 and MR2)
S5	MC M1	(+) (-) (-)	MR1 MR2 MR2 MR2 MR2 MR2 MR2 MR2 MR2
			7.Combining Equipment
ne ce	entral	con	troller can be combined with the following devices.

	Central Remote Controller	ON / OFF controller	Schedule timer	D-BIPS	Contact input	HA JEM-A-compatible equipment	Wired Remote Controller	Wireless Remote Controller
Central Remote Controller	0	0	0	0	0	0	0	0
ON / OFF controller	0	0	0	0	0	0	0	0
Schedule timer	0	0	×	×	0	0	0	0
D-BIPS	0	0	×	×	0	0	0	0
Contact input	0	0	0	0	×	0	0	0
HA JEM-A-compatible equipment	0	0	0	0	0	×	0	0
Wired Remote Controller	0	0	0	0	0	0	×	×
Wireless Remote Controller	0	0	0	0	0	0	×	0

3P248024-1A



3P248024-3B

13.5 <KPW5E112> Air Direction Adjustment Grille



2 Selection of Installation Location)

Use the air direction adjustment grille for the outdoor unit if the installation place of the outdoor unit falls under the following conditions.

- Near the boundaries of the neighboring houses.
- Faces onto the street where pedestrians are directly exposed to the exhaust.
- Garden trees are directly exposed to the exhaust.

3 Required Installation Space

A minimum clearance of 4" (100mm) is required between the back of the outdoor unit and obstacles (such as walls).







3P243204-1

13.6 <KKP945A4> Drain Plug

• Use this socket to connect a drain hose to dispose the drain from the outdoor unit.

Before Installation

Check that this kit contains the following parts.

Name	① Drain socket	2 Drain cap	③ Drain receiver
Shape			
Quantity	1 piece	2 pieces	3 pieces

Installation Procedure

- 1 Check to make sure the outdoor unit drain hole is not hidden by the installation support or the floor.
 - Note) 1. If the drain holes of the outdoor unit are covered with the mounting bracket or the floor, raise the unit to provide the space of more than 4"
 (100mm) under the leg of the outdoor unit.
 - 2. Check the installation position with the outside drawing.
- Insert drain receiver ③ onto drain socket ① and drain cap ② beyond 4 projections around drain socket.



 Insert drain socket 1 into the drain hole A and drain caps 2 into the drain hole B and C on the unit's bottom frame. After insertion, turn them about 40° clockwise.



3P089958-1B

- Daikin products are manufactured for export to numerous countries throughout the world. Prior to
 - purchase, please confirm with your local authorized importer, distributor and/or retailer whether this product conforms to the applicable standards, and is suitable for use, in the region where the product will be used. This statement does not purport to exclude, restrict or modify the application of any local legislation.
 - 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 inquiries, please contact your local importer, distributor and/or retailer.



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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.



Organization: DAIKIN INDUSTRIES, LTD. AIR CONDITIONING MANUFACTURING DIVISION

Scope of Registration: THE DESIGN/DEVELOPMENT AND MANUFACTURE OF COMMERCIAL AIR CONDITIONING, HEATING, COULING, REFRIGERATING EQUIPMENT, HEATING EQUIPMENT, RESIDENTIAL AIR CONDITIONING EQUIPMENT, HEAT RECLAIM VENTILATION, AIR CLEANING EQUIPMENT, COMPRESSORS AND VALVES.

Dealer



JQA-1452

Organization: DAIKIN INDUSTRIES (THAILAND) LTD.

Scope of Registration: THE DESIGN/DEVELOPMENT AND MANUFACTURE OF AIR CONDITIONERS AND THE COMPONENTS INCLIDING COMPRESSORS USED FOR THEM



All of the Daikin Group's business facilities and subsidiaries in Japan are certified under the ISO 14001 international standard for environment management.

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