DAIKIN

EDUS282357-D

R-410A

Engineering Data

SkyAir

Cooling Only 60 Hz
Heat Pump 60 Hz

Design Manual

RZR-TBVJUB / RZQ-TBVJUB






INVERTER

Table of Contents

1. External Appearance

1.1 Indoor Unit

Ceiling mounted cassette type (round flow with sensing)

FCQ18AAVJU
FCQ24AAVJU
FCQ30AAVJU
FCQ36AAVJU
FCQ42AAVJU
FCQ48AAVJU

Wall mounted type

FAQ18TAVJU
FAQ24TAVJU

HSP concealed ducted unit

FBQ18TBVJU
FBQ24TBVJU
FBQ30TBVJU
FBQ36TBVJU
FBQ42TBVJU
FBQ48TBVJU

Air handling unit

FTQ18TBVJUD FTQ18TBVJUA
FTQ24TBVJUD FTQ24TBVJUA
FTQ30TBVJUD FTQ30TBVJUA
FTQ36TBVJUD FTQ36TBVJUA
FTQ42TBVJUD FTQ42TBVJUA
FTQ48TBVJUD FTQ48TBVJUA

1.2 Outdoor Unit

RZR18TBVJUB **RZR24TBVJUB** **RZQ18TBVJUB** **RZQ24TBVJUB**	
RZR30TBVJUB **RZR36TBVJUB** **RZR42TBVJUB** **RZR48TBVJUB** **RZQ30TBVJUB** **RZQ36TBVJUB** **RZQ42TBVJUB** **RZQ48TBVJUB**	

2. Model Name and Power Supply

2.1 Cooling Only

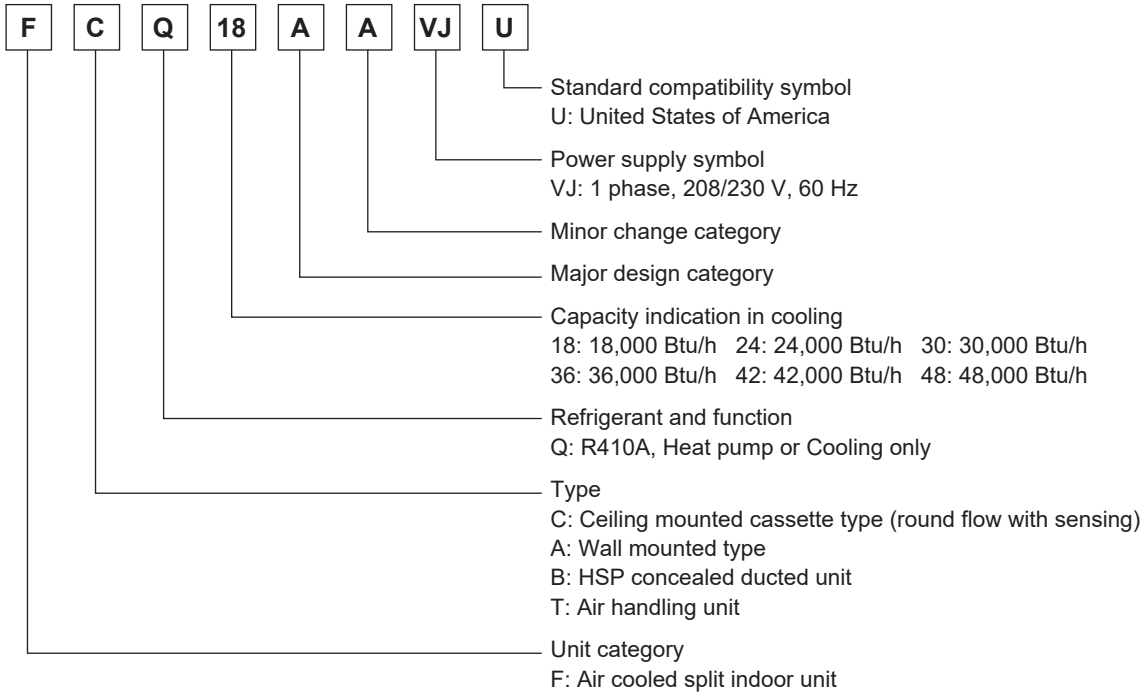
Indoor unit		Outdoor unit	Power supply intake	
Type	Model name	Model name	Indoor unit (Separate-power-supply required)	Outdoor unit
Ceiling mounted cassette type (round flow with sensing)	FCQ18AAVJU	RZR18TBVJUB	1 phase, 208/230 V, 60 Hz	1 phase, 208/230 V, 60 Hz
	FCQ24AAVJU	RZR24TBVJUB		
	FCQ30AAVJU	RZR30TBVJUB		
	FCQ36AAVJU	RZR36TBVJUB		
	FCQ42AAVJU	RZR42TBVJUB		
	FCQ48AAVJU	RZR48TBVJUB		
Wall mounted type	FAQ18TAVJU	RZR18TBVJUB	1 phase, 208/230 V, 60 Hz	1 phase, 208/230 V, 60 Hz
	FAQ24TAVJU	RZR24TBVJUB		
HSP concealed ducted unit	FBQ18TBVJU	RZR18TBVJUB	1 phase, 208/230 V, 60 Hz	1 phase, 208/230 V, 60 Hz
	FBQ24TBVJU	RZR24TBVJUB		
	FBQ30TBVJU	RZR30TBVJUB		
	FBQ36TBVJU	RZR36TBVJUB		
	FBQ42TBVJU	RZR42TBVJUB		
	FBQ48TBVJU	RZR48TBVJUB		
Air handling unit	FTQ18TBVJUD FTQ18TBVJUA	RZR18TBVJUB	1 phase, 208/230 V, 60 Hz	1 phase, 208/230 V, 60 Hz
	FTQ24TBVJUD FTQ24TBVJUA	RZR24TBVJUB		
	FTQ30TBVJUD FTQ30TBVJUA	RZR30TBVJUB		
	FTQ36TBVJUD FTQ36TBVJUA	RZR36TBVJUB		
	FTQ42TBVJUD FTQ42TBVJUA	RZR42TBVJUB		
	FTQ48TBVJUD FTQ48TBVJUA	RZR48TBVJUB		

2.2 Heat Pump

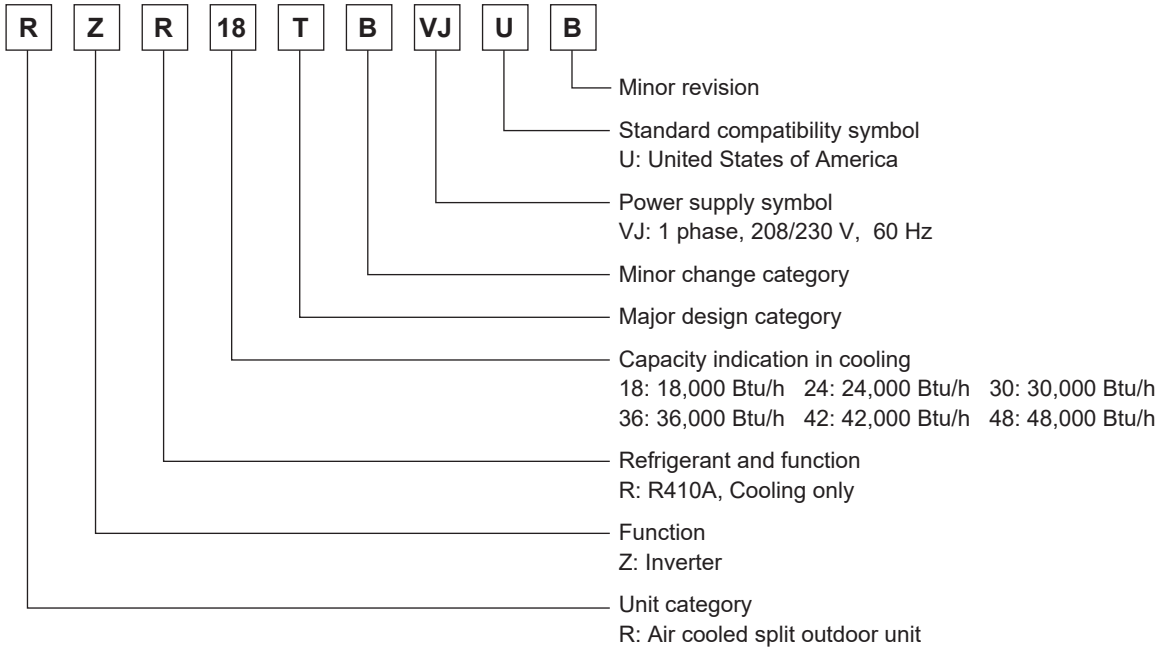
Indoor unit		Outdoor unit	Power supply intake	
Type	Model name	Model name	Indoor unit (Separate-power-supply required)	Outdoor unit
Ceiling mounted cassette type (round flow with sensing)	FCQ18AAVJU	RZQ18TBVJUB	1 phase, 208/230 V, 60 Hz	1 phase, 208/230 V, 60 Hz
	FCQ24AAVJU	RZQ24TBVJUB		
	FCQ30AAVJU	RZQ30TBVJUB		
	FCQ36AAVJU	RZQ36TBVJUB		
	FCQ42AAVJU	RZQ42TBVJUB		
	FCQ48AAVJU	RZQ48TBVJUB		
Wall mounted type	FAQ18TAVJU	RZQ18TBVJUB	1 phase, 208/230 V, 60 Hz	1 phase, 208/230 V, 60 Hz
	FAQ24TAVJU	RZQ24TBVJUB		
HSP concealed ducted unit	FBQ18TBVJU	RZQ18TBVJUB	1 phase, 208/230 V, 60 Hz	1 phase, 208/230 V, 60 Hz
	FBQ24TBVJU	RZQ24TBVJUB		
	FBQ30TBVJU	RZQ30TBVJUB		
	FBQ36TBVJU	RZQ36TBVJUB		
	FBQ42TBVJU	RZQ42TBVJUB		
	FBQ48TBVJU	RZQ48TBVJUB		
Air handling unit	FTQ18TBVJUD FTQ18TBVJUA	RZQ18TBVJUB	1 phase, 208/230 V, 60 Hz	1 phase, 208/230 V, 60 Hz
	FTQ24TBVJUD FTQ24TBVJUA	RZQ24TBVJUB		
	FTQ30TBVJUD FTQ30TBVJUA	RZQ30TBVJUB		
	FTQ36TBVJUD FTQ36TBVJUA	RZQ36TBVJUB		
	FTQ42TBVJUD FTQ42TBVJUA	RZQ42TBVJUB		
	FTQ48TBVJUD FTQ48TBVJUA	RZQ48TBVJUB		

3. Nomenclature

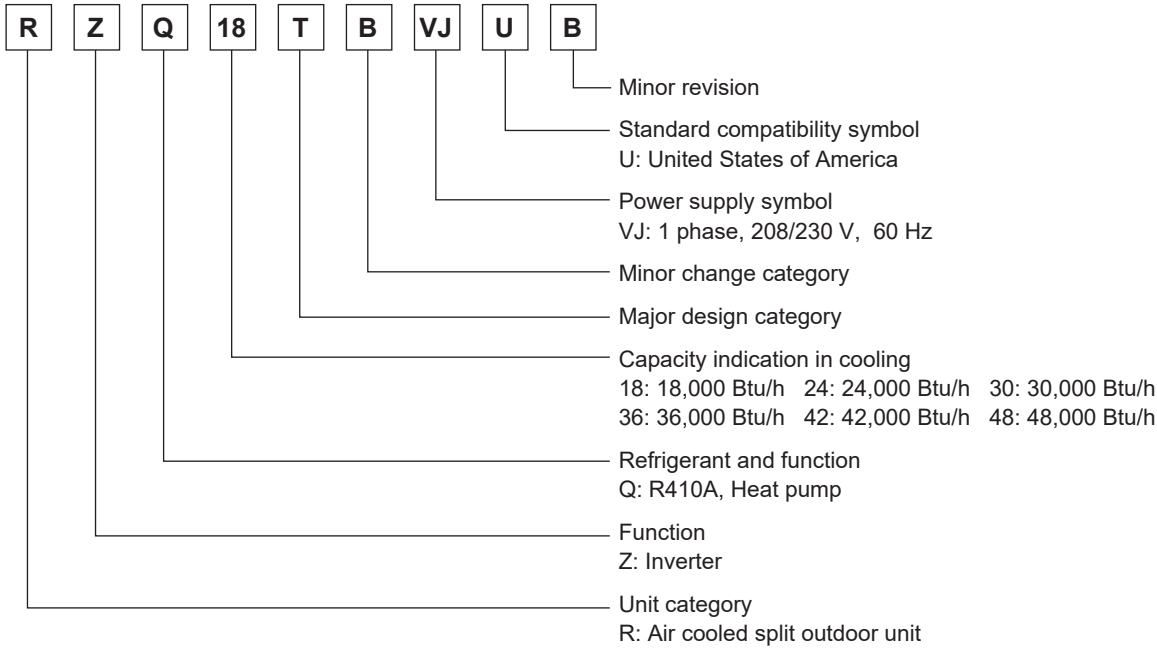
Indoor unit



Outdoor unit (cooling only)



Outdoor unit (heat pump)



4. Specifications

4.1 Cooling Only

4.1.1 FCQ

Ceiling mounted cassette type (round flow with sensing)

Model	Indoor unit			FCQ18AAVJU	FCQ24AAVJU
	Outdoor unit			RZR18TBVJUB	RZR24TBVJUB
Power supply				1 phase, 208/230 V, 60 Hz	1 phase, 208/230 V, 60 Hz
Cooling capacity ★1, ★2			Btu/h (kW)	18,000 (5.3)	24,000 (7.0)
EER2 (rated)			Btu/h-W	13.0	12.0
SEER2 (rated)				18.5	18.6
Indoor unit				**FCQ18AAVJU**	**FCQ24AAVJU**
Casing/color				Galvanized steel plate	Galvanized steel plate
Dimensions	H × W × D		in. (mm)	9–11/16 × 33–1/16 × 33–1/16 (246 × 840 × 840)	9–11/16 × 33–1/16 × 33–1/16 (246 × 840 × 840)
Coil	Type			Cross fin coil	Cross fin coil
Fan	Type			Turbo fan	Turbo fan
	Motor output		W	53	53
	Airflow rate (H / M / L)		cfm (m^3/min)	742 / 618 / 477 (21.0 / 17.5 / 13.5)	777 / 618 / 477 (22.0 / 17.5 / 13.5)
	External static pressure		in.H_2O (Pa)	—	—
Air filter				—	—
Weight			lbs (kg)	51 (23)	51 (23)
Piping connections		Liquid	in. (mm)	ϕ3/8 (ϕ9.5) (flare connection)	ϕ3/8 (ϕ9.5) (flare connection)
		Gas	in. (mm)	ϕ5/8 (ϕ15.9) (flare connection)	ϕ5/8 (ϕ15.9) (flare connection)
		Drain	in. (mm)	VP25 (external dia. 1–1/4 (32), internal dia. 1 (26))	VP25 (external dia. 1–1/4 (32), internal dia. 1 (26))
Remote controller (accessory)		Wired		BRC1E73 / BRC1H71W / DTST-ONE-ADA-A	BRC1E73 / BRC1H71W / DTST-ONE-ADA-A
		Wireless		—	—
Decoration panel (accessory)	Model			BYCQ54EEFU / BYCQ54EEGFU	BYCQ54EEFU / BYCQ54EEGFU
	Color			Fresh white	Fresh white
	Dimensions	H × W × D	in. (mm)	2 × 37–3/8 × 37–3/8 / 5–1/8 × 37–3/8 × 37–3/8 (50 × 950 × 950 / 130 × 950 × 950)	2 × 37–3/8 × 37–3/8 / 5–1/8 × 37–3/8 × 37–3/8 (50 × 950 × 950 / 130 × 950 × 950)
	Air filter			Resin net (with mold resistance)	Resin net (with mold resistance)
	Weight		lbs (kg)	12 (5.5) / 22 (10.0)	12 (5.5) / 22 (10.0)
Outdoor unit				**RZR18TBVJUB**	**RZR24TBVJUB**
Casing/color				Ivory white	Ivory white
Dimensions	H × W × D		in. (mm)	39 × 37 × 12–5/8 (990 × 940 × 320)	39 × 37 × 12–5/8 (990 × 940 × 320)
Coil	Type			Cross fin coil	Cross fin coil
Compressor	Type			Hermetically sealed swing type	Hermetically sealed swing type
	Motor output		kW	1.9	1.9
Fan	Type			Propeller fan	Propeller fan
	Motor output		W	200	200
	Airflow rate		cfm (m^3/min)	2,682 (76)	2,682 (76)
Weight			lbs (kg)	172 (78)	172 (78)
Piping connections		Liquid	in. (mm)	ϕ3/8 (ϕ9.5) (flare connection)	ϕ3/8 (ϕ9.5) (flare connection)
		Gas	in. (mm)	ϕ5/8 (ϕ15.9) (flare connection)	ϕ5/8 (ϕ15.9) (flare connection)
		Drain	in. (mm)	ϕ1 (ϕ26) (hole)	ϕ1 (ϕ26) (hole)
Safety devices				High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plug, Fuse	High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plug, Fuse
Capacity step			%	14-100	14-100
Refrigerant control				Electronic expansion valve	Electronic expansion valve
Ref. piping	Standard length		ft (m)	25 (7.6)	25 (7.6)
	Max. length		ft (m)	164 (50)	164 (50)
	Max. height difference		ft (m)	98 (30)	98 (30)
Refrigerant	Type			R410A	R410A
	Charge		lbs (kg)	6.4 (2.9)	6.4 (2.9)
Ref. oil	Type			DAPHNE FVC50K	DAPHNE FVC50K
	Charge		L	1.08	1.08

Note:

★1. Indoor temp.: 80°FDB (26.7°CDB), 67°FWB (19.4°CWB) / Outdoor temp.: 95°FDB (35.0°CDB) / Equivalent piping length: 25 ft. (7.6 m), height difference: 0 ft. (0 m).

★2. Capacities are net, including a deduction for cooling for indoor fan motor heat.

C: 4D148302

Ceiling mounted cassette type (round flow with sensing), continued

Model	Indoor unit			FCQ30AAVJU	FCQ36AAVJU
	Outdoor unit			RZR30TBVJUB	RZR36TBVJUB
Power supply				1 phase, 208/230 V, 60 Hz	1 phase, 208/230 V, 60 Hz
Cooling capacity ★1, ★2			Btu/h (kW)	30,000 (8.8)	36,000 (10.6)
EER2 (rated)			Btu/h-W	13.0	12.1
SEER2 (rated)				21.0	20.0
Indoor unit				**FCQ30AAVJU**	**FCQ36AAVJU**
Casing/color				Galvanized steel plate	Galvanized steel plate
Dimensions	H × W × D		in. (mm)	11–11/32 × 33–1/16 × 33–1/16 (288 × 840 × 840)	11–11/32 × 33–1/16 × 33–1/16 (288 × 840 × 840)
Coil	Type			Cross fin coil	Cross fin coil
Fan	Type			Turbo fan	Turbo fan
	Motor output		W	106	106
	Airflow rate (H / M / L)		cfm (m^3/min)	1,059 / 882 / 671 (30.0 / 25.0 / 19.0)	1,253 / 918 / 671 (35.5 / 26.0 / 19.0)
	External static pressure		in.H_2O (Pa)	—	—
Air filter				—	—
Weight			lbs (kg)	58 (26)	58 (26)
Piping connections		Liquid	in. (mm)	ϕ3/8 (ϕ9.5) (flare connection)	ϕ3/8 (ϕ9.5) (flare connection)
		Gas	in. (mm)	ϕ5/8 (ϕ15.9) (flare connection)	ϕ5/8 (ϕ15.9) (flare connection)
		Drain	in. (mm)	VP25 (external dia. 1–1/4 (32), internal dia. 1 (26))	VP25 (external dia. 1–1/4 (32), internal dia. 1 (26))
Remote controller (accessory)		Wired		BRC1E73 / BRC1H71W / DTST-ONE-ADA-A	BRC1E73 / BRC1H71W / DTST-ONE-ADA-A
		Wireless		—	—
Decoration panel (accessory)	Model			BYCQ54EEFU / BYCQ54EEGFU	BYCQ54EEFU / BYCQ54EEGFU
	Color			Fresh white	Fresh white
	Dimensions	H × W × D	in. (mm)	2 × 37–3/8 × 37–3/8 / 5–1/8 × 37–3/8 × 37–3/8 (50 × 950 × 950 / 130 × 950 × 950)	2 × 37–3/8 × 37–3/8 / 5–1/8 × 37–3/8 × 37–3/8 (50 × 950 × 950 / 130 × 950 × 950)
	Air filter			Resin net (with mold resistance)	Resin net (with mold resistance)
	Weight		lbs (kg)	12 (5.5) / 22 (10.0)	12 (5.5) / 22 (10.0)
Outdoor unit				**RZR30TBVJUB**	**RZR36TBVJUB**
Casing/color				Ivory white	Ivory white
Dimensions	H × W × D		in. (mm)	52–15/16 × 35–7/16 × 12–5/8 (1,345 × 900 × 320)	52–15/16 × 35–7/16 × 12–5/8 (1,345 × 900 × 320)
Coil	Type			Cross fin coil	Cross fin coil
Compressor	Type			Hermetically sealed swing type	Hermetically sealed swing type
	Motor output		kW	3.5	3.5
Fan	Type			Propeller fan	Propeller fan
	Motor output		W	70 × 2	70 × 2
	Airflow rate		cfm (m^3/min)	3,741 (106)	3,741 (106)
Weight			lbs (kg)	225 (102)	225 (102)
Piping connections		Liquid	in. (mm)	ϕ3/8 (ϕ9.5) (flare connection)	ϕ3/8 (ϕ9.5) (flare connection)
		Gas	in. (mm)	ϕ5/8 (ϕ15.9) (flare connection)	ϕ5/8 (ϕ15.9) (flare connection)
		Drain	in. (mm)	ϕ1 (ϕ26) (hole)	ϕ1 (ϕ26) (hole)
Safety devices				High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plug, Fuse	High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plug, Fuse
Capacity step			%	14-100	14-100
Refrigerant control				Electronic expansion valve	Electronic expansion valve
Ref. piping	Standard length		ft (m)	25 (7.6)	25 (7.6)
	Max. length		ft (m)	230 (70)	230 (70)
	Max. height difference		ft (m)	98 (30)	98 (30)
Refrigerant	Type			R410A	R410A
	Charge		lbs (kg)	7.9 (3.6)	7.9 (3.6)
Ref. oil	Type			DAPHNE FVC50K	DAPHNE FVC50K
	Charge		L	1.52	1.52

Note:

★1. Indoor temp.: 80°FDB (26.7°CDB), 67°FWB (19.4°CWB) / Outdoor temp.: 95°FDB (35.0°CDB) / Equivalent piping length: 25 ft. (7.6 m), height difference: 0 ft. (0 m).

★2. Capacities are net, including a deduction for cooling for indoor fan motor heat.

C: 4D148303

Ceiling mounted cassette type (round flow with sensing), continued

Model	Indoor unit			FCQ42AAVJU	FCQ48AAVJU
	Outdoor unit			RZR42TBVJUB	RZR48TBVJUB
Power supply				1 phase, 208/230 V, 60 Hz	1 phase, 208/230 V, 60 Hz
Cooling capacity ★1, ★2			Btu/h (kW)	42,000 (12.3)	48,000 (14.1)
EER2 (rated)			Btu/h-W	10.3	8.2
SEER2 (rated)				18.9	18.0
Indoor unit				**FCQ42AAVJU**	**FCQ48AAVJU**
Casing/color				Galvanized steel plate	Galvanized steel plate
Dimensions	H × W × D		in. (mm)	11–11/32 × 33–1/16 × 33–1/16 (288 × 840 × 840)	11–11/32 × 33–1/16 × 33–1/16 (288 × 840 × 840)
Coil	Type			Cross fin coil	Cross fin coil
Fan	Type			Turbo fan	Turbo fan
	Motor output		W	106	106
	Airflow rate (H / M / L)		cfm (m^3/min)	1,253 / 971 / 741 (35.5 / 27.5 / 21.0)	1,253 / 971 / 741 (35.5 / 27.5 / 21.0)
	External static pressure		in.H_2O (Pa)	—	—
Air filter				—	—
Weight			lbs (kg)	58 (26)	58 (26)
Piping connections		Liquid	in. (mm)	ϕ3/8 (ϕ9.5) (flare connection)	ϕ3/8 (ϕ9.5) (flare connection)
		Gas	in. (mm)	ϕ5/8 (ϕ15.9) (flare connection)	ϕ5/8 (ϕ15.9) (flare connection)
		Drain	in. (mm)	VP25 (external dia. 1–1/4 (32), internal dia. 1 (26))	VP25 (external dia. 1–1/4 (32), internal dia. 1 (26))
Remote controller (accessory)		Wired		BRC1E73 / BRC1H71W / DTST-ONE-ADA-A	BRC1E73 / BRC1H71W / DTST-ONE-ADA-A
		Wireless		—	—
Decoration panel (accessory)	Model			BYCQ54EEFU / BYCQ54EEGFU	BYCQ54EEFU / BYCQ54EEGFU
	Color			Fresh white	Fresh white
	Dimensions	H × W × D	in. (mm)	2 × 37–3/8 × 37–3/8 / 5–1/8 × 37–3/8 × 37–3/8 (50 × 950 × 950 / 130 × 950 × 950)	2 × 37–3/8 × 37–3/8 / 5–1/8 × 37–3/8 × 37–3/8 (50 × 950 × 950 / 130 × 950 × 950)
	Air filter			Resin net (with mold resistance)	Resin net (with mold resistance)
	Weight		lbs (kg)	12 (5.5) / 22 (10.0)	12 (5.5) / 22 (10.0)
Outdoor unit				**RZR42TBVJUB**	**RZR48TBVJUB**
Casing/color				Ivory white	Ivory white
Dimensions	H × W × D		in. (mm)	52–15/16 × 35–7/16 × 12–5/8 (1,345 × 900 × 320)	52–15/16 × 35–7/16 × 12–5/8 (1,345 × 900 × 320)
Coil	Type			Cross fin coil	Cross fin coil
Compressor	Type			Hermetically sealed swing type	Hermetically sealed swing type
	Motor output		kW	3.5	3.5
Fan	Type			Propeller fan	Propeller fan
	Motor output		W	70 × 2	70 × 2
	Airflow rate		cfm (m^3/min)	3,741 (106)	3,741 (106)
Weight			lbs (kg)	225 (102)	225 (102)
Piping connections		Liquid	in. (mm)	ϕ3/8 (ϕ9.5) (flare connection)	ϕ3/8 (ϕ9.5) (flare connection)
		Gas	in. (mm)	ϕ5/8 (ϕ15.9) (flare connection)	ϕ5/8 (ϕ15.9) (flare connection)
		Drain	in. (mm)	ϕ1 (ϕ26) (hole)	ϕ1 (ϕ26) (hole)
Safety devices				High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plug, Fuse	High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plug, Fuse
Capacity step			%	14-100	14-100
Refrigerant control				Electronic expansion valve	Electronic expansion valve
Ref. piping	Standard length		ft (m)	25 (7.6)	25 (7.6)
	Max. length		ft (m)	230 (70)	230 (70)
	Max. height difference		ft (m)	98 (30)	98 (30)
Refrigerant	Type			R410A	R410A
	Charge		lbs (kg)	7.9 (3.6)	7.9 (3.6)
Ref. oil	Type			DAPHNE FVC50K	DAPHNE FVC50K
	Charge		L	1.52	1.52

Note:

★1. Indoor temp.: 80°FDB (26.7°CDB), 67°FWB (19.4°CWB) / Outdoor temp.: 95°FDB (35.0°CDB) / Equivalent piping length: 25 ft. (7.6 m), height difference: 0 ft. (0 m).

★2. Capacities are net, including a deduction for cooling for indoor fan motor heat.

C: 4D148303

4.1.2 FAQ

Wall mounted type

Model	Indoor unit			FAQ18TAVJU	FAQ24TAVJU
	Outdoor unit			RZR18TBVJUB	RZR24TBVJUB
Power supply				1 phase, 208/230 V, 60 Hz	1 phase, 208/230 V, 60 Hz
Cooling capacity ★1, ★2			Btu/h (kW)	18,000 (5.3)	24,000 (7.0)
EER2 (rated)			Btu/h-W	11.9	10.2
SEER2 (rated)				16.9	17.3
Indoor unit				**FAQ18TAVJU**	**FAQ24TAVJU**
Casing/color				White (3.0Y8.5/0.5)	White (3.0Y8.5/0.5)
Dimensions	H × W × D		in. (mm)	11–3/8 × 41–3/8 × 9-1/4 (290 × 1,050 × 238)	11–3/8 × 41–3/8 × 9-1/4 (290 × 1,050 × 238)
Coil	Type			Cross fin coil	Cross fin coil
Fan	Type			Cross flow fan	Cross flow fan
	Motor output		W	43	43
	Airflow rate (H / L)		cfm (m^3/min)	500 / 400 (14 / 11)	635 / 470 (18 / 13)
	External static pressure		in.H_2O (Pa)	—	—
Air filter				Resin net (washable)	Resin net (washable)
Weight			lbs (kg)	31 (14)	31 (14)
Piping connections		Liquid	in. (mm)	ϕ3/8 (ϕ9.5) (flare connection)	ϕ3/8 (ϕ9.5) (flare connection)
		Gas	in. (mm)	ϕ5/8 (ϕ15.9) (flare connection)	ϕ5/8 (ϕ15.9) (flare connection)
		Drain	in. (mm)	VP13 (external dia. 11/16 (18), internal dia. 1/2 (13))	VP13 (external dia. 11/16 (18), internal dia. 1/2 (13))
Remote controller (accessory)		Wired		BRC1E73 / BRC1H71W / DTST-ONE-ADA-A	BRC1E73 / BRC1H71W / DTST-ONE-ADA-A
		Wireless		BRC7E818	BRC7E818
Outdoor unit				**RZR18TBVJUB**	**RZR24TBVJUB**
Casing/color				Ivory white	Ivory white
Dimensions	H × W × D		in. (mm)	39 × 37 × 12–5/8 (990 × 940 × 320)	39 × 37 × 12–5/8 (990 × 940 × 320)
Coil	Type			Cross fin coil	Cross fin coil
Compressor	Type			Hermetically sealed swing type	Hermetically sealed swing type
	Motor output		kW	1.9	1.9
Fan	Type			Propeller fan	Propeller fan
	Motor output		W	200	200
	Airflow rate		cfm (m^3/min)	2,682 (76)	2,682 (76)
Weight			lbs (kg)	172 (78)	172 (78)
Piping connections		Liquid	in. (mm)	ϕ3/8 (ϕ9.5) (flare connection)	ϕ3/8 (ϕ9.5) (flare connection)
		Gas	in. (mm)	ϕ5/8 (ϕ15.9) (flare connection)	ϕ5/8 (ϕ15.9) (flare connection)
		Drain	in. (mm)	ϕ1 (ϕ26) (hole)	ϕ1 (ϕ26) (hole)
Safety devices				High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plug, Fuse	High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plug, Fuse
Capacity step			%	14-100	14-100
Refrigerant control				Electronic expansion valve	Electronic expansion valve
Ref. piping	Standard length		ft (m)	25 (7.6)	25 (7.6)
	Max. length		ft (m)	164 (50)	164 (50)
	Max. height difference		ft (m)	98 (30)	98 (30)
Refrigerant	Type			R410A	R410A
	Charge		lbs (kg)	6.4 (2.9)	6.4 (2.9)
Ref. oil	Type			DAPHNE FVC50K	DAPHNE FVC50K
	Charge		L	1.08	1.08

Note:

★1. Indoor temp.: 80°FDB (26.7°CDB), 67°FWB (19.4°CWB) / Outdoor temp.: 95°FDB (35.0°CDB) / Equivalent piping length: 25 ft. (7.6 m), height difference: 0 ft. (0 m).

★2. Capacities are net, including a deduction for cooling for indoor fan motor heat.

C: 4D148305

4.1.3 FBQ

HSP concealed ducted unit

Model	Indoor unit			FBQ18TBVJU	FBQ24TBVJU
	Outdoor unit			RZR18TBVJUB	RZR24TBVJUB
Power supply				1 phase, 208/230 V, 60 Hz	1 phase, 208/230 V, 60 Hz
Cooling capacity ★1, ★2			Btu/h (kW)	17,700 (5.2)	23,400 (6.9)
EER2 (rated)			Btu/h-W	12.5	10.5
SEER2 (rated)				15.5	15.4
Indoor unit				**FBQ18TBVJU**	**FBQ24TBVJU**
Casing/color				Galvanized steel plate	Galvanized steel plate
Dimensions	H × W × D		in. (mm)	9–11/16 × 39–3/8 × 31–1/2 (245 × 1,000 × 800)	9–11/16 × 39–3/8 × 31–1/2 (245 × 1,000 × 800)
Coil	Type			Cross fin coil	Cross fin coil
Fan	Type			Sirocco fan	Sirocco fan
	Motor output		W	230	230
	Airflow rate (H / M / L)		cfm (m^3/min)	635 / 565 / 512 (18.0 / 16.0 / 14.5)	742 / 635 / 565 (21.0 / 18.0 / 16.0)
	External static pressure		in.H_2O (Pa)	Standard 0.40 <0.80-0.20> (100 <200-50>) ★3	Standard 0.40 <0.80-0.20> (100 <200-50>) ★3
Air filter				— ★4	— ★4
Weight			lbs (kg)	77 (35)	82 (37)
Piping connections		Liquid	in. (mm)	ϕ3/8 (ϕ9.5) (flare connection)	ϕ3/8 (ϕ9.5) (flare connection)
		Gas	in. (mm)	ϕ5/8 (ϕ15.9) (flare connection)	ϕ5/8 (ϕ15.9) (flare connection)
		Drain	in. (mm)	VP25 (external dia. 1–1/4 (32), internal dia. 1 (26))	VP25 (external dia. 1–1/4 (32), internal dia. 1 (26))
Remote controller (accessory)		Wired		BRC1E73 / BRC1H71W / DTST-ONE-ADA-A	BRC1E73 / BRC1H71W / DTST-ONE-ADA-A
		Wireless		BRC082A43	BRC082A43
Outdoor unit				**RZR18TBVJUB**	**RZR24TBVJUB**
Casing/color				Ivory white	Ivory white
Dimensions	H × W × D		in. (mm)	39 × 37 × 12–5/8 (990 × 940 × 320)	39 × 37 × 12–5/8 (990 × 940 × 320)
Coil	Type			Cross fin coil	Cross fin coil
Compressor	Type			Hermetically sealed swing type	Hermetically sealed swing type
	Motor output		kW	1.9	1.9
Fan	Type			Propeller fan	Propeller fan
	Motor output		W	200	200
	Airflow rate		cfm (m^3/min)	2,682 (76)	2,682 (76)
Weight			lbs (kg)	172 (78)	172 (78)
Piping connections		Liquid	in. (mm)	ϕ3/8 (ϕ9.5) (flare connection)	ϕ3/8 (ϕ9.5) (flare connection)
		Gas	in. (mm)	ϕ5/8 (ϕ15.9) (flare connection)	ϕ5/8 (ϕ15.9) (flare connection)
		Drain	in. (mm)	ϕ1 (ϕ26) (hole)	ϕ1 (ϕ26) (hole)
Safety devices				High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plug, Fuse	High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plug, Fuse
Capacity step			%	14-100	14-100
Refrigerant control				Electronic expansion valve	Electronic expansion valve
Ref. piping	Standard length		ft (m)	25 (7.6)	25 (7.6)
	Max. length		ft (m)	164 (50)	164 (50)
	Max. height difference		ft (m)	98 (30)	98 (30)
Refrigerant	Type			R410A	R410A
	Charge		lbs (kg)	6.4 (2.9)	6.4 (2.9)
Ref. oil	Type			DAPHNE FVC50K	DAPHNE FVC50K
	Charge		L	1.08	1.08

Note:

★1. Indoor temp.: 80°FDB (26.7°CDB), 67°FWB (19.4°CWB) / Outdoor temp.: 95°FDB (35.0°CDB) / Equivalent piping length: 25 ft. (7.6 m), height difference: 0 ft. (0 m).
★2. Capacities are net, including a deduction for cooling for indoor fan motor heat.
★3. External static pressure is changeable in 14 stages within the < > range by remote controller.
★4. Air filter is not standard accessory, but please mount it in the duct system of the suction side.
Select its dust collection efficiency (gravity method) 50% or more.

C: 4D148308

HSP concealed ducted unit, continued

Model	Indoor unit			FBQ30TBVJU	FBQ36TBVJU
	Outdoor unit			RZR30TBVJUB	RZR36TBVJUB
Power supply				1 phase, 208/230 V, 60 Hz	1 phase, 208/230 V, 60 Hz
Cooling capacity ★1, ★2			Btu/h (kW)	28,400 (8.3)	35,000 (10.3)
EER2 (rated)			Btu/h-W	12.2	11.7
SEER2 (rated)				16.5	16.9
Indoor unit				**FBQ30TBVJU**	**FBQ36TBVJU**
Casing/color				Galvanized steel plate	Galvanized steel plate
Dimensions	H × W × D		in. (mm)	9-11/16 × 55-1/8 × 31-1/2 (245 × 1,400 × 800)	9-11/16 × 55-1/8 × 31-1/2 (245 × 1,400 × 800)
Coil	Type			Cross fin coil	Cross fin coil
Fan	Type			Sirocco fan	Sirocco fan
	Motor output		W	364	364
	Airflow rate (H / M / L)		cfm (m^3/min)	1,094 / 847 / 795 (31.0 / 24.0 / 22.5)	1,130 / 953 / 795 (32.0 / 27.0 / 22.5)
	External static pressure		in.H_2O (Pa)	Standard 0.40 <0.80-0.20> (100 <200-50>) ★3	Standard 0.40 <0.80-0.20> (100 <200-50>) ★3
Air filter				— ★4	— ★4
Weight			lbs (kg)	101 (46)	101 (46)
Piping connections		Liquid	in. (mm)	ϕ3/8 (ϕ9.5) (flare connection)	ϕ3/8 (ϕ9.5) (flare connection)
		Gas	in. (mm)	ϕ5/8 (ϕ15.9) (flare connection)	ϕ5/8 (ϕ15.9) (flare connection)
		Drain	in. (mm)	VP25 (external dia. 1–1/4 (32), internal dia. 1 (26))	VP25 (external dia. 1–1/4 (32), internal dia. 1 (26))
Remote controller (accessory)		Wired		BRC1E73 / BRC1H71W / DTST-ONE-ADA-A	BRC1E73 / BRC1H71W / DTST-ONE-ADA-A
		Wireless		BRC082A43	BRC082A43
Outdoor unit				**RZR30TBVJUB**	**RZR36TBVJUB**
Casing/color				Ivory white	Ivory white
Dimensions	H × W × D		in. (mm)	52–15/16 × 35–7/16 × 12–5/8 (1,345 × 900 × 320)	52–15/16 × 35–7/16 × 12–5/8 (1,345 × 900 × 320)
Coil	Type			Cross fin coil	Cross fin coil
Compressor	Type			Hermetically sealed swing type	Hermetically sealed swing type
	Motor output		kW	3.5	3.5
Fan	Type			Propeller fan	Propeller fan
	Motor output		W	70 × 2	70 × 2
	Airflow rate		cfm (m^3/min)	3,741 (106)	3,741 (106)
Weight			lbs (kg)	225 (102)	225 (102)
Piping connections		Liquid	in. (mm)	ϕ3/8 (ϕ9.5) (flare connection)	ϕ3/8 (ϕ9.5) (flare connection)
		Gas	in. (mm)	ϕ5/8 (ϕ15.9) (flare connection)	ϕ5/8 (ϕ15.9) (flare connection)
		Drain	in. (mm)	ϕ1 (ϕ26) (hole)	ϕ1 (ϕ26) (hole)
Safety devices				High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plug, Fuse	High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plug, Fuse
Capacity step			%	14-100	14-100
Refrigerant control				Electronic expansion valve	Electronic expansion valve
Ref. piping	Standard length		ft (m)	25 (7.6)	25 (7.6)
	Max. length		ft (m)	230 (70)	230 (70)
	Max. height difference		ft (m)	98 (30)	98 (30)
Refrigerant	Type			R410A	R410A
	Charge		lbs (kg)	7.9 (3.6)	7.9 (3.6)
Ref. oil	Type			DAPHNE FVC50K	DAPHNE FVC50K
	Charge		L	1.52	1.52

Note:

★1. Indoor temp.: 80°FDB (26.7°CDB), 67°FWB (19.4°CWB) / Outdoor temp.: 95°FDB (35.0°CDB) / Equivalent piping length: 25 ft. (7.6 m), height difference: 0 ft. (0 m).
★2. Capacities are net, including a deduction for cooling for indoor fan motor heat.
★3. External static pressure is changeable in 14 stages within the < > range by remote controller.
★4. Air filter is not standard accessory, but please mount it in the duct system of the suction side. Select its dust collection efficiency (gravity method) 50% or more.

C: 4D148309

HSP concealed ducted unit, continued

Model	Indoor unit			FBQ42TBVJU	FBQ48TBVJU
	Outdoor unit			RZR42TBVJUB	RZR48TBVJUB
Power supply				1 phase, 208/230 V, 60 Hz	1 phase, 208/230 V, 60 Hz
Cooling capacity ★1, ★2			Btu/h (kW)	40,000 (11.7)	46,500 (13.6)
EER2 (rated)			Btu/h-W	10.3	8.3
SEER2 (rated)				15.6	15.3
Indoor unit				**FBQ42TBVJU**	**FBQ48TBVJU**
Casing/color				Galvanized steel plate	Galvanized steel plate
Dimensions	H × W × D		in. (mm)	9-11/16 × 55-1/8 × 31-1/2 (245 × 1,400 × 800)	9-11/16 × 55-1/8 × 31-1/2 (245 × 1,400 × 800)
Coil	Type			Cross fin coil	Cross fin coil
Fan	Type			Sirocco fan	Sirocco fan
	Motor output		W	364	364
	Airflow rate (H / M / L)		cfm (m^3/min)	1,377 / 1,130 / 918 (39.0 / 32.0 / 26.0)	1,377 / 1,130 / 918 (39.0 / 32.0 / 26.0)
	External static pressure		in.H_2O (Pa)	Standard 0.40 <0.80-0.20> (100 <200-50>) ★3	Standard 0.40 <0.80-0.20> (100 <200-50>) ★3
Air filter				— ★4	— ★4
Weight			lbs (kg)	104 (47)	104 (47)
Piping connections		Liquid	in. (mm)	ϕ3/8 (ϕ9.5) (flare connection)	ϕ3/8 (ϕ9.5) (flare connection)
		Gas	in. (mm)	ϕ5/8 (ϕ15.9) (flare connection)	ϕ5/8 (ϕ15.9) (flare connection)
		Drain	in. (mm)	VP25 (external dia. 1–1/4 (32), internal dia. 1 (26))	VP25 (external dia. 1–1/4 (32), internal dia. 1 (26))
Remote controller (accessory)		Wired		BRC1E73 / BRC1H71W / DTST-ONE-ADA-A	BRC1E73 / BRC1H71W / DTST-ONE-ADA-A
		Wireless		BRC082A43	BRC082A43
Outdoor unit				**RZR42TBVJUB**	**RZR48TBVJUB**
Casing/color				Ivory white	Ivory white
Dimensions	H × W × D		in. (mm)	52–15/16 × 35–7/16 × 12–5/8 (1,345 × 900 × 320)	52–15/16 × 35–7/16 × 12–5/8 (1,345 × 900 × 320)
Coil	Type			Cross fin coil	Cross fin coil
Compressor	Type			Hermetically sealed swing type	Hermetically sealed swing type
	Motor output		kW	3.5	3.5
Fan	Type			Propeller fan	Propeller fan
	Motor output		W	70 × 2	70 × 2
	Airflow rate		cfm (m^3/min)	3,741 (106)	3,741 (106)
Weight			lbs (kg)	225 (102)	225 (102)
Piping connections		Liquid	in. (mm)	ϕ3/8 (ϕ9.5) (flare connection)	ϕ3/8 (ϕ9.5) (flare connection)
		Gas	in. (mm)	ϕ5/8 (ϕ15.9) (flare connection)	ϕ5/8 (ϕ15.9) (flare connection)
		Drain	in. (mm)	ϕ1 (ϕ26) (hole)	ϕ1 (ϕ26) (hole)
Safety devices				High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plug, Fuse	High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plug, Fuse
Capacity step			%	14-100	14-100
Refrigerant control				Electronic expansion valve	Electronic expansion valve
Ref. piping	Standard length		ft (m)	25 (7.6)	25 (7.6)
	Max. length		ft (m)	230 (70)	230 (70)
	Max. height difference		ft (m)	98 (30)	98 (30)
Refrigerant	Type			R410A	R410A
	Charge		lbs (kg)	7.9 (3.6)	7.9 (3.6)
Ref. oil	Type			DAPHNE FVC50K	DAPHNE FVC50K
	Charge		L	1.52	1.52

Note:

★1. Indoor temp.: 80°FDB (26.7°CDB), 67°FWB (19.4°CWB) / Outdoor temp.: 95°FDB (35.0°CDB) / Equivalent piping length: 25 ft. (7.6 m), height difference: 0 ft. (0 m).
★2. Capacities are net, including a deduction for cooling for indoor fan motor heat.
★3. External static pressure is changeable in 14 stages within the < > range by remote controller.
★4. Air filter is not standard accessory, but please mount it in the duct system of the suction side. Select its dust collection efficiency (gravity method) 50% or more.

C: 4D148309

4.1.4 FTQ

Air handling unit

Model	Indoor unit	with factory disconnect		FTQ18TBVJUD	FTQ24TBVJUD
		without factory disconnect		FTQ18TBVJUA	FTQ24TBVJUA
	Outdoor unit			RZR18TBVJUB	RZR24TBVJUB
Power supply				1 phase, 208/230 V, 60 Hz	1 phase, 208/230 V, 60 Hz
Cooling capacity ★1, ★2			Btu/h (kW)	17,200 (5.0)	23,400 (6.9)
EER2 (rated)			Btu/h-W	11.7	9.9
SEER2 (rated)				15.6	16.2
Indoor unit		with factory disconnect		FTQ18TBVJUD	FTQ24TBVJUD
		without factory disconnect		FTQ18TBVJUA	FTQ24TBVJUA
Casing/color				Daikin Slate Gray	Daikin Slate Gray
Dimensions	H × W × D		in. (mm)	45 × 17.5 × 21 (1,143 × 445 × 533)	45 × 17.5 × 21 (1,143 × 445 × 533)
Coil	Type			Cross fin coil	Cross fin coil
Fan	Type			Sirocco FC Centrifugal	Sirocco FC Centrifugal
	Motor output		HP	1/2	1/2
	Airflow rate (H / M / L)		cfm (m³/min)	600 / 510 / 420 (17.0 / 14.4 / 11.9)	800 / 680 / 560 (22.7 / 19.3 / 15.9)
	External static pressure		in. w.g.	0.1” - 0.9”	0.1” - 0.9”
Air filter				— ★3	— ★3
Weight			lbs (kg)	115 (52.2)	115 (52.2)
Piping connections		Liquid	in. (mm)	ϕ3/8 (ϕ9.5) (brazing connection)	ϕ3/8 (ϕ9.5) (brazing connection)
		Gas	in. (mm)	ϕ5/8 (ϕ15.9) (brazing connection)	ϕ5/8 (ϕ15.9) (brazing connection)
		Drain	in. (mm)	3/4” (19.1)	3/4” (19.1)
Remote controller (accessory)		Wired		BRC1E73 / BRC1H71W / DTST-ONE-ADA-A	BRC1E73 / BRC1H71W / DTST-ONE-ADA-A
		Wireless		BRC4C82	BRC4C82
Outdoor unit				RZR18TBVJUB	RZR24TBVJUB
Casing/color				Ivory white	Ivory white
Dimensions	H × W × D		in. (mm)	39 × 37 × 12–5/8 (990 × 940 × 320)	39 × 37 × 12–5/8 (990 × 940 × 320)
Coil	Type			Cross fin coil	Cross fin coil
Compressor	Type			Hermetically sealed swing type	Hermetically sealed swing type
	Motor output		kW	1.9	1.9
Fan	Type			Propeller fan	Propeller fan
	Motor output		W	200	200
	Airflow rate		cfm (m³/min)	2,682 (76)	2,682 (76)
Weight			lbs (kg)	172 (78)	172 (78)
Piping connections		Liquid	in. (mm)	ϕ3/8 (ϕ9.5) (flare connection)	ϕ3/8 (ϕ9.5) (flare connection)
		Gas	in. (mm)	ϕ5/8 (ϕ15.9) (flare connection)	ϕ5/8 (ϕ15.9) (flare connection)
		Drain	in. (mm)	ϕ1 (ϕ26) (hole)	ϕ1 (ϕ26) (hole)
Safety devices				High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plug, Fuse	High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plug, Fuse
Capacity step			%	14-100	14-100
Refrigerant control				Electronic expansion valve	Electronic expansion valve
Ref. piping	Standard length		ft (m)	25 (7.6)	25 (7.6)
	Max. length		ft (m)	164 (50)	164 (50)
	Max. height difference		ft (m)	98 (30)	98 (30)
Refrigerant	Type			R410A	R410A
	Charge		lbs (kg)	6.4 (2.9)	6.4 (2.9)
Ref. oil	Type			DAPHNE FVC50K	DAPHNE FVC50K
	Charge		L	1.08	1.08

Note:

★1. Indoor temp.: 80°FDB (26.7°CDB), 67°FWB (19.4°CWB) / Outdoor temp.: 95°FDB (35.0°CDB) / Equivalent piping length: 25 ft. (7.6 m), height difference: 0 ft. (0 m).
★2. Capacities are net, including a deduction for cooling for indoor fan motor heat.
★3. Air filter is not standard accessory (field supply parts), but please mount it in the duct system of the suction side.

Air handling unit, continued

Model	Indoor unit	with factory disconnect		FTQ30TBVJUD	FTQ36TBVJUD
		without factory disconnect		FTQ30TBVJUA	FTQ36TBVJUA
	Outdoor unit			RZR30TBVJUB	RZR36TBVJUB
Power supply				1 phase, 208/230 V, 60 Hz	1 phase, 208/230 V, 60 Hz
Cooling capacity ★1, ★2			Btu/h (kW)	29,500 (8.6)	35,000 (10.3)
EER2 (rated)			Btu/h-W	11.9	11.2
SEER2 (rated)				15.6	16.4
Indoor unit		**with factory disconnect**		**FTQ30TBVJUD**	**FTQ36TBVJUD**
		without factory disconnect		**FTQ30TBVJUA**	**FTQ36TBVJUA**
Casing/color				Daikin Slate Gray	Daikin Slate Gray
Dimensions	H × W × D		in. (mm)	45 × 17.5 × 21 (1,143 × 445 × 533)	45 × 17.5 × 21 (1,143 × 445 × 533)
Coil	Type			Cross fin coil	Cross fin coil
Fan	Type			Sirocco FC Centrifugal	Sirocco FC Centrifugal
	Motor output		HP	1/2	1/2
	Airflow rate (H / M / L)		cfm (m³/min)	1,000 / 850 / 700 (28.3 / 24.1 / 19.8)	1,050 / 900 / 750 (29.7 / 25.5 / 21.2)
	External static pressure		in. w.g.	0.1” - 0.9”	0.1” - 0.9”
Air filter				— ★3	— ★3
Weight			lbs (kg)	115 (52.2)	140 (63.5)
Piping connections		Liquid	in. (mm)	ϕ3/8 (ϕ9.5) (brazing connection)	ϕ3/8 (ϕ9.5) (brazing connection)
		Gas	in. (mm)	ϕ5/8 (ϕ15.9) (brazing connection)	ϕ5/8 (ϕ15.9) (brazing connection)
		Drain	in. (mm)	3/4” (19.1)	3/4” (19.1)
Remote controller (accessory)		Wired		BRC1E73 / BRC1H71W / DTST-ONE-ADA-A	BRC1E73 / BRC1H71W / DTST-ONE-ADA-A
		Wireless		BRC4C82	BRC4C82
Outdoor unit				**RZR30TBVJUB**	**RZR36TBVJUB**
Casing/color				Ivory white	Ivory white
Dimensions	H × W × D		in. (mm)	52–15/16 × 35–7/16 × 12–5/8 (1,345 × 900 × 320)	52–15/16 × 35–7/16 × 12–5/8 (1,345 × 900 × 320)
Coil	Type			Cross fin coil	Cross fin coil
Compressor	Type			Hermetically sealed swing type	Hermetically sealed swing type
	Motor output		kW	3.5	3.5
Fan	Type			Propeller fan	Propeller fan
	Motor output		W	70 × 2	70 × 2
	Airflow rate		cfm (m³/min)	3,741 (106)	3,741 (106)
Weight			lbs (kg)	225 (102)	225 (102)
Piping connections		Liquid	in. (mm)	ϕ3/8 (ϕ9.5) (flare connection)	ϕ3/8 (ϕ9.5) (flare connection)
		Gas	in. (mm)	ϕ5/8 (ϕ15.9) (flare connection)	ϕ5/8 (ϕ15.9) (flare connection)
		Drain	in. (mm)	ϕ1 (ϕ26) (hole)	ϕ1 (ϕ26) (hole)
Safety devices				High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plug, Fuse	High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plug, Fuse
Capacity step			%	14-100	14-100
Refrigerant control				Electronic expansion valve	Electronic expansion valve
Ref. piping	Standard length		ft (m)	25 (7.6)	25 (7.6)
	Max. length		ft (m)	230 (70)	230 (70)
	Max. height difference		ft (m)	98 (30)	98 (30)
Refrigerant	Type			R410A	R410A
	Charge		lbs (kg)	7.9 (3.6)	7.9 (3.6)
Ref. oil	Type			DAPHNE FVC50K	DAPHNE FVC50K
	Charge		L	1.52	1.52

Note:

★1. Indoor temp.: 80°FDB (26.7°CDB), 67°FWB (19.4°CWB) / Outdoor temp.: 95°FDB (35.0°CDB) / Equivalent piping length: 25 ft. (7.6 m), height difference: 0 ft. (0 m).
★2. Capacities are net, including a deduction for cooling for indoor fan motor heat.
★3. Air filter is not standard accessory (field supply parts), but please mount it in the duct system of the suction side.

Air handling unit, continued

Model	Indoor unit	with factory disconnect		FTQ42TBVJUD	FTQ48TBVJUD
		without factory disconnect		FTQ42TBVJUA	FTQ48TBVJUA
	Outdoor unit			RZR42TBVJUB	RZR48TBVJUB
Power supply				1 phase, 208/230 V, 60 Hz	1 phase, 208/230 V, 60 Hz
Cooling capacity ★1, ★2			Btu/h (kW)	40,500 (11.9)	47,000 (13.8)
EER2 (rated)			Btu/h-W	10.6	9.1
SEER2 (rated)				16.0	15.3
Indoor unit		with factory disconnect		FTQ42TBVJUD	FTQ48TBVJUD
		without factory disconnect		FTQ42TBVJUA	FTQ48TBVJUA
Casing/color				Daikin Slate Gray	Daikin Slate Gray
Dimensions	H × W × D		in. (mm)	53.43 × 21 × 21 (1,357 × 533 × 533)	53.43 × 21 × 21 (1,357 × 533 × 533)
Coil	Type			Cross fin coil	Cross fin coil
Fan	Type			Sirocco FC Centrifugal	Sirocco FC Centrifugal
	Motor output		HP	3/4	3/4
	Airflow rate (H / M / L)		cfm (m³/min)	1,400 / 1,190 / 980 (39.7 / 33.7 / 27.8)	1,520 / 1,290 / 1,060 (43.1 / 36.5 / 30.0)
	External static pressure		in. w.g.	0.1” - 0.9”	0.1” - 0.9”
Air filter				— ★3	— ★3
Weight			lbs (kg)	150 (68)	150 (68)
Piping connections		Liquid	in. (mm)	ϕ3/8 (ϕ9.5) (brazing connection)	ϕ3/8 (ϕ9.5) (brazing connection)
		Gas	in. (mm)	ϕ5/8 (ϕ15.9) (brazing connection)	ϕ5/8 (ϕ15.9) (brazing connection)
		Drain	in. (mm)	3/4” (19.1)	3/4” (19.1)
Remote controller (accessory)		Wired		BRC1E73 / BRC1H71W / DTST-ONE-ADA-A	BRC1E73 / BRC1H71W / DTST-ONE-ADA-A
		Wireless		BRC4C82	BRC4C82
Outdoor unit				RZR42TBVJUB	RZR48TBVJUB
Casing/color				Ivory white	Ivory white
Dimensions	H × W × D		in. (mm)	52–15/16 × 35–7/16 × 12–5/8 (1,345 × 900 × 320)	52–15/16 × 35–7/16 × 12–5/8 (1,345 × 900 × 320)
Coil	Type			Cross fin coil	Cross fin coil
Compressor	Type			Hermetically sealed swing type	Hermetically sealed swing type
	Motor output		kW	3.5	3.5
Fan	Type			Propeller fan	Propeller fan
	Motor output		W	70 × 2	70 × 2
	Airflow rate		cfm (m³/min)	3,741 (106)	3,741 (106)
Weight			lbs (kg)	225 (102)	225 (102)
Piping connections		Liquid	in. (mm)	ϕ3/8 (ϕ9.5) (flare connection)	ϕ3/8 (ϕ9.5) (flare connection)
		Gas	in. (mm)	ϕ5/8 (ϕ15.9) (flare connection)	ϕ5/8 (ϕ15.9) (flare connection)
		Drain	in. (mm)	ϕ1 (ϕ26) (hole)	ϕ1 (ϕ26) (hole)
Safety devices				High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plug, Fuse	High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plug, Fuse
Capacity step			%	14-100	14-100
Refrigerant control				Electronic expansion valve	Electronic expansion valve
Ref. piping	Standard length		ft (m)	25 (7.6)	25 (7.6)
	Max. length		ft (m)	230 (70)	230 (70)
	Max. height difference		ft (m)	98 (30)	98 (30)
Refrigerant	Type			R410A	R410A
	Charge		lbs (kg)	7.9 (3.6)	7.9 (3.6)
Ref. oil	Type			DAPHNE FVC50K	DAPHNE FVC50K
	Charge		L	1.52	1.52

Note:

★1. Indoor temp.: 80°FDB (26.7°CDB), 67°FWB (19.4°CWB) / Outdoor temp.: 95°FDB (35.0°CDB) / Equivalent piping length: 25 ft. (7.6 m), height difference: 0 ft. (0 m).
★2. Capacities are net, including a deduction for cooling for indoor fan motor heat.
★3. Air filter is not standard accessory (field supply parts), but please mount it in the duct system of the suction side.

4.2 Heat Pump

4.2.1 FCQ

Ceiling mounted cassette type (round flow with sensing)

Model	Indoor unit			FCQ18AAVJU	FCQ24AAVJU
	Outdoor unit			RZQ18TBVJUB	RZQ24TBVJUB
Power supply				1 phase, 208/230 V, 60 Hz	1 phase, 208/230 V, 60 Hz
Cooling capacity ★1, ★4			Btu/h (kW)	18,000 (5.3)	24,000 (7.0)
Heating capacity ★2, ★4			Btu/h (kW)	20,000 (5.9)	27,000 (7.9)
Heating capacity ★3, ★4			Btu/h (kW)	12,300 (3.6)	18,000 (5.3)
EER2 (rated)			Btu/h-W	13.0	12.0
SEER2 (rated)				18.5	18.6
HSPF2 (rated)				9.2	9.1
Indoor unit				**FCQ18AAVJU**	**FCQ24AAVJU**
Casing/color				Galvanized steel plate	Galvanized steel plate
Dimensions	H × W × D		in. (mm)	9–11/16 × 33–1/16 × 33–1/16 (246 × 840 × 840)	9–11/16 × 33–1/16 × 33–1/16 (246 × 840 × 840)
Coil	Type			Cross fin coil	Cross fin coil
Fan	Type			Turbo fan	Turbo fan
	Motor output		W	53	53
	Airflow rate (H / M / L)		cfm (m^3/min)	742 / 618 / 477 (21.0 / 17.5 / 13.5)	777 / 618 / 477 (22.0 / 17.5 / 13.5)
	External static pressure		in.H_2O (Pa)	—	—
Air filter				—	—
Weight			lbs (kg)	51 (23)	51 (23)
Piping connections		Liquid	in. (mm)	ϕ3/8 (ϕ9.5) (flare connection)	ϕ3/8 (ϕ9.5) (flare connection)
		Gas	in. (mm)	ϕ5/8 (ϕ15.9) (flare connection)	ϕ5/8 (ϕ15.9) (flare connection)
		Drain	in. (mm)	VP25 (external dia. 1–1/4 (32), internal dia. 1 (26))	VP25 (external dia. 1–1/4 (32), internal dia. 1 (26))
Remote controller (accessory)		Wired		BRC1E73 / BRC1H71W / DTST-ONE-ADA-A	BRC1E73 / BRC1H71W / DTST-ONE-ADA-A
		Wireless		—	—
Decoration panel (accessory)	Model			BYCQ54EEFU / BYCQ54EEGFU	BYCQ54EEFU / BYCQ54EEGFU
	Color			Fresh white	Fresh white
	Dimensions	H × W × D	in. (mm)	2 × 37–3/8 × 37–3/8 / 5–1/8 × 37–3/8 × 37–3/8 (50 × 950 × 950 / 130 × 950 × 950)	2 × 37–3/8 × 37–3/8 / 5–1/8 × 37–3/8 × 37–3/8 (50 × 950 × 950 / 130 × 950 × 950)
	Air filter			Resin net (with mold resistance)	Resin net (with mold resistance)
	Weight		lbs (kg)	12 (5.5) / 22 (10.0)	12 (5.5) / 22 (10.0)
Outdoor unit				**RZQ18TBVJUB**	**RZQ24TBVJUB**
Casing/color				Ivory white	Ivory white
Dimensions	H × W × D		in. (mm)	39 × 37 × 12–5/8 (990 × 940 × 320)	39 × 37 × 12–5/8 (990 × 940 × 320)
Coil	Type			Cross fin coil	Cross fin coil
Compressor	Type			Hermetically sealed swing type	Hermetically sealed swing type
	Motor output		kW	1.9	1.9
Fan	Type			Propeller fan	Propeller fan
	Motor output		W	200	200
	Airflow rate		cfm (m^3/min)	2,682 (76)	2,682 (76)
Weight			lbs (kg)	172 (78)	172 (78)
Piping connections		Liquid	in. (mm)	ϕ3/8 (ϕ9.5) (flare connection)	ϕ3/8 (ϕ9.5) (flare connection)
		Gas	in. (mm)	ϕ5/8 (ϕ15.9) (flare connection)	ϕ5/8 (ϕ15.9) (flare connection)
		Drain	in. (mm)	ϕ1 (ϕ26) (hole)	ϕ1 (ϕ26) (hole)
Safety devices				High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plug, Fuse	High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plug, Fuse
Capacity step			%	14-100	14-100
Refrigerant control				Electronic expansion valve	Electronic expansion valve
Ref. piping	Standard length		ft (m)	25 (7.6)	25 (7.6)
	Max. length		ft (m)	164 (50)	164 (50)
	Max. height difference		ft (m)	98 (30)	98 (30)
Refrigerant	Type			R410A	R410A
	Charge		lbs (kg)	6.4 (2.9)	6.4 (2.9)
Ref. oil	Type			DAPHNE FVC50K	DAPHNE FVC50K
	Charge		L	1.08	1.08

Note:

★1. Indoor temp.: 80°FDB (26.7°CDB), 67°FWB (19.4°CWB) / Outdoor temp.: 95°FDB (35.0°CDB) / Equivalent piping length: 25 ft. (7.6 m), height difference: 0 ft. (0 m).

★2. Indoor temp.: 70°FDB (21.1°CDB) / Outdoor temp.: 47°FDB (8.3°CDB), 43°FWB (6.1°CWB) / Equivalent piping length: 25 ft. (7.6 m), height difference: 0 ft. (0 m).

★3. Indoor temp.: 70°FDB (21.1°CDB) / Outdoor temp.: 17°FDB (−8.3°CDB), 15°FWB (−9.4°CWB) / Equivalent piping length: 25 ft. (7.6 m), height difference: 0 ft. (0 m).

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

C: 4D148300

Ceiling mounted cassette type (round flow with sensing), continued

Model	Indoor unit			FCQ30AAVJU	FCQ36AAVJU
	Outdoor unit			RZQ30TBVJUB	RZQ36TBVJUB
Power supply				1 phase, 208/230 V, 60 Hz	1 phase, 208/230 V, 60 Hz
Cooling capacity ★1, ★4			Btu/h (kW)	30,000 (8.8)	36,000 (10.6)
Heating capacity ★2, ★4			Btu/h (kW)	34,000 (10.0)	40,000 (11.7)
Heating capacity ★3, ★4			Btu/h (kW)	22,800 (6.7)	26,200 (7.7)
EER2 (rated)			Btu/h-W	13.0	12.1
SEER2 (rated)				21.0	20.0
HSPF2 (rated)				10.1	10.0
Indoor unit				**FCQ30AAVJU**	**FCQ36AAVJU**
Casing/color				Galvanized steel plate	Galvanized steel plate
Dimensions	H × W × D		in. (mm)	11–11/32 × 33–1/16 × 33–1/16 (288 × 840 × 840)	11–11/32 × 33–1/16 × 33–1/16 (288 × 840 × 840)
Coil	Type			Cross fin coil	Cross fin coil
Fan	Type			Turbo fan	Turbo fan
	Motor output		W	106	106
	Airflow rate (H / M / L)		cfm (m^3/min)	1,059 / 882 / 671 (30.0 / 25.0 / 19.0)	1,253 / 918 / 671 (35.5 / 26.0 / 19.0)
	External static pressure		in.H_2O (Pa)	—	—
Air filter				—	—
Weight			lbs (kg)	58 (26)	58 (26)
Piping connections		Liquid	in. (mm)	ϕ3/8 (ϕ9.5) (flare connection)	ϕ3/8 (ϕ9.5) (flare connection)
		Gas	in. (mm)	ϕ5/8 (ϕ15.9) (flare connection)	ϕ5/8 (ϕ15.9) (flare connection)
		Drain	in. (mm)	VP25 (external dia. 1–1/4 (32), internal dia. 1 (26))	VP25 (external dia. 1–1/4 (32), internal dia. 1 (26))
Remote controller (accessory)		Wired		BRC1E73 / BRC1H71W / DTST-ONE-ADA-A	BRC1E73 / BRC1H71W / DTST-ONE-ADA-A
		Wireless		—	—
Decoration panel (accessory)	Model			BYCQ54EEFU / BYCQ54EEGFU	BYCQ54EEFU / BYCQ54EEGFU
	Color			Fresh white	Fresh white
	Dimensions	H × W × D	in. (mm)	2 × 37–3/8 × 37–3/8 / 5–1/8 × 37–3/8 × 37–3/8 (50 × 950 × 950 / 130 × 950 × 950)	2 × 37–3/8 × 37–3/8 / 5–1/8 × 37–3/8 × 37–3/8 (50 × 950 × 950 / 130 × 950 × 950)
	Air filter			Resin net (with mold resistance)	Resin net (with mold resistance)
	Weight		lbs (kg)	12 (5.5) / 22 (10.0)	12 (5.5) / 22 (10.0)
Outdoor unit				**RZQ30TBVJUB**	**RZQ36TBVJUB**
Casing/color				Ivory white	Ivory white
Dimensions	H × W × D		in. (mm)	52–15/16 × 35–7/16 × 12–5/8 (1,345 × 900 × 320)	52–15/16 × 35–7/16 × 12–5/8 (1,345 × 900 × 320)
Coil	Type			Cross fin coil	Cross fin coil
Compressor	Type			Hermetically sealed swing type	Hermetically sealed swing type
	Motor output		kW	3.5	3.5
Fan	Type			Propeller fan	Propeller fan
	Motor output		W	70 × 2	70 × 2
	Airflow rate		cfm (m^3/min)	3,741 (106)	3,741 (106)
Weight			lbs (kg)	225 (102)	225 (102)
Piping connections		Liquid	in. (mm)	ϕ3/8 (ϕ9.5) (flare connection)	ϕ3/8 (ϕ9.5) (flare connection)
		Gas	in. (mm)	ϕ5/8 (ϕ15.9) (flare connection)	ϕ5/8 (ϕ15.9) (flare connection)
		Drain	in. (mm)	ϕ1 (ϕ26) (hole)	ϕ1 (ϕ26) (hole)
Safety devices				High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plug, Fuse	High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plug, Fuse
Capacity step			%	14-100	14-100
Refrigerant control				Electronic expansion valve	Electronic expansion valve
Ref. piping	Standard length		ft (m)	25 (7.6)	25 (7.6)
	Max. length		ft (m)	230 (70)	230 (70)
	Max. height difference		ft (m)	98 (30)	98 (30)
Refrigerant	Type			R410A	R410A
	Charge		lbs (kg)	7.9 (3.6)	7.9 (3.6)
Ref. oil	Type			DAPHNE FVC50K	DAPHNE FVC50K
	Charge		L	1.52	1.52

Note:

★1. Indoor temp.: 80°FDB (26.7°CDB), 67°FWB (19.4°CWB) / Outdoor temp.: 95°FDB (35.0°CDB) / Equivalent piping length: 25 ft. (7.6 m), height difference: 0 ft. (0 m).

★2. Indoor temp.: 70°FDB (21.1°CDB) / Outdoor temp.: 47°FDB (8.3°CDB), 43°FWB (6.1°CWB) / Equivalent piping length: 25 ft. (7.6 m), height difference: 0 ft. (0 m).

★3. Indoor temp.: 70°FDB (21.1°CDB) / Outdoor temp.: 17°FDB (−8.3°CDB), 15°FWB (−9.4°CWB) / Equivalent piping length: 25 ft. (7.6 m), height difference: 0 ft. (0 m).

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

C: 4D148301

Ceiling mounted cassette type (round flow with sensing), continued

Model	Indoor unit			FCQ42AAVJU	FCQ48AAVJU
	Outdoor unit			RZQ42TBVJUB	RZQ48TBVJUB
Power supply				1 phase, 208/230 V, 60 Hz	1 phase, 208/230 V, 60 Hz
Cooling capacity ★1, ★4			Btu/h (kW)	42,000 (12.3)	48,000 (14.1)
Heating capacity ★2, ★4			Btu/h (kW)	47,000 (13.8)	54,000 (15.8)
Heating capacity ★3, ★4			Btu/h (kW)	31,200 (9.1)	34,800 (10.2)
EER2 (rated)			Btu/h-W	10.3	8.2
SEER2 (rated)				18.9	18.0
HSPF2 (rated)				10.2	10.3
Indoor unit				**FCQ42AAVJU**	**FCQ48AAVJU**
Casing/color				Galvanized steel plate	Galvanized steel plate
Dimensions	H × W × D		in. (mm)	11–11/32 × 33–1/16 × 33–1/16 (288 × 840 × 840)	11–11/32 × 33–1/16 × 33–1/16 (288 × 840 × 840)
Coil	Type			Cross fin coil	Cross fin coil
Fan	Type			Turbo fan	Turbo fan
	Motor output		W	106	106
	Airflow rate (H / M / L)		cfm (m^3/min)	1,253 / 971 / 741 (35.5 / 27.5 / 21.0)	1,253 / 971 / 741 (35.5 / 27.5 / 21.0)
	External static pressure		in.H_2O (Pa)	—	—
Air filter				—	—
Weight			lbs (kg)	58 (26)	58 (26)
Piping connections		Liquid	in. (mm)	ϕ3/8 (ϕ9.5) (flare connection)	ϕ3/8 (ϕ9.5) (flare connection)
		Gas	in. (mm)	ϕ5/8 (ϕ15.9) (flare connection)	ϕ5/8 (ϕ15.9) (flare connection)
		Drain	in. (mm)	VP25 (external dia. 1–1/4 (32), internal dia. 1 (26))	VP25 (external dia. 1–1/4 (32), internal dia. 1 (26))
Remote controller (accessory)		Wired		BRC1E73 / BRC1H71W / DTST-ONE-ADA-A	BRC1E73 / BRC1H71W / DTST-ONE-ADA-A
		Wireless		—	—
Decoration panel (accessory)	Model			BYCQ54EEFU / BYCQ54EEGFU	BYCQ54EEFU / BYCQ54EEGFU
	Color			Fresh white	Fresh white
	Dimensions	H × W × D	in. (mm)	2 × 37–3/8 × 37–3/8 / 5–1/8 × 37–3/8 × 37–3/8 (50 × 950 × 950 / 130 × 950 × 950)	2 × 37–3/8 × 37–3/8 / 5–1/8 × 37–3/8 × 37–3/8 (50 × 950 × 950 / 130 × 950 × 950)
	Air filter			Resin net (with mold resistance)	Resin net (with mold resistance)
	Weight		lbs (kg)	12 (5.5) / 22 (10.0)	12 (5.5) / 22 (10.0)
Outdoor unit				**RZQ42TBVJUB**	**RZQ48TBVJUB**
Casing/color				Ivory white	Ivory white
Dimensions	H × W × D		in. (mm)	52–15/16 × 35–7/16 × 12–5/8 (1,345 × 900 × 320)	52–15/16 × 35–7/16 × 12–5/8 (1,345 × 900 × 320)
Coil	Type			Cross fin coil	Cross fin coil
Compressor	Type			Hermetically sealed swing type	Hermetically sealed swing type
	Motor output		kW	3.5	3.5
Fan	Type			Propeller fan	Propeller fan
	Motor output		W	70 × 2	70 × 2
	Airflow rate		cfm (m^3/min)	3,741 (106)	3,741 (106)
Weight			lbs (kg)	225 (102)	225 (102)
Piping connections		Liquid	in. (mm)	ϕ3/8 (ϕ9.5) (flare connection)	ϕ3/8 (ϕ9.5) (flare connection)
		Gas	in. (mm)	ϕ5/8 (ϕ15.9) (flare connection)	ϕ5/8 (ϕ15.9) (flare connection)
		Drain	in. (mm)	ϕ1 (ϕ26) (hole)	ϕ1 (ϕ26) (hole)
Safety devices				High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plug, Fuse	High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plug, Fuse
Capacity step			%	14-100	14-100
Refrigerant control				Electronic expansion valve	Electronic expansion valve
Ref. piping	Standard length		ft (m)	25 (7.6)	25 (7.6)
	Max. length		ft (m)	230 (70)	230 (70)
	Max. height difference		ft (m)	98 (30)	98 (30)
Refrigerant	Type			R410A	R410A
	Charge		lbs (kg)	7.9 (3.6)	7.9 (3.6)
Ref. oil	Type			DAPHNE FVC50K	DAPHNE FVC50K
	Charge		L	1.52	1.52

Note:

★1. Indoor temp.: 80°FDB (26.7°CDB), 67°FWB (19.4°CWB) / Outdoor temp.: 95°FDB (35.0°CDB) / Equivalent piping length: 25 ft. (7.6 m), height difference: 0 ft. (0 m).

★2. Indoor temp.: 70°FDB (21.1°CDB) / Outdoor temp.: 47°FDB (8.3°CDB), 43°FWB (6.1°CWB) / Equivalent piping length: 25 ft. (7.6 m), height difference: 0 ft. (0 m).

★3. Indoor temp.: 70°FDB (21.1°CDB) / Outdoor temp.: 17°FDB (−8.3°CDB), 15°FWB (−9.4°CWB) / Equivalent piping length: 25 ft. (7.6 m), height difference: 0 ft. (0 m).

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

C: 4D148301

4.2.2 FAQ

Wall mounted type

Model	Indoor unit			FAQ18TAVJU	FAQ24TAVJU
	Outdoor unit			RZQ18TBVJUB	RZQ24TBVJUB
Power supply				1 phase, 208/230 V, 60 Hz	1 phase, 208/230 V, 60 Hz
Cooling capacity ★1, ★4			Btu/h (kW)	18,000 (5.3)	24,000 (7.0)
Heating capacity ★2, ★4			Btu/h (kW)	20,000 (5.9)	27,000 (7.9)
Heating capacity ★3, ★4			Btu/h (kW)	13,800 (4.0)	20,000 (5.9)
EER2 (rated)			Btu/h-W	11.9	10.2
SEER2 (rated)				16.9	17.3
HSPF2 (rated)				7.6	7.8
Indoor unit				**FAQ18TAVJU**	**FAQ24TAVJU**
Casing/color				White (3.0Y8.5/0.5)	White (3.0Y8.5/0.5)
Dimensions	H × W × D		in. (mm)	11–3/8 × 41–3/8 × 9–1/4 (290 × 1,050 × 238)	11–3/8 × 41–3/8 × 9–1/4 (290 × 1,050 × 238)
Coil	Type			Cross fin coil	Cross fin coil
Fan	Type			Cross flow fan	Cross flow fan
	Motor output		W	43	43
	Airflow rate (H / L)		cfm (m^3/min)	500 / 400 (14 / 11)	635 / 470 (18 / 13)
	External static pressure		in.H_2O (Pa)	—	—
Air filter				Resin net (washable)	Resin net (washable)
Weight			lbs (kg)	31 (14)	31 (14)
Piping connections		Liquid	in. (mm)	ϕ3/8 (ϕ9.5) (flare connection)	ϕ3/8 (ϕ9.5) (flare connection)
		Gas	in. (mm)	ϕ5/8 (ϕ15.9) (flare connection)	ϕ5/8 (ϕ15.9) (flare connection)
		Drain	in. (mm)	VP13 (external dia. 11/16 (18), internal dia. 1/2 (13))	VP13 (external dia. 11/16 (18), internal dia. 1/2 (13))
Remote controller (accessory)		Wired		BRC1E73 / BRC1H71W / DTST-ONE-ADA-A	BRC1E73 / BRC1H71W / DTST-ONE-ADA-A
		Wireless		BRC7E818	BRC7E818
Outdoor unit				**RZQ18TBVJUB**	**RZQ24TBVJUB**
Casing/color				Ivory white	Ivory white
Dimensions	H × W × D		in. (mm)	39 × 37 × 12–5/8 (990 × 940 × 320)	39 × 37 × 12–5/8 (990 × 940 × 320)
Coil	Type			Cross fin coil	Cross fin coil
Compressor	Type			Hermetically sealed swing type	Hermetically sealed swing type
	Motor output		kW	1.9	1.9
Fan	Type			Propeller fan	Propeller fan
	Motor output		W	200	200
	Airflow rate		cfm (m^3/min)	2,682 (76)	2,682 (76)
Weight			lbs (kg)	172 (78)	172 (78)
Piping connections		Liquid	in. (mm)	ϕ3/8 (ϕ9.5) (flare connection)	ϕ3/8 (ϕ9.5) (flare connection)
		Gas	in. (mm)	ϕ5/8 (ϕ15.9) (flare connection)	ϕ5/8 (ϕ15.9) (flare connection)
		Drain	in. (mm)	ϕ1 (ϕ26) (hole)	ϕ1 (ϕ26) (hole)
Safety devices				High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plug, Fuse	High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plug, Fuse
Capacity step			%	14-100	14-100
Refrigerant control				Electronic expansion valve	Electronic expansion valve
Ref. piping	Standard length		ft (m)	25 (7.6)	25 (7.6)
	Max. length		ft (m)	164 (50)	164 (50)
	Max. height difference		ft (m)	98 (30)	98 (30)
Refrigerant	Type			R410A	R410A
	Charge		lbs (kg)	6.4 (2.9)	6.4 (2.9)
Ref. oil	Type			DAPHNE FVC50K	DAPHNE FVC50K
	Charge		L	1.08	1.08

Note:

★1. Indoor temp.: 80°FDB (26.7°CDB), 67°FWB (19.4°CWB) / Outdoor temp.: 95°FDB (35.0°CDB) / Equivalent piping length: 25 ft. (7.6 m), height difference: 0 ft. (0 m).
★2. Indoor temp.: 70°FDB (21.1°CDB) / Outdoor temp.: 47°FDB (8.3°CDB), 43°FWB (6.1°CWB) / Equivalent piping length: 25 ft. (7.6 m), height difference: 0 ft. (0 m).
★3. Indoor temp.: 70°FDB (21.1°CDB) / Outdoor temp.: 17°FDB (−8.3°CDB), 15°FWB (−9.4°CWB) / Equivalent piping length: 25 ft. (7.6 m), height difference: 0 ft. (0 m).
★4. Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.

C: 4D148304

4.2.3 FBQ

HSP concealed ducted unit

Model	Indoor unit			FBQ18TBVJU	FBQ24TBVJU
	Outdoor unit			RZQ18TBVJUB	RZQ24TBVJUB
Power supply				1 phase, 208/230 V, 60 Hz	1 phase, 208/230 V, 60 Hz
Cooling capacity ★1, ★4			Btu/h (kW)	17,700 (5.2)	23,400 (6.9)
Heating capacity ★2, ★4			Btu/h (kW)	20,600 (6.0)	27,400 (8.0)
Heating capacity ★3, ★4			Btu/h (kW)	14,000 (4.1)	19,000 (5.6)
EER2 (rated)			Btu/h-W	12.5	10.5
SEER2 (rated)				15.5	15.4
HSPF2 (rated)				8.5	9.3
Indoor unit				**FBQ18TBVJU**	**FBQ24TBVJU**
Casing/color				Galvanized steel plate	Galvanized steel plate
Dimensions	H × W × D		in. (mm)	9–11/16 × 39–3/8 × 31–1/2 (245 × 1,000 × 800)	9–11/16 × 39–3/8 × 31–1/2 (245 × 1,000 × 800)
Coil	Type			Cross fin coil	Cross fin coil
Fan	Type			Sirocco fan	Sirocco fan
	Motor output		W	230	230
	Airflow rate (H / M / L)		cfm (m^3/min)	635 / 565 / 512 (18.0 / 16.0 / 14.5)	742 / 635 / 565 (21.0 / 18.0 / 16.0)
	External static pressure		in.H_2O (Pa)	Standard 0.40 <0.80-0.20> (100 <200-50>) ★5	Standard 0.40 <0.80-0.20> (100 <200-50>) ★5
Air filter				— ★6	— ★6
Weight			lbs (kg)	77 (35)	82(37)
Piping connections		Liquid	in. (mm)	ϕ3/8 (ϕ9.5) (flare connection)	ϕ3/8 (ϕ9.5) (flare connection)
		Gas	in. (mm)	ϕ5/8 (ϕ15.9) (flare connection)	ϕ5/8 (ϕ15.9) (flare connection)
		Drain	in. (mm)	VP25 (external dia. 1–1/4 (32), internal dia. 1 (26))	VP25 (external dia. 1–1/4 (32), internal dia. 1 (26))
Remote controller (accessory)		Wired		BRC1E73 / BRC1H71W / DTST-ONE-ADA-A	BRC1E73 / BRC1H71W / DTST-ONE-ADA-A
		Wireless		BRC082A43	BRC082A43
Outdoor unit				**RZQ18TBVJUB**	**RZQ24TBVJUB**
Casing/color				Ivory white	Ivory white
Dimensions	H × W × D		in. (mm)	39 × 37 × 12–5/8 (990 × 940 × 320)	39 × 37 × 12–5/8 (990 × 940 × 320)
Coil	Type			Cross fin coil	Cross fin coil
Compressor	Type			Hermetically sealed swing type	Hermetically sealed swing type
	Motor output		kW	1.9	1.9
Fan	Type			Propeller fan	Propeller fan
	Motor output		W	200	200
	Airflow rate		cfm (m^3/min)	2,682 (76)	2,682 (76)
Weight			lbs (kg)	172 (78)	172 (78)
Piping connections		Liquid	in. (mm)	ϕ3/8 (ϕ9.5) (flare connection)	ϕ3/8 (ϕ9.5) (flare connection)
		Gas	in. (mm)	ϕ5/8 (ϕ15.9) (flare connection)	ϕ5/8 (ϕ15.9) (flare connection)
		Drain	in. (mm)	ϕ1 (ϕ26) (hole)	ϕ1 (ϕ26) (hole)
Safety devices				High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plug, Fuse	High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plug, Fuse
Capacity step			%	14-100	14-100
Refrigerant control				Electronic expansion valve	Electronic expansion valve
Ref. piping	Standard length		ft (m)	25 (7.6)	25 (7.6)
	Max. length		ft (m)	164 (50)	164 (50)
	Max. height difference		ft (m)	98 (30)	98 (30)
Refrigerant	Type			R410A	R410A
	Charge		lbs (kg)	6.4 (2.9)	6.4 (2.9)
Ref. oil	Type			DAPHNE FVC50K	DAPHNE FVC50K
	Charge		L	1.08	1.08

Note:

★1. Indoor temp.: 80°FDB (26.7°CDB), 67°FWB (19.4°CWB) / Outdoor temp.: 95°FDB (35.0°CDB) / Equivalent piping length: 25 ft. (7.6 m), height difference: 0 ft. (0 m).
★2. Indoor temp.: 70°FDB (21.1°CDB) / Outdoor temp.: 47°FDB (8.3°CDB), 43°FWB (6.1°CWB) / Equivalent piping length: 25 ft. (7.6 m), height difference: 0 ft. (0 m).
★3. Indoor temp.: 70°FDB (21.1°CDB) / Outdoor temp.: 17°FDB (−8.3°CDB), 15°FWB (−9.4°CWB) / Equivalent piping length: 25 ft. (7.6 m), height difference: 0 ft. (0 m).
★4. Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.
★5. External static pressure is changeable in 14 stages within the < > range by remote controller.
★6. Air filter is not standard accessory, but please mount it in the duct system of the suction side.
Select its dust collection efficiency (gravity method) 50% or more.

C: 4D148306

HSP concealed ducted unit, continued

Model	Indoor unit			FBQ30TBVJU	FBQ36TBVJU
	Outdoor unit			RZQ30TBVJUB	RZQ36TBVJUB
Power supply				1 phase, 208/230 V, 60 Hz	1 phase, 208/230 V, 60 Hz
Cooling capacity ★1, ★4			Btu/h (kW)	28,400 (8.3)	35,000 (10.3)
Heating capacity ★2, ★4			Btu/h (kW)	34,800 (10.2)	40,000 (11.7)
Heating capacity ★3, ★4			Btu/h (kW)	24,000 (7.0)	28,000 (8.2)
EER2 (rated)			Btu/h-W	12.2	11.7
SEER2 (rated)				16.5	16.9
HSPF2 (rated)				8.9	8.8
Indoor unit				**FBQ30TBVJU**	**FBQ36TBVJU**
Casing/color				Galvanized steel plate	Galvanized steel plate
Dimensions	H × W × D		in. (mm)	9-11/16 × 55-1/8 × 31-1/2 (245 × 1,400 × 800)	9-11/16 × 55-1/8 × 31-1/2 (245 × 1,400 × 800)
Coil	Type			Cross fin coil	Cross fin coil
Fan	Type			Sirocco fan	Sirocco fan
	Motor output		W	364	364
	Airflow rate (H / M / L)		cfm (m^3/min)	1,094 / 847 / 795 (31.0 / 24.0 / 22.5)	1,130 / 953 / 795 (32.0 / 27.0 / 22.5)
	External static pressure		in.H_2O (Pa)	Standard 0.40 <0.80-0.20> (100 <200-50>) ★5	Standard 0.40 <0.80-0.20> (100 <200-50>) ★5
Air filter				— ★6	— ★6
Weight			lbs (kg)	101 (46)	101 (46)
Piping connections		Liquid	in. (mm)	ϕ3/8 (ϕ9.5) (flare connection)	ϕ3/8 (ϕ9.5) (flare connection)
		Gas	in. (mm)	ϕ5/8 (ϕ15.9) (flare connection)	ϕ5/8 (ϕ15.9) (flare connection)
		Drain	in. (mm)	VP25 (external dia. 1–1/4 (32), internal dia. 1 (26))	VP25 (external dia. 1–1/4 (32), internal dia. 1 (26))
Remote controller (accessory)		Wired		BRC1E73 / BRC1H71W / DTST-ONE-ADA-A	BRC1E73 / BRC1H71W / DTST-ONE-ADA-A
		Wireless		BRC082A43	BRC082A43
Outdoor unit				**RZQ30TBVJUB**	**RZQ36TBVJUB**
Casing/color				Ivory white	Ivory white
Dimensions	H × W × D		in. (mm)	52–15/16 × 35–7/16 × 12–5/8 (1,345 × 900 × 320)	52–15/16 × 35–7/16 × 12–5/8 (1,345 × 900 × 320)
Coil	Type			Cross fin coil	Cross fin coil
Compressor	Type			Hermetically sealed swing type	Hermetically sealed swing type
	Motor output		kW	3.5	3.5
Fan	Type			Propeller fan	Propeller fan
	Motor output		W	70 × 2	70 × 2
	Airflow rate		cfm (m^3/min)	3,741 (106)	3,741 (106)
Weight			lbs (kg)	225 (102)	225 (102)
Piping connections		Liquid	in. (mm)	ϕ3/8 (ϕ9.5) (flare connection)	ϕ3/8 (ϕ9.5) (flare connection)
		Gas	in. (mm)	ϕ5/8 (ϕ15.9) (flare connection)	ϕ5/8 (ϕ15.9) (flare connection)
		Drain	in. (mm)	ϕ1 (ϕ26) (hole)	ϕ1 (ϕ26) (hole)
Safety devices				High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plug, Fuse	High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plug, Fuse
Capacity step			%	14-100	14-100
Refrigerant control				Electronic expansion valve	Electronic expansion valve
Ref. piping	Standard length		ft (m)	25 (7.6)	25 (7.6)
	Max. length		ft (m)	230 (70)	230 (70)
	Max. height difference		ft (m)	98 (30)	98 (30)
Refrigerant	Type			R410A	R410A
	Charge		lbs (kg)	7.9 (3.6)	7.9 (3.6)
Ref. oil	Type			DAPHNE FVC50K	DAPHNE FVC50K
	Charge		L	1.52	1.52

Note:

★1. Indoor temp.: 80°FDB (26.7°CDB), 67°FWB (19.4°CWB) / Outdoor temp.: 95°FDB (35.0°CDB) / Equivalent piping length: 25 ft. (7.6 m), height difference: 0 ft. (0 m).
★2. Indoor temp.: 70°FDB (21.1°CDB) / Outdoor temp.: 47°FDB (8.3°CDB), 43°FWB (6.1°CWB) / Equivalent piping length: 25 ft. (7.6 m), height difference: 0 ft. (0 m).
★3. Indoor temp.: 70°FDB (21.1°CDB) / Outdoor temp.: 17°FDB (−8.3°CDB), 15°FWB (−9.4°CWB) / Equivalent piping length: 25 ft. (7.6 m), height difference: 0 ft. (0 m).
★4. Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.
★5. External static pressure is changeable in 14 stages within the < > range by remote controller.
★6. Air filter is not standard accessory, but please mount it in the duct system of the suction side.
Select its dust collection efficiency (gravity method) 50% or more.

C: 4D148307

HSP concealed ducted unit, continued

Model	Indoor unit			FBQ42TBVJU	FBQ48TBVJU
	Outdoor unit			RZQ42TBVJUB	RZQ48TBVJUB
Power supply				1 phase, 208/230 V, 60 Hz	1 phase, 208/230 V, 60 Hz
Cooling capacity ★1, ★4			Btu/h (kW)	40,000 (11.7)	46,500 (13.6)
Heating capacity ★2, ★4			Btu/h (kW)	47,000 (13.8)	54,000 (15.8)
Heating capacity ★3, ★4			Btu/h (kW)	32,400 (9.5)	38,000 (11.1)
EER2 (rated)			Btu/h-W	10.3	8.3
SEER2 (rated)				15.6	15.3
HSPF2 (rated)				9.5	9.3
Indoor unit				**FBQ42TBVJU**	**FBQ48TBVJU**
Casing/color				Galvanized steel plate	Galvanized steel plate
Dimensions	H × W × D		in. (mm)	9-11/16 × 55-1/8 × 31-1/2 (245 × 1,400 × 800)	9-11/16 × 55-1/8 × 31-1/2 (245 × 1,400 × 800)
Coil	Type			Cross fin coil	Cross fin coil
Fan	Type			Sirocco fan	Sirocco fan
	Motor output		W	364	364
	Airflow rate (H / M / L)		cfm (m^3/min)	1,377 / 1,130 / 918 (39.0 / 32.0 / 26.0)	1,377 / 1,130 / 918 (39.0 / 32.0 / 26.0)
	External static pressure		in.H_2O (Pa)	Standard 0.40 <0.80-0.20> (100 <200-50>) ★5	Standard 0.40 <0.80-0.20> (100 <200-50>) ★5
Air filter				— ★6	— ★6
Weight			lbs (kg)	104 (47)	104 (47)
Piping connections		Liquid	in. (mm)	ϕ3/8 (ϕ9.5) (flare connection)	ϕ3/8 (ϕ9.5) (flare connection)
		Gas	in. (mm)	ϕ5/8 (ϕ15.9) (flare connection)	ϕ5/8 (ϕ15.9) (flare connection)
		Drain	in. (mm)	VP25 (external dia. 1–1/4 (32), internal dia. 1 (26))	VP25 (external dia. 1–1/4 (32), internal dia. 1 (26))
Remote controller (accessory)		Wired		BRC1E73 / BRC1H71W / DTST-ONE-ADA-A	BRC1E73 / BRC1H71W / DTST-ONE-ADA-A
		Wireless		BRC082A43	BRC082A43
Outdoor unit				**RZQ42TBVJUB**	**RZQ48TBVJUB**
Casing/color				Ivory white	Ivory white
Dimensions	H × W × D		in. (mm)	52–15/16 × 35–7/16 × 12–5/8 (1,345 × 900 × 320)	52–15/16 × 35–7/16 × 12–5/8 (1,345 × 900 × 320)
Coil	Type			Cross fin coil	Cross fin coil
Compressor	Type			Hermetically sealed swing type	Hermetically sealed swing type
	Motor output		kW	3.5	3.5
Fan	Type			Propeller fan	Propeller fan
	Motor output		W	70 × 2	70 × 2
	Airflow rate		cfm (m^3/min)	3,741 (106)	3,741 (106)
Weight			lbs (kg)	225 (102)	225 (102)
Piping connections		Liquid	in. (mm)	ϕ3/8 (ϕ9.5) (flare connection)	ϕ3/8 (ϕ9.5) (flare connection)
		Gas	in. (mm)	ϕ5/8 (ϕ15.9) (flare connection)	ϕ5/8 (ϕ15.9) (flare connection)
		Drain	in. (mm)	ϕ1 (ϕ26) (hole)	ϕ1 (ϕ26) (hole)
Safety devices				High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plug, Fuse	High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plug, Fuse
Capacity step			%	14-100	14-100
Refrigerant control				Electronic expansion valve	Electronic expansion valve
Ref. piping	Standard length		ft (m)	25 (7.6)	25 (7.6)
	Max. length		ft (m)	230 (70)	230 (70)
	Max. height difference		ft (m)	98 (30)	98 (30)
Refrigerant	Type			R410A	R410A
	Charge		lbs (kg)	7.9 (3.6)	7.9 (3.6)
Ref. oil	Type			DAPHNE FVC50K	DAPHNE FVC50K
	Charge		L	1.52	1.52

Note:

★1. Indoor temp.: 80°FDB (26.7°CDB), 67°FWB (19.4°CWB) / Outdoor temp.: 95°FDB (35.0°CDB) / Equivalent piping length: 25 ft. (7.6 m), height difference: 0 ft. (0 m).
★2. Indoor temp.: 70°FDB (21.1°CDB) / Outdoor temp.: 47°FDB (8.3°CDB), 43°FWB (6.1°CWB) / Equivalent piping length: 25 ft. (7.6 m), height difference: 0 ft. (0 m).
★3. Indoor temp.: 70°FDB (21.1°CDB) / Outdoor temp.: 17°FDB (−8.3°CDB), 15°FWB (−9.4°CWB) / Equivalent piping length: 25 ft. (7.6 m), height difference: 0 ft. (0 m).
★4. Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.
★5. External static pressure is changeable in 14 stages within the < > range by remote controller.
★6. Air filter is not standard accessory, but please mount it in the duct system of the suction side.
Select its dust collection efficiency (gravity method) 50% or more.

C: 4D148307

4.2.4 FTQ

Air handling unit

Model	Indoor unit	with factory disconnect		FTQ18TBVJUD	FTQ24TBVJUD
		without factory disconnect		FTQ18TBVJUA	FTQ24TBVJUA
	Outdoor unit			RZQ18TBVJUB	RZQ24TBVJUB
Power supply				1 phase, 208/230 V, 60 Hz	1 phase, 208/230 V, 60 Hz
Cooling capacity ★1, ★4			Btu/h (kW)	17,200 (5.0)	23,400 (6.9)
Heating capacity ★2, ★4			Btu/h (kW)	20,000 (5.9)	27,400 (8.0)
Heating capacity ★3, ★4			Btu/h (kW)	13,600 (4.0)	19,400 (5.7)
EER2 (rated)			Btu/h-W	11.7	9.9
SEER2 (rated)				15.6	16.2
HSPF2 (rated)				8.1	8.7
Indoor unit		with factory disconnect		FTQ18TBVJUD	FTQ24TBVJUD
		without factory disconnect		FTQ18TBVJUA	FTQ24TBVJUA
Casing/color				Daikin Slate Gray	Daikin Slate Gray
Dimensions	H × W × D		in. (mm)	45 × 17.5 × 21 (1,143 × 445 × 533)	45 × 17.5 × 21 (1,143 × 445 × 533)
Coil	Type			Cross fin coil	Cross fin coil
Fan	Type			Sirocco FC Centrifugal	Sirocco FC Centrifugal
	Motor output		HP	1/2	1/2
	Airflow rate (H / M / L)		cfm (m³/min)	600 / 510 / 420 (17.0 / 14.4 / 11.9)	800 / 680 / 560 (22.7 / 19.3 / 15.9)
	External static pressure		in. w.g.	0.1” - 0.9”	0.1” - 0.9”
Air filter				— ★5	— ★5
Weight			lbs (kg)	115 (52.2)	115 (52.2)
Piping connections		Liquid	in. (mm)	ϕ3/8 (ϕ9.5) (brazing connection)	ϕ3/8 (ϕ9.5) (brazing connection)
		Gas	in. (mm)	ϕ5/8 (ϕ15.9) (brazing connection)	ϕ5/8 (ϕ15.9) (brazing connection)
		Drain	in. (mm)	3/4” (19.1)	3/4” (19.1)
Remote controller (accessory)		Wired		BRC1E73 / BRC1H71W / DTST-ONE-ADA-A	BRC1E73 / BRC1H71W / DTST-ONE-ADA-A
		Wireless		BRC4C82	BRC4C82
Outdoor unit				RZQ18TBVJUB	RZQ24TBVJUB
Casing/color				Ivory white	Ivory white
Dimensions	H × W × D		in. (mm)	39 × 37 × 12–5/8 (990 × 940 × 320)	39 × 37 × 12–5/8 (990 × 940 × 320)
Coil	Type			Cross fin coil	Cross fin coil
Compressor	Type			Hermetically sealed swing type	Hermetically sealed swing type
	Motor output		kW	1.9	1.9
Fan	Type			Propeller fan	Propeller fan
	Motor output		W	200	200
	Airflow rate		cfm (m³/min)	2,682 (76)	2,682 (76)
Weight			lbs (kg)	172 (78)	172 (78)
Piping connections		Liquid	in. (mm)	ϕ3/8 (ϕ9.5) (flare connection)	ϕ3/8 (ϕ9.5) (flare connection)
		Gas	in. (mm)	ϕ5/8 (ϕ15.9) (flare connection)	ϕ5/8 (ϕ15.9) (flare connection)
		Drain	in. (mm)	ϕ1 (ϕ26) (hole)	ϕ1 (ϕ26) (hole)
Safety devices				High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plug, Fuse	High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plug, Fuse
Capacity step			%	14-100	14-100
Refrigerant control				Electronic expansion valve	Electronic expansion valve
Ref. piping	Standard length		ft (m)	25 (7.6)	25 (7.6)
	Max. length		ft (m)	164 (50)	164 (50)
	Max. height difference		ft (m)	98 (30)	98 (30)
Refrigerant	Type			R410A	R410A
	Charge		lbs (kg)	6.4 (2.9)	6.4 (2.9)
Ref. oil	Type			DAPHNE FVC50K	DAPHNE FVC50K
	Charge		L	1.08	1.08

Note:

★1. Indoor temp.: 80°FDB (26.7°CDB), 67°FWB (19.4°CWB) / Outdoor temp.: 95°FDB (35.0°CDB) / Equivalent piping length: 25 ft. (7.6 m), height difference: 0 ft. (0 m).
★2. Indoor temp.: 70°FDB (21.1°CDB) / Outdoor temp.: 47°FDB (8.3°CDB), 43°FWB (6.1°CWB) / Equivalent piping length: 25 ft. (7.6 m), height difference: 0 ft. (0 m).
★3. Indoor temp.: 70°FDB (21.1°CDB) / Outdoor temp.: 17°FDB (−8.3°CDB), 15°FWB (−9.4°CWB) / Equivalent piping length: 25 ft. (7.6 m), height difference: 0 ft. (0 m).
★4. Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.
★5. Air filter is not standard accessory (field supply parts), but please mount it in the duct system of the suction side.

Air handling unit, continued

Model	Indoor unit	with factory disconnect		FTQ30TBVJUD	FTQ36TBVJUD
		without factory disconnect		FTQ30TBVJUA	FTQ36TBVJUA
	Outdoor unit			RZQ30TBVJUB	RZQ36TBVJUB
Power supply				1 phase, 208/230 V, 60 Hz	1 phase, 208/230 V, 60 Hz
Cooling capacity ★1, ★4			Btu/h (kW)	29,500 (8.6)	35,000 (10.3)
Heating capacity ★2, ★4			Btu/h (kW)	34,000 (10.0)	40,000 (11.7)
Heating capacity ★3, ★4			Btu/h (kW)	24,000 (7.0)	28,500 (8.4)
EER2 (rated)			Btu/h-W	11.9	11.2
SEER2 (rated)				15.6	16.4
HSPF2 (rated)				9.1	8.8
Indoor unit		**with factory disconnect**		**FTQ30TBVJUD**	**FTQ36TBVJUD**
		without factory disconnect		**FTQ30TBVJUA**	**FTQ36TBVJUA**
Casing/color				Daikin Slate Gray	Daikin Slate Gray
Dimensions	H × W × D		in. (mm)	45 × 17.5 × 21 (1,143 × 445 × 533)	45 × 17.5 × 21 (1,143 × 445 × 533)
Coil	Type			Cross fin coil	Cross fin coil
Fan	Type			Sirocco FC Centrifugal	Sirocco FC Centrifugal
	Motor output		HP	1/2	1/2
	Airflow rate (H / M / L)		cfm (m³/min)	1,000 / 850 / 700 (28.3 / 24.1 / 19.8)	1,050 / 900 / 750 (29.7 / 25.5 / 21.2)
	External static pressure		in. w.g.	0.1” - 0.9”	0.1” - 0.9”
Air filter				— ★5	— ★5
Weight			lbs (kg)	115 (52.2)	140 (63.5)
Piping connections		Liquid	in. (mm)	ϕ3/8 (ϕ9.5) (brazing connection)	ϕ3/8 (ϕ9.5) (brazing connection)
		Gas	in. (mm)	ϕ5/8 (ϕ15.9) (brazing connection)	ϕ5/8 (ϕ15.9) (brazing connection)
		Drain	in. (mm)	3/4” (19.1)	3/4” (19.1)
Remote controller (accessory)		Wired		BRC1E73 / BRC1H71W / DTST-ONE-ADA-A	BRC1E73 / BRC1H71W / DTST-ONE-ADA-A
		Wireless		BRC4C82	BRC4C82
Outdoor unit				**RZQ30TBVJUB**	**RZQ36TBVJUB**
Casing/color				Ivory white	Ivory white
Dimensions	H × W × D		in. (mm)	52–15/16 × 35–7/16 × 12–5/8 (1,345 × 900 × 320)	52–15/16 × 35–7/16 × 12–5/8 (1,345 × 900 × 320)
Coil	Type			Cross fin coil	Cross fin coil
Compressor	Type			Hermetically sealed swing type	Hermetically sealed swing type
	Motor output		kW	3.5	3.5
Fan	Type			Propeller fan	Propeller fan
	Motor output		W	70 × 2	70 × 2
	Airflow rate		cfm (m³/min)	3,741 (106)	3,741 (106)
Weight			lbs (kg)	225 (102)	225 (102)
Piping connections		Liquid	in. (mm)	ϕ3/8 (ϕ9.5) (flare connection)	ϕ3/8 (ϕ9.5) (flare connection)
		Gas	in. (mm)	ϕ5/8 (ϕ15.9) (flare connection)	ϕ5/8 (ϕ15.9) (flare connection)
		Drain	in. (mm)	ϕ1 (ϕ26) (hole)	ϕ1 (ϕ26) (hole)
Safety devices				High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plug, Fuse	High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plug, Fuse
Capacity step			%	14-100	14-100
Refrigerant control				Electronic expansion valve	Electronic expansion valve
Ref. piping	Standard length		ft (m)	25 (7.6)	25 (7.6)
	Max. length		ft (m)	230 (70)	230 (70)
	Max. height difference		ft (m)	98 (30)	98 (30)
Refrigerant	Type			R410A	R410A
	Charge		lbs (kg)	7.9 (3.6)	7.9 (3.6)
Ref. oil	Type			DAPHNE FVC50K	DAPHNE FVC50K
	Charge		L	1.52	1.52

Note:

★1. Indoor temp.: 80°FDB (26.7°CDB), 67°FWB (19.4°CWB) / Outdoor temp.: 95°FDB (35.0°CDB) / Equivalent piping length: 25 ft. (7.6 m), height difference: 0 ft. (0 m).
★2. Indoor temp.: 70°FDB (21.1°CDB) / Outdoor temp.: 47°FDB (8.3°CDB), 43°FWB (6.1°CWB) / Equivalent piping length: 25 ft. (7.6 m), height difference: 0 ft. (0 m).
★3. Indoor temp.: 70°FDB (21.1°CDB) / Outdoor temp.: 17°FDB (−8.3°CDB), 15°FWB (−9.4°CWB) / Equivalent piping length: 25 ft. (7.6 m), height difference: 0 ft. (0 m).
★4. Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.
★5. Air filter is not standard accessory (field supply parts), but please mount it in the duct system of the suction side.

Air handling unit, continued

Model	Indoor unit	with factory disconnect		FTQ42TBVJUD	FTQ48TBVJUD
		without factory disconnect		FTQ42TBVJUA	FTQ48TBVJUA
	Outdoor unit			RZQ42TBVJUB	RZQ48TBVJUB
Power supply				1 phase, 208/230 V, 60 Hz	1 phase, 208/230 V, 60 Hz
Cooling capacity ★1, ★4			Btu/h (kW)	40,500 (11.9)	47,000 (13.8)
Heating capacity ★2, ★4			Btu/h (kW)	47,000 (13.8)	54,000 (15.8)
Heating capacity ★3, ★4			Btu/h (kW)	33,000 (9.7)	36,800 (10.8)
EER2 (rated)			Btu/h-W	10.6	9.1
SEER2 (rated)				16.0	15.3
HSPF2 (rated)				9.2	8.8
Indoor unit		**with factory disconnect**		**FTQ42TBVJUD**	**FTQ48TBVJUD**
		without factory disconnect		**FTQ42TBVJUA**	**FTQ48TBVJUA**
Casing/color				Daikin Slate Gray	Daikin Slate Gray
Dimensions	H × W × D		in. (mm)	53.43 × 21 × 21 (1,357 × 533 × 533)	53.43 × 21 × 21 (1,357 × 533 × 533)
Coil	Type			Cross fin coil	Cross fin coil
Fan	Type			Sirocco FC Centrifugal	Sirocco FC Centrifugal
	Motor output		HP	3/4	3/4
	Airflow rate (H / M / L)		cfm (m³/min)	1,400 / 1,190 / 980 (39.7 / 33.7 / 27.8)	1,520 / 1,290 / 1,060 (43.1 / 36.5 / 30.0)
	External static pressure		in. w.g.	0.1” - 0.9”	0.1” - 0.9”
Air filter				— ★5	— ★5
Weight			lbs (kg)	150 (68)	150 (68)
Piping connections		Liquid	in. (mm)	ϕ3/8 (ϕ9.5) (brazing connection)	ϕ3/8 (ϕ9.5) (brazing connection)
		Gas	in. (mm)	ϕ5/8 (ϕ15.9) (brazing connection)	ϕ5/8 (ϕ15.9) (brazing connection)
		Drain	in. (mm)	3/4” (19.1)	3/4” (19.1)
Remote controller (accessory)		Wired		BRC1E73 / BRC1H71W / DTST-ONE-ADA-A	BRC1E73 / BRC1H71W / DTST-ONE-ADA-A
		Wireless		BRC4C82	BRC4C82
Outdoor unit				**RZQ42TBVJUB**	**RZQ48TBVJUB**
Casing/color				Ivory white	Ivory white
Dimensions	H × W × D		in. (mm)	52–15/16 × 35–7/16 × 12–5/8 (1,345 × 900 × 320)	52–15/16 × 35–7/16 × 12–5/8 (1,345 × 900 × 320)
Coil	Type			Cross fin coil	Cross fin coil
Compressor	Type			Hermetically sealed swing type	Hermetically sealed swing type
	Motor output		kW	3.5	3.5
Fan	Type			Propeller fan	Propeller fan
	Motor output		W	70 × 2	70 × 2
	Airflow rate		cfm (m³/min)	3,741 (106)	3,741 (106)
Weight			lbs (kg)	225 (102)	225 (102)
Piping connections		Liquid	in. (mm)	ϕ3/8 (ϕ9.5) (flare connection)	ϕ3/8 (ϕ9.5) (flare connection)
		Gas	in. (mm)	ϕ5/8 (ϕ15.9) (flare connection)	ϕ5/8 (ϕ15.9) (flare connection)
		Drain	in. (mm)	ϕ1 (ϕ26) (hole)	ϕ1 (ϕ26) (hole)
Safety devices				High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plug, Fuse	High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plug, Fuse
Capacity step			%	14-100	14-100
Refrigerant control				Electronic expansion valve	Electronic expansion valve
Ref. piping	Standard length		ft (m)	25 (7.6)	25 (7.6)
	Max. length		ft (m)	230 (70)	230 (70)
	Max. height difference		ft (m)	98 (30)	98 (30)
Refrigerant	Type			R410A	R410A
	Charge		lbs (kg)	7.9 (3.6)	7.9 (3.6)
Ref. oil	Type			DAPHNE FVC50K	DAPHNE FVC50K
	Charge		L	1.52	1.52

Note:

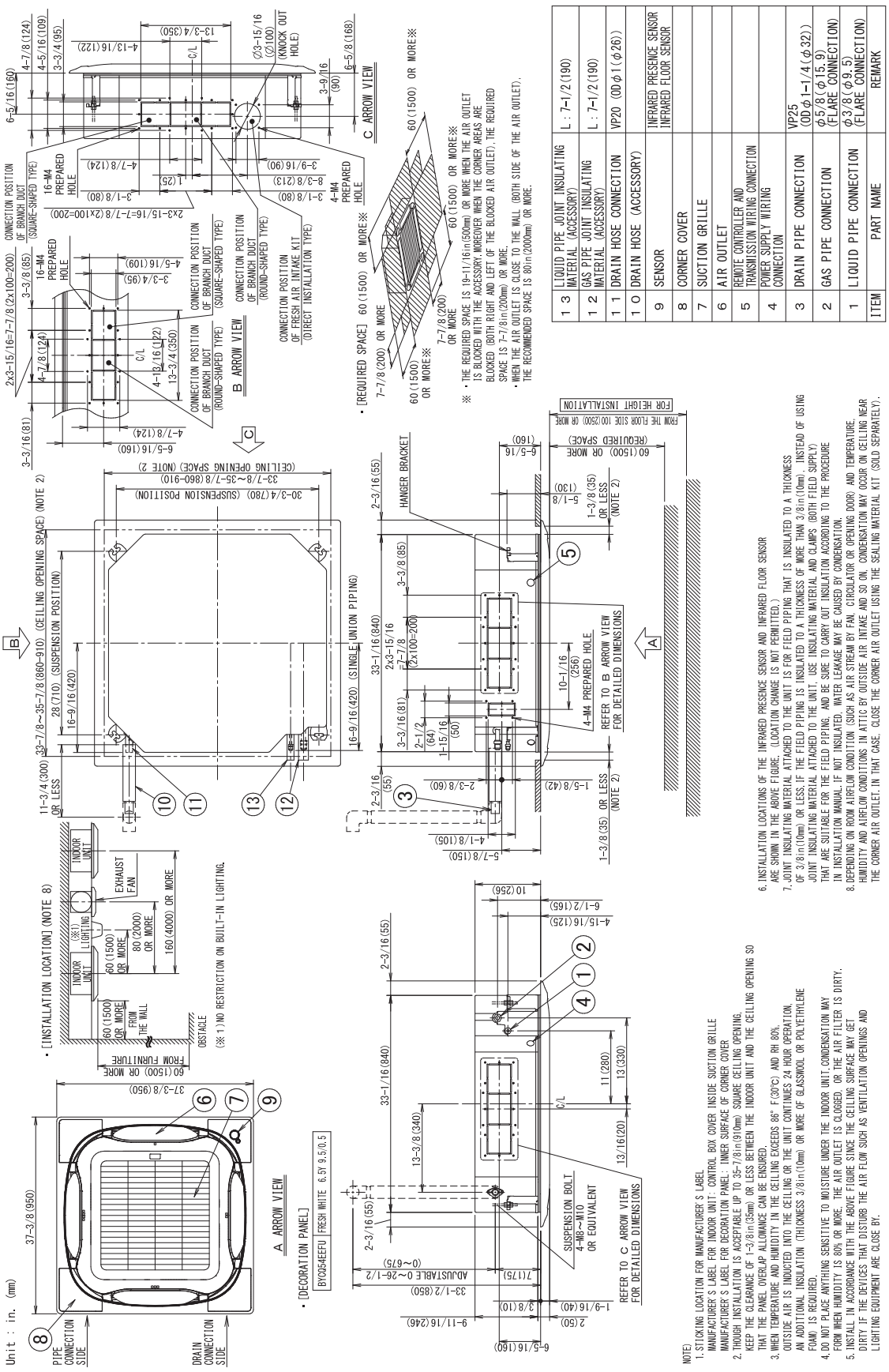
★1. Indoor temp.: 80°FDB (26.7°CDB), 67°FWB (19.4°CWB) / Outdoor temp.: 95°FDB (35.0°CDB) / Equivalent piping length: 25 ft. (7.6 m), height difference: 0 ft. (0 m).
★2. Indoor temp.: 70°FDB (21.1°CDB) / Outdoor temp.: 47°FDB (8.3°CDB), 43°FWB (6.1°CWB) / Equivalent piping length: 25 ft. (7.6 m), height difference: 0 ft. (0 m).
★3. Indoor temp.: 70°FDB (21.1°CDB) / Outdoor temp.: 17°FDB (−8.3°CDB), 15°FWB (−9.4°CWB) / Equivalent piping length: 25 ft. (7.6 m), height difference: 0 ft. (0 m).
★4. Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.
★5. Air filter is not standard accessory (field supply parts), but please mount it in the duct system of the suction side.

5. Dimensions

5.1 Indoor Unit

5.1.1 FCQ (with Standard Sensing Decoration Panel)

FCQ18 - 24AAVJU (with standard sensing decoration panel)

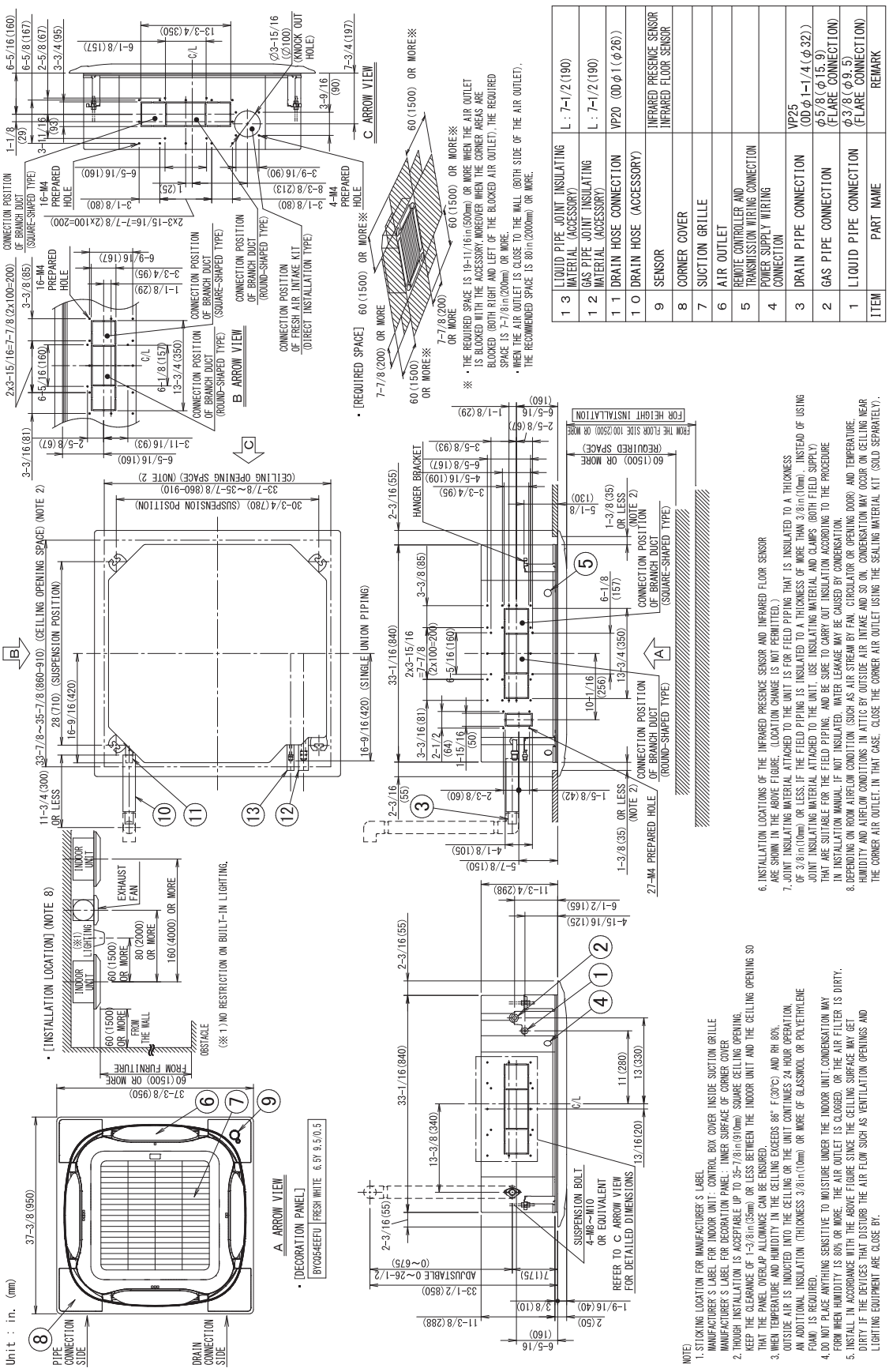


ITEM	PART NAME	REMARK
1	LIQUID PIPE CONNECTION	φ3/8 (φ9.5) (FLARE CONNECTION)
2	GAS PIPE CONNECTION	φ5/8 (φ15.9) (FLARE CONNECTION)
3	DRAIN PIPE CONNECTION	VP25 (OD φ1-1/4 (φ32))
4	POWER SUPPLY WIRING CONNECTION	
5	REMOTE CONTROLLER AND TRANSMISSION WIRING CONNECTION	
6	AIR OUTLET	
7	SUCTION GRILLE	
8	CORNER COVER	
9	SENSOR	INFRARED PRESENCE SENSOR INFRARED FLOOR SENSOR
10	DRAIN HOSE CONNECTION	VP20 (OD φ1 (φ26))
11	DRAIN HOSE (ACCESSORY)	
12	GAS PIPE JOINT INSULATING MATERIAL (ACCESSORY)	L : 7-1/2 (190)
13	LIQUID PIPE JOINT INSULATING MATERIAL (ACCESSORY)	L : 7-1/2 (190)

NOTE)
1. STICKING LOCATION FOR MANUFACTURER'S LABEL
   MANUFACTURER'S LABEL FOR INDOOR UNIT: CONTROL BOX COVER INSIDE SUCTION GRILLE
   MANUFACTURER'S LABEL FOR DECORATION PANEL: INNER SURFACE OF CORNER COVER
2. THOUGH INSTALLATION IS ACCEPTABLE UP TO 35-7/8in(910mm) SQUARE CEILING OPENING, KEEP THE CLEARANCE OF 1-3/8in(35mm) OR LESS BETWEEN THE INDOOR UNIT AND THE CEILING OPENING SO THAT THE PANEL OVERLAP ALLOWANCE CAN BE ENSURED.
3. WHEN TEMPERATURE AND HUMIDITY IN THE CEILING EXCEEDS 86°F(30°C) AND RH 80%, OUTSIDE AIR IS INDUCTED INTO THE CEILING OR THE UNIT CONTINUES 24 HOUR OPERATION, AN ADDITIONAL INSULATION (THICKNESS 3/8in(10mm) OR MORE OF GLASSWOOL OR POLYETHYLENE FOAM) IS REQUIRED.
4. DO NOT PLACE ANYTHING SENSITIVE TO MOISTURE UNDER THE INDOOR UNIT. CONDENSATION MAY FORM WHEN HUMIDITY IS 80% OR MORE, THE AIR OUTLET IS CLOGGED, OR THE AIR FILTER IS DIRTY.
5. INSTALL IN ACCORDANCE WITH THE ABOVE FIGURE SINCE THE CEILING SURFACE MAY GET DIRTY IF THE DEVICES THAT DISTURB THE AIR FLOW SUCH AS VENTILATION OPENINGS AND LIGHTING EQUIPMENT ARE CLOSE BY.
6. INSTALLATION LOCATIONS OF THE INFRARED PRESENCE SENSOR AND INFRARED FLOOR SENSOR ARE SHOWN IN THE ABOVE FIGURE. (LOCATION CHANGE IS NOT PERMITTED.)
7. JOINT INSULATING MATERIAL ATTACHED TO THE UNIT IS FOR FIELD PIPING THAT IS INSULATED TO A THICKNESS OF 3/8in(10mm) OR LESS. IF THE FIELD PIPING IS INSULATED TO A THICKNESS OF MORE THAN 3/8in(10mm), INSTEAD OF USING JOINT INSULATING MATERIAL ATTACHED TO THE UNIT, USE INSULATING MATERIAL AND CLAMPS (BOTH FIELD SUPPLY) THAT ARE SUITABLE FOR THE FIELD PIPING, AND BE SURE TO CARRY OUT INSULATION ACCORDING TO THE PROCEDURE IN INSTALLATION MANUAL. IF NOT INSULATED, WATER LEAKAGE MAY BE CAUSED BY CONDENSATION.
8. DEPENDING ON ROOM AIRFLOW CONDITION (SUCH AS AIR STREAM BY FAN, CIRCULATOR OR OPENING DOOR) AND TEMPERATURE, HUMIDITY AND AIRFLOW CONDITIONS IN ATTIC BY OUTSIDE AIR INTAKE AND SO ON, CONDENSATION MAY OCCUR ON CEILING NEAR THE CORNER AIR OUTLET. IN THAT CASE, CLOSE THE CORNER AIR OUTLET USING THE SEALING MATERIAL KIT (SOLD SEPARATELY).

3D141046A

FCQ30 - 48AAVJU (with standard sensing decoration panel)

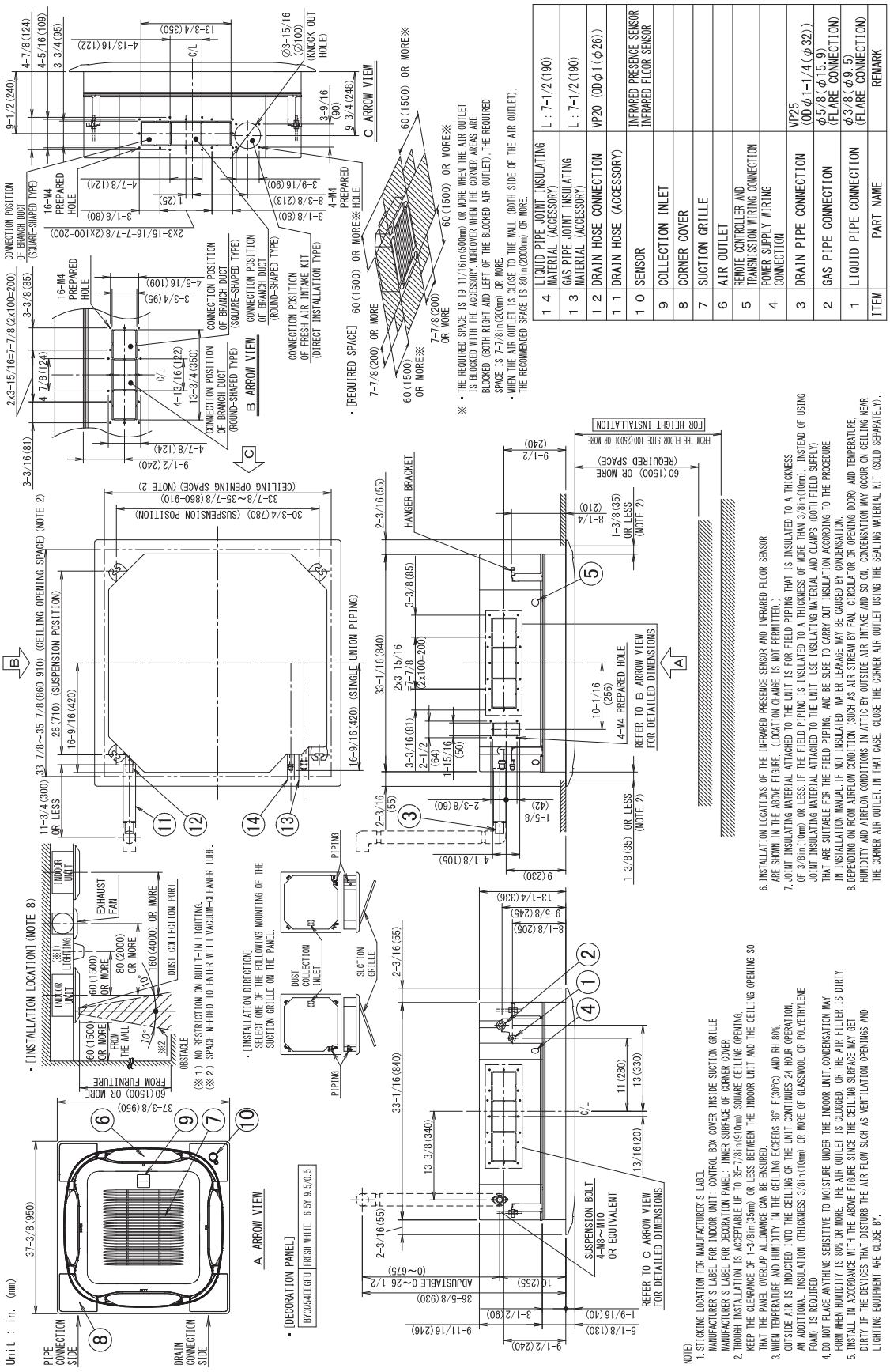


ITEM	PART NAME	REMARK
1	LIQUID PIPE CONNECTION	VP25 (ODϕ1-1/4(ϕ32)) (FLARE CONNECTION)
2	GAS PIPE CONNECTION	ϕ5/8(ϕ15.9) (FLARE CONNECTION)
3	DRAIN PIPE CONNECTION	VP20 (ODϕ1(ϕ26))
4	POWER SUPPLY WIRING CONNECTION	
5	REMOTE CONTROLLER AND TRANSMISSION WIRING CONNECTION	
6	AIR OUTLET	
7	SUCTION GRILLE	
8	CORNER COVER	
9	SENSOR	INFRARED PRESENCE SENSOR INFRARED FLOOR SENSOR
10	DRAIN HOSE (ACCESSORY)	
11	DRAIN HOSE CONNECTION	
12	GAS PIPE JOINT INSULATING MATERIAL (ACCESSORY)	L : 7-1/2 (190)
13	LIQUID PIPE JOINT INSULATING MATERIAL (ACCESSORY)	L : 7-1/2 (190)

3D141047A

5.1.2 FCQ (with Self-Cleaning Filter Panel)

FCQ18 - 24AAVJU (with self-cleaning filter panel)

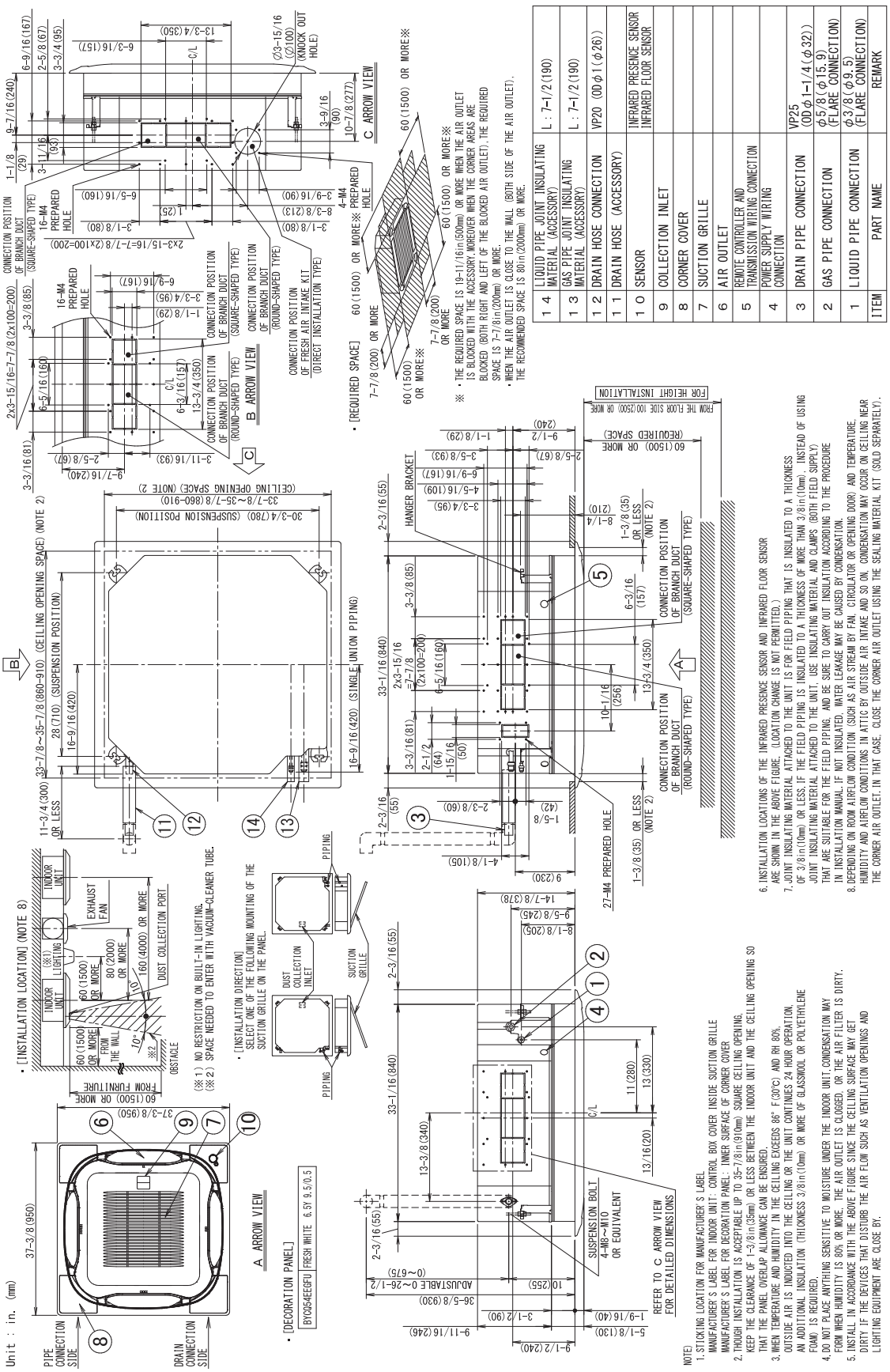


ITEM	PART NAME	REMARK
1	LIQUID PIPE CONNECTION	(FLARE CONNECTION) ϕ3/8 (ϕ9.5)
2	GAS PIPE CONNECTION	(FLARE CONNECTION) ϕ5/8 (ϕ15.9)
3	DRAIN PIPE CONNECTION	VP25 (OD ϕ1-1/4 (ϕ32))
4	POWER SUPPLY WIRING CONNECTION	
5	REMOTE CONTROLLER AND TRANSMISSION WIRING CONNECTION	
6	AIR OUTLET	
7	SUCTION GRILLE	
8	CORNER COVER	
9	COLLECTION INLET	
10	SENSOR	INFRARED PRESENCE SENSOR INFRARED FLOOR SENSOR
11	DRAIN HOSE (ACCESSORY)	
12	DRAIN HOSE CONNECTION	VP20 (OD ϕ1 (ϕ26))
13	GAS PIPE JOINT INSULATING MATERIAL (ACCESSORY)	L: 7-1/2 (190)
14	LIQUID PIPE JOINT INSULATING MATERIAL (ACCESSORY)	L: 7-1/2 (190)

※ • THE REQUIRED SPACE IS 19-11/16in (500mm) OR MORE WHEN THE AIR OUTLET IS BLOCKED WITH THE ACCESSORY. MOREOVER WHEN THE CORNER AREAS ARE BLOCKED (BOTH RIGHT AND LEFT OF THE BLOCKED AIR OUTLET), THE REQUIRED SPACE IS 7-7/8in (200mm) OR MORE.
• WHEN THE AIR OUTLET IS CLOSE TO THE WALL (BOTH SIDE OF THE AIR OUTLET), THE RECOMMENDED SPACE IS 80in (2000mm) OR MORE.

3D141049A

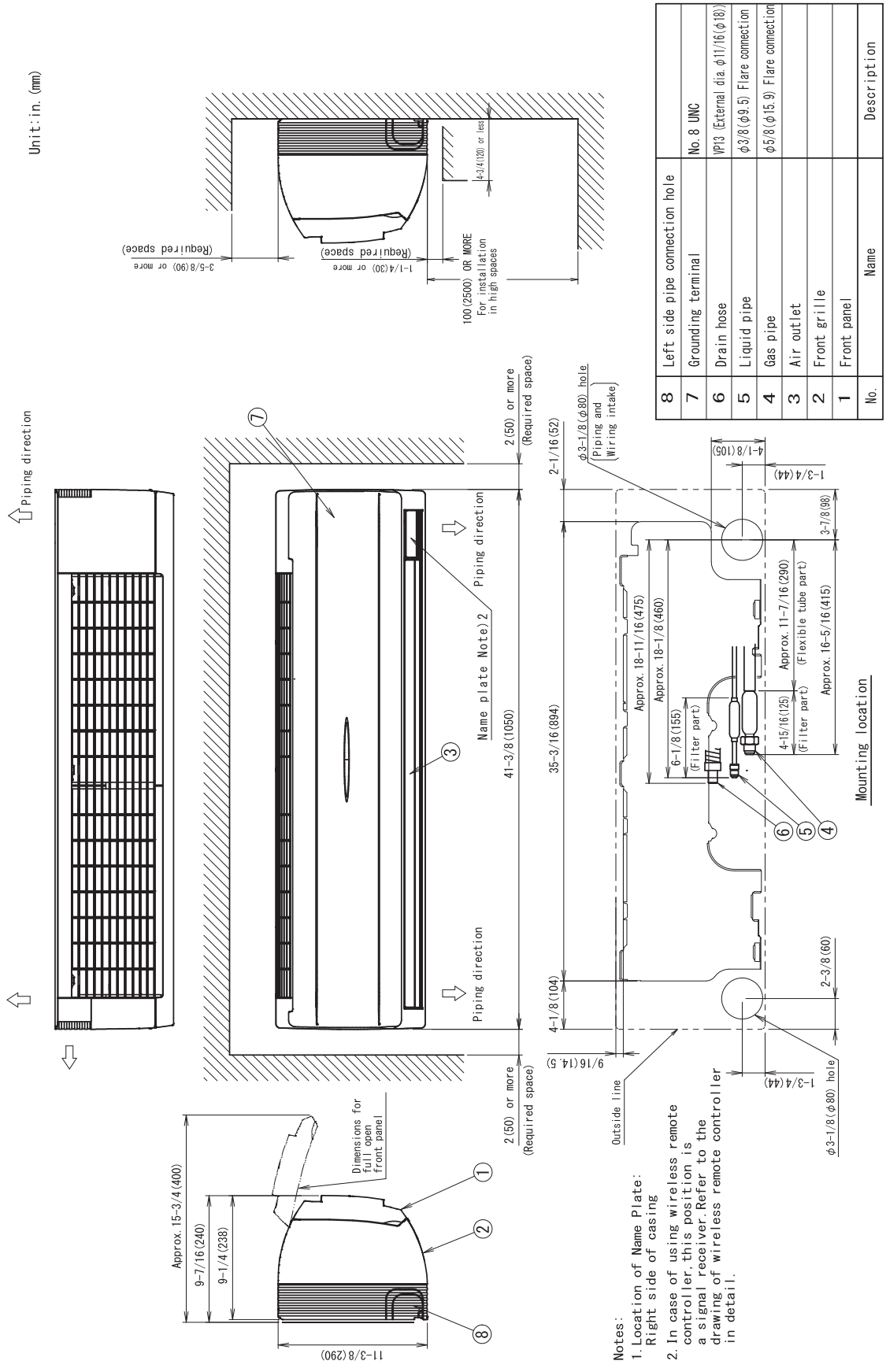
FCQ30 - 48AAVJU (with self-cleaning filter panel)



ITEM	PART NAME	REMARK
14	LIQUID PIPE JOINT INSULATING MATERIAL (ACCESSORY)	L : 7-1/2 (190)
13	GAS PIPE JOINT INSULATING MATERIAL (ACCESSORY)	L : 7-1/2 (190)
12	DRAIN HOSE CONNECTION	VP20 (OD ϕ1 (ϕ26))
11	DRAIN HOSE (ACCESSORY)	
10	SENSOR	INFRARED PRESENCE SENSOR INFRARED FLOOR SENSOR
9	COLLECTION INLET	
8	CORNER COVER	
7	SUCTION GRILLE	
6	AIR OUTLET	
5	REMOTE CONTROLLER AND TRANSMISSION WIRING CONNECTION	
4	POWER SUPPLY WIRING CONNECTION	
3	DRAIN PIPE CONNECTION	VP25 (OD ϕ1-1/4 (ϕ32))
2	GAS PIPE CONNECTION	ϕ5/8 (ϕ15.9) (FLARE CONNECTION)
1	LIQUID PIPE CONNECTION	ϕ3/8 (ϕ9.5) (FLARE CONNECTION)

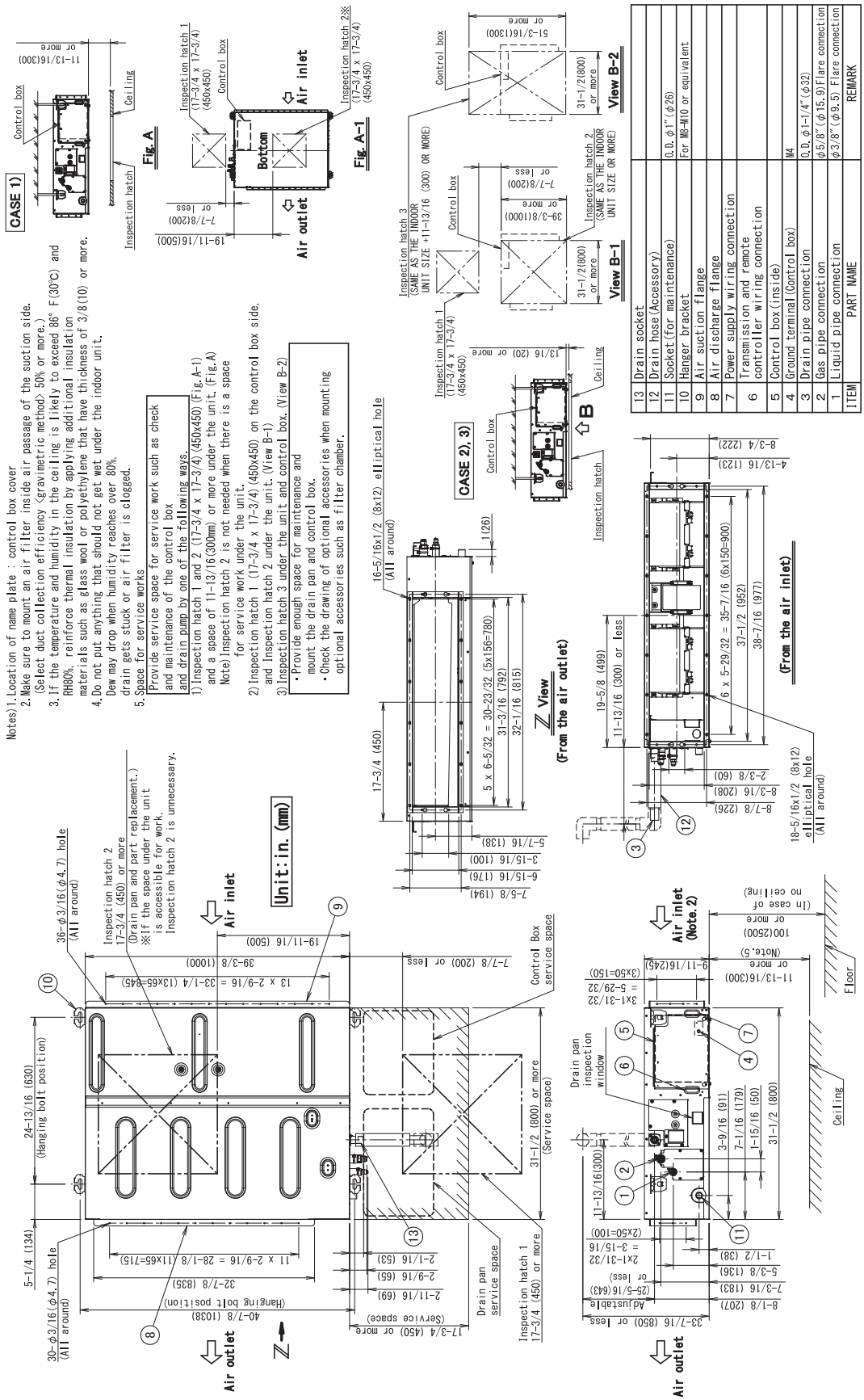
3D141050A

5.1.3 FAQ
FAQ18 - 24TAVJU



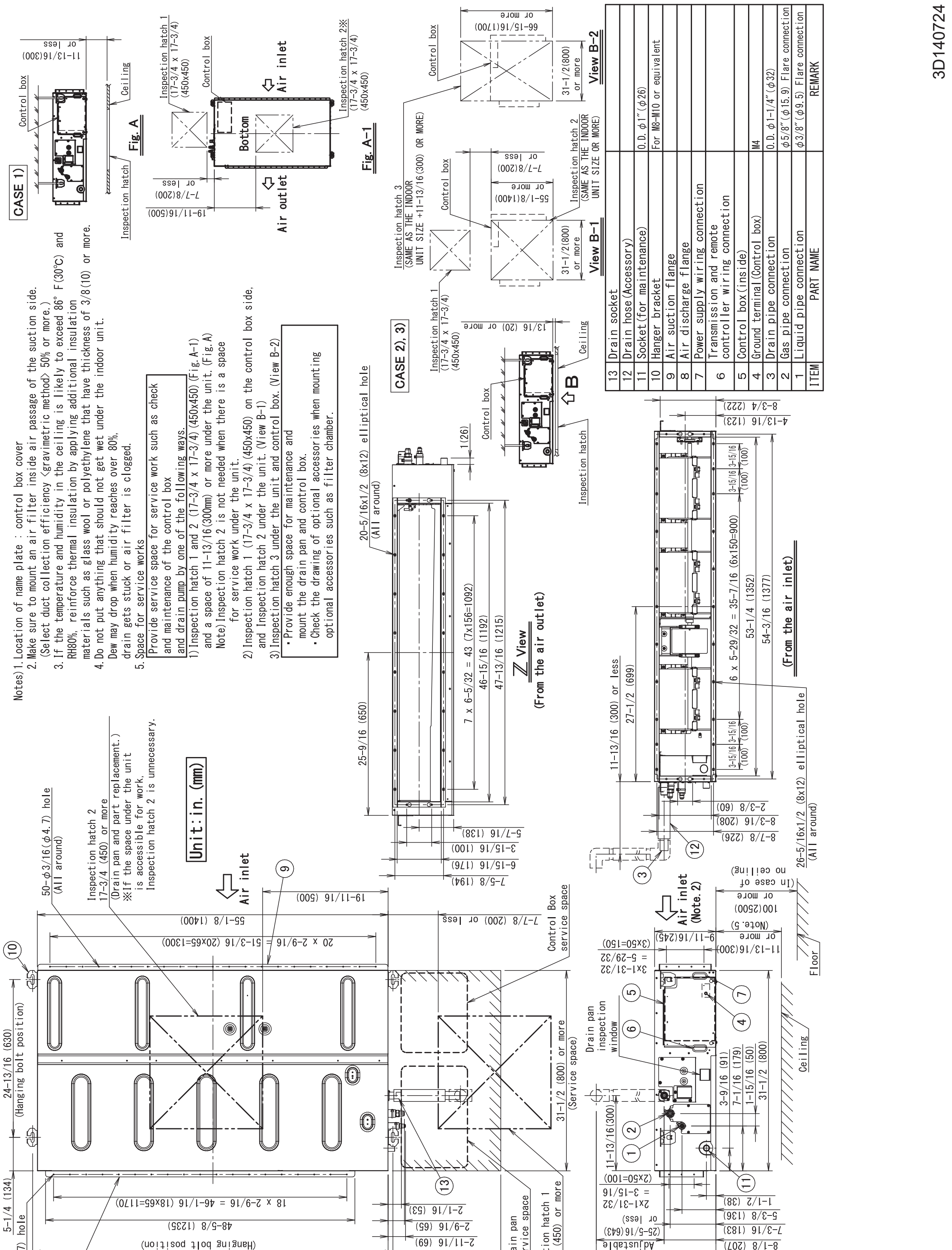
No.	Name	Description
8	Left side pipe connection hole	
7	Grounding terminal	No.8 UNC
6	Drain hose	VP13 (External dia.φ11/16(φ18))
5	Liquid pipe	φ3/8(φ9.5) Flare connection
4	Gas pipe	φ5/8(φ15.9) Flare connection
3	Air outlet	
2	Front grille	
1	Front panel	

5.1.4 FBQ
FBQ18 - 24TBVJU



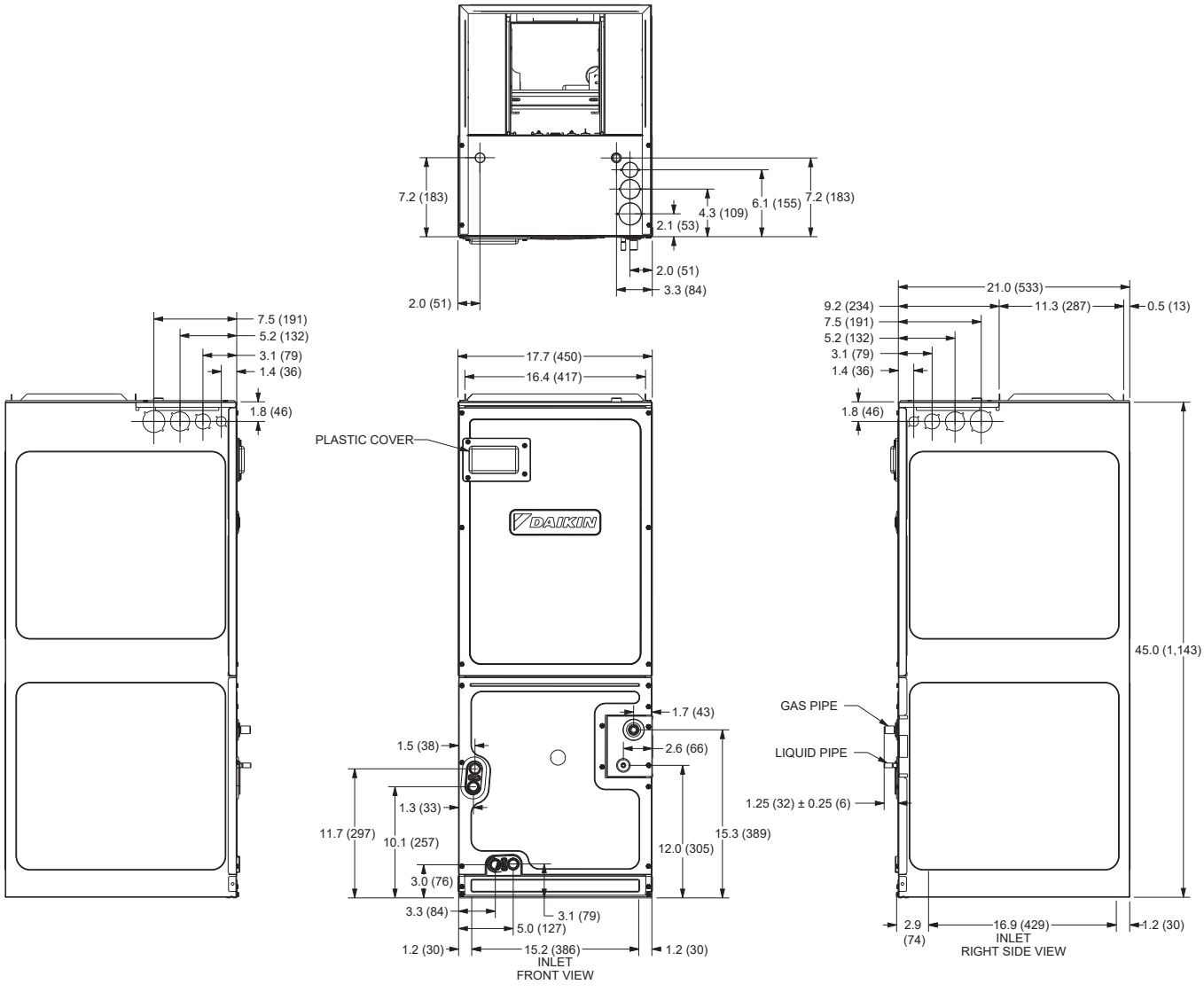
3D140723

FBQ30 - 48TBVJU



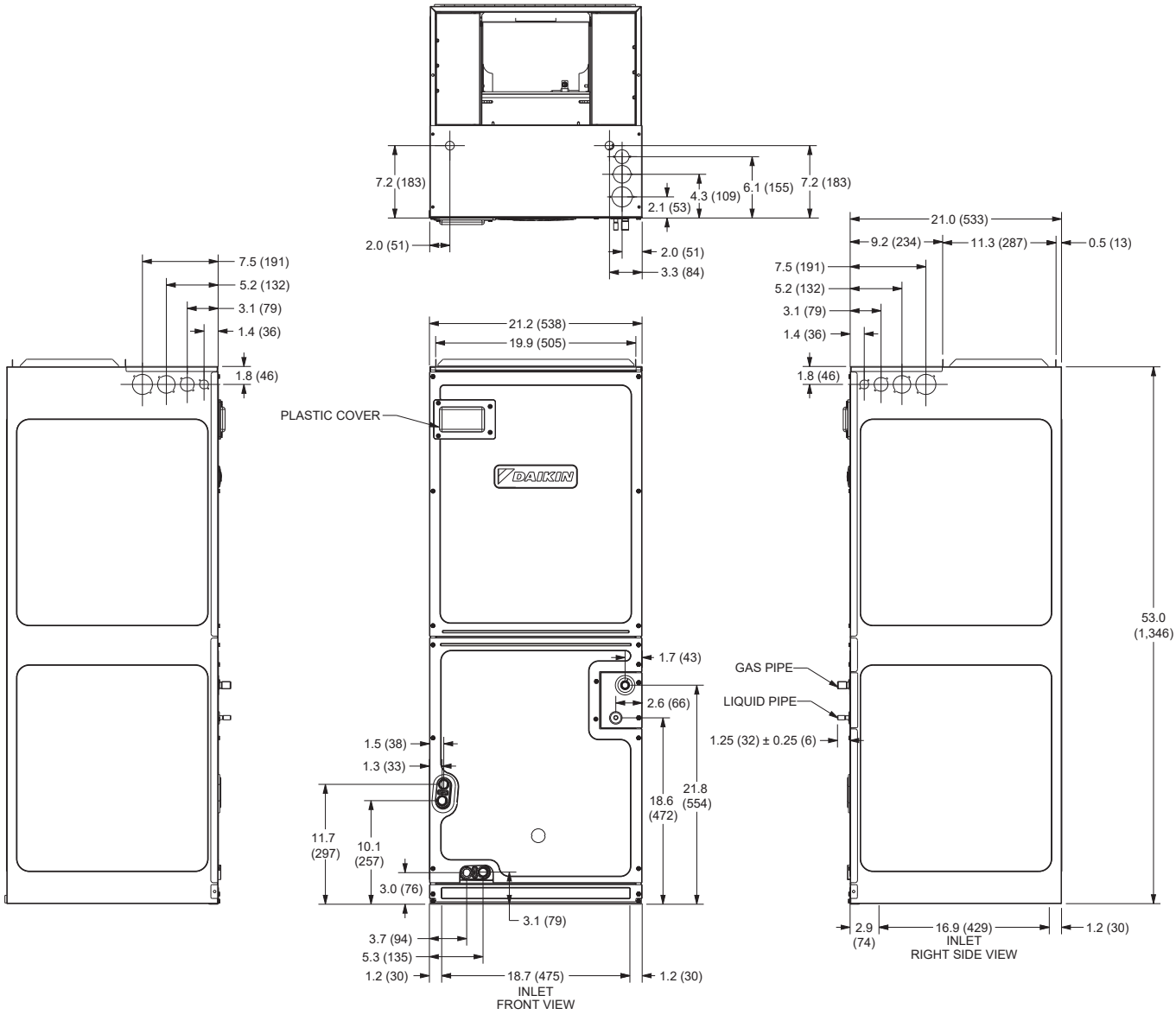
5.1.5 FTQ
FTQ18 - 36TBVJUD
FTQ18 - 36TBVJUA

Unit : in. (mm)



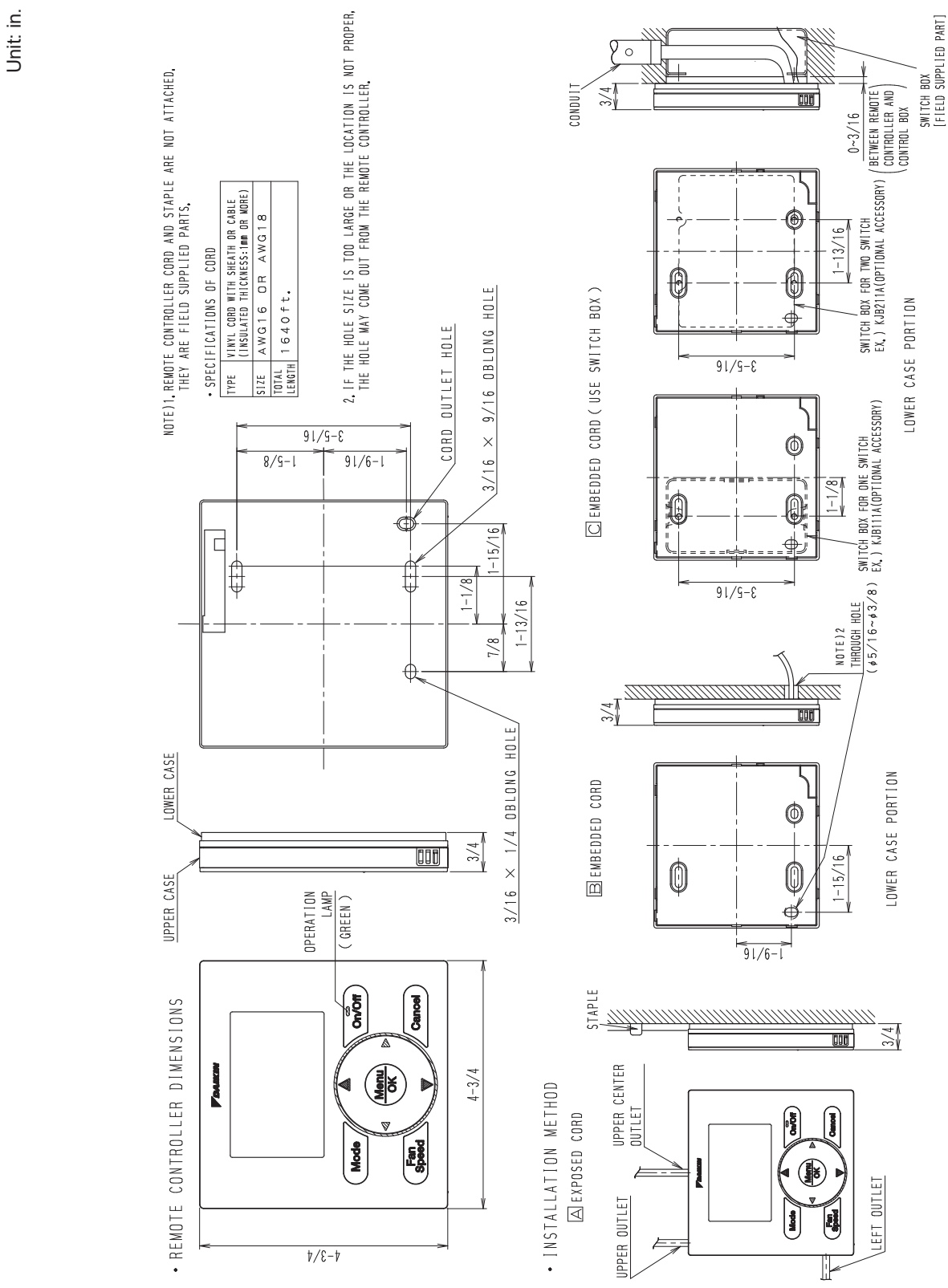
FTQ42 - 48TBVJUD
FTQ42 - 48TBVJUA

Unit : in. (mm)

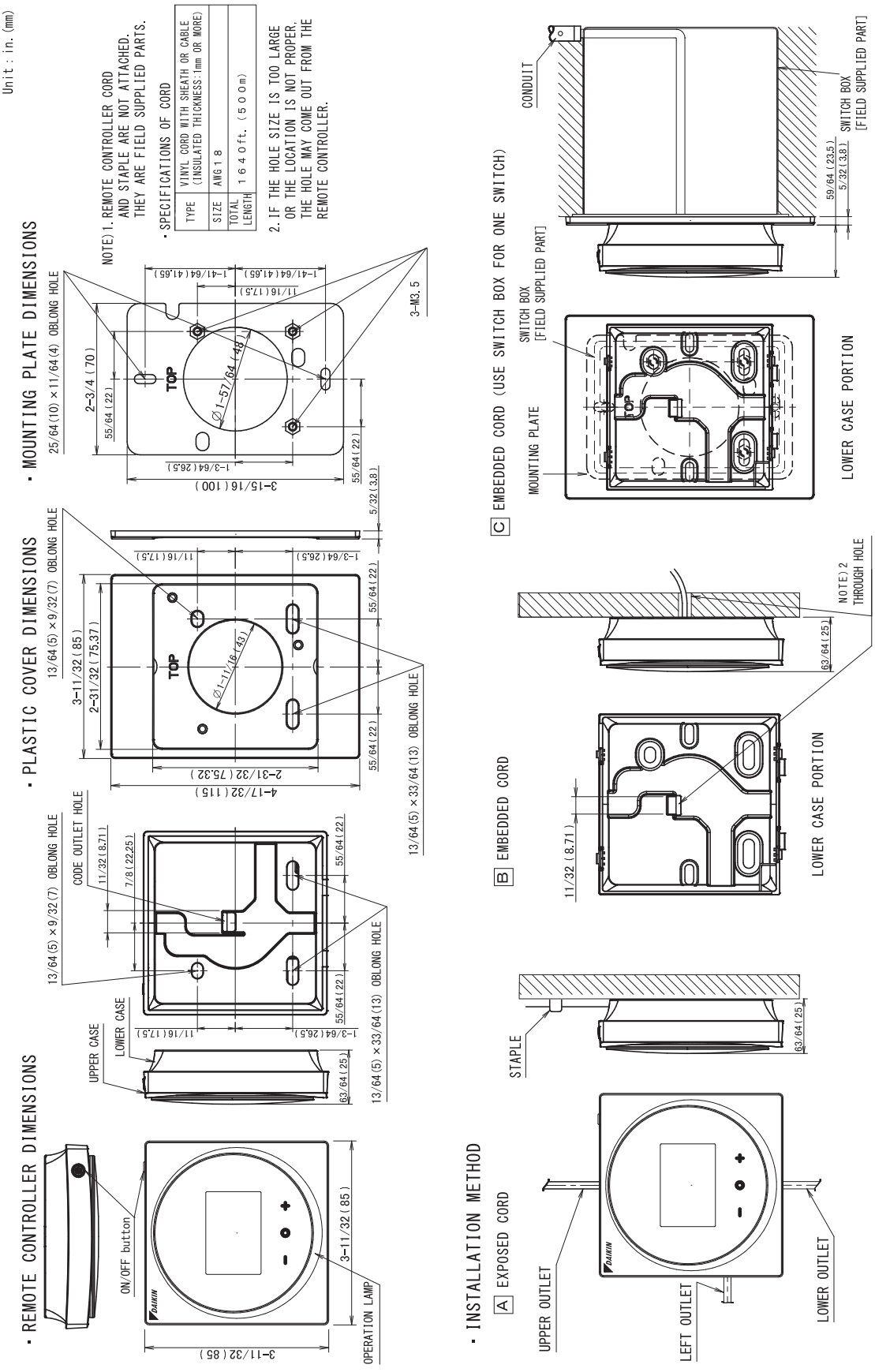


5.2 Wired Remote Controller (Accessory)

BRC1E73



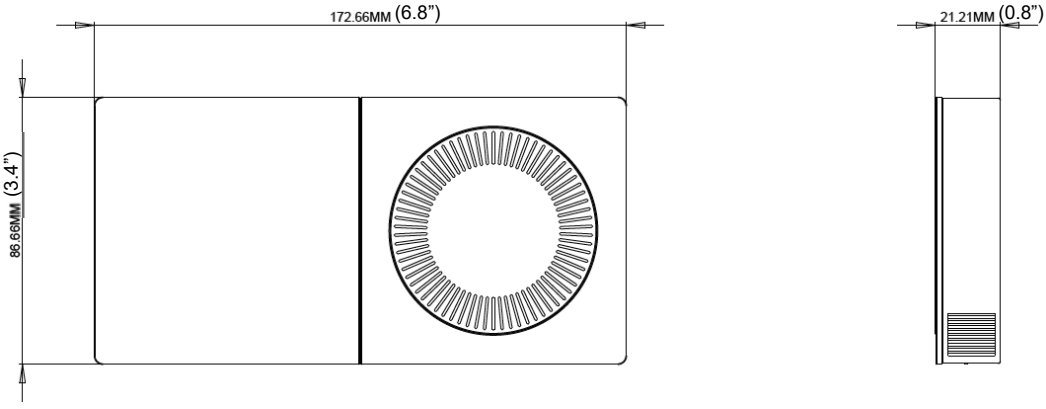
BRC1H71W



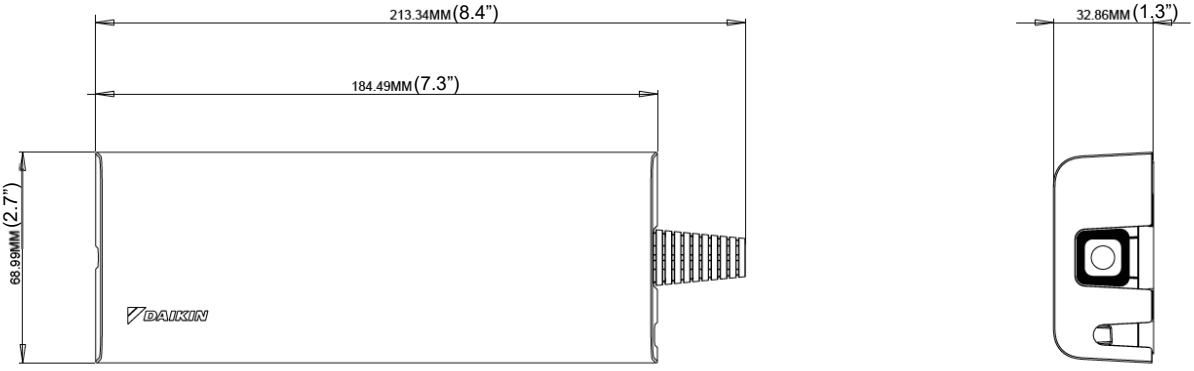
3D132534

DTST-ONE-ADA-A

- Thermostat:



- Translation Adaptor:



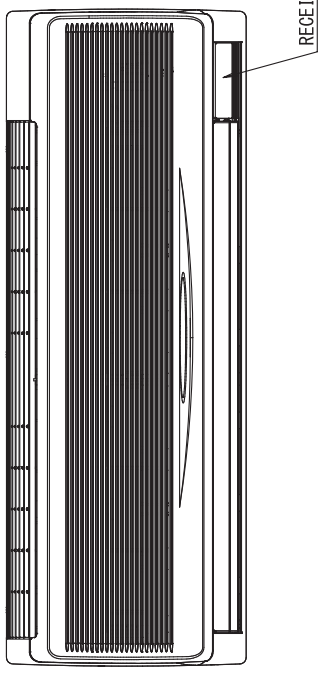
5.3 Wireless Remote Controller (Accessory)

BRC7E818 (for FAQ)

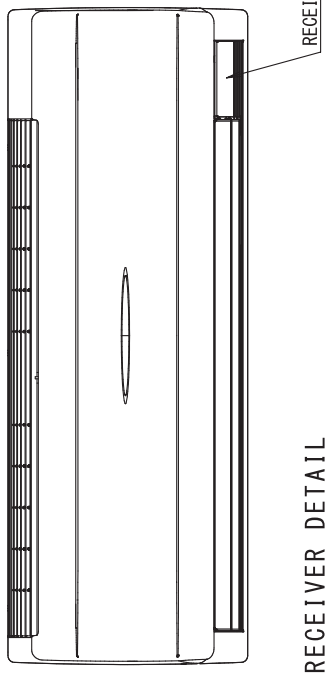
Unit: in.

・RECEIVER INSTALLATION PROCEDURE

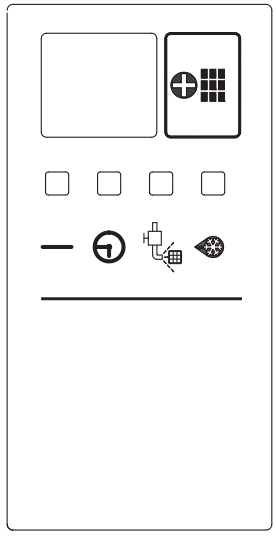
<MVJU Type>



<PVJU・TAVJU Type>

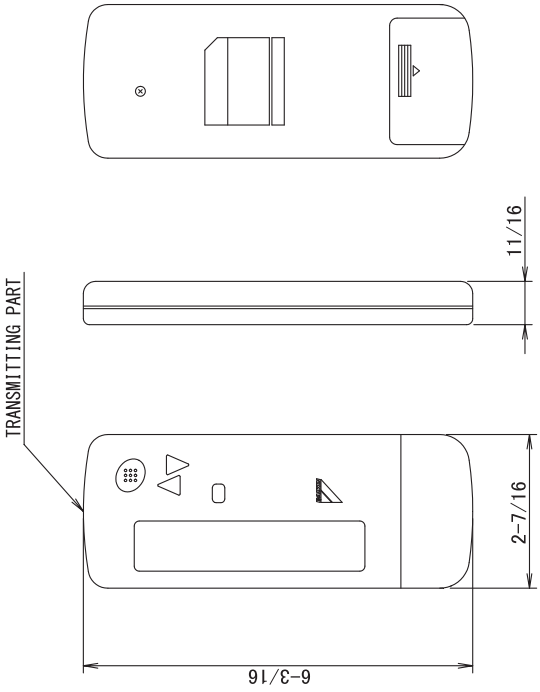


・RECEIVER DETAIL



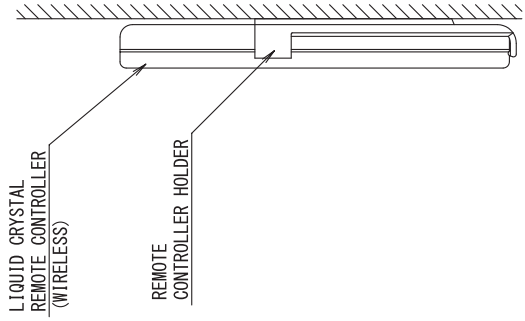
3D049736B

・REMOTE CONTROLLER DIMENSIONS



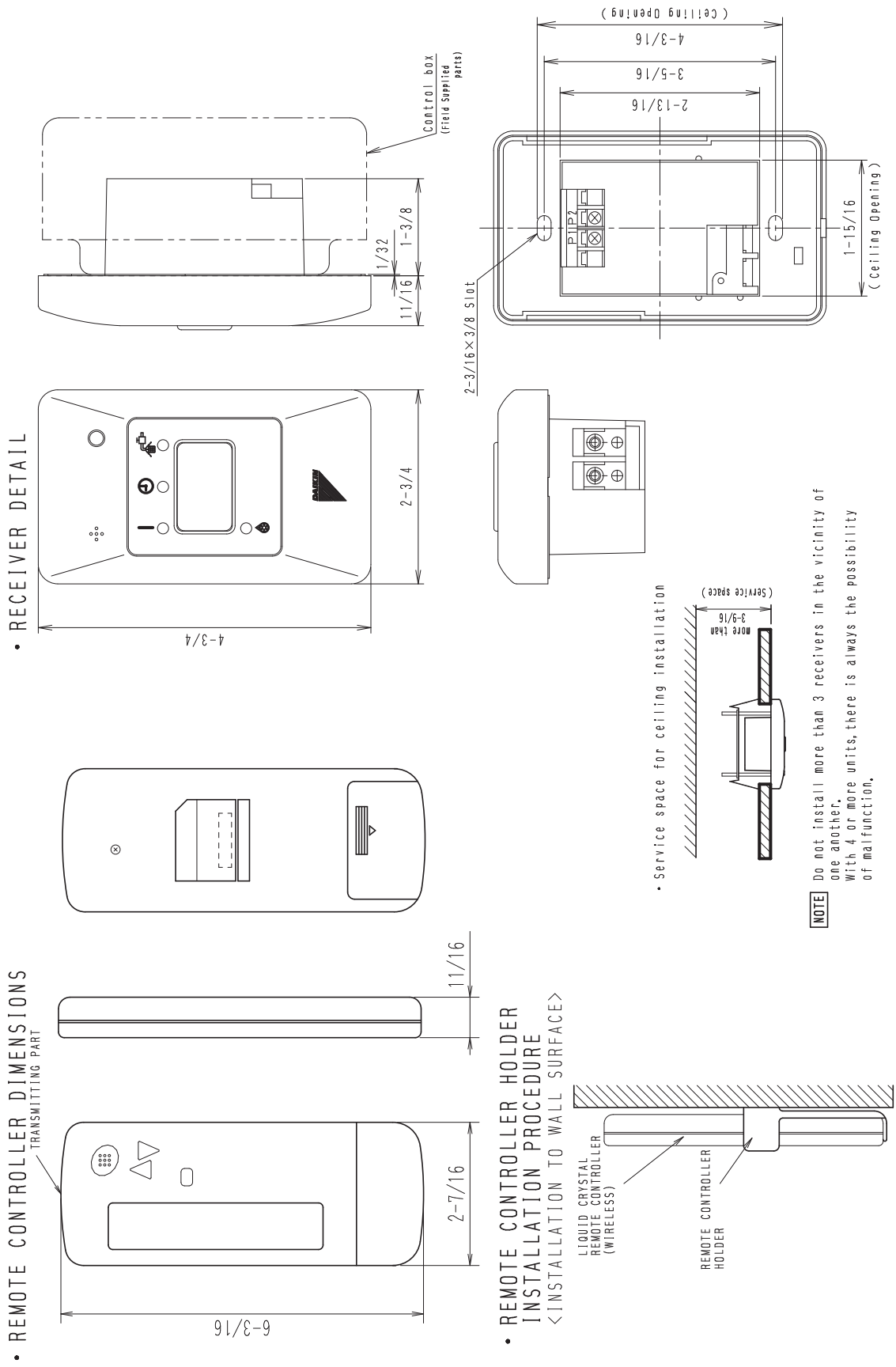
・REMOTE CONTROLLER HOLDER INSTALLATION PROCEDURE

<INSTALLATION TO WALL SURFACE>



BRC4C82
BRC082A43

Unit: in.



3D049611A

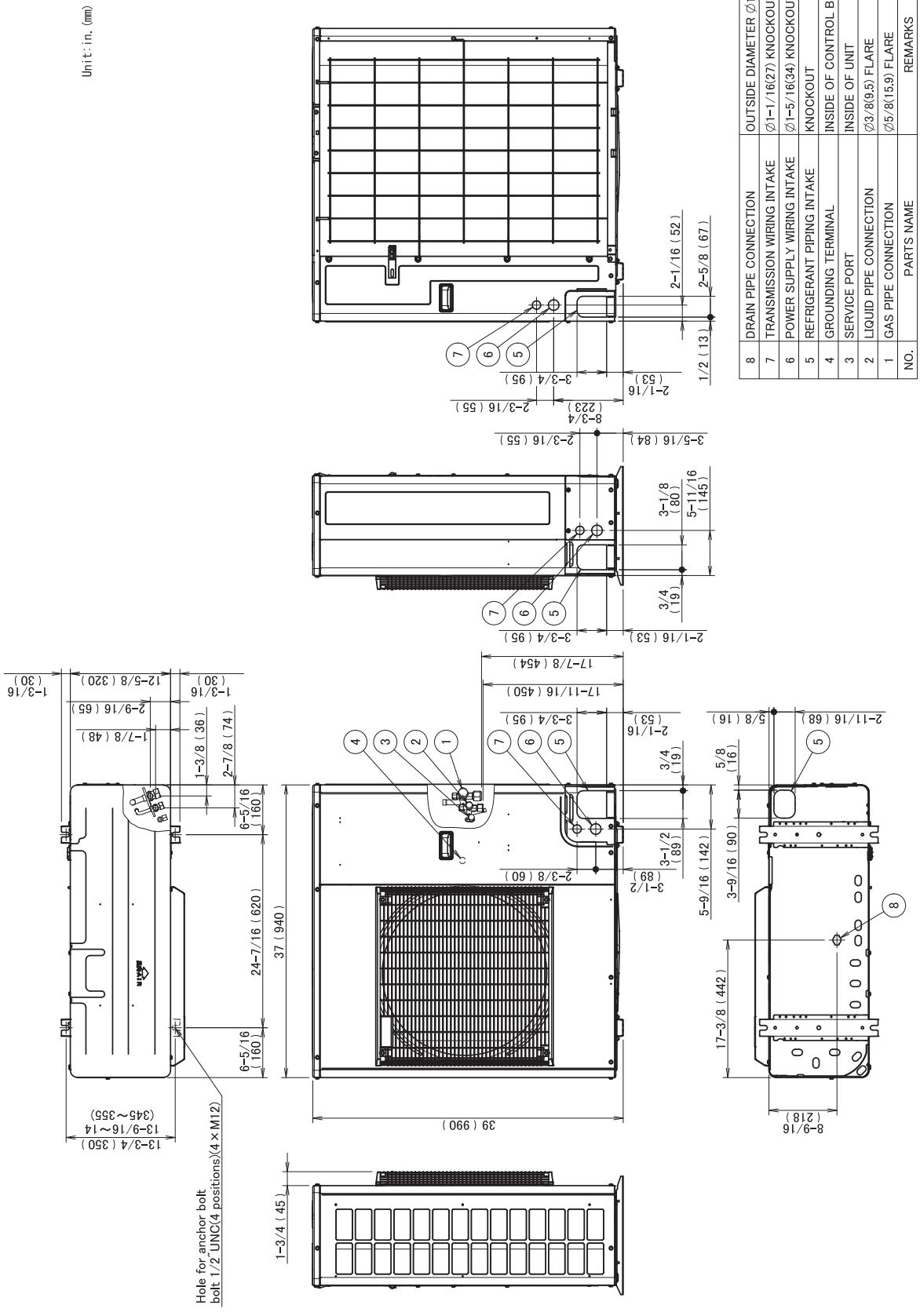
5.4 Outdoor Unit

RZR18 - 24TBVJUB
RZQ18 - 24TBVJUB

3D147642

Unit: in. (mm)

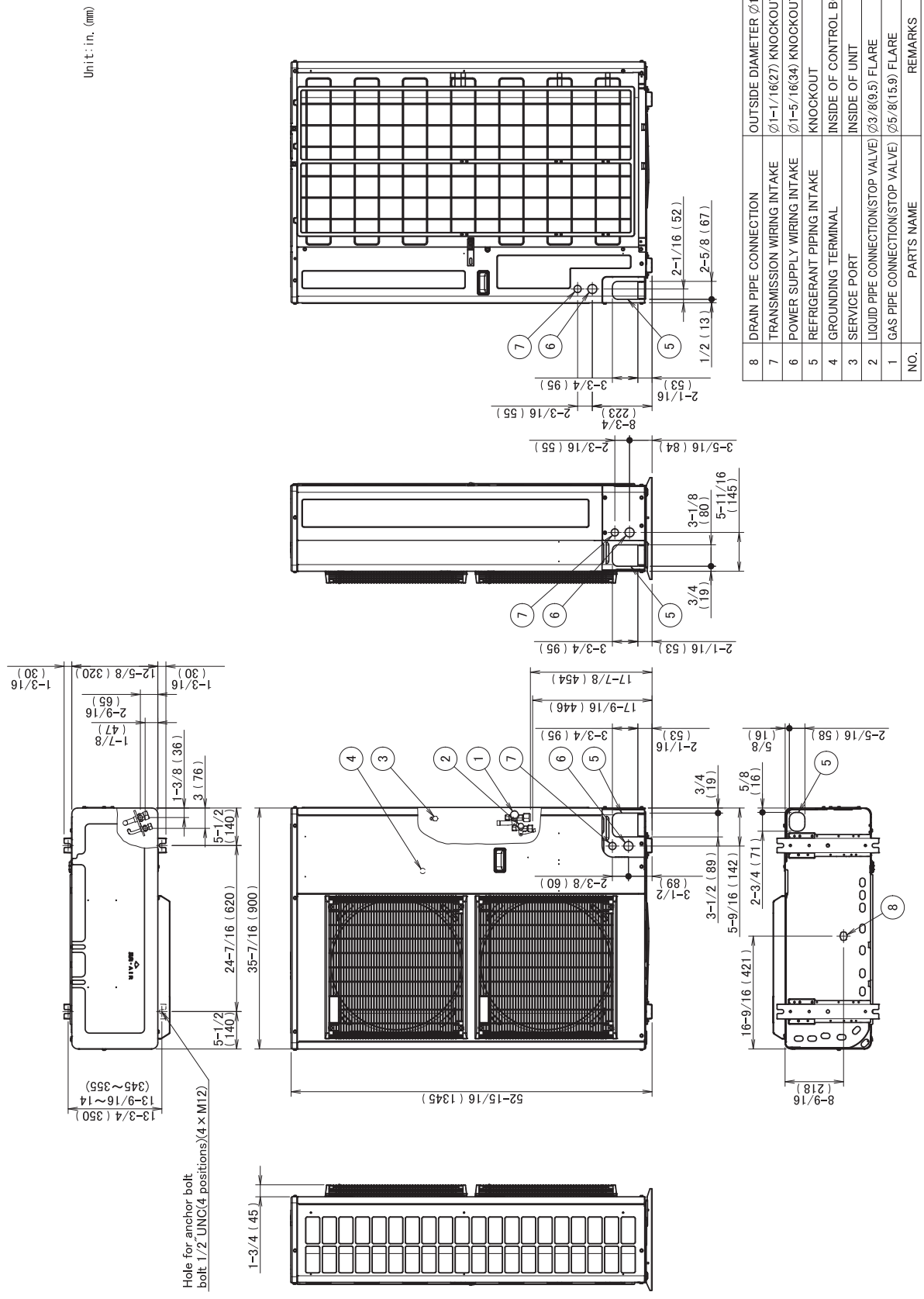
NO.	PARTS NAME	REMARKS
8	DRAIN PIPE CONNECTION	OUTSIDE DIAMETER Ø1(26)
7	TRANSMISSION WIRING INTAKE	Ø1-1/16(27) KNOCKOUT
6	POWER SUPPLY WIRING INTAKE	Ø1-5/16(34) KNOCKOUT
5	REFRIGERANT PIPING INTAKE	KNOCKOUT
4	GROUNDING TERMINAL	INSIDE OF CONTROL BOX(M5)
3	SERVICE PORT	INSIDE OF UNIT
2	LIQUID PIPE CONNECTION	Ø3/8(9.5) FLARE
1	GAS PIPE CONNECTION	Ø5/8(15.9) FLARE



RZR30 - 48TBVJUB
RZQ30 - 48TBVJUB

3D147643

Unit: in. (mm)



NO.	PARTS NAME	REMARKS
8	DRAIN PIPE CONNECTION	OUTSIDE DIAMETER Ø1(26)
7	TRANSMISSION WIRING INTAKE	Ø1-1/16(27) KNOCKOUT
6	POWER SUPPLY WIRING INTAKE	Ø1-5/16(34) KNOCKOUT
5	REFRIGERANT PIPING INTAKE	KNOCKOUT
4	GROUNDING TERMINAL	INSIDE OF CONTROL BOX(M5)
3	SERVICE PORT	INSIDE OF UNIT
2	LIQUID PIPE CONNECTION(STOP VALVE)	Ø3/8(9.5) FLARE
1	GAS PIPE CONNECTION(STOP VALVE)	Ø5/8(15.9) FLARE

6. Installation Service Space

RZR18 - 24TBVJUB
RZQ18 - 24TBVJUB

REQUIRED INSTALLATION SPACE

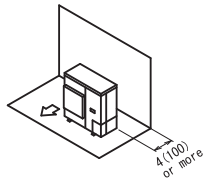
The unit of the values is in.(mm).

1. Where there is an obstacle on the suction side:

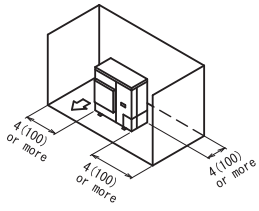
(a) No obstacle above

(1) Stand-alone installation

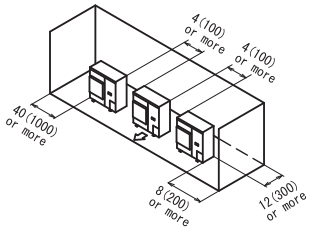
・Obstacle on the suction side only



・Obstacle on both sides



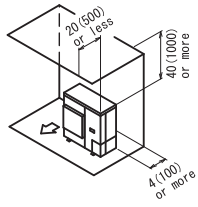
(2) Series installation
(2 or more)
・Obstacle on both sides



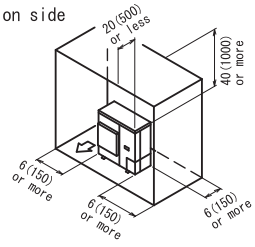
(b) Obstacle above, too

(1) Stand-alone installation

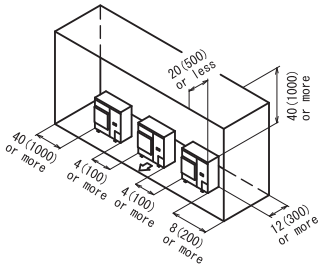
・Obstacle on the suction side, too



・Obstacle on the suction side and both sides



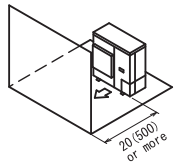
(2) Series installation
(2 or more)
・Obstacle on the suction side and both sides



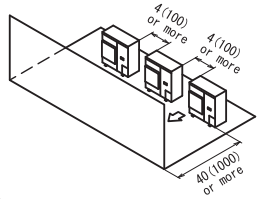
2. Where there is an obstacle on the discharge side:

(a) No obstacle above

(1) Stand-alone installation

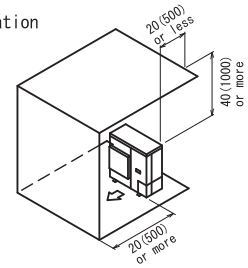


(2) Series installation
(2 or more)

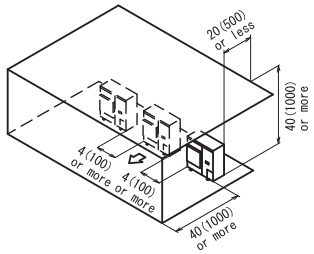


(b) Obstacle above, too

(1) Stand-alone installation



(2) Series installation
(2 or more)



3. Where there are obstacles on both suction and discharge sides:

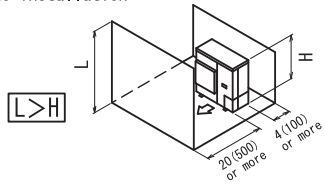
Pattern 1

Where the obstacles on the discharge side is higher than the unit:

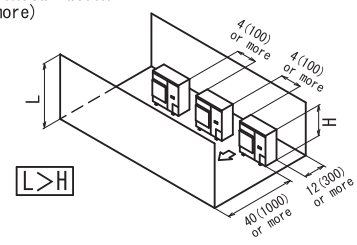
(There is no height limit for obstructions on the intake side.)

(a) No obstacle above

(1) Stand-alone installation



(2) Series installation
(2 or more)



3D148253

RZR18 - 24TBVJUB, continued
RZQ18 - 24TBVJUB, continued

Unit: in. (mm)

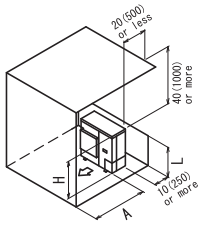
(b) Obstacle above, too

(1) Stand-alone installation

The relations between H, A and L are as follows:

	L	A
L≦H	0<L≦1/2H	30 (750)
	1/2H<L≦H	40 (1000)
H<L	Set the stand as:	L≦H

Close the bottom of the installation frame to prevent the discharge air from being bypassed.



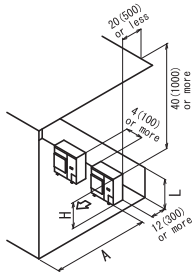
(2) Series installation
(up to two units)

The relations between H, A and L are as follows:

	L	A
L≦H	0<L≦1/2H	40 (1000)
	1/2H<L≦H	50 (1250)
H<L	Set the stand as:	L≦H

Close the bottom of the installation frame to prevent the discharge air from being bypassed.

Only two units can be installed for this series.



Pattern 2

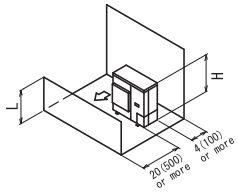
Where the obstacles on the discharge side is lower than the unit:

(There is no height limit for obstructions on the intake side.)

(a) No obstacle above

(1) Stand-alone installation

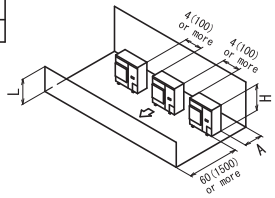
L≦H



(2) Series installation
(2 or more)

The relations between H, A and L are as follows:

L	A
0<L≦1/2H	10 (250)
1/2H<L≦H	12 (300)



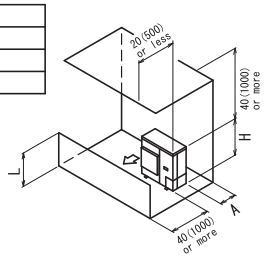
(b) Obstacle above, too

(1) Stand-alone installation

The relations between H, A and L are as follows:

	L	A
L≦H	0<L≦1/2H	4 (100)
	1/2H<L≦H	8 (200)
H<L	Set the stand as:	L≦H

Close the bottom of the installation frame to prevent the discharge air from being bypassed.



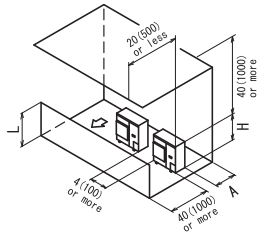
(2) Series installation
(up to two units)

The relations between H, A and L are as follows:

	L	A
L≦H	0<L≦1/2H	10 (250)
	1/2H<L≦H	12 (300)
H<L	Set the stand as:	L≦H

Close the bottom of the installation frame to prevent the discharge air from being bypassed.

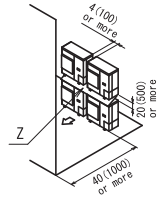
Only two units can be installed for this series.



4. Double-decker installation

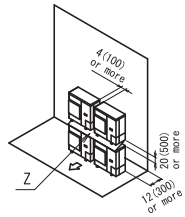
(a) Obstacle on the discharge side

- No more than two units should be stacked.
- If there is a danger of water from the drain falling on the lower outdoor unit and freezing, install a roof (field supply).
- To prevent the formation and growth of ice in the bottom frame of the 2nd level outdoor unit, install the outdoor unit so that the bottom frame will be sufficiently higher than the roof. (It is recommended to leave 20 in. (500 mm) or more)
- Shut off the Z part (the area between the upper outdoor unit and the lower outdoor unit) so that outlet air does not bypass.



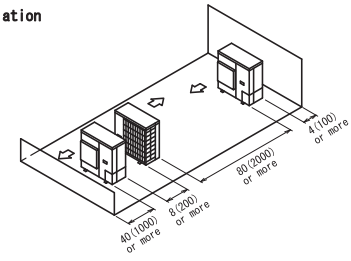
(b) Obstacle on the suction side

- No more than two units should be stacked.
- If there is a danger of water from the drain falling on the lower outdoor unit and freezing, install a roof (field supply).
- To prevent the formation and growth of ice in the bottom frame of the 2nd level outdoor unit, install the outdoor unit so that the bottom frame will be sufficiently higher than the roof. (It is recommended to leave 20 in. (500 mm) or more)
- Shut off the Z part (the area between the upper outdoor unit and the lower outdoor unit) so that outlet air does not bypass.



5. Multiple rows of series installation (on the rooftop, etc.)

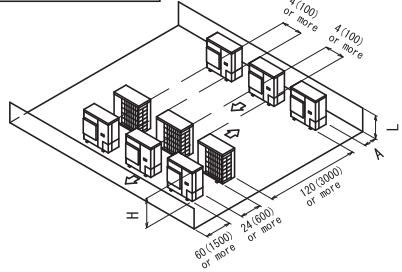
(a) Stand-alone installation



(b) Series installation (2 or more)

The relations between H, A and L are as follows:

	L	A
L≦H	0<L≦1/2H	10 (250)
	1/2H<L≦H	12 (300)
H<L	Cannot be installed	



3D148253

RZR30 - 48TBVJUB
RZQ30 - 48TBVJUB

REQUIRED INSTALLATION SPACE

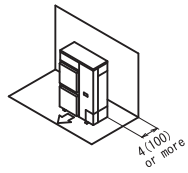
The unit of the values is in.(mm).

1. Where there is an obstacle on the suction side:

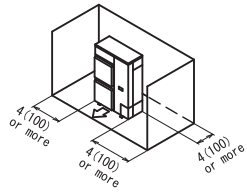
(a) No obstacle above

(1) Stand-alone installation

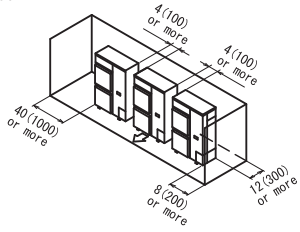
・Obstacle on the suction side only



・Obstacle on both sides



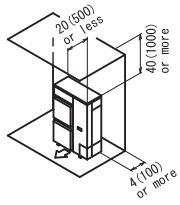
(2) Series installation
(2 or more)
・Obstacle on both sides



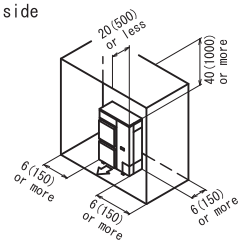
(b) Obstacle above, too

(1) Stand-alone installation

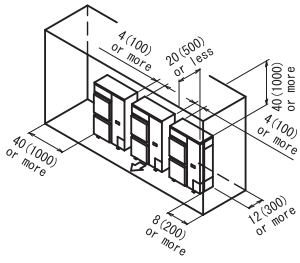
・Obstacle on the suction side, too



・Obstacle on the suction side and both sides



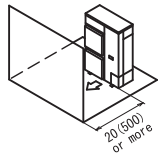
(2) Series installation
(2 or more)
・Obstacle on the suction side and both sides



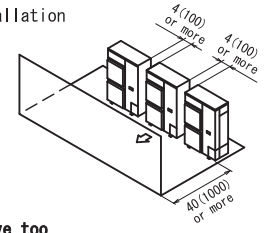
2. Where there is an obstacle on the discharge side:

(a) No obstacle above

(1) Stand-alone installation

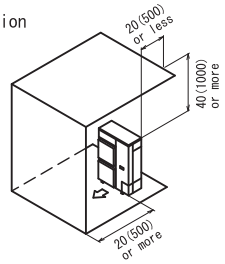


(2) Series installation
(2 or more)

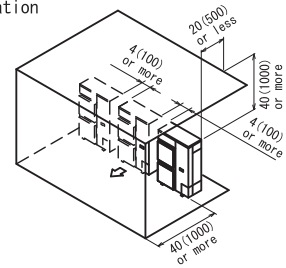


(b) Obstacle above, too

(1) Stand-alone installation



(2) Series installation
(2 or more)



3. Where there are obstacles on both suction and discharge sides:

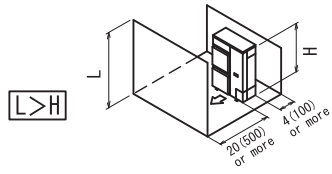
Pattern 1

Where the obstacles on the discharge side is higher than the unit:

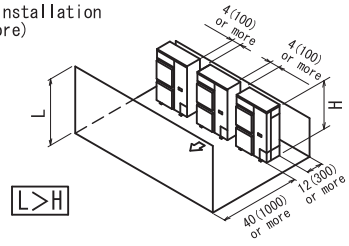
(There is no height limit for obstructions on the intake side.)

(a) No obstacle above

(1) Stand-alone installation



(2) Series installation
(2 or more)



3D148254

RZR30 - 48TBVJUB, continued
RZQ30 - 48TBVJUB, continued

Unit: in. (mm)

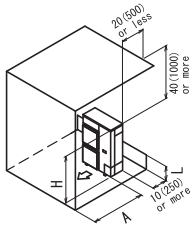
(b) Obstacle above, too

(1) Stand-alone installation

The relations between H, A and L are as follows:

	L	A
L≦H	0<L≦1/2H	30 (750)
	1/2H<L≦H	40 (1000)
H<L	Set the stand as:	L≦H

Close the bottom of the installation frame to prevent the discharge air from being bypassed.



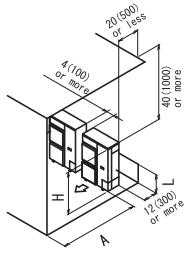
(2) Series installation
(up to two units)

The relations between H, A and L are as follows:

	L	A
L≦H	0<L≦1/2H	40 (1000)
	1/2H<L≦H	50 (1250)
H<L	Set the stand as:	L≦H

Close the bottom of the installation frame to prevent the discharge air from being bypassed.

Only two units can be installed for this series.



Pattern 2

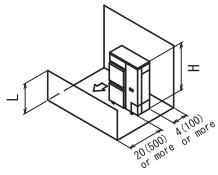
Where the obstacles on the discharge side is lower than the unit:

(There is no height limit for obstructions on the intake side.)

(a) No obstacle above

(1) Stand-alone installation

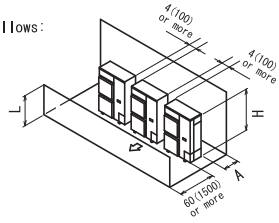
L≦H



(2) Series installation
(2 or more)

The relations between H, A and L are as follows:

L	A
0<L≦1/2H	10 (250)
1/2H<L≦H	12 (300)



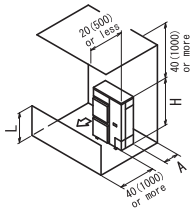
(b) Obstacle above, too

(1) Stand-alone installation

The relations between H, A and L are as follows:

	L	A
L≦H	0<L≦1/2H	4 (100)
	1/2H<L≦H	8 (200)
H<L	Set the stand as:	L≦H

Close the bottom of the installation frame to prevent the discharge air from being bypassed.



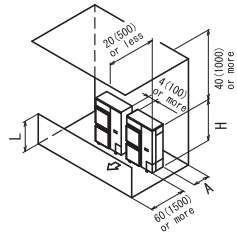
(2) Series installation
(up to two units)

The relations between H, A and L are as follows:

	L	A
L≦H	0<L≦1/2H	10 (250)
	1/2H<L≦H	12 (300)
H<L	Set the stand as:	L≦H

Close the bottom of the installation frame to prevent the discharge air from being bypassed.

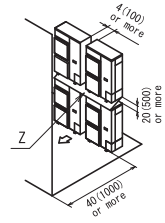
Only two units can be installed for this series.



4. Double-decker installation

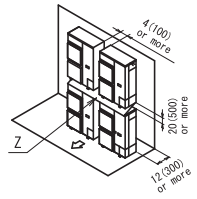
(a) Obstacle on the discharge side

- No more than two units should be stacked.
- If there is a danger of water from the drain falling on the lower outdoor unit and freezing, install a roof (field supply).
- To prevent the formation and growth of ice in the bottom frame of the 2nd level outdoor unit, install the outdoor unit so that the bottom frame will be sufficiently higher than the roof. (It is recommended to leave 20in. (500mm) or more)
- Shut off the Z part (the area between the upper outdoor unit and the lower outdoor unit) so that outlet air does not bypass.



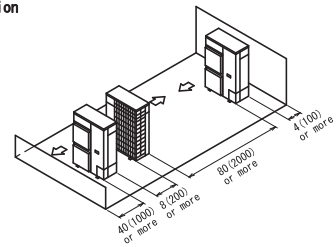
(b) Obstacle on the suction side

- No more than two units should be stacked.
- If there is a danger of water from the drain falling on the lower outdoor unit and freezing, install a roof (field supply).
- To prevent the formation and growth of ice in the bottom frame of the 2nd level outdoor unit, install the outdoor unit so that the bottom frame will be sufficiently higher than the roof. (It is recommended to leave 20in. (500mm) or more)
- Shut off the Z part (the area between the upper outdoor unit and the lower outdoor unit) so that outlet air does not bypass.



5. Multiple rows of series installation (on the rooftop, etc.)

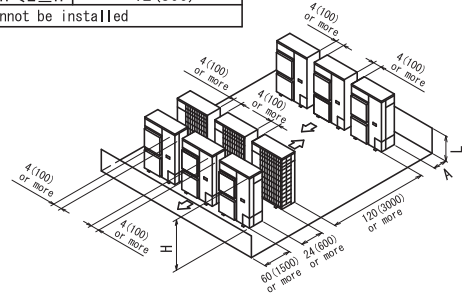
(a) Stand-alone installation



(b) Series installation (2 or more)

The relations between H, A and L are as follows:

	L	A
L≦H	0<L≦1/2H	10 (250)
	1/2H<L≦H	12 (300)
H<L	Cannot be installed	



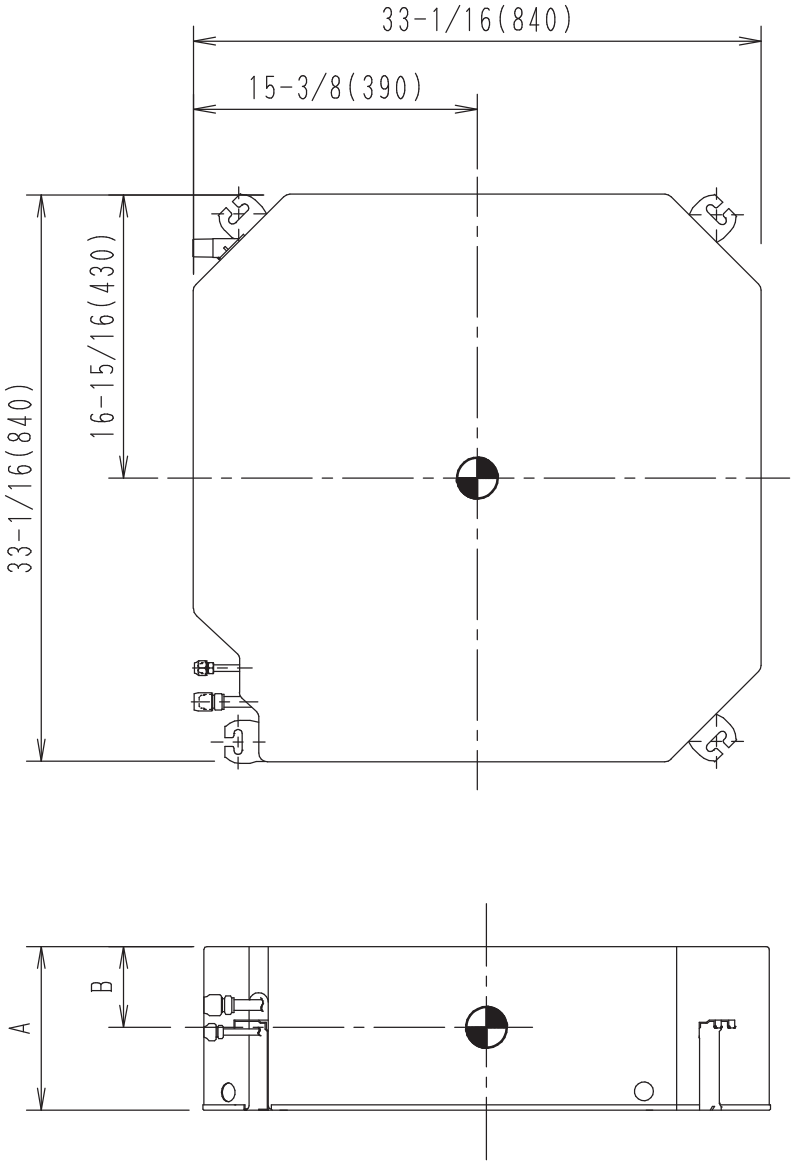
3D148254

7. Center of Gravity

7.1 Indoor Unit

FCQ18 - 48AAVJU

Unit : in. (mm)

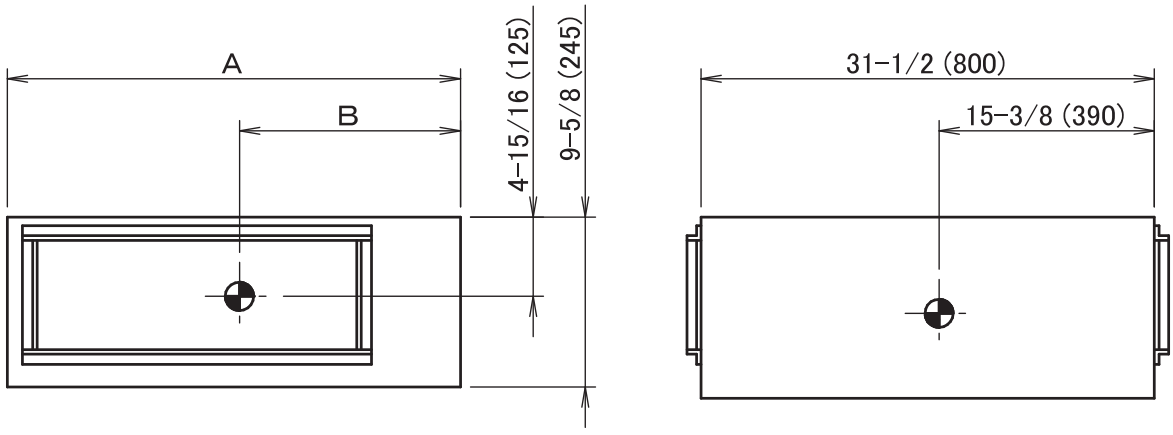


MODEL NAME	A	B
FXFQ07～24AAVJU FCQ18・24AAVJU	9-11/16 (246)	3-9/16 (90)
FXFQ30～54AAVJU FCQ30～48AAVJU	11-5/16 (288)	4-3/4 (120)

4D140942

FBQ18 - 48TBVJU

in. (mm)

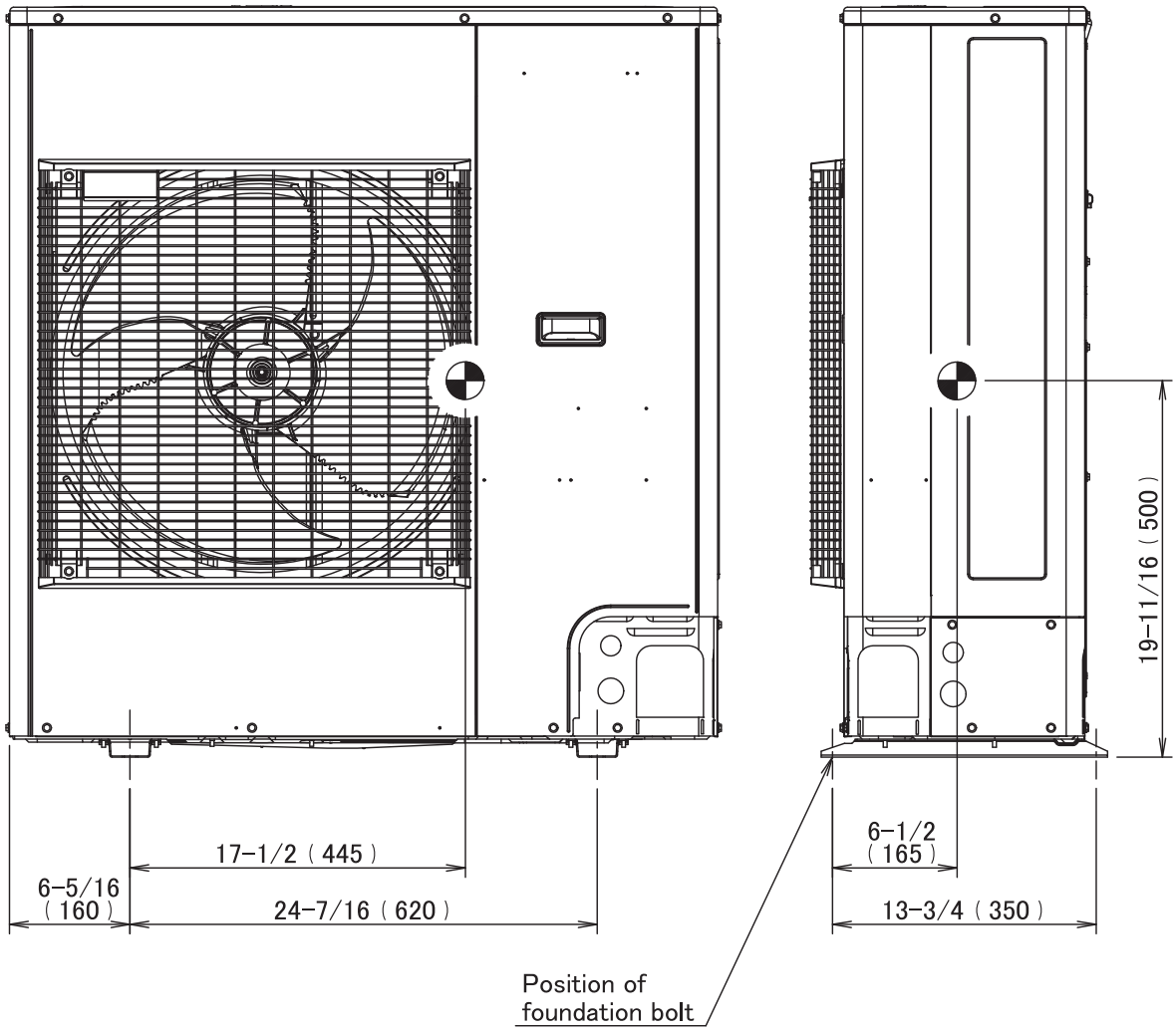


MODEL NAME	A	B
FBQ18・24TBVJU	39-3/8 (1000)	18-11/16 (475)
FBQ30・36・42・48TBVJU	55-1/8 (1400)	24-7/16 (620)

4D140810

7.2 Outdoor Unit

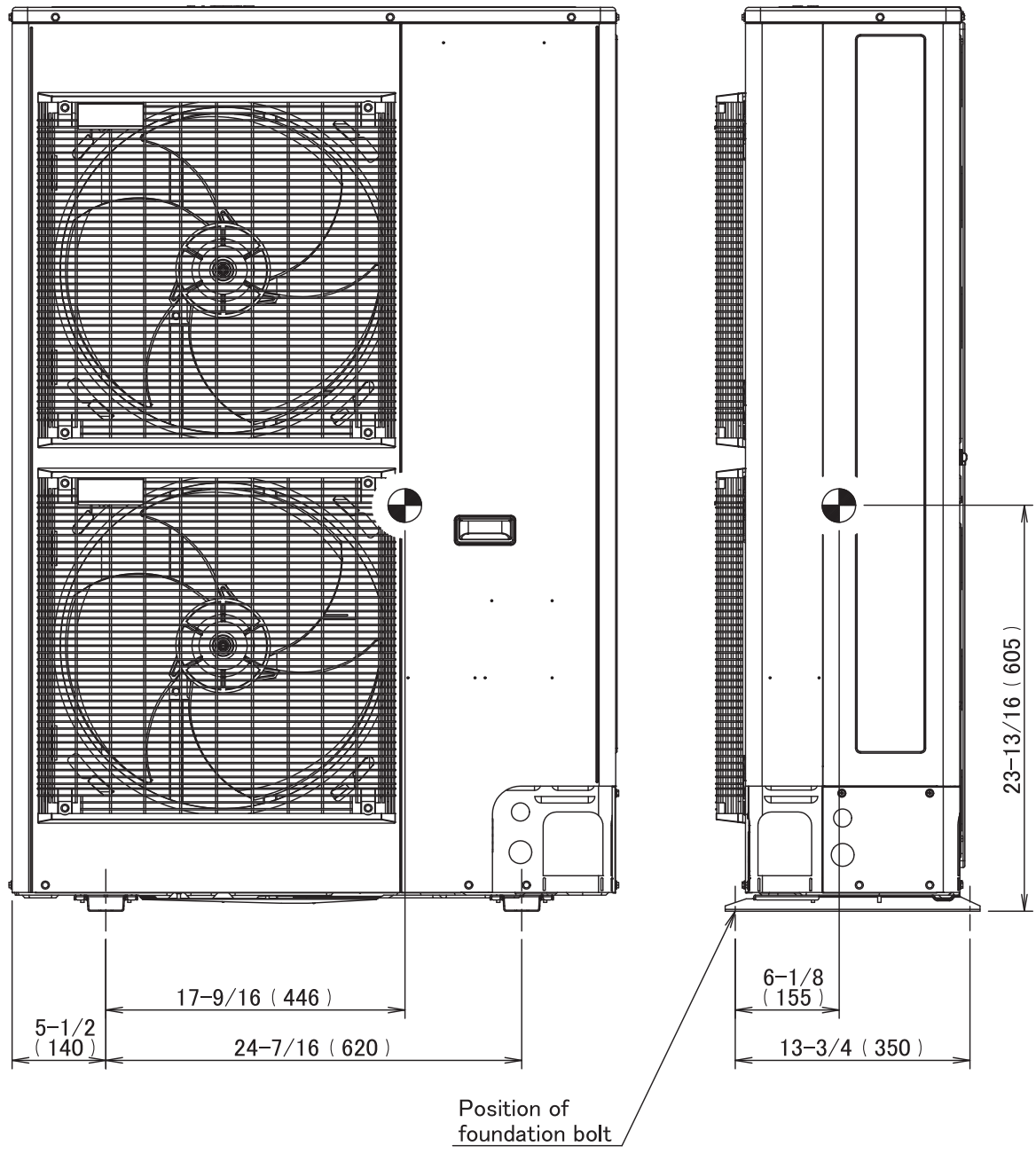
RZR18 - 24TBVJUB
RZQ18 - 24TBVJUB



Unit:in.(mm)

4D148235

RZR30 - 48TBVJUB
RZQ30 - 48TBVJUB



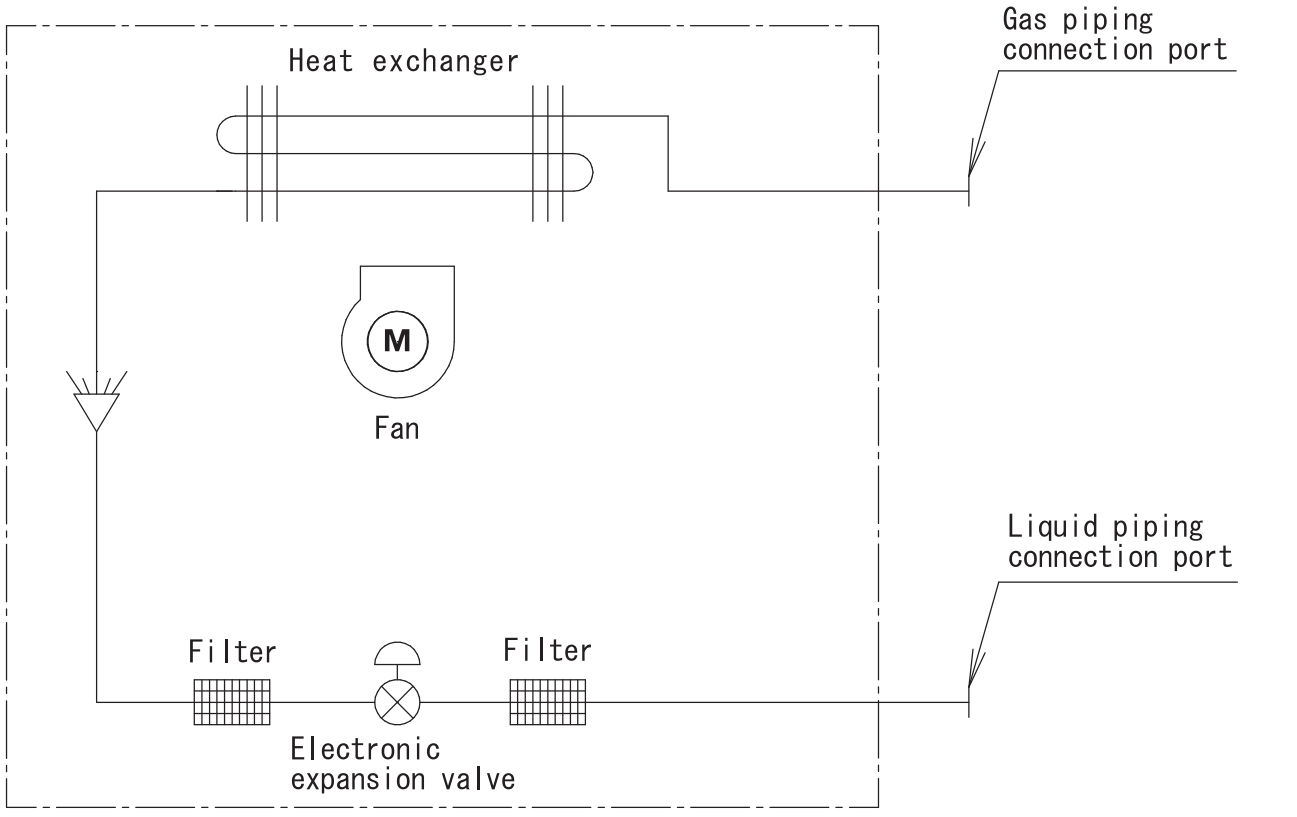
Unit:in.(mm)

4D148237

8. Piping Diagrams

8.1 Indoor Unit

FCQ18 - 48AAVJU

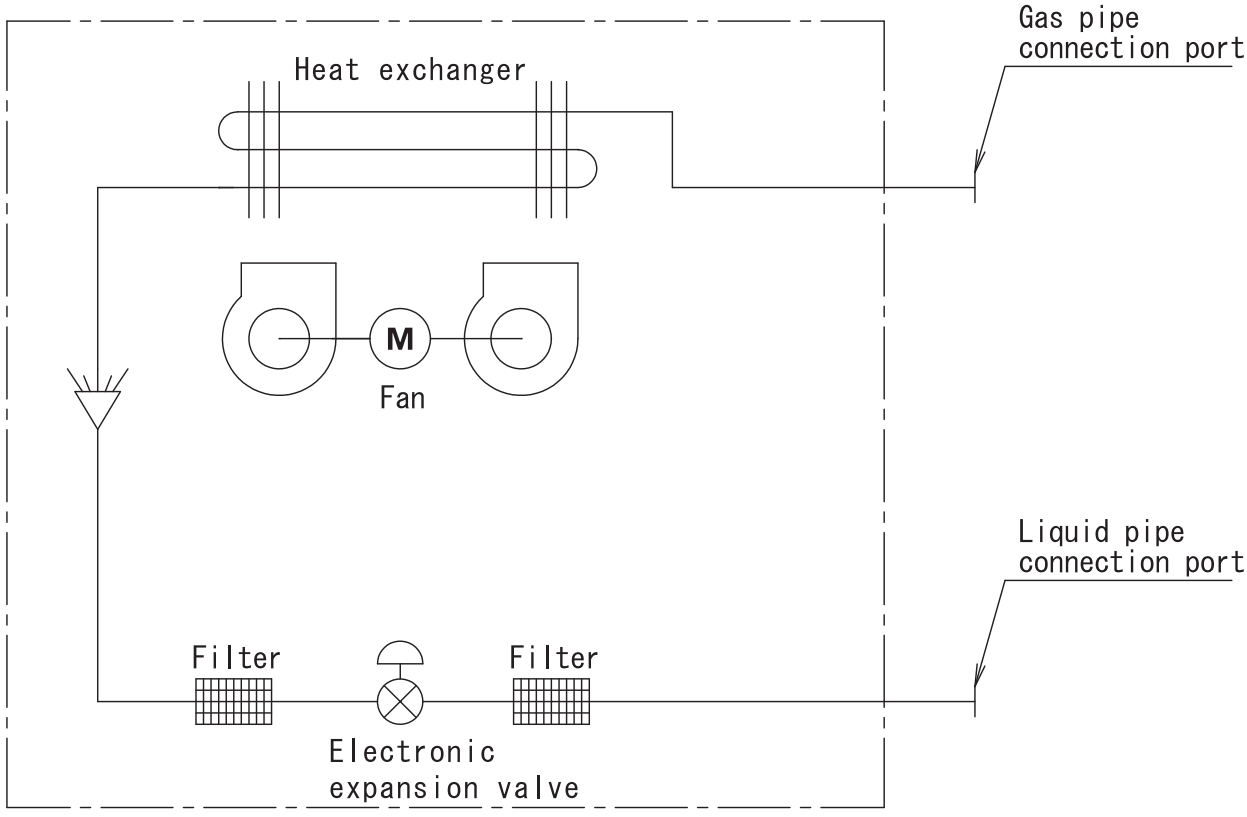


4D140941

Unit: in. (mm)

Model	Gas	Liquid
FCQ18 - 48AAVJU	ϕ5/8 (ϕ15.9)	ϕ3/8 (ϕ9.5)

FAQ18 - 24TAVJU

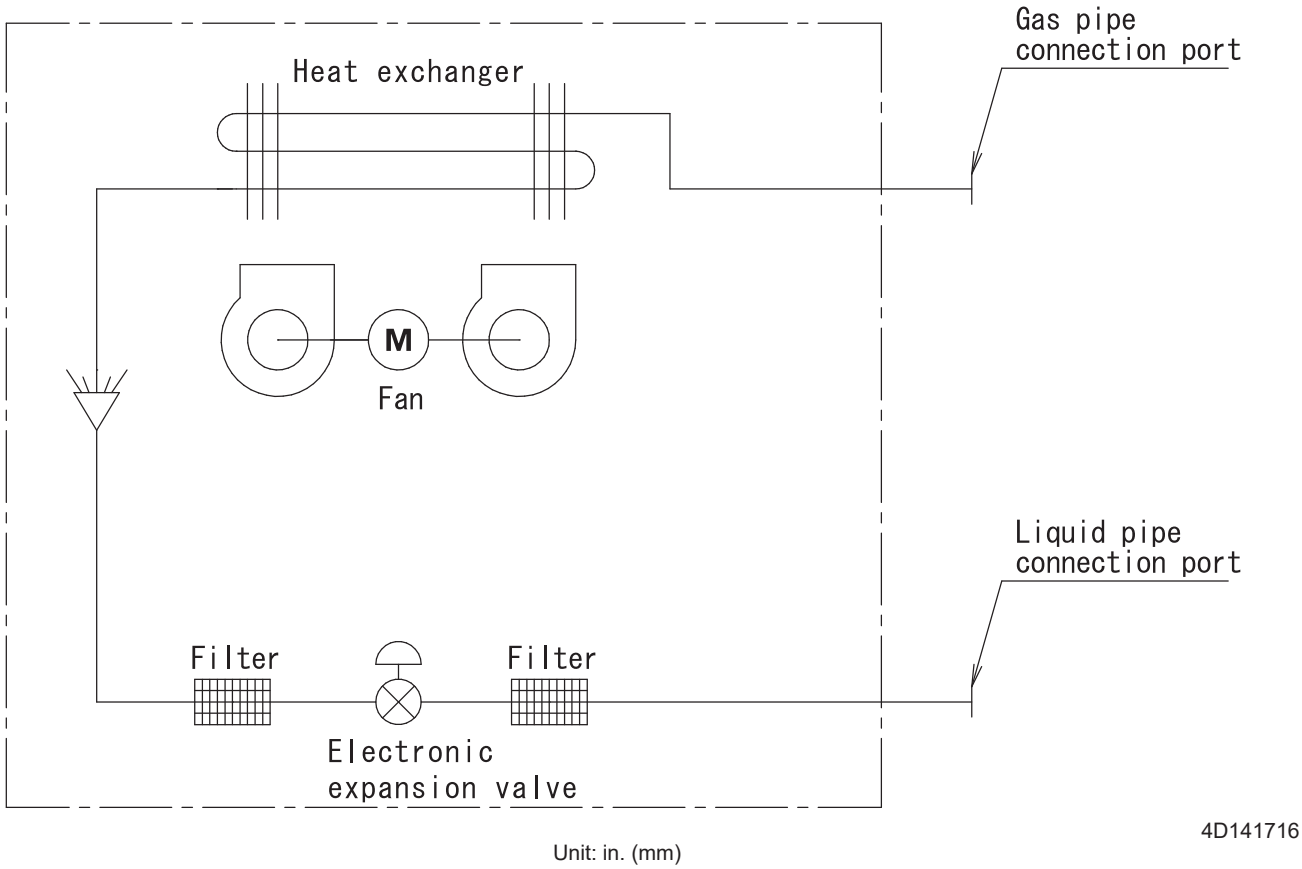


C: 4D034245S

Unit: in. (mm)

Model	Gas	Liquid
FAQ18 - 24TAVJU	ϕ5/8 (ϕ15.9)	ϕ3/8 (ϕ9.5)

FBQ18 - 48TBVJU

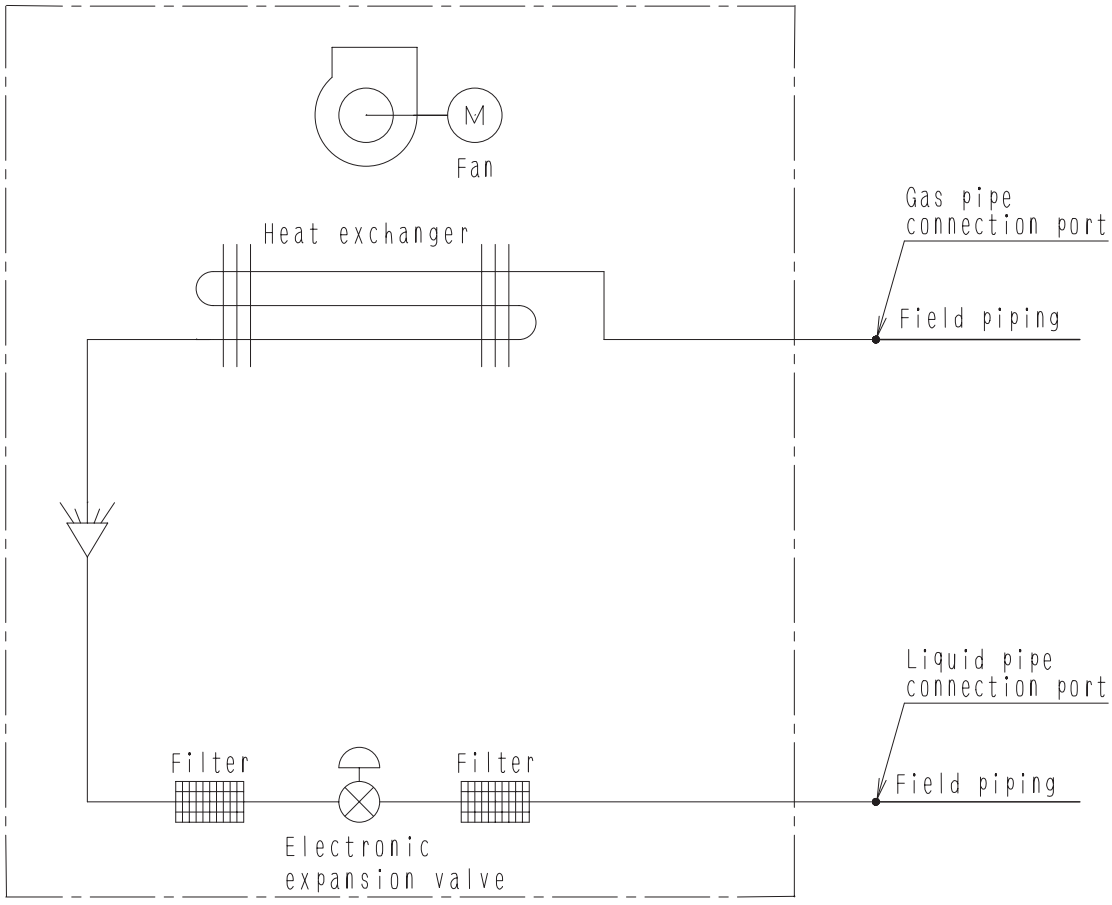


4D141716

Unit: in. (mm)

Model	Gas	Liquid
FBQ18 - 48TBVJU	ϕ5/8 (ϕ15.9)	ϕ3/8 (ϕ9.5)

FTQ18 - 48TBVJUD
FTQ18 - 48TBVJUA



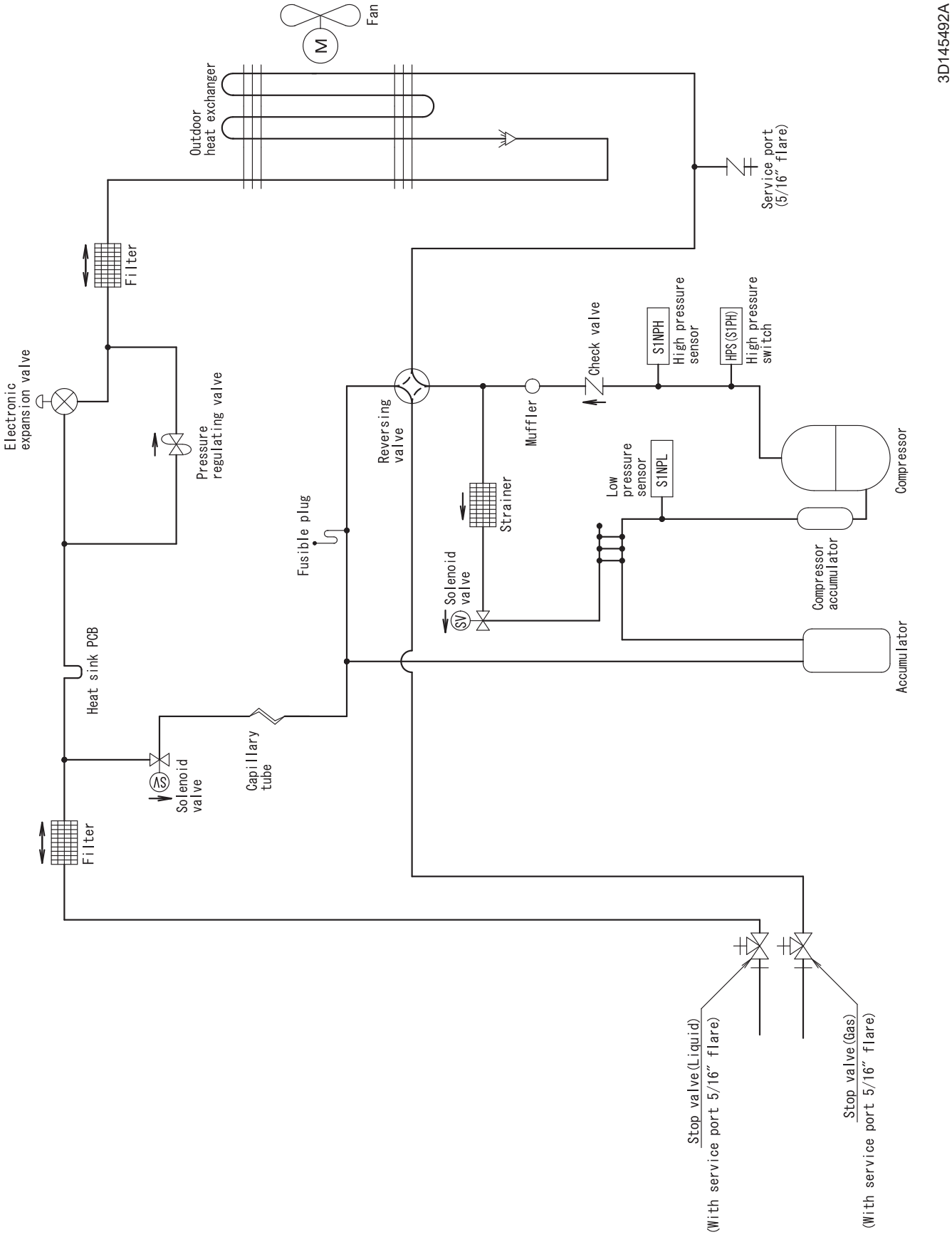
C: 4D068194

Unit: in. (mm)

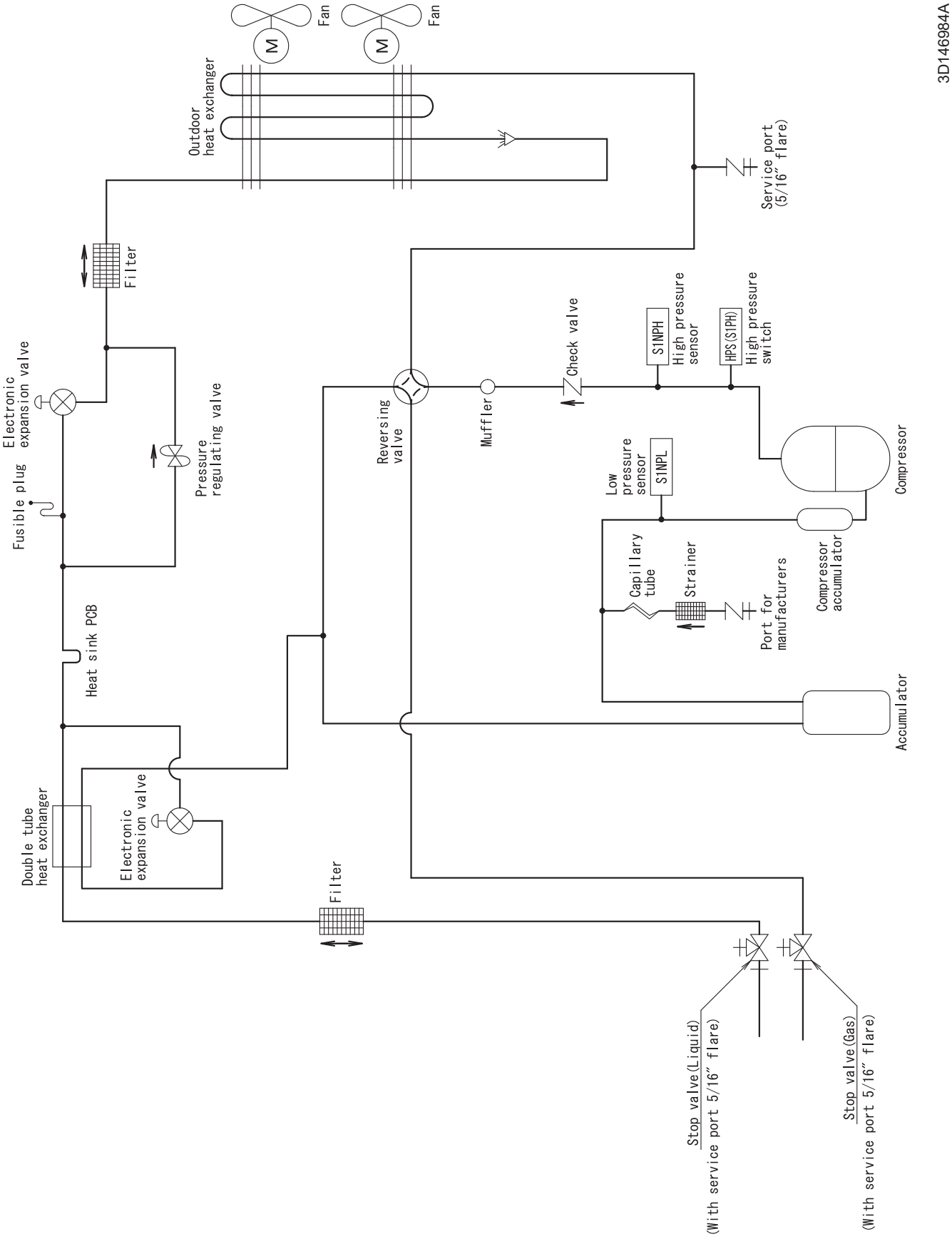
Model	Gas	Liquid
FTQ18 - 48TBVJUD FTQ18 - 48TBVJUA	ϕ5.8 (ϕ15.9)	ϕ3.8 (ϕ9.5)

8.2 Outdoor Unit

RZR18 - 24TBVJUB
RZQ18 - 24TBVJUB



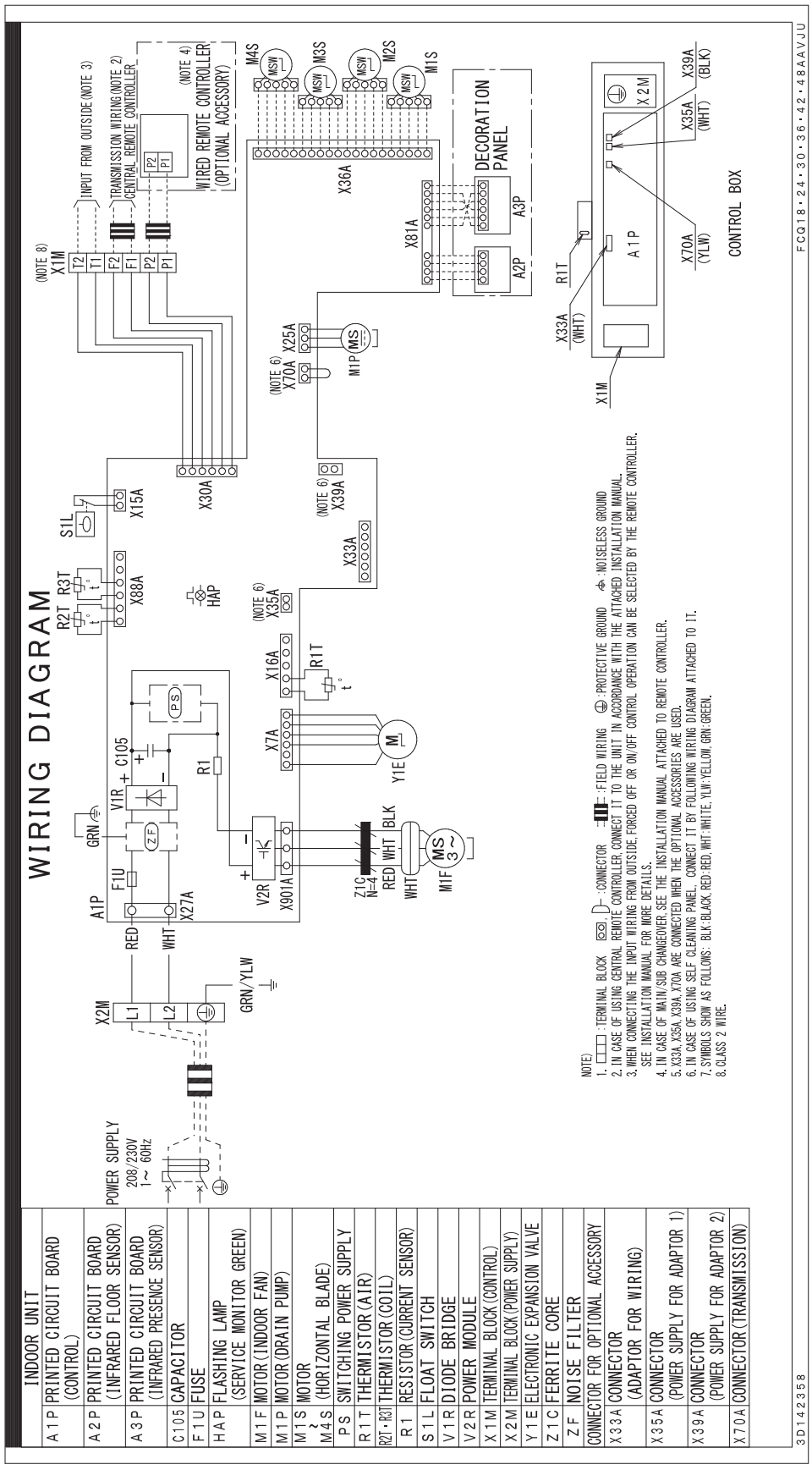
RZR30 - 48TBVJUB
RZQ30 - 48TBVJUB



9. Wiring Diagrams

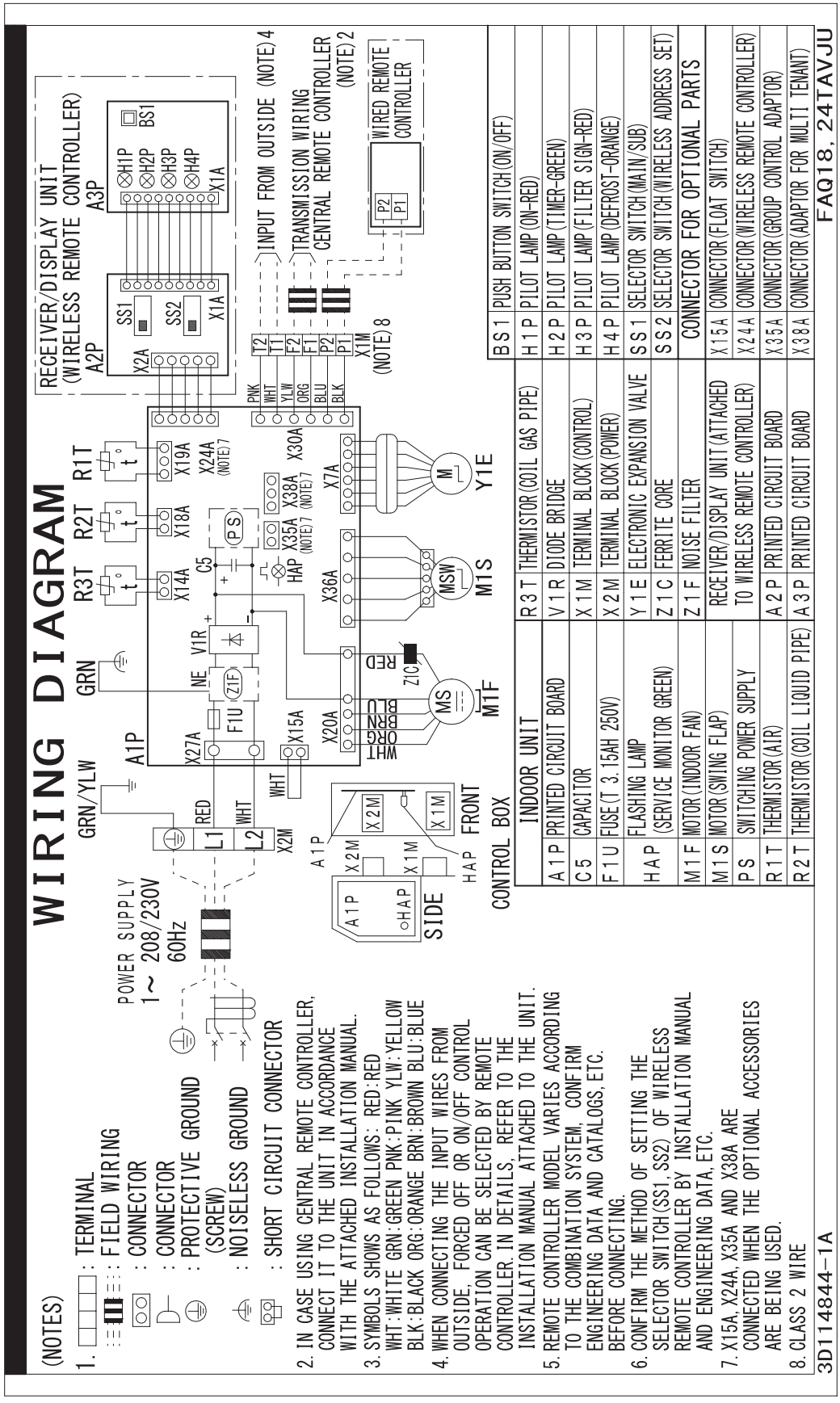
9.1 Indoor Unit

FCQ18 - 48AAVJU



3D142358

FAQ18 - 24TAVJU

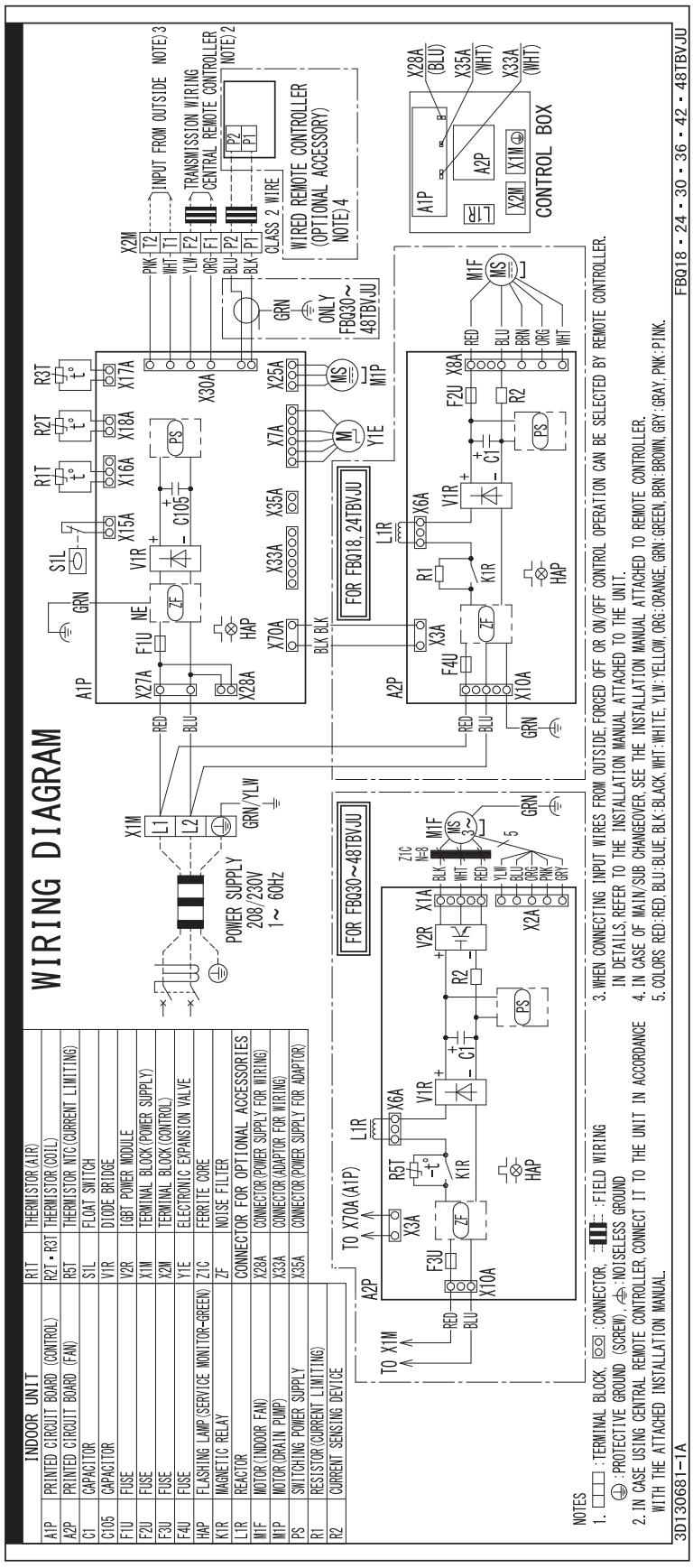


INDOOR UNIT		R3T	THERMISTOR(COIL GAS PIPE)
A1P	PRINTED CIRCUIT BOARD	V1R	DIODE BRIDGE
C5	CAPACITOR	X1M	TERMINAL BLOCK(CONTROL)
F1U	FUSE(T 3.15AH 250V)	X2M	TERMINAL BLOCK(POWER)
HAP	FLASHING LAMP (SERVICE MONITOR GREEN)	Y1E	ELECTRONIC EXPANSION VALVE
		Z1C	FERRITE CORE
M1F	MOTOR(INDOOR FAN)	Z1F	NOISE FILTER
M1S	MOTOR(SWING FLAP)	RECEIVER/DISPLAY UNIT(ATTACHED TO WIRELESS REMOTE CONTROLLER)	
PS	SWITCHING POWER SUPPLY		
R1T	THERMISTOR(AIR)	A2P	PRINTED CIRCUIT BOARD
R2T	THERMISTOR(COIL LIQUID PIPE)	A3P	PRINTED CIRCUIT BOARD

BS1	PUSH BUTTON SWITCH(ON/OFF)		
H1P	PILOT LAMP(ON-RED)		
H2P	PILOT LAMP(TIMER-GREEN)		
H3P	PILOT LAMP(FILTER SIGN-RED)		
H4P	PILOT LAMP(DEFROST-ORANGE)		
SS1	SELECTOR SWITCH(MAIN/SUB)		
SS2	SELECTOR SWITCH(WIRELESS ADDRESS SET)		
CONNECTOR FOR OPTIONAL PARTS			
X15A	CONNECTOR(FLOAT SWITCH)		
X24A	CONNECTOR(WIRELESS REMOTE CONTROLLER)		
X35A	CONNECTOR(GROUP CONTROL ADAPTOR)		
X38A	CONNECTOR(ADAPTOR FOR MULTI TENANT)		

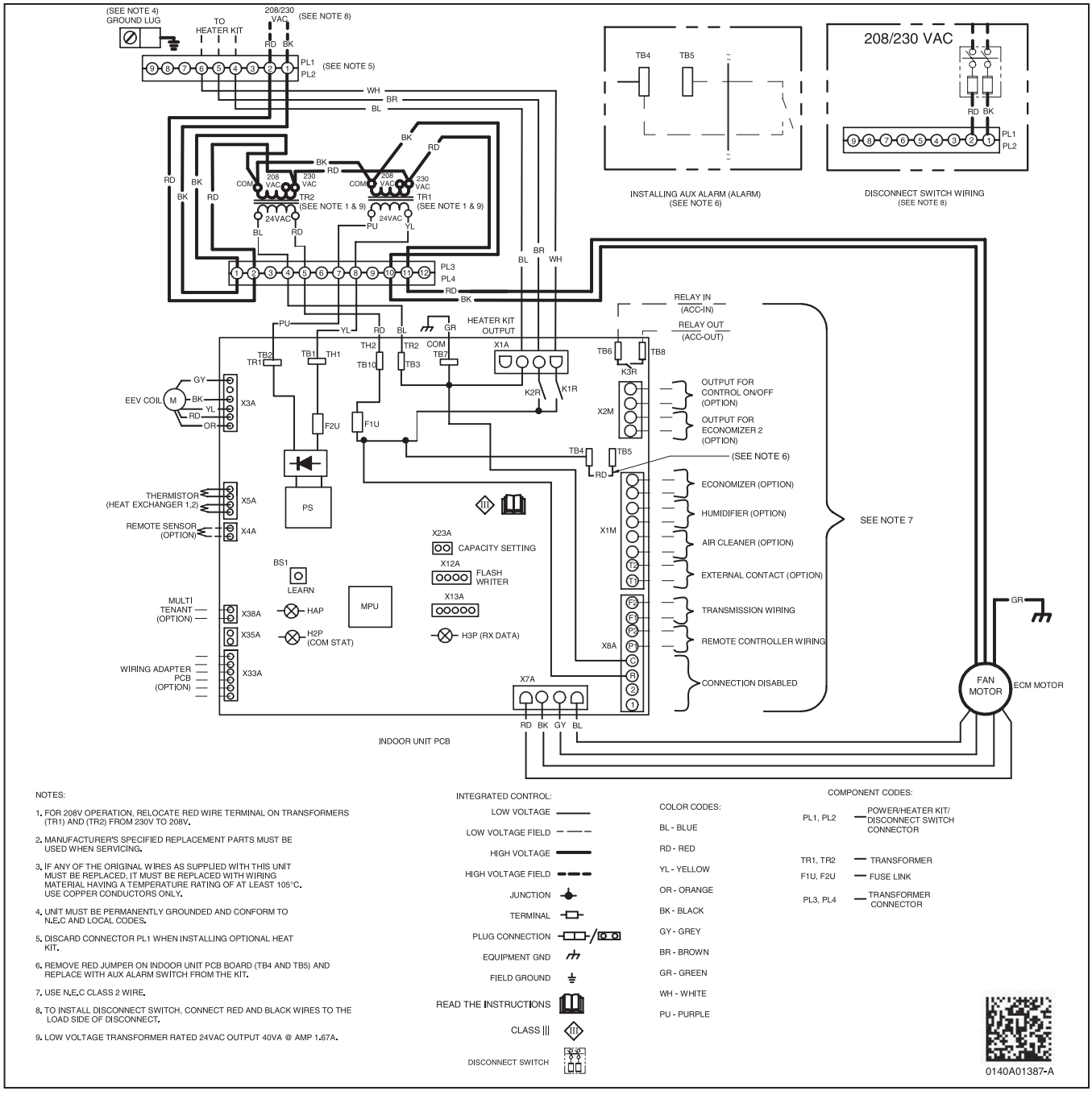
C: 3D114844B

FBQ18 - 48TBVJU



C: 3D130681B

FTQ18 - 48TBVJUD
FTQ18 - 48TBVJUA



NOTES:

1. FOR 208V OPERATION, RELOCATE RED WIRE TERMINAL ON TRANSFORMERS (TR1) AND (TR2) FROM 230V TO 208V.
2. MANUFACTURER'S SPECIFIED REPLACEMENT PARTS MUST BE USED WHEN SERVICING.
3. IF ANY OF THE ORIGINAL WIRES AS SUPPLIED WITH THIS UNIT MUST BE REPLACED, IT MUST BE REPLACED WITH WIRING MATERIAL HAVING A TEMPERATURE RATING OF AT LEAST 105°C. USE COPPER CONDUCTORS ONLY.
4. UNIT MUST BE PERMANENTLY GROUNDED AND CONFORM TO N.E.C AND LOCAL CODES.
5. DISCARD CONNECTOR PL1 WHEN INSTALLING OPTIONAL HEAT KIT.
6. REMOVE RED JUMPER ON INDOOR UNIT PCB BOARD (TB4 AND TB5) AND REPLACE WITH AUX ALARM SWITCH FROM THE KIT.
7. USE N.E.C CLASS 2 WIRE.
8. TO INSTALL DISCONNECT SWITCH, CONNECT RED AND BLACK WIRES TO THE LOAD SIDE OF DISCONNECT.
9. LOW VOLTAGE TRANSFORMER RATED 24VAC OUTPUT 40VA @ AMP 1.67A.

INTEGRATED CONTROL:

- LOW VOLTAGE
- LOW VOLTAGE FIELD
- HIGH VOLTAGE
- HIGH VOLTAGE FIELD
- JUNCTION
- TERMINAL
- PLUG CONNECTION
- EQUIPMENT GND
- FIELD GROUND
- READ THE INSTRUCTIONS
- CLASS III
- DISCONNECT SWITCH

COLOR CODES:

- BL - BLUE
- RD - RED
- YL - YELLOW
- OR - ORANGE
- BK - BLACK
- GY - GREY
- BR - BROWN
- GR - GREEN
- WH - WHITE
- PU - PURPLE

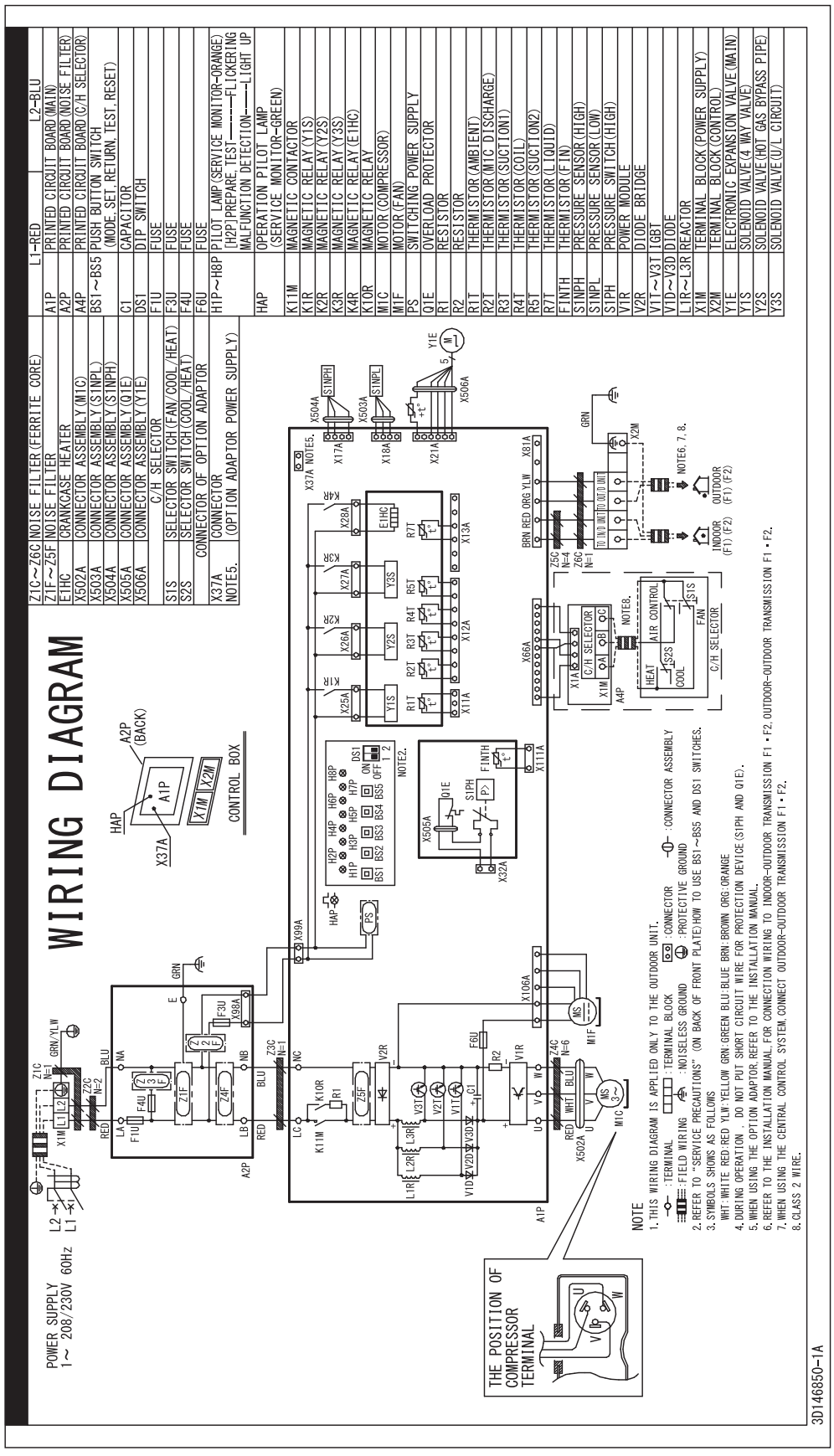
COMPONENT CODES:

- PL1, PL2 — POWER/HEATER KIT/ DISCONNECT SWITCH CONNECTOR
- TR1, TR2 — TRANSFORMER
- F1U, F2U — FUSE LINK
- PL3, PL4 — TRANSFORMER CONNECTOR

0140A01387-A

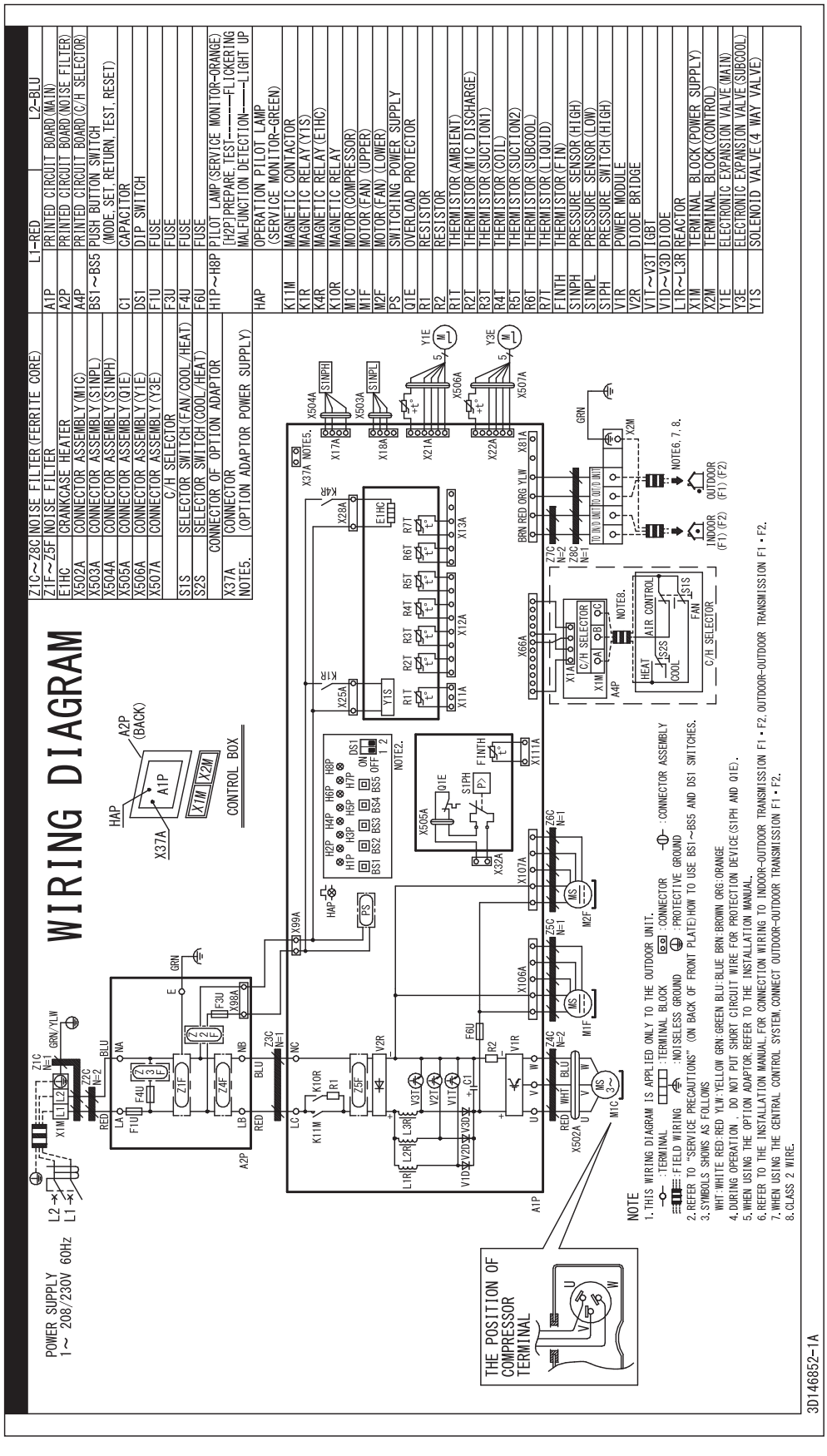
9.2 Outdoor Unit

RZR18 - 24TBVJUB
RZQ18 - 24TBVJUB



C: 3D146850D

RZR30 - 48TBVJUB
RZQ30 - 48TBVJUB

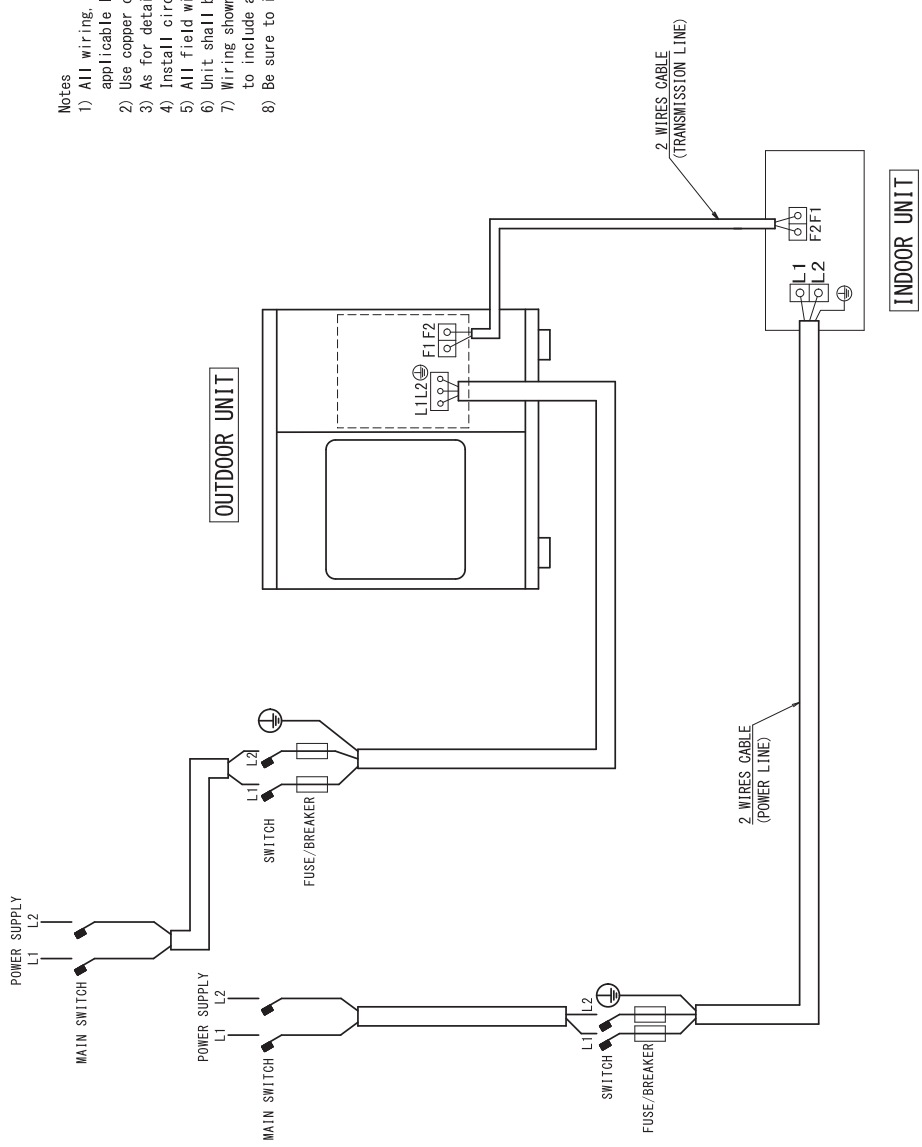


C: 3D146852D

10.Field Wiring

RZR18 - 24TBVJUB
RZQ18 - 24TBVJUB

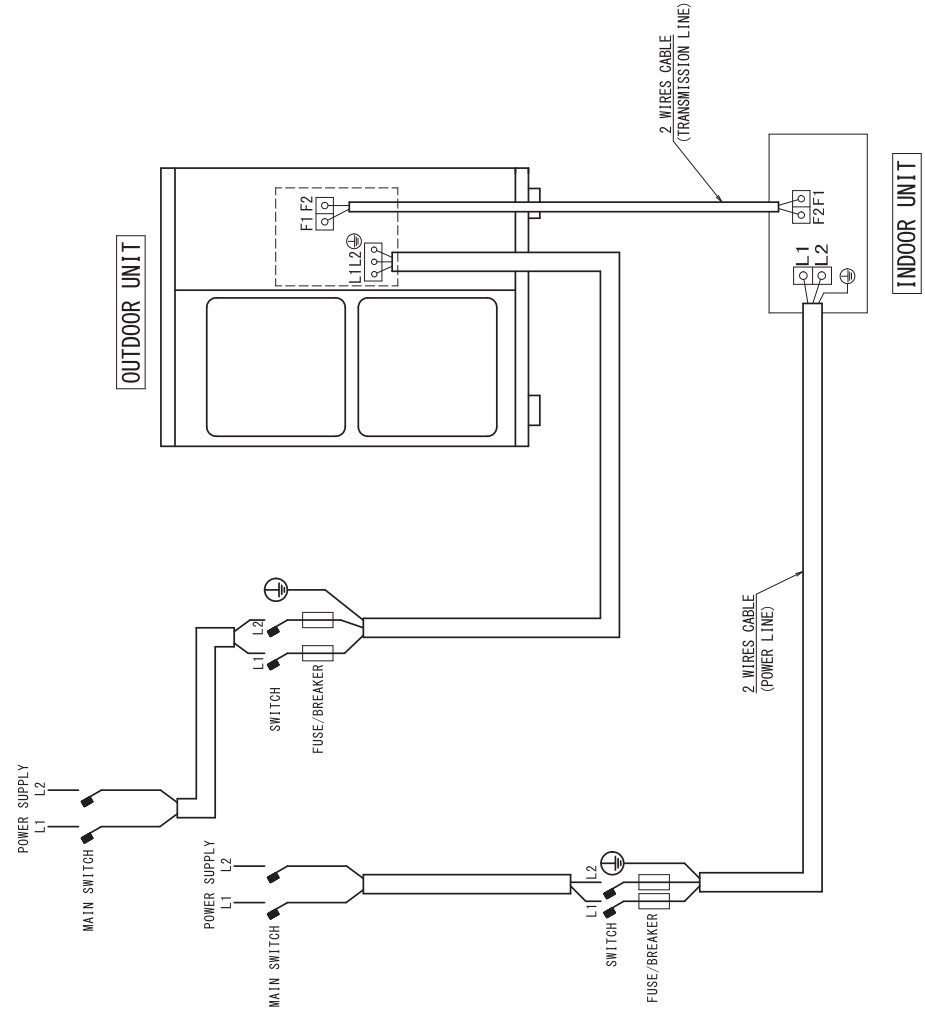
Notes
1) All wiring, components and materials to be procured on the site must comply with the applicable local and national codes.
2) Use copper conductors only.
3) As for details, see wiring diagram.
4) Install circuit breaker for safety.
5) All field wiring and components must be provided by licensed electrician.
6) Unit shall be grounded in compliance with the applicable local and national codes.
7) Wiring shown is general points-of-connection guides only and is not intended for or to include all details for a specific installation.
8) Be sure to install the switch and the fuse/breaker to the power line of each equipment.



RZR30 - 48TBVJUB
RZQ30 - 48TBVJUB

3D143161B

Notes
1) All wiring, components and materials to be procured on the site must comply with the applicable local and national codes.
2) Use copper conductors only.
3) As for details, see wiring diagram.
4) Install circuit breaker for safety.
5) All field wiring and components must be provided by licensed electrician.
6) Unit shall be grounded in compliance with the applicable local and national codes.
7) Wiring shown is general points-of-connection guides only and is not intended for or to include all details for a specific installation.
8) Be sure to install the switch and the fuse/breaker to the power line of each equipment.



11. Electrical Characteristics

11.1 Indoor Unit

FCQ18 - 48AAVJU

Model	Power supply					IFM		Input (W)		SCCR
	Hz	Volts	Voltage range	MCA	MOP	HP	FLA	Cooling	Heating	
FCQ18AAVJU	60	208/230 V	Max. 253 V Min. 187 V	0.5	15	0.07 (53)	0.4	72	68	SCCR kA rms, Symmetrical @600V MAX: 5
FCQ24AAVJU				0.5	15	0.07 (53)	0.4	72	68	
FCQ30AAVJU				1.0	15	0.14 (106)	0.8	128	110	
FCQ36AAVJU				1.6	15	0.14 (106)	1.3	217	207	
FCQ42AAVJU				1.6	15	0.14 (106)	1.3	217	207	
FCQ48AAVJU				1.6	15	0.14 (106)	1.3	217	207	

Symbol:
MCA: Minimum Circuit Ampacity (A)
MOP: Maximum Overcurrent Protective Device (A)
HP: Fan Motor Rated Output (HP (W))
FLA: Full Load Ampere (A)
IFM: Indoor Fan Motor
SCCR: Short-Circuit Current Rating

Note:
1. Voltage range
   Units are suitable for use on electrical systems where voltage supplied to unit terminals is not below or above listed range limits.
2. Maximum allowable voltage unbalance between phases is 2%.
3. MCA / MOP
   MCA = 1.25 × FLA
   MOP ≤ 4 × FLA
   (Next lower standard fuse rating is minimum 15 A.)
4. Select wiring size based on the MCA.
5. Cooling power input value includes power required to operate the built-in drain pump.

C: 4D140938

Model		FCQ18AAVJU		FCQ24AAVJU		FCQ30AAVJU		FCQ36AAVJU		FCQ42AAVJU		FCQ48AAVJU	
Operation mode		Cooling	Heating	Cooling	Heating	Cooling	Heating	Cooling	Heating	Cooling	Heating	Cooling	Heating
Input power (W)	H	70	66	72	68	128	110	217	207	217	207	217	207
	M	44	42	44	42	89	83	101	91	115	103	115	103
	L	25	24	25	24	51	46	51	46	64	59	64	59

C: 3D140939

FAQ18 - 24TAVJU

Model	Power Supply					IFM		Input (W)	
	Hz	Volts	Voltage range	MCA	MOP	KW	FLA	Cooling	Heating
FAQ18TAVJU	60	208/230 V	Max. 253 V Min. 187 V	0.5	15	0.043	0.4	33	39
FAQ24TAVJU				0.6	15	0.043	0.5	50	60

Symbol:
MCA: Minimum Circuit Ampacity (A)
MOP: Maximum Overcurrent Protective Device (A)
KW: Fan Motor Rated Output (kW)
FLA: Full Load Ampere (A)
IFM: Indoor Fan Motor

Note:
1. Voltage range
   Units are suitable for use on electrical systems where voltage supplied to unit terminals is not below or above listed range limits.
2. Maximum allowable voltage unbalance between phases is 2%.
3. MCA / MOP
   MCA = 1.25 × FLA
   MOP ≤ 4 × FLA
   (Next lower standard fuse rating is minimum 15 A.)
4. Select wiring size based on the MCA.
5. Either a fuse or a circuit breaker is acceptable.

C: 4D115411

FBQ18 - 48TBVJU

Model	Power Supply					IFM		Input (W)		SCCR
	Hz	Volts	Voltage range	MCA	MOP	HP	FLA	Cooling	Heating	
FBQ18TBVJU	60	208/230 V	Max. 253 V Min. 187 V	1.9	15	0.31 (230)	1.5	262	256	SCCR kA rms, Symmetrical @600V MAX: 5
FBQ24TBVJU				1.9	15	0.31 (230)	1.5	257	251	
FBQ30TBVJU				3.0	15	0.49 (364)	2.4	397	391	
FBQ36TBVJU				3.1	15	0.49 (364)	2.5	401	395	
FBQ42TBVJU				3.6	15	0.49 (364)	2.9	464	458	
FBQ48TBVJU				3.6	15	0.49 (364)	2.9	464	458	

Symbol:

MCA: Minimum Circuit Ampacity (A)
MOP: Maximum Overcurrent Protective Device (A)
HP: Fan Motor Rated Output (Hp (W))
FLA: Full Load Ampere (A)
IFM: Indoor Fan Motor
SCCR: Short-Circuit Current Rating

Note:

1. Voltage range
   Units are suitable for use on electrical systems where voltage supplied to unit terminals is not below or above listed range limits.
2. Maximum allowable voltage unbalance between phases is 2%.
3. MCA / MOP
   MCA = 1.25 × FLA
   MOP ≤ 4 × FLA
   (Next lower standard fuse rating is minimum 15 A.)
4. Select wiring size based on the MCA.
5. Instead of fuse, use circuit breaker.
6. Cooling power input value includes power required to operate the built-in drain pump.

C: 4D140803

Model		FBQ18TBVJU		FBQ24TBVJU		FBQ30TBVJU		FBQ36TBVJU		FBQ42TBVJU		FBQ48TBVJU	
Operation mode		Cooling	Heating	Cooling	Heating	Cooling	Heating	Cooling	Heating	Cooling	Heating	Cooling	Heating
Input power (W)	H	262	256	257	251	397	391	401	395	464	458	464	458
	M	211	207	198	194	248	246	293	290	331	327	331	327
	L	178	175	167	163	224	222	214	212	237	234	237	234

C: 3D146645

FTQ18 - 48TBVJUD
FTQ18 - 48TBVJUA

Model	Power Supply					IFM		Input (W)	
	Hz	Volts	Voltage range	MCA	MOP	HP	FLA	Cooling	Heating
FTQ18TBVJUD	60	208/230 V	Max. 229 V Min. 187 V Max. 253 V Min. 209 V	4.9	15	1/2	3.9	215	215
FTQ24TBVJUD	60	208/230 V		4.9	15	1/2	3.9	273	273
FTQ30TBVJUD	60	208/230 V		4.9	15	1/2	3.9	407	407
FTQ36TBVJUD	60	208/230 V		4.9	15	1/2	3.9	436	436
FTQ42TBVJUD	60	208/230 V		6.5	15	3/4	5.2	473	473
FTQ48TBVJUD	60	208/230 V		6.5	15	3/4	5.2	518	518
FTQ18TBVJUA	60	208/230 V	Max. 229 V Min. 187 V Max. 253 V Min. 209 V	4.9	15	1/2	3.9	215	215
FTQ24TBVJUA	60	208/230 V		4.9	15	1/2	3.9	273	273
FTQ30TBVJUA	60	208/230 V		4.9	15	1/2	3.9	407	407
FTQ36TBVJUA	60	208/230 V		4.9	15	1/2	3.9	436	436
FTQ42TBVJUA	60	208/230 V		6.5	15	3/4	5.2	473	473
FTQ48TBVJUA	60	208/230 V		6.5	15	3/4	5.2	518	518

Symbol:
MCA : Minimum Circuit Ampacity (A)
MOP : Maximum Overcurrent Protective Device (A)
IFM : Indoor Fan Motor
HP : Fan Motor Rated Output (HP)
FLA : Full Load Ampere (A)

Note:
1. Voltage range
   Units are suitable for use on electrical systems where voltage supplied to unit terminals is not below or above listed range limits.
2. Maximum allowable voltage imbalance between phases is 2%.
3. Select wiring size based on the MCA.

11.2 Electric Heater

FTQ18 - 36TBVJUD
FTQ18 - 36TBVJUA

MODEL	CIRCUIT 1			CIRCUIT 2			SINGLE E-POINT KIT	
	AMPS	MCA	MOP	AMPS	MCA	MOP	MCA	MOP
FTQ18TBVJUD FTQ18TBVJUA	0/0	4.9/4.9	15/15	—	—	—	—	—
HKTSN03X1	10.8/12.5	18.4/20.5	20/25	—	—	—	—	—
HKTS*05X1	17.3/20.0	26.5/29.9	30/30	—	—	—	—	—
HKTSN06X1	21.7/25.0	32.0/36.1	35/40	—	—	—	—	—
HKTS*08X1	28.9/33.3	41.0/46.5	45/50	—	—	—	—	—
HKTS*10X1	34.7/40.0	48.2/54.9	50/60	—	—	—	—	—
FTQ24TBVJUD FTQ24TBVJUA	0/0	4.9/4.9	15/15	—	—	—	—	—
HKTSN03X1	10.8/12.5	18.4/20.5	20/25	—	—	—	—	—
HKTS*05X1	17.3/20.0	26.5/29.9	30/30	—	—	—	—	—
HKTSN06X1	21.7/25.0	32.0/36.1	35/40	—	—	—	—	—
HKTS*08X1	28.9/33.3	41.0/46.5	45/50	—	—	—	—	—
HKTS*10X1	34.7/40.0	48.2/54.9	50/60	—	—	—	—	—
FTQ30TBVJUD FTQ30TBVJUA	0/0	4.9/4.9	15/15	—	—	—	—	—
HKTSN03X1	10.8/12.5	18.4/20.5	20/25	—	—	—	—	—
HKTS*05X1	17.3/20.0	26.5/29.9	30/30	—	—	—	—	—
HKTSN06X1	21.7/25.0	32.0/36.1	35/40	—	—	—	—	—
HKTS*08X1	28.9/33.3	41.0/46.5	45/50	—	—	—	—	—
HKTS*10X1	34.7/40.0	48.2/54.9	50/60	—	—	—	—	—
FTQ36TBVJUD FTQ36TBVJUA	0/0	4.9/4.9	15/15	—	—	—	—	—
HKTSN03X1	10.8/12.5	18.4/20.5	20/25	—	—	—	—	—
HKTS*05X1	17.3/20.0	26.5/29.9	30/30	—	—	—	—	—
HKTSN06X1	21.7/25.0	32.0/36.1	35/40	—	—	—	—	—
HKTS*08X1	28.9/33.3	41.0/46.5	45/50	—	—	—	—	—
HKTS*10X1	34.7/40.0	48.2/54.9	50/60	—	—	—	—	—

Note:

1. AMPS indicates heater amp draw.
2. Circuit 1 indicates single point power connection requirements when using a single stage electric heater. Circuit 1 powers both the FTQ printed circuit board as well as the 1st stage of heat.
3. Circuit 2 indicates the power requirements for a second power point connection when using a two stage heater (15 kW and above).
4. Consult installation manual when using electric heater with FTQ18 - 36TBVJUD models.

FTQ42 - 48TBVJUD
FTQ42 - 48TBVJUA

MODEL	CIRCUIT 1			CIRCUIT 2			SINGLE E-POINT KIT	
	AMPS	MCA	MOP	AMPS	MCA	MOP	MCA	MOP
FTQ42TBVJUD FTQ42TBVJUA	0/0	6.5/6.5	15/15	—	—	—	—	—
HKTS*05X1	17.3/20.0	28.2/31.5	30/35	—	—	—	—	—
HKTSN06X1	21.7/25.0	33.6/37.8	35/40	—	—	—	—	—
HKTS*08X1	28.9/33.3	42.6/48.2	45/50	—	—	—	—	—
HKTS*10X1	34.7/40.0	49.8/56.5	50/60	—	—	—	—	—
HKTSD15XA/B	34.7/40.0	49.8/56.5	50/60	17.3/20.0	21.6/25.0	25/25	71.5/81.5	80/90
HKTSD19CA/B	34.7/40.0	49.8/56.5	50/60	34.7/40.0	43.4/50.0	45/50	93.2/107	100/110
FTQ48TBVJUD FTQ48TBVJUA	0/0	6.5/6.5	15/15	—	—	—	—	—
HKTS*05X1	17.3/20.0	28.2/31.5	30/35	—	—	—	—	—
HKTSN06X1	21.7/25.0	33.6/37.8	35/40	—	—	—	—	—
HKTS*08X1	28.9/33.3	42.6/48.2	45/50	—	—	—	—	—
HKTS*10X1	34.7/40.0	49.8/56.5	50/60	—	—	—	—	—
HKTSD15XA/B	34.7/40.0	49.8/56.5	50/60	17.3/20.0	21.6/25.0	25/25	71.5/81.5	80/90
HKTSD19CA/B	34.7/40.0	49.8/56.5	50/60	34.7/40.0	43.4/50.0	45/50	93.2/107	100/110

Note:

1. AMPS indicates heater amp draw.
2. Circuit 1 indicates single point power connection requirements when using a single stage electric heater. Circuit 1 powers both the FTQ printed circuit board as well as the 1st stage of heat.
3. Circuit 2 indicates the power requirements for a second power point connection when using a two stage heater (15 kW and above).
4. Consult installation manual when using electric heater with FTQ42 - 48TBVJUD models.

11.3 Outdoor Unit

RZR18 - 48TBVJUB
RZQ18 - 48TBVJUB

Model		Power Supply						Fan/Compressor Inverter Drive Input	Fan Motor Output		SCCR
		Hz	Volts	Min.	Max.	MCA	MOP	A	Hp	W	
RZQ18TBVJUB	H/P	60	208/230	187	253	19.8	20	15.1	0.27	200	SCCR kA rms, Symmetrical @600V MAX: 5
RZQ24TBVJUB											
RZR18TBVJUB	C/O										
RZR24TBVJUB											
RZQ30TBVJUB	H/P	60	208/230	187	253	32.8	35	25.5	2 × 0.09	2 × 70	
RZQ36TBVJUB											
RZQ42TBVJUB											
RZQ48TBVJUB											
RZR30TBVJUB	C/O										
RZR36TBVJUB											
RZR42TBVJUB											
RZR48TBVJUB											

Symbol:
MCA: Minimum Circuit Ampacity (A)
MOP: Maximum Overcurrent Protective Device (See note 4) (A)
SCCR: Short-Circuit Current Rating

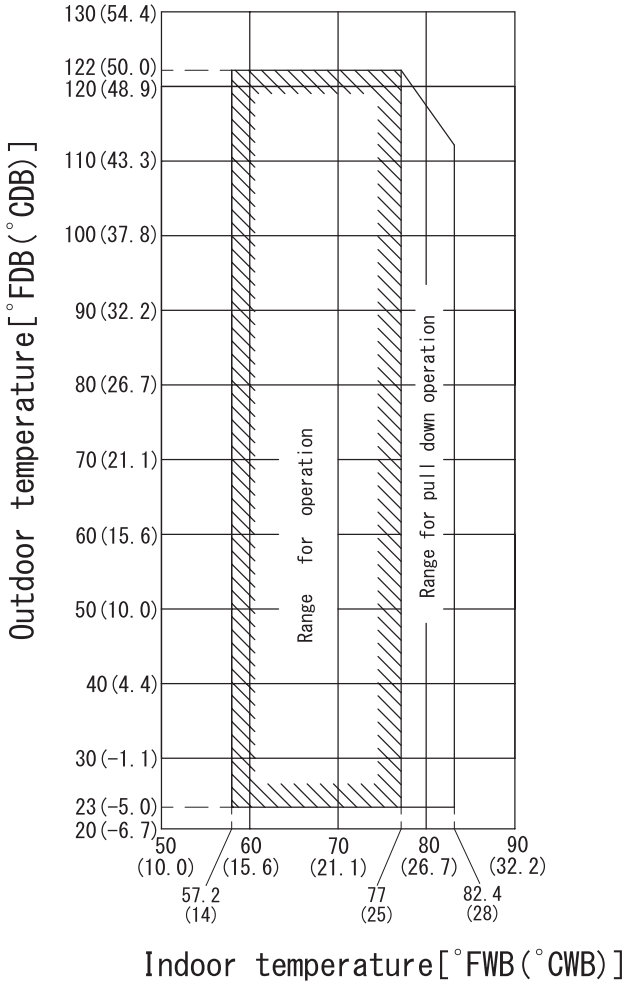
Note:
1. Voltage range
   Units are suitable for use on electrical systems where voltage supplied to unit terminal is not below or above listed range limits.
2. Maximum allowable voltage unbalance between phases is 2%.
3. Select wiring size based on the MCA.
4. MOP is used to select the circuit breaker.

C: 3D148316

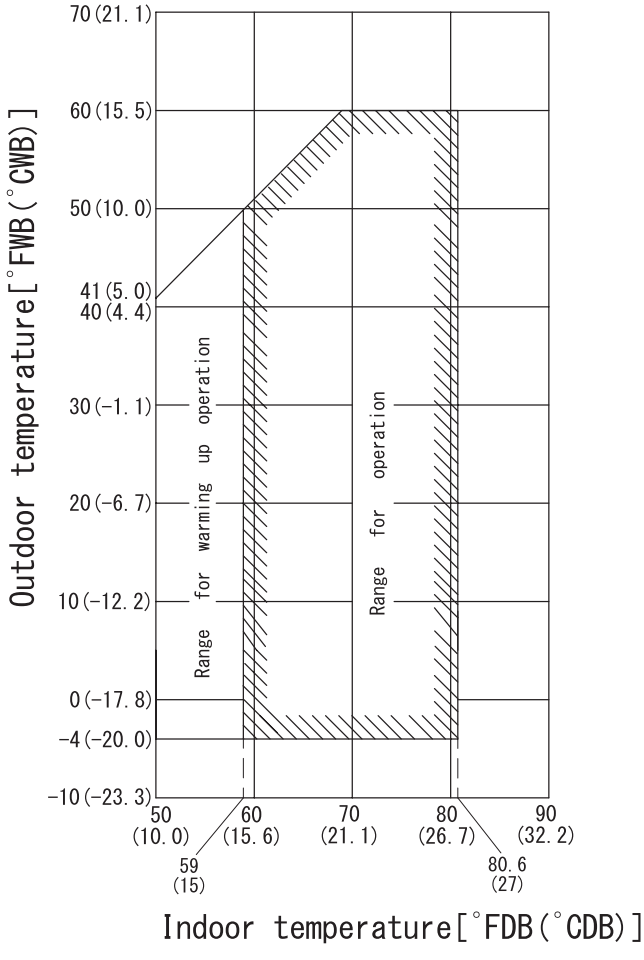
12.Operation Limits

RZR18 - 48TBVJUB
RZQ18 - 48TBVJUB

Cooling



Heating



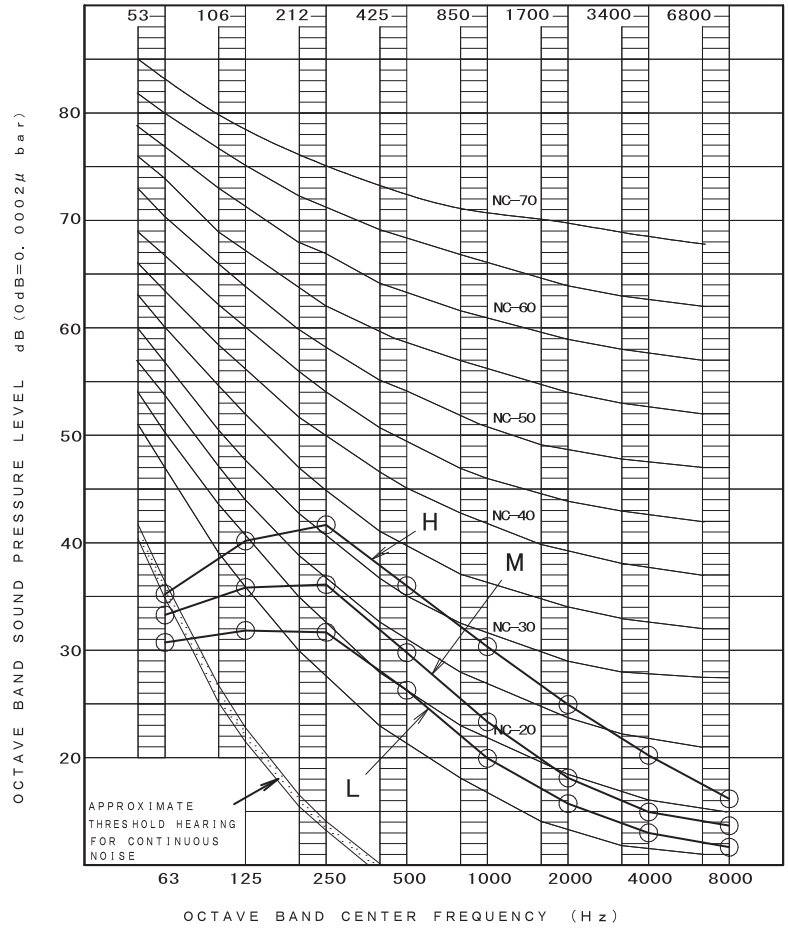
3D115457

13.Sound Levels (Reference Data)

13.1 Indoor Unit

13.1.1 FCQ

FCQ18 - 24AAVJU



OVER ALL (dB)

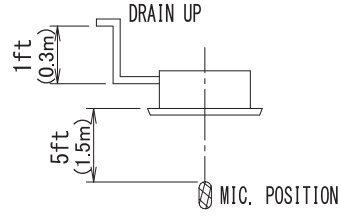
SCALE	H	M	L
A	38.0	32.0	28.0

(B.G.N IS ALREADY RECTIFIED)

OPERATING CONDITIONS

POWER SOURCE	208/230V 60Hz
COOLING	RETURN AIR TEMPERATURE: 80.0°F (26.7°C) DB, 67.0°F (19.4°C) WB OUTDOOR TEMPERATURE: 95.0°F (35.0°C) DB, 75.0°F (23.9°C) WB
HEATING	RETURN AIR TEMPERATURE: 70.0°F (21.1°C) DB, 60.0°F (15.6°C) WB OUTDOOR TEMPERATURE: 47.0°F (8.3°C) DB, 43.0°F (6.1°C) WB

LOCATION OF MICROPHONE



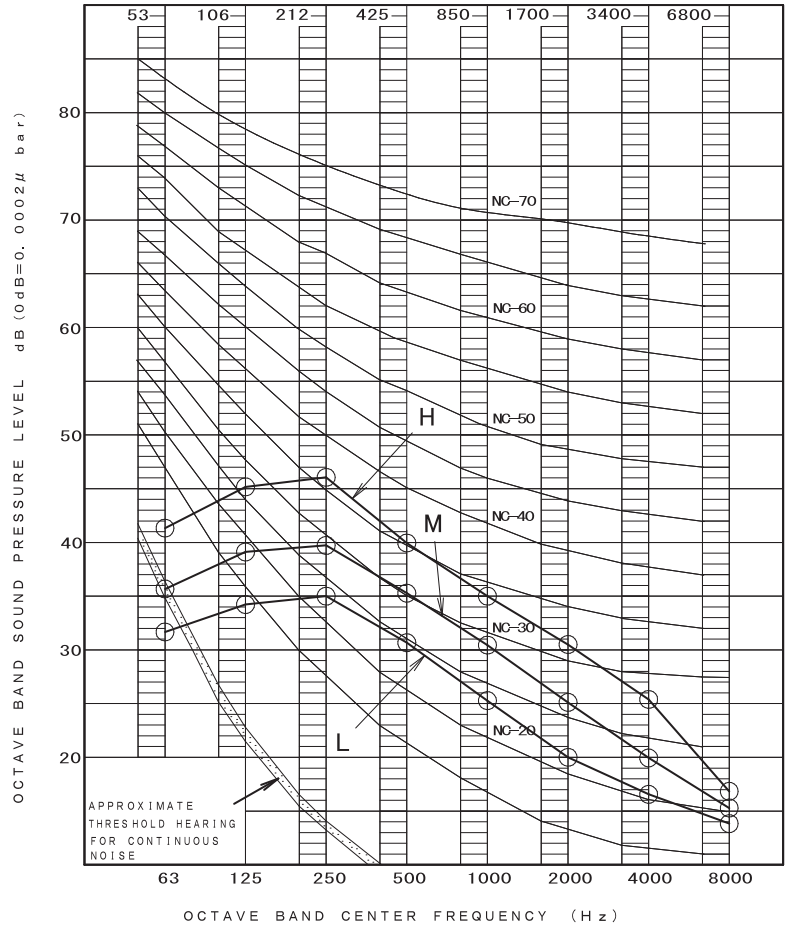
MEASURING PLACE

ANECHOIC CHAMBER

NOTE: OPERATION NOISE DIFFERS WITH OPERATION AND AMBIENT CONDITIONS.

4D140998

FCQ30AAVJU



OVER ALL (dB)

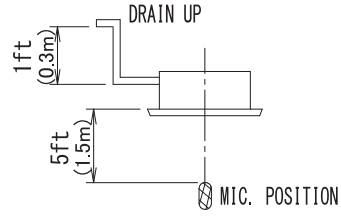
SCALE	H	M	L
A	42.0	37.0	32.0

(B.G.N IS ALREADY RECTIFIED)

OPERATING CONDITIONS

POWER SOURCE	208/230V 60Hz
COOLING	RETURN AIR TEMPERATURE: 80.0°F (26.7°C) DB, 67.0°F (19.4°C) WB OUTDOOR TEMPERATURE: 95.0°F (35.0°C) DB, 75.0°F (23.9°C) WB
HEATING	RETURN AIR TEMPERATURE: 70.0°F (21.1°C) DB, 60.0°F (15.6°C) WB OUTDOOR TEMPERATURE: 47.0°F (8.3°C) DB, 43.0°F (6.1°C) WB

LOCATION OF MICROPHONE



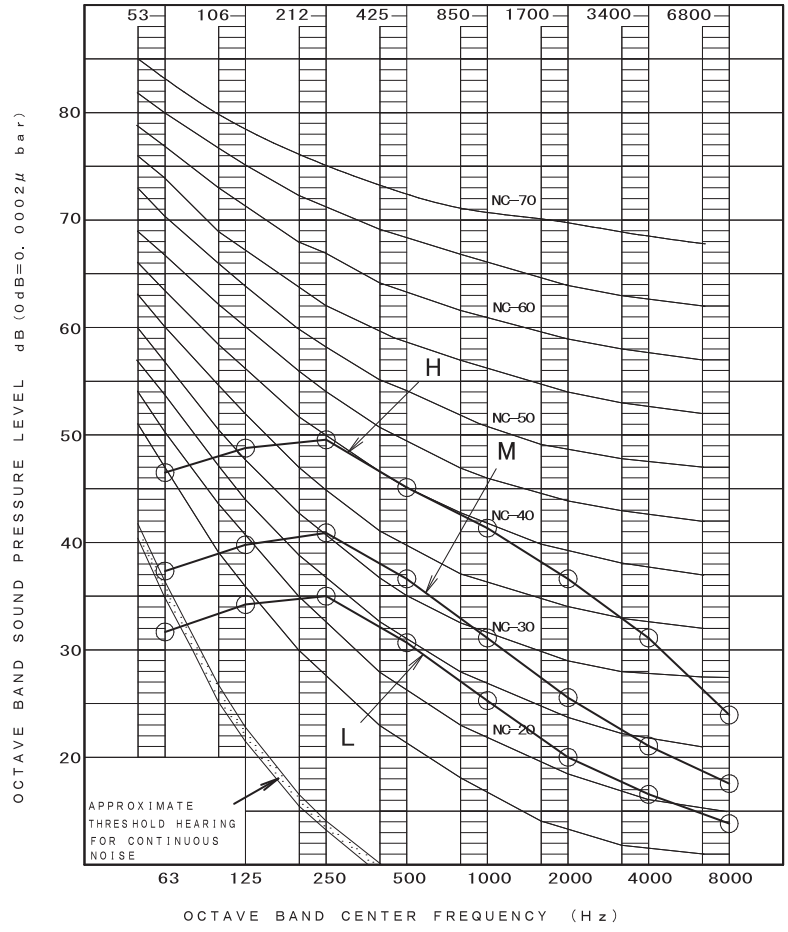
MEASURING PLACE

ANECHOIC CHAMBER

NOTE: OPERATION NOISE DIFFERS WITH OPERATION AND AMBIENT CONDITIONS.

4D140999

FCQ36AAVJU



OVER ALL (dB)

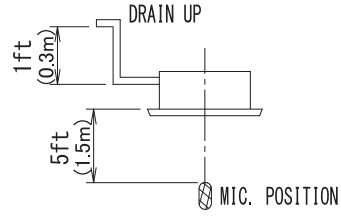
SCALE	H	M	L
A	47.0	38.0	32.0

(B.G.N IS ALREADY RECTIFIED)

OPERATING CONDITIONS

POWER SOURCE	208/230V 60Hz
COOLING	RETURN AIR TEMPERATURE: 80.0°F (26.7°C) DB, 67.0°F (19.4°C) WB OUTDOOR TEMPERATURE: 95.0°F (35.0°C) DB, 75.0°F (23.9°C) WB
HEATING	RETURN AIR TEMPERATURE: 70.0°F (21.1°C) DB, 60.0°F (15.6°C) WB OUTDOOR TEMPERATURE: 47.0°F (8.3°C) DB, 43.0°F (6.1°C) WB

LOCATION OF MICROPHONE



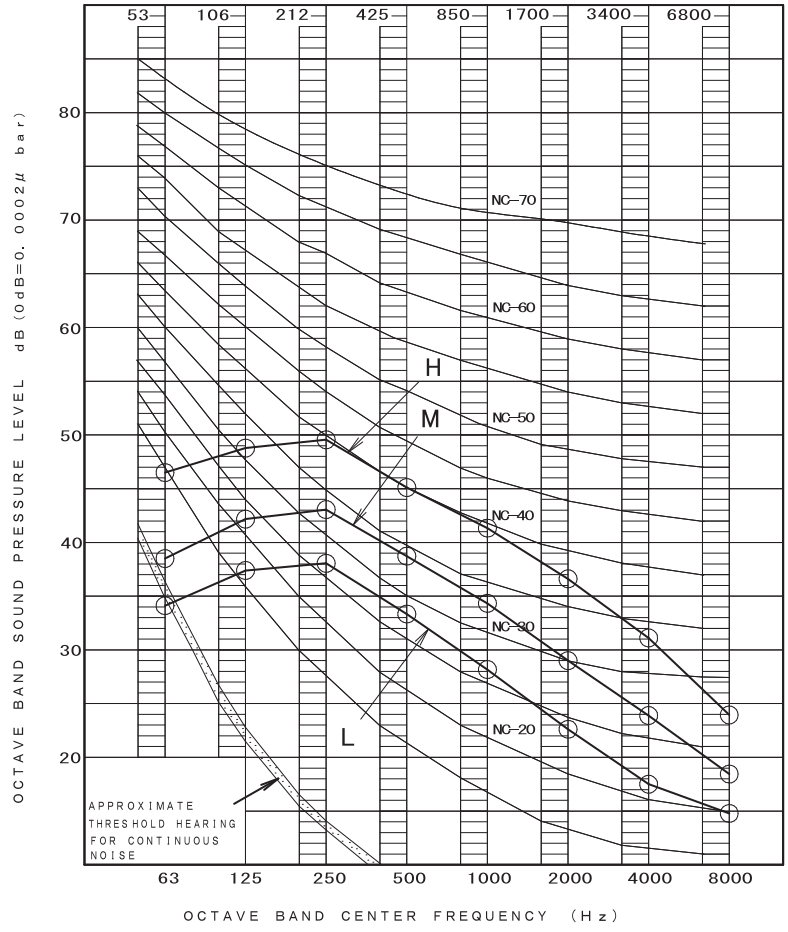
MEASURING PLACE

ANECHOIC CHAMBER

NOTE: OPERATION NOISE DIFFERS WITH OPERATION AND AMBIENT CONDITIONS.

4D141000

FCQ42 - 48AAVJU



OVER ALL (dB)

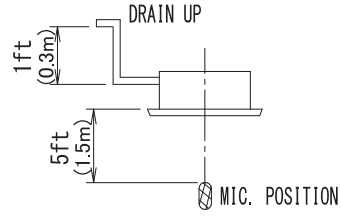
SCALE	H	M	L
A	47.0	40.0	35.0

(B.G.N IS ALREADY RECTIFIED)

OPERATING CONDITIONS

POWER SOURCE	208/230V 60Hz
COOLING	RETURN AIR TEMPERATURE: 80.0°F (26.7°C) DB, 67.0°F (19.4°C) WB OUTDOOR TEMPERATURE: 95.0°F (35.0°C) DB, 75.0°F (23.9°C) WB
HEATING	RETURN AIR TEMPERATURE: 70.0°F (21.1°C) DB, 60.0°F (15.6°C) WB OUTDOOR TEMPERATURE: 47.0°F (8.3°C) DB, 43.0°F (6.1°C) WB

LOCATION OF MICROPHONE



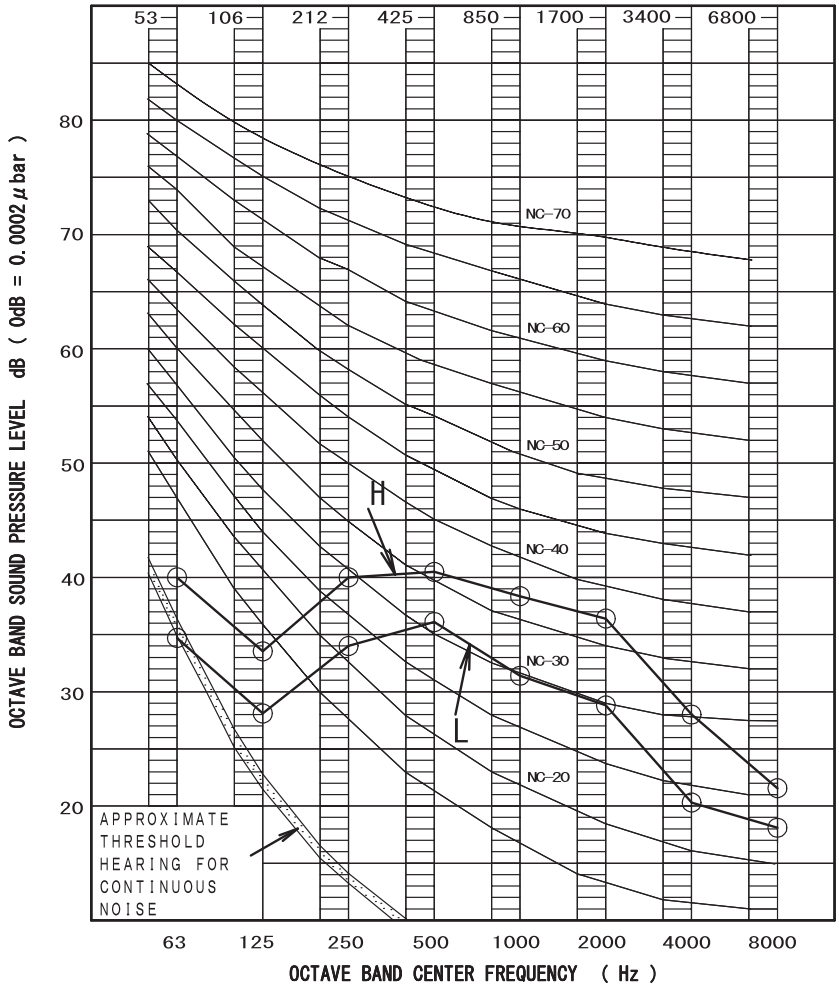
MEASURING PLACE

ANECHOIC CHAMBER

NOTE: OPERATION NOISE DIFFERS WITH OPERATION AND AMBIENT CONDITIONS.

4D141001

13.1.2 FAQ
FAQ18TAVJU



OVER ALL (dB)

SCALE	MODE	
	H	L
A	43.0	37.0

(B.G.N IS ALREADY RECTIFIED)

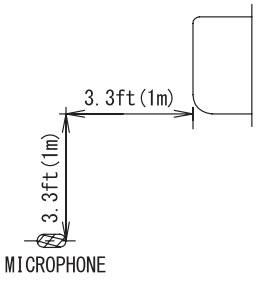
MEASURING PLACE
MEASURE IN ANECHOIC ROOM

OPERATING CONDITIONS

POWER SOURCE 208/230V, 60Hz

STANDARD CONDITION (JIS)

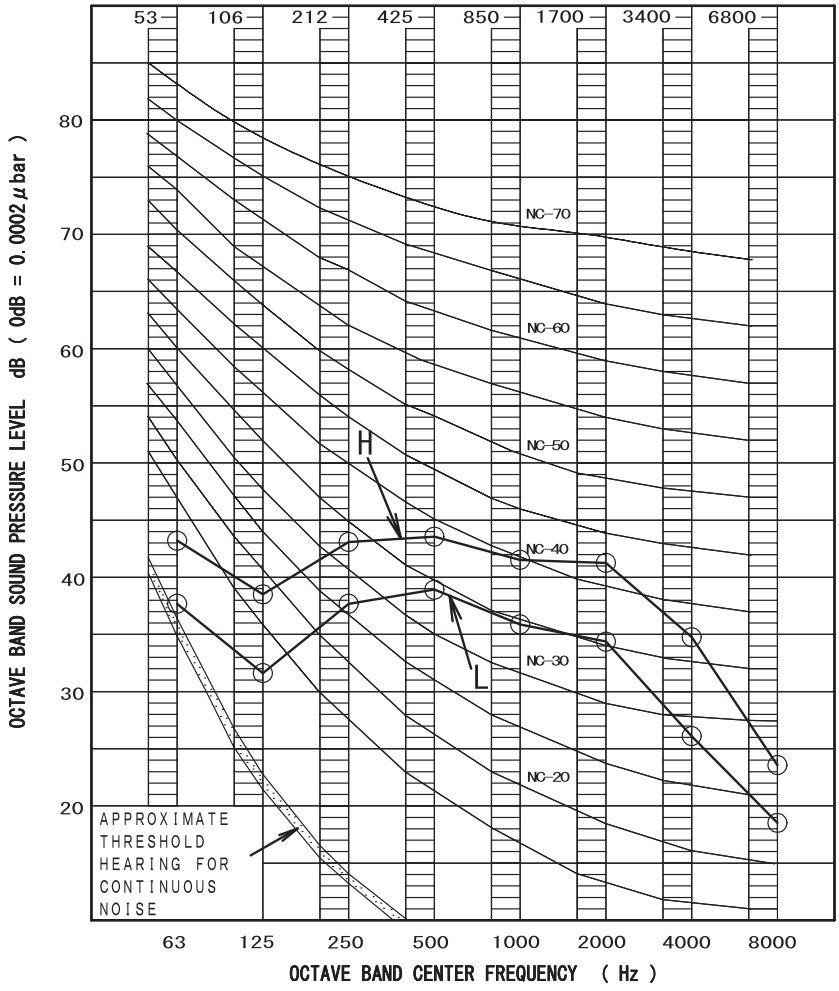
LOCATION OF MICROPHONE



NOTE: Operation noise differs with operation and ambient conditions.

4D075583A

FAQ24TAVJU



OVER ALL (dB)

SCALE	MODE	
	H	L
A	47.0	41.0

(B.G.N IS ALREADY RECTIFIED)

MEASURING PLACE

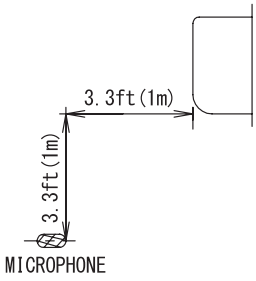
MEASURE IN ANECHOIC ROOM

OPERATING CONDITIONS

POWER SOURCE 208/230V, 60Hz

STANDARD CONDITION (JIS)

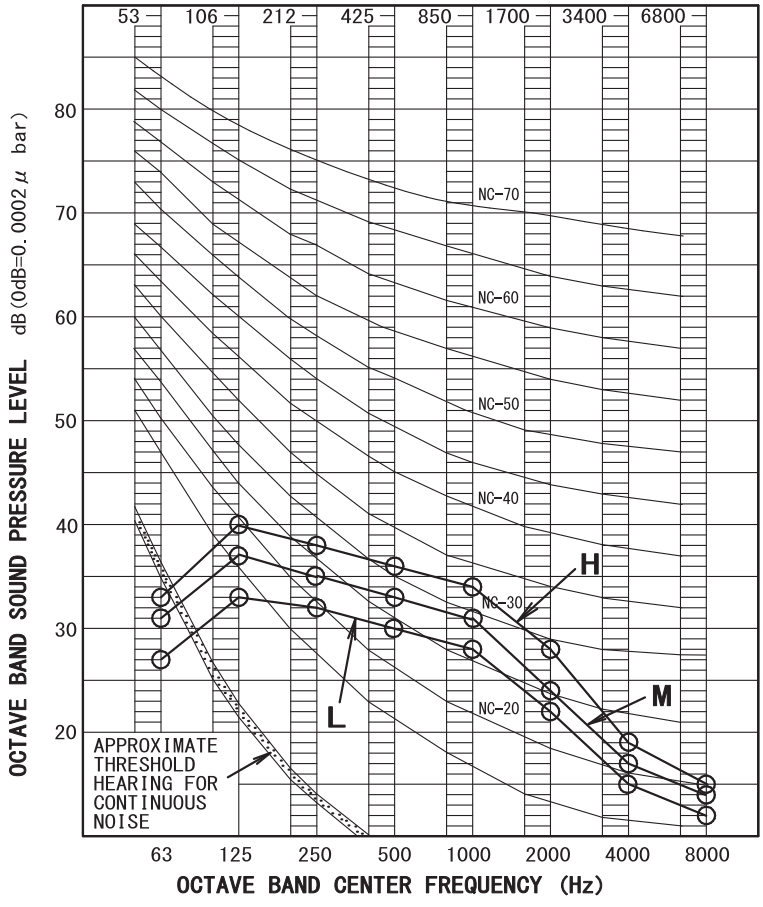
LOCATION OF MICROPHONE



NOTE: Operation noise differs with operation and ambient conditions.

4D075584A

13.1.3 FBQ
FBQ18TBVJU



OVER ALL (dB)

SCALE	AIRFLOW RATE		
	H	M	L
A	38.0	35.0	32.0

(B.G.N IS ALREADY RECTIFIED)

MEASURING PLACE

ANECHOIC CHAMBER

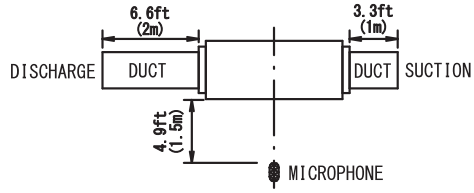
OPERATING CONDITIONS

POWER SOURCE 208 / 230V 60Hz

COOLING
RETURN AIR TEMPERATURE: 80.0° F(26.7℃)DB, 67.0° F(19.4℃)WB
OUTDOOR TEMPERATURE : 95.0° F(35.0℃)DB, 75.0° F(23.9℃)WB

HEATING
RETURN AIR TEMPERATURE: 70.0° F(21.1℃)DB, 60.0° F(15.6℃)WB
OUTDOOR TEMPERATURE : 47.0° F(8.3℃)DB, 43.0° F(6.1℃)WB

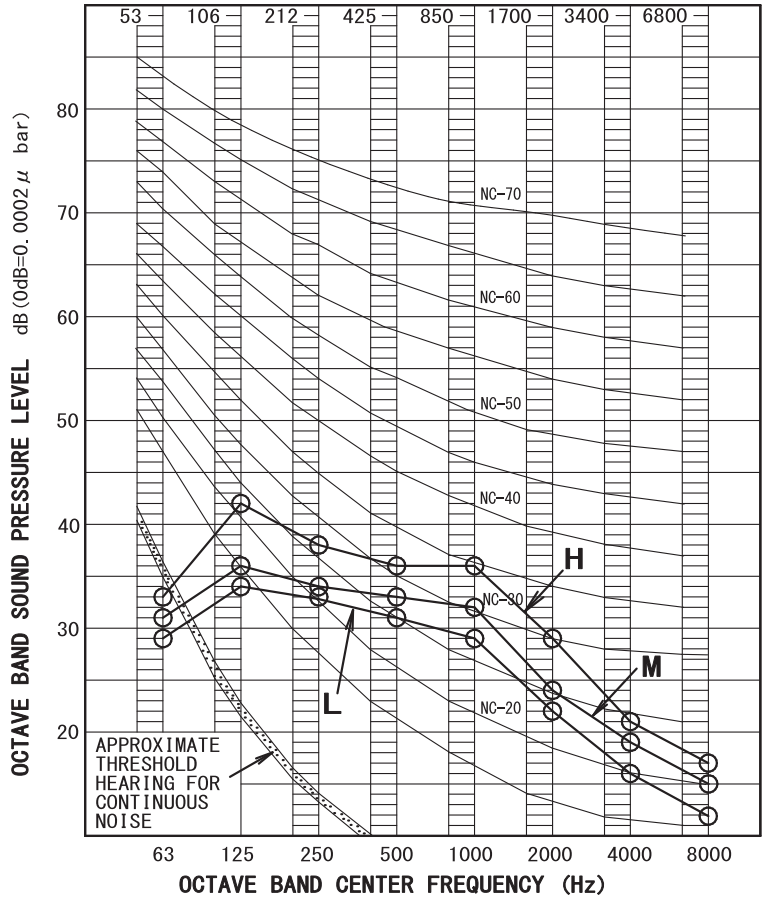
EXTERNAL STATIC PRESSURE 0.4in.WG(100Pa)



NOTE: OPERATION NOISE DIFFERS WITH OPERATION AND AMBIENT CONDITIONS.

4D143354

FBQ24TBVJU



OVER ALL (dB)

SCALE	AIRFLOW RATE		
	H	M	L
A	39.0	35.0	33.0

(B.G.N IS ALREADY RECTIFIED)

MEASURING PLACE

ANECHOIC CHAMBER

OPERATING CONDITIONS

POWER SOURCE 208 / 230V 60Hz

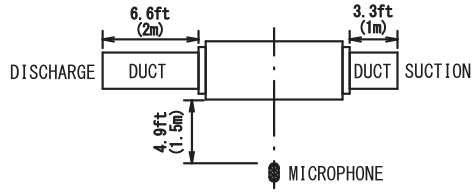
COOLING

RETURN AIR TEMPERATURE: 80.0° F(26.7℃)DB, 67.0° F(19.4℃)WB
OUTDOOR TEMPERATURE : 95.0° F(35.0℃)DB, 75.0° F(23.9℃)WB

HEATING

RETURN AIR TEMPERATURE: 70.0° F(21.1℃)DB, 60.0° F(15.6℃)WB
OUTDOOR TEMPERATURE : 47.0° F(8.3℃)DB, 43.0° F(6.1℃)WB

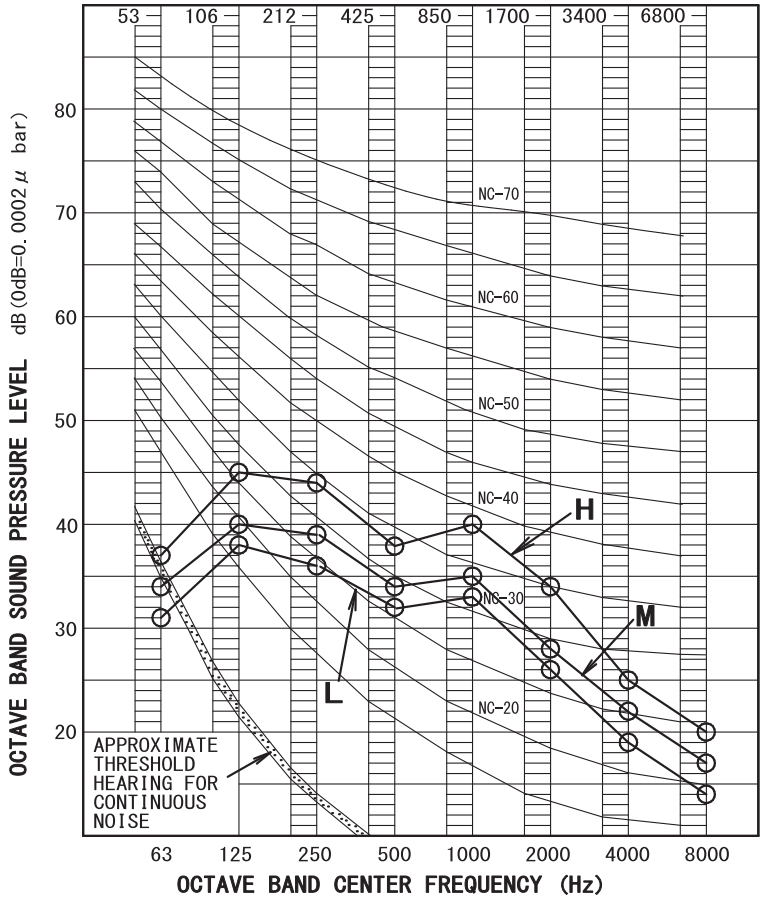
EXTERNAL STATIC PRESSURE 0.4in.WG(100Pa)



NOTE: OPERATION NOISE DIFFERS WITH OPERATION AND AMBIENT CONDITIONS.

4D143355

FBQ30TBVJU



OVER ALL (dB)

SCALE	AIRFLOW RATE		
	H	M	L
A	43.0	38.0	36.0

(B.G.N IS ALREADY RECTIFIED)

MEASURING PLACE

ANECHOIC CHAMBER

OPERATING CONDITIONS

POWER SOURCE 208 / 230V 60Hz

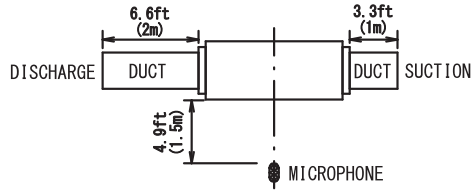
COOLING

RETURN AIR TEMPERATURE: 80.0° F(26.7℃)DB, 67.0° F(19.4℃)WB
OUTDOOR TEMPERATURE : 95.0° F(35.0℃)DB, 75.0° F(23.9℃)WB

HEATING

RETURN AIR TEMPERATURE: 70.0° F(21.1℃)DB, 60.0° F(15.6℃)WB
OUTDOOR TEMPERATURE : 47.0° F(8.3℃)DB, 43.0° F(6.1℃)WB

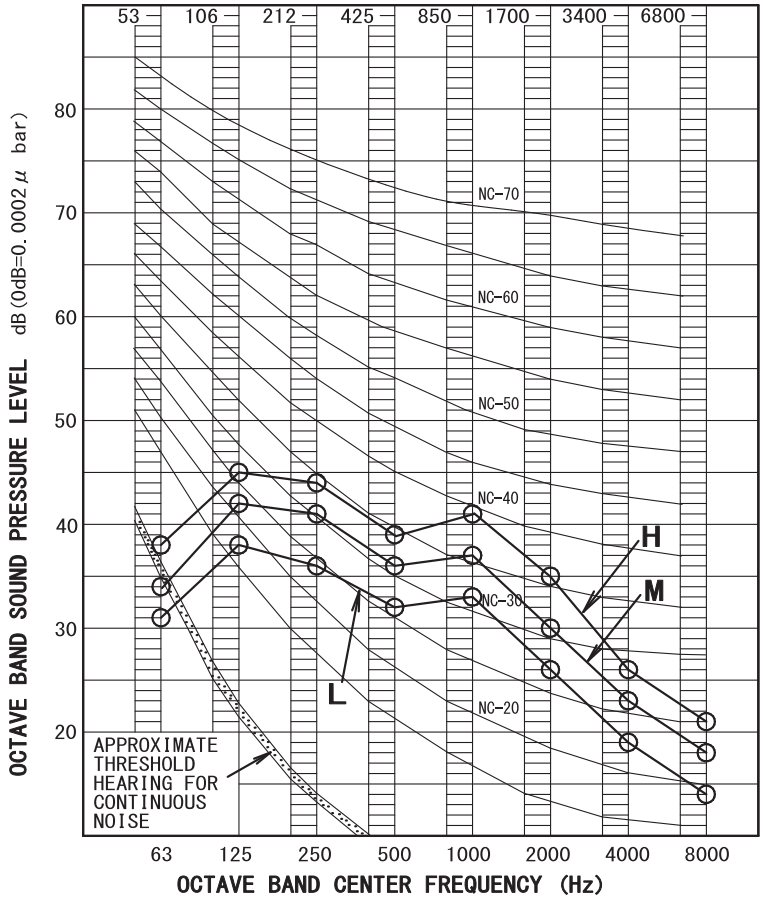
EXTERNAL STATIC PRESSURE 0.4in.WG(100Pa)



NOTE: OPERATION NOISE DIFFERS WITH OPERATION AND AMBIENT CONDITIONS.

4D143356

FBQ36TBVJU



OVER ALL (dB)

SCALE	AIRFLOW RATE		
	H	M	L
A	44.0	40.0	36.0

(B.G.N IS ALREADY RECTIFIED)

MEASURING PLACE

ANECHOIC CHAMBER

OPERATING CONDITIONS

POWER SOURCE 208 / 230V 60Hz

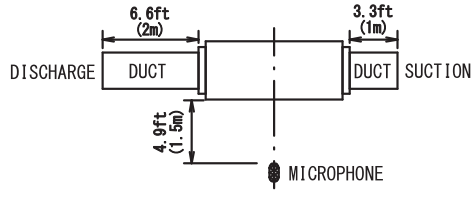
COOLING

RETURN AIR TEMPERATURE: 80.0° F(26.7°C)DB, 67.0° F(19.4°C)WB
OUTDOOR TEMPERATURE : 95.0° F(35.0°C)DB, 75.0° F(23.9°C)WB

HEATING

RETURN AIR TEMPERATURE: 70.0° F(21.1°C)DB, 60.0° F(15.6°C)WB
OUTDOOR TEMPERATURE : 47.0° F(8.3°C)DB, 43.0° F(6.1°C)WB

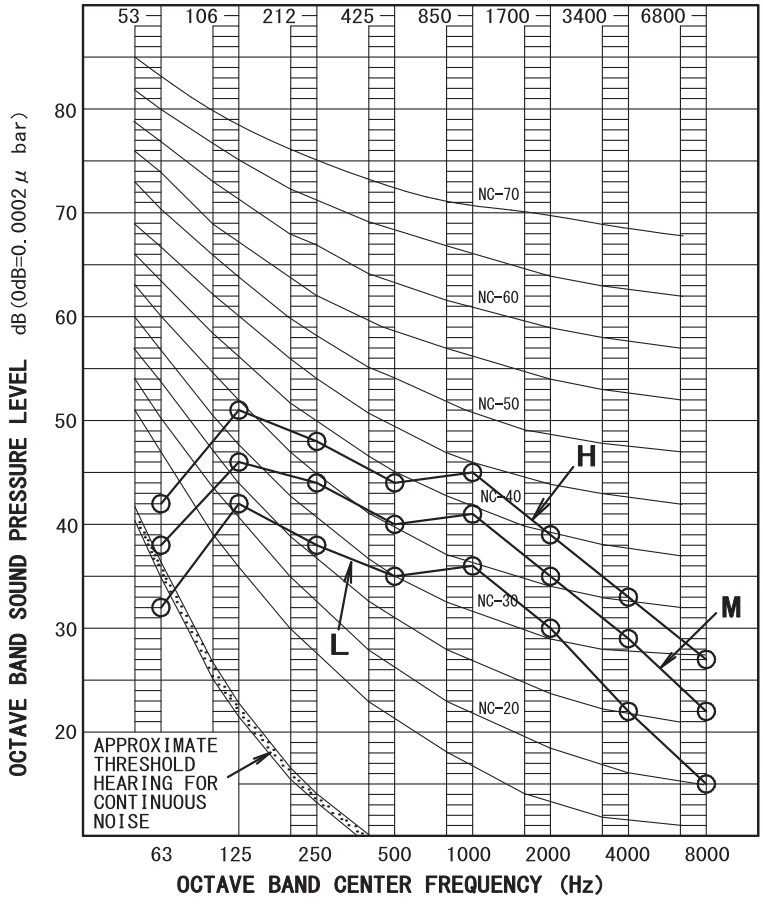
EXTERNAL STATIC PRESSURE 0.4in.WG(100Pa)



NOTE: OPERATION NOISE DIFFERS WITH OPERATION AND AMBIENT CONDITIONS.

4D143357

FBQ42TBVJU



OVER ALL (dB)

SCALE	AIRFLOW RATE		
	H	M	L
A	48.0	44.0	39.0

(B.G.N IS ALREADY RECTIFIED)

MEASURING PLACE

ANECHOIC CHAMBER

OPERATING CONDITIONS

POWER SOURCE 208 / 230V 60Hz

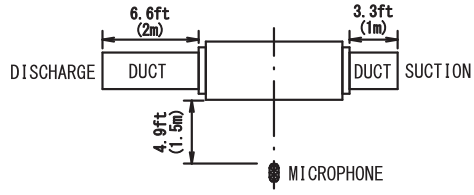
COOLING

RETURN AIR TEMPERATURE: 80.0° F(26.7°C)DB, 67.0° F(19.4°C)WB
OUTDOOR TEMPERATURE : 95.0° F(35.0°C)DB, 75.0° F(23.9°C)WB

HEATING

RETURN AIR TEMPERATURE: 70.0° F(21.1°C)DB, 60.0° F(15.6°C)WB
OUTDOOR TEMPERATURE : 47.0° F(8.3°C)DB, 43.0° F(6.1°C)WB

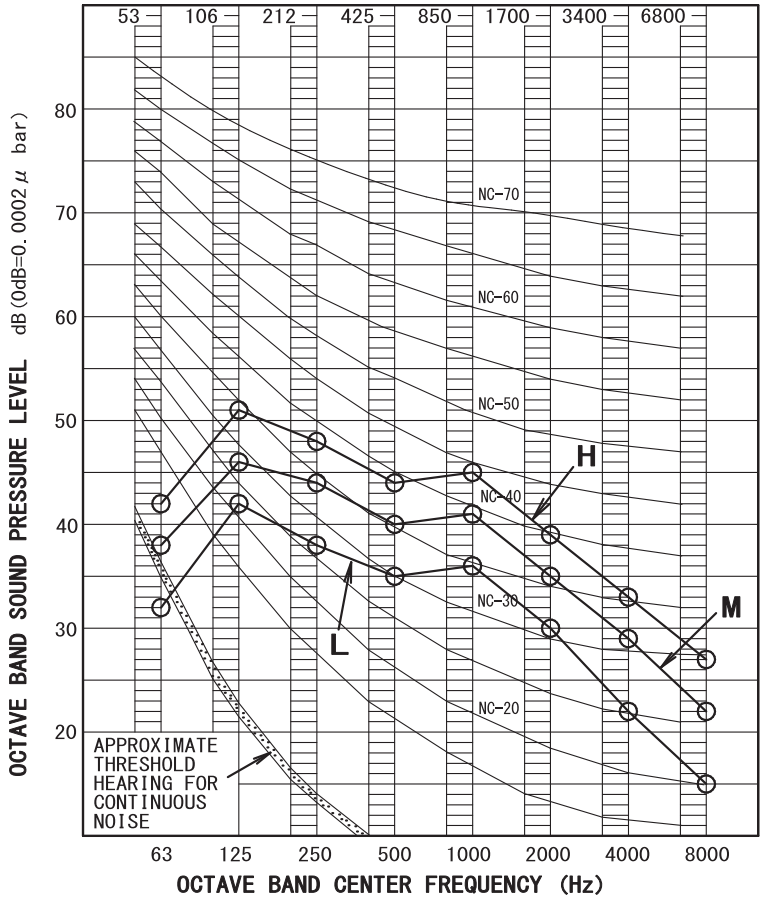
EXTERNAL STATIC PRESSURE 0.4in.WG(100Pa)



NOTE: OPERATION NOISE DIFFERS WITH OPERATION AND AMBIENT CONDITIONS.

4D143359

FBQ48TBVJU



OVER ALL (dB)

SCALE	AIRFLOW RATE		
	H	M	L
A	48.0	44.0	39.0

(B.G.N IS ALREADY RECTIFIED)

MEASURING PLACE

ANECHOIC CHAMBER

OPERATING CONDITIONS

POWER SOURCE 208 / 230V 60Hz

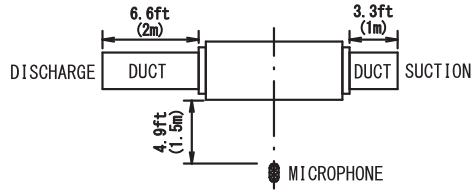
COOLING

RETURN AIR TEMPERATURE: 80.0° F(26.7°C)DB, 67.0° F(19.4°C)WB
OUTDOOR TEMPERATURE : 95.0° F(35.0°C)DB, 75.0° F(23.9°C)WB

HEATING

RETURN AIR TEMPERATURE: 70.0° F(21.1°C)DB, 60.0° F(15.6°C)WB
OUTDOOR TEMPERATURE : 47.0° F(8.3°C)DB, 43.0° F(6.1°C)WB

EXTERNAL STATIC PRESSURE 0.4in.WG(100Pa)



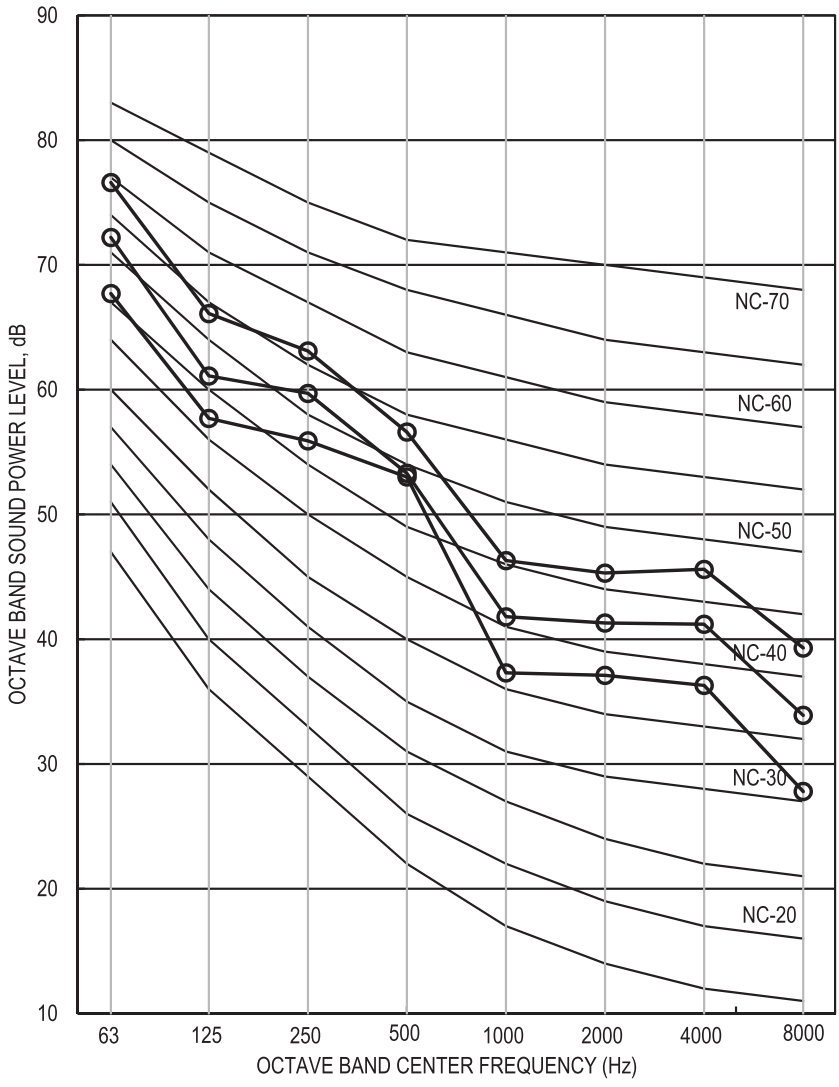
NOTE: OPERATION NOISE DIFFERS WITH OPERATION AND AMBIENT CONDITIONS.

4D143360

13.1.4 FTQ
FTQ18TBVJUD
FTQ18TBVJUA

Sound levels tested in accordance with AHRI 260.

Ducted Inlet



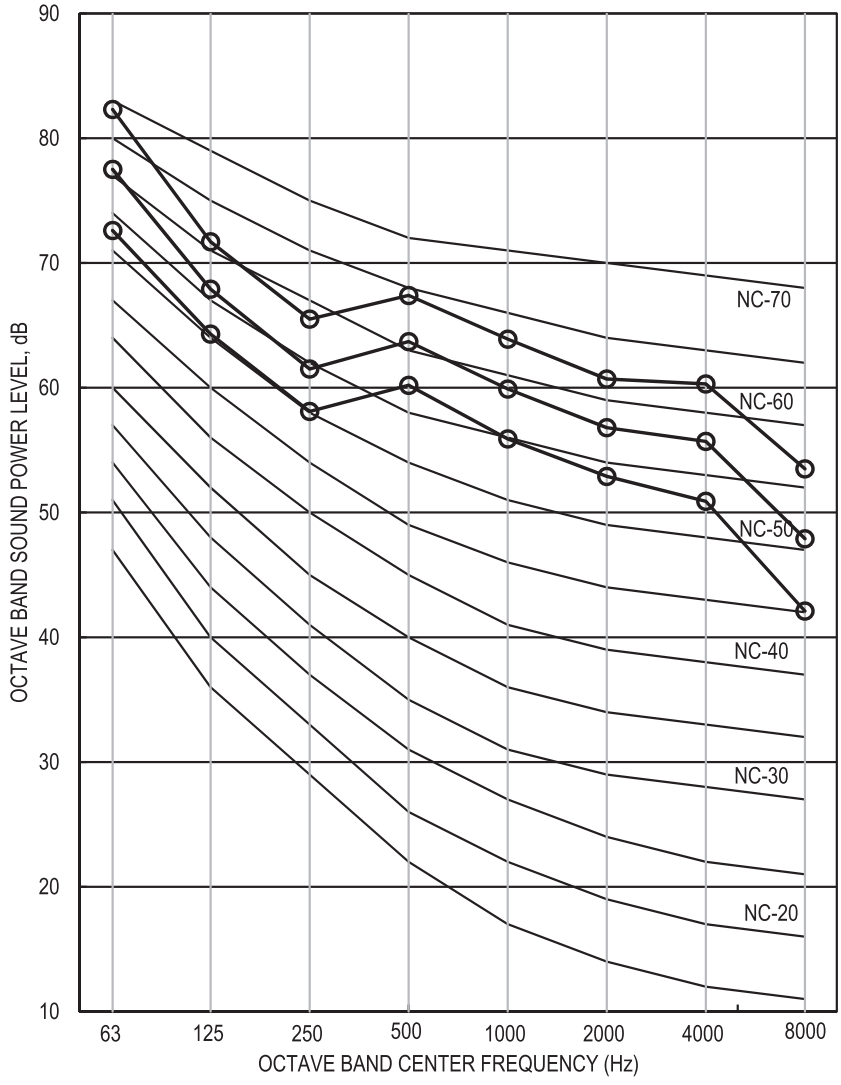
OVER ALL (dB)

TYPE	SCALE	H	M	L
Sound Power (Lw)	A	59	55.2	51.3
Sound Pressure (Lp)	A	50.7	46.8	44.1

FTQ18TBVJUD
FTQ18TBVJUA

Sound levels tested in accordance with AHRI 260.

Ducted Discharge



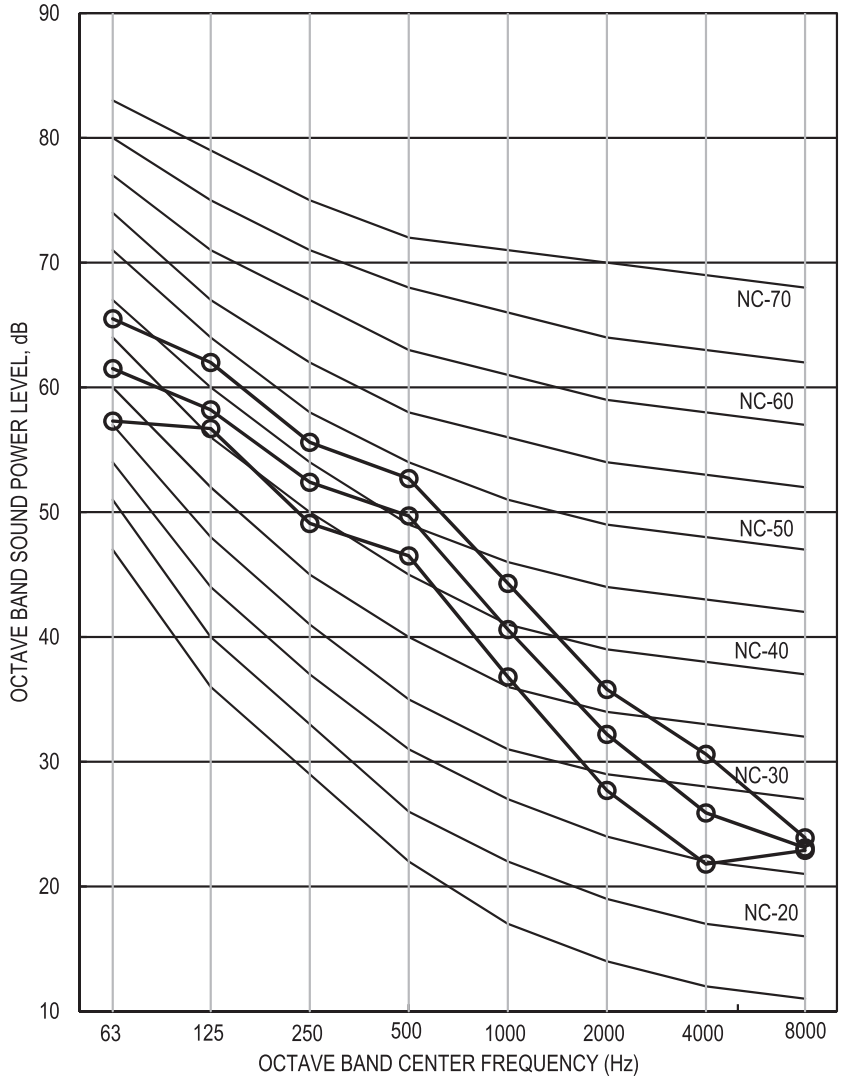
OVER ALL (dB)

TYPE	SCALE	H	M	L
Sound Power (Lw)	A	69.6	65.6	61.7
Sound Pressure (Lp)	A	59.9	55.9	52

FTQ18TBVJUD
FTQ18TBVJUA

Sound levels tested in accordance with AHRI 260.

Casing Radiated



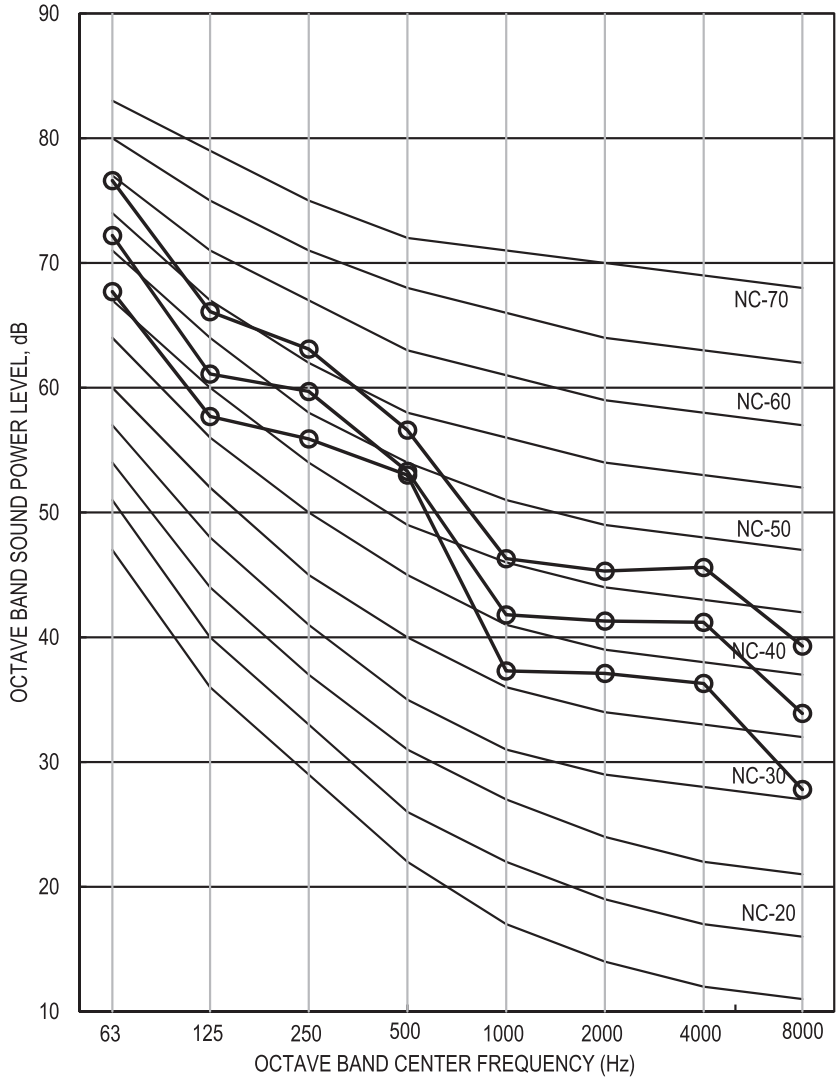
OVER ALL (dB)

TYPE	SCALE	H	M	L
Sound Power (Lw)	A	53.2	49.8	46.6
Sound Pressure (Lp)	A	44.6	41.3	38.4

FTQ24TBVJUD
FTQ24TBVJUA

Sound levels tested in accordance with AHRI 260.

Ducted Inlet



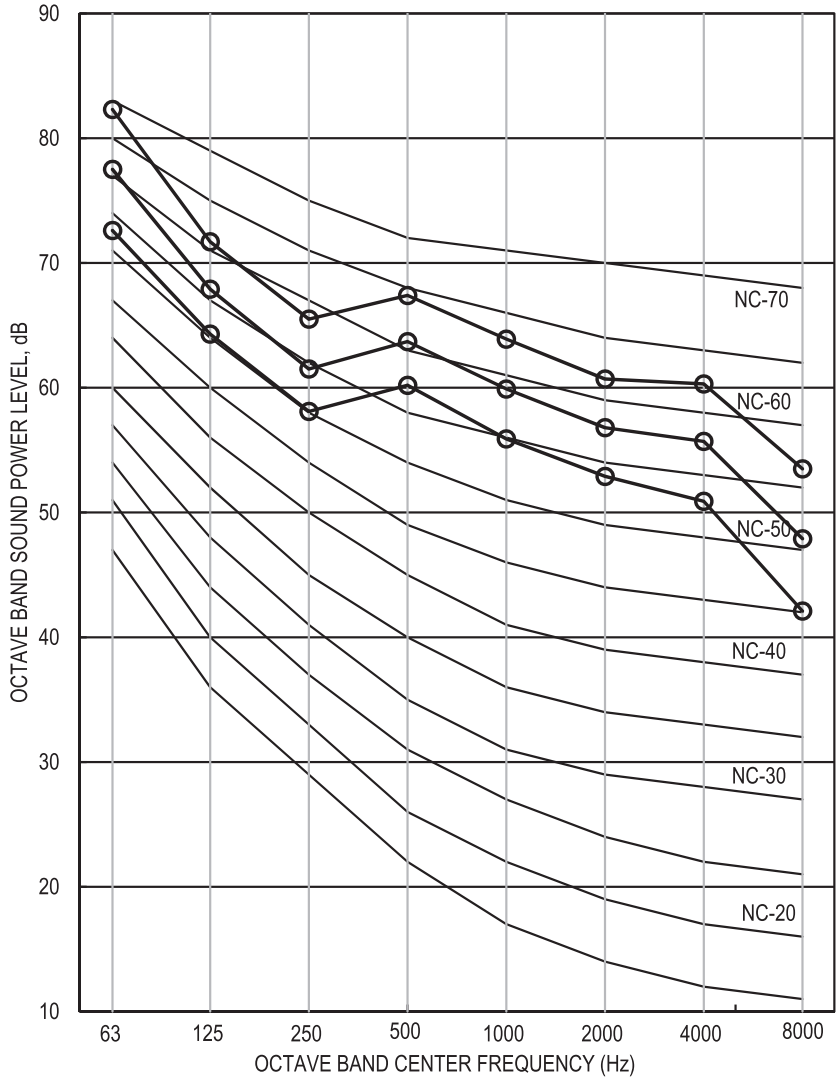
OVER ALL (dB)

TYPE	SCALE	H	M	L
Sound Power (Lw)	A	59	55.2	51.3
Sound Pressure (Lp)	A	50.7	46.8	44.1

FTQ24TBVJUD
FTQ24TBVJUA

Sound levels tested in accordance with AHRI 260.

Ducted Discharge



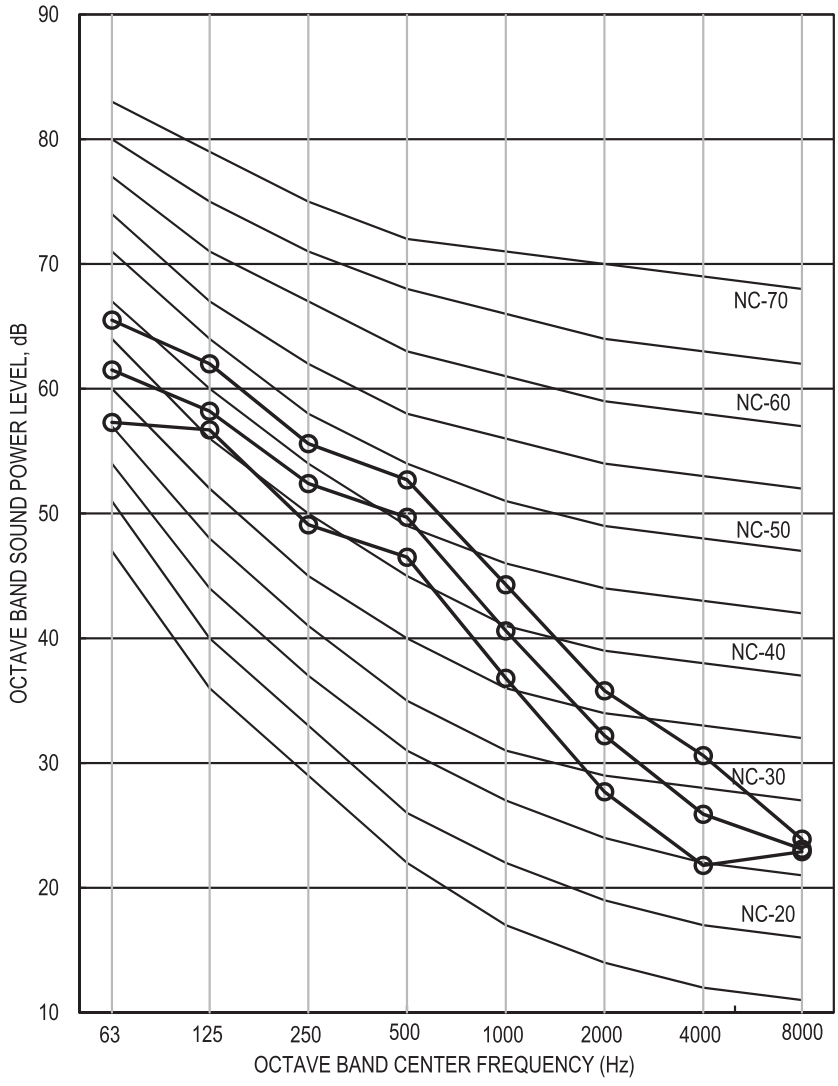
OVER ALL (dB)

TYPE	SCALE	H	M	L
Sound Power (Lw)	A	69.6	65.6	61.7
Sound Pressure (Lp)	A	59.9	55.9	52

FTQ24TBVJUD
FTQ24TBVJUA

Sound levels tested in accordance with AHRI 260.

Casing Radiated



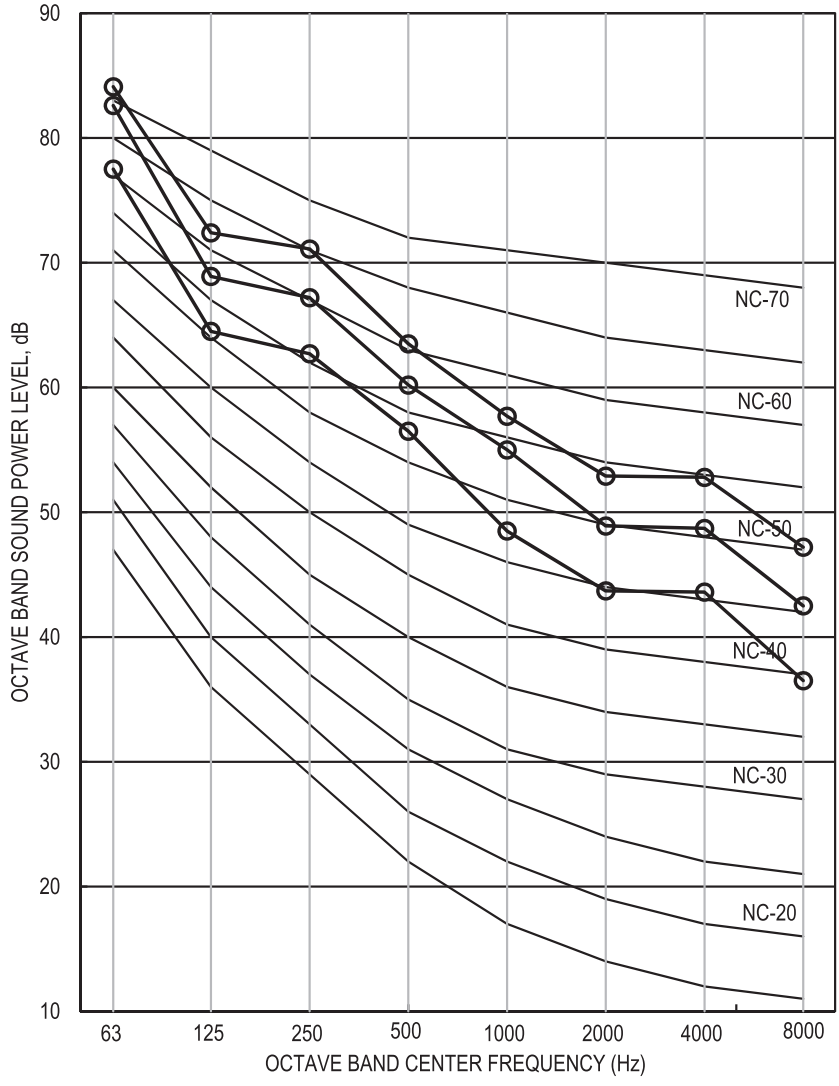
OVER ALL (dB)

TYPE	SCALE	H	M	L
Sound Power (Lw)	A	53.2	49.8	46.6
Sound Pressure (Lp)	A	44.6	41.3	38.4

FTQ30TBVJUD
FTQ30TBVJUA

Sound levels tested in accordance with AHRI 260.

Ducted Inlet



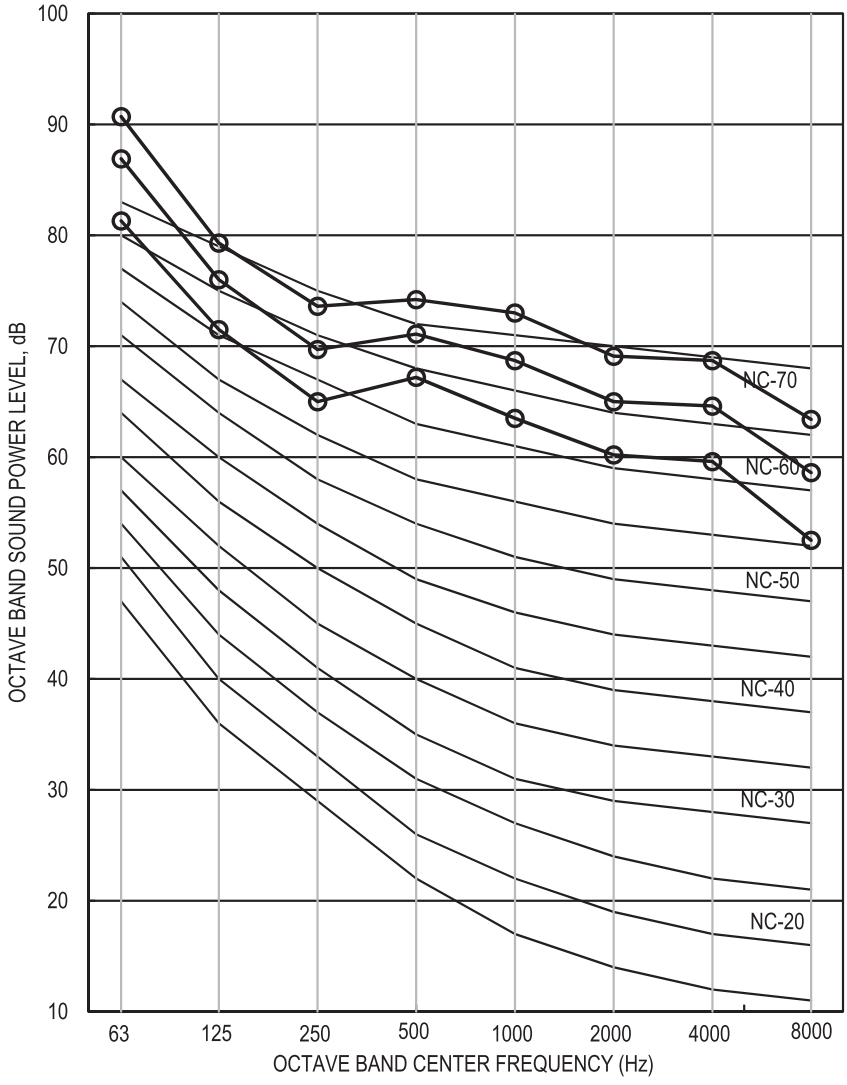
OVER ALL (dB)

TYPE	SCALE	H	M	L
Sound Power (Lw)	A	66.6	63.2	58.5
Sound Pressure (Lp)	A	58.3	55.2	50.6

FTQ30TBVJUD
FTQ30TBVJUA

Sound levels tested in accordance with AHRI 260.

Ducted Discharge



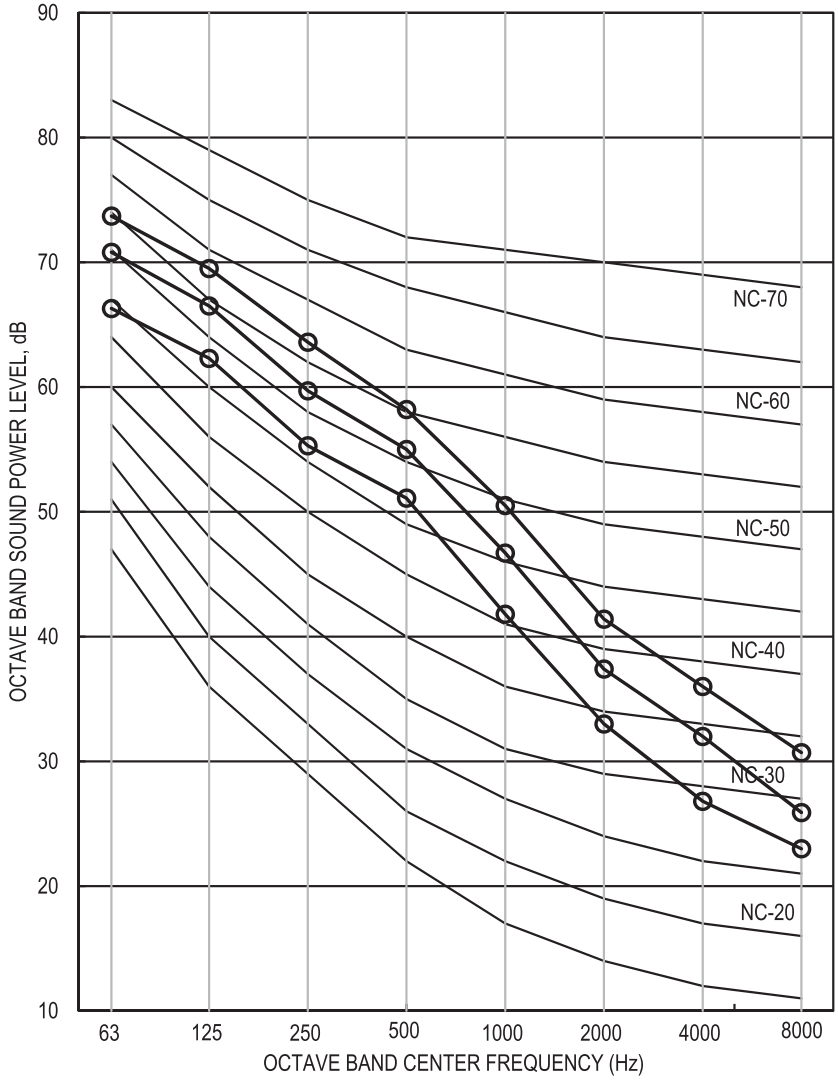
OVER ALL (dB)

TYPE	SCALE	H	M	L
Sound Power (Lw)	A	77.8	73.9	69.3
Sound Pressure (Lp)	A	68	64.1	59.5

FTQ30TBVJUD
FTQ30TBVJUA

Sound levels tested in accordance with AHRI 260.

Casing Radiated



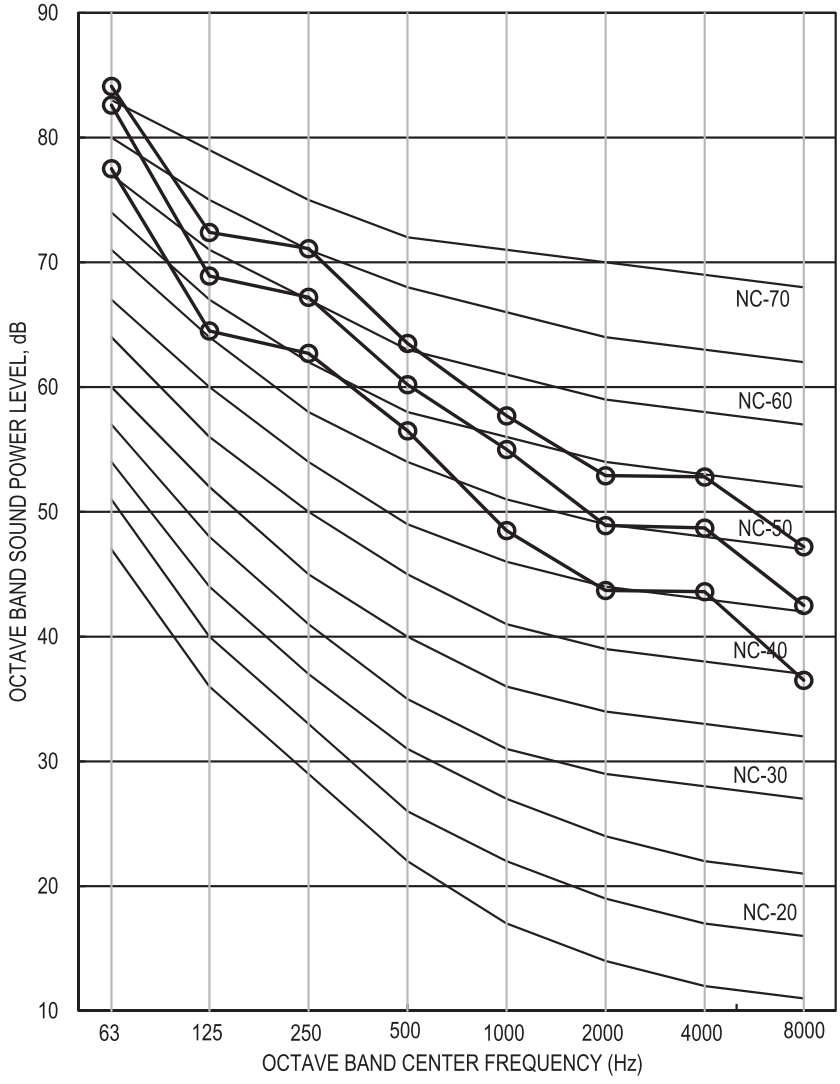
OVER ALL (dB)

TYPE	SCALE	H	M	L
Sound Power (Lw)	A	59.8	56.3	52.1
Sound Pressure (Lp)	A	51.6	48.2	44

FTQ36TBVJUD
FTQ36TBVJUA

Sound levels tested in accordance with AHRI 260.

Ducted Inlet



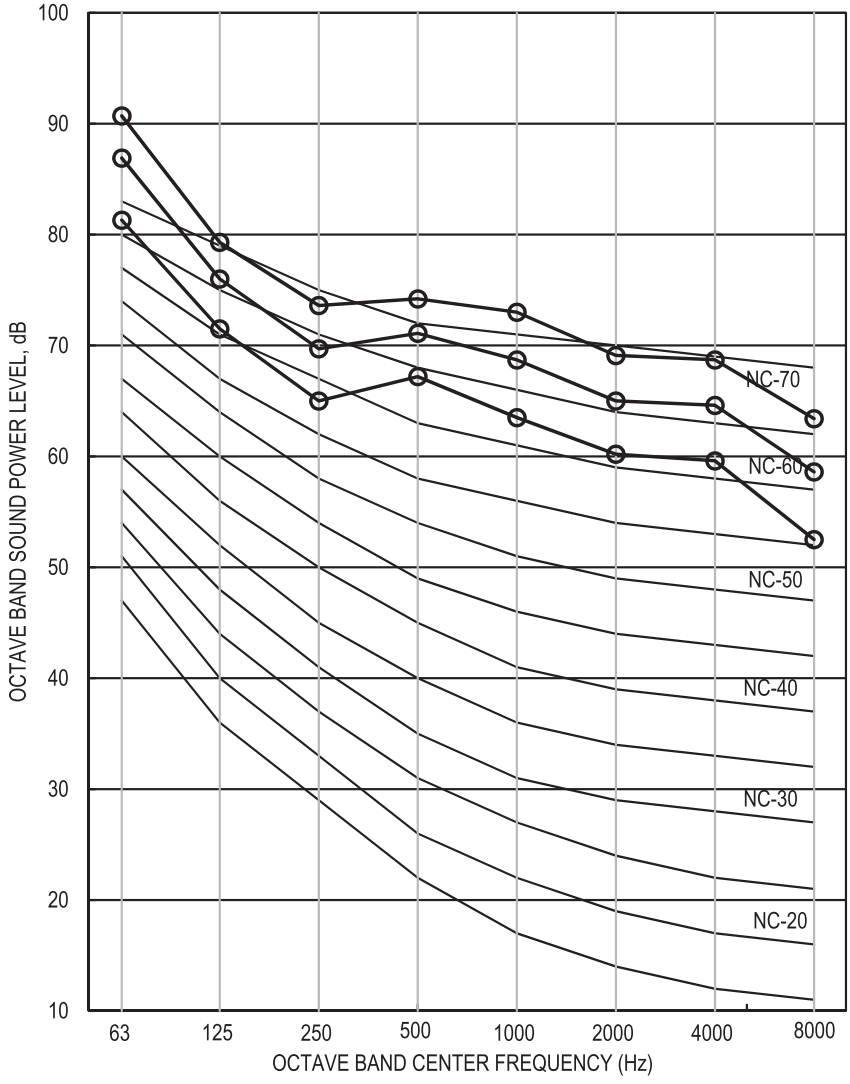
OVER ALL (dB)

TYPE	SCALE	H	M	L
Sound Power (Lw)	A	66.6	63.2	58.5
Sound Pressure (Lp)	A	58.3	55.2	50.6

FTQ36TBVJUD
FTQ36TBVJUA

Sound levels tested in accordance with AHRI 260.

Ducted Discharge



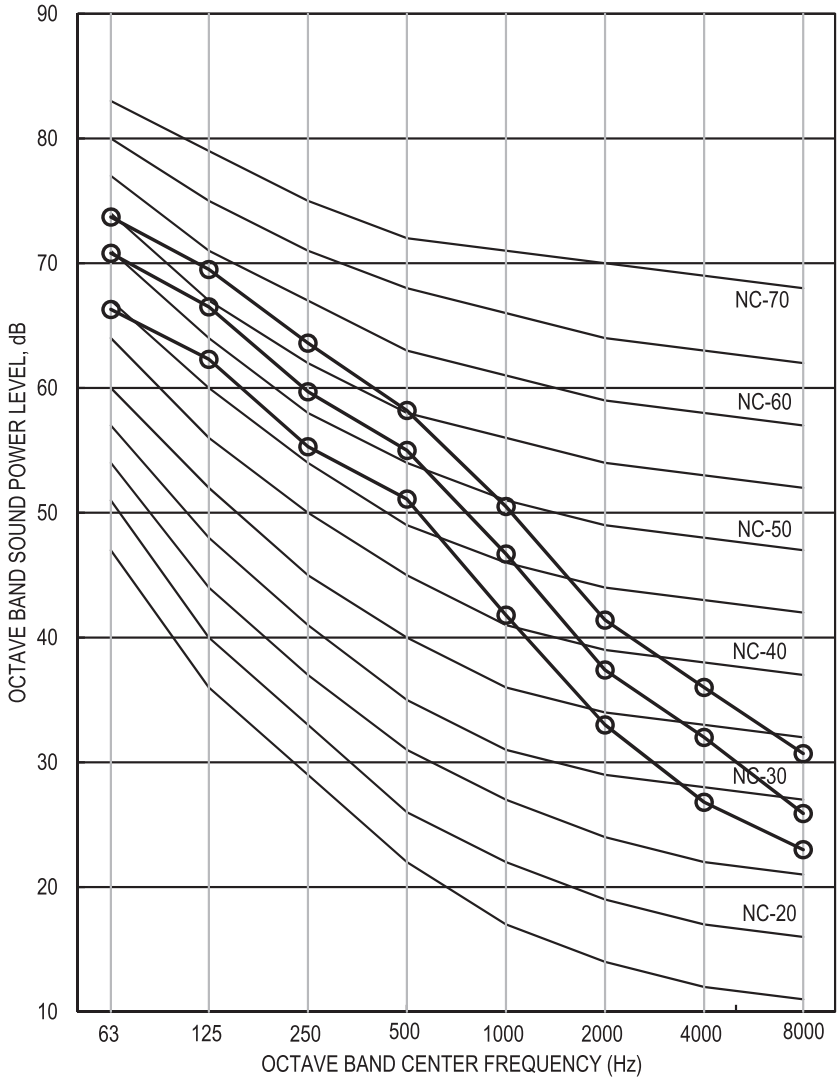
OVER ALL (dB)

TYPE	SCALE	H	M	L
Sound Power (Lw)	A	77.8	73.9	69.3
Sound Pressure (Lp)	A	68	64.1	59.5

FTQ36TBVJUD
FTQ36TBVJUA

Sound levels tested in accordance with AHRI 260.

Casing Radiated



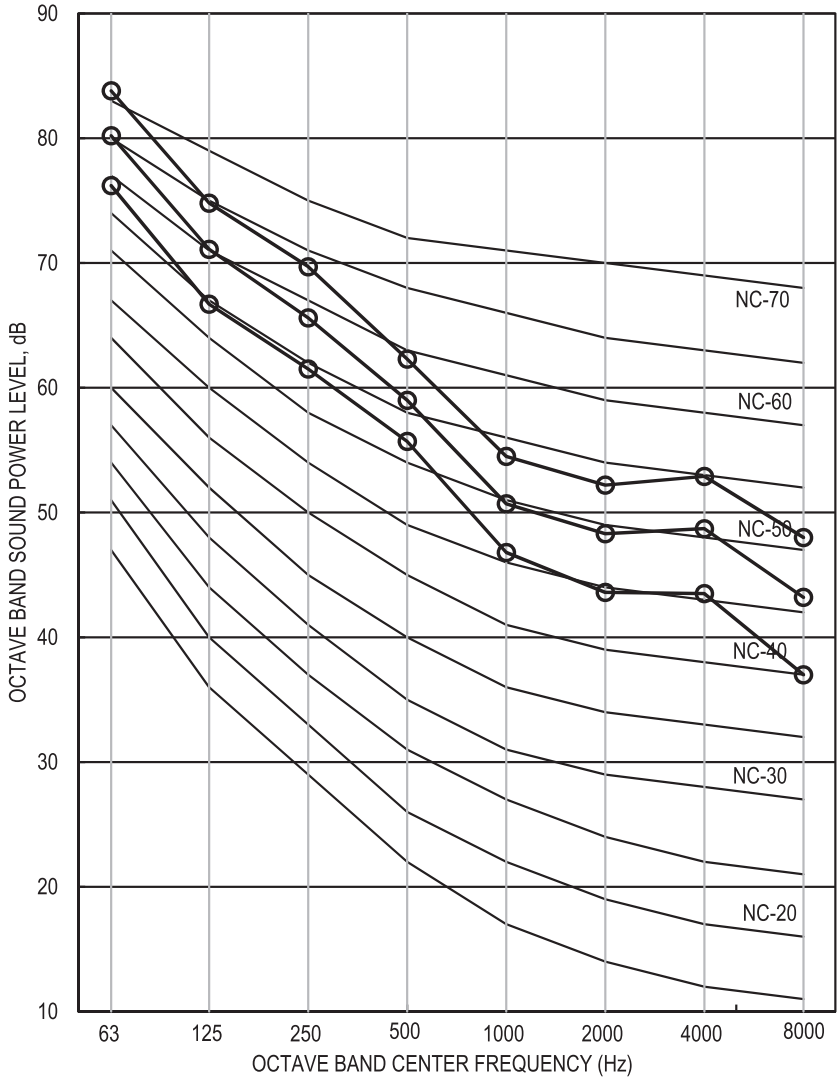
OVER ALL (dB)

TYPE	SCALE	H	M	L
Sound Power (Lw)	A	59.8	56.3	52.1
Sound Pressure (Lp)	A	51.6	48.2	44

FTQ42TBVJUD
FTQ42TBVJUA

Sound levels tested in accordance with AHRI 260.

Ducted Inlet



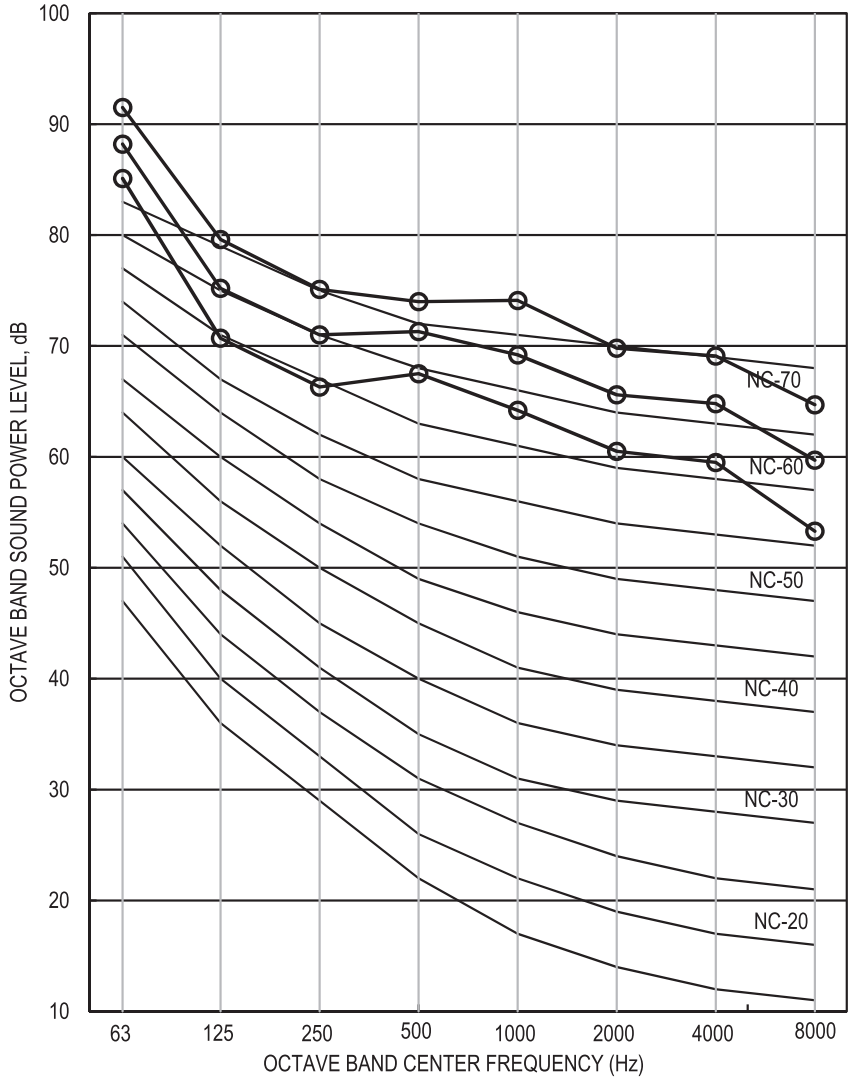
OVER ALL (dB)

TYPE	SCALE	H	M	L
Sound Power (Lw)	A	65.7	61.9	57.9
Sound Pressure (Lp)	A	57.7	54	50

FTQ42TBVJUD
FTQ42TBVJUA

Sound levels tested in accordance with AHRI 260.

Ducted Discharge



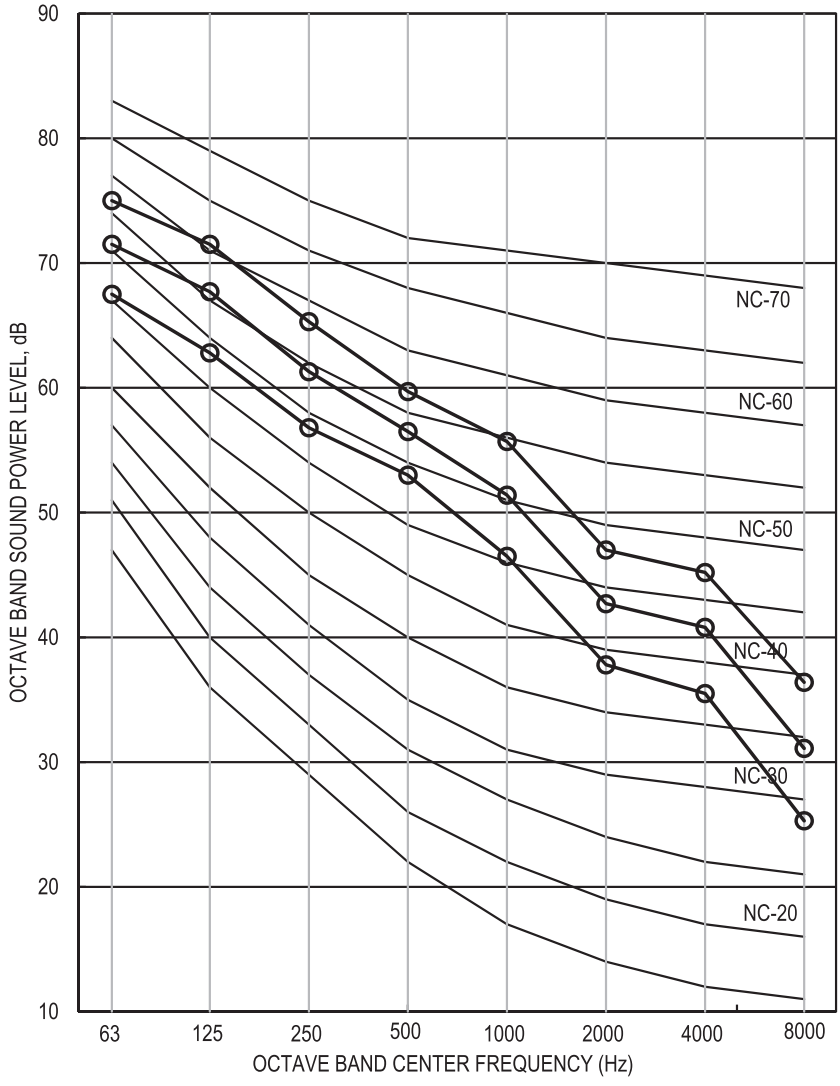
OVER ALL (dB)

TYPE	SCALE	H	M	L
Sound Power (Lw)	A	78.4	74.3	69.5
Sound Pressure (Lp)	A	68.6	64.6	60.2

FTQ42TBVJUD
FTQ42TBVJUA

Sound levels tested in accordance with AHRI 260.

Casing Radiated



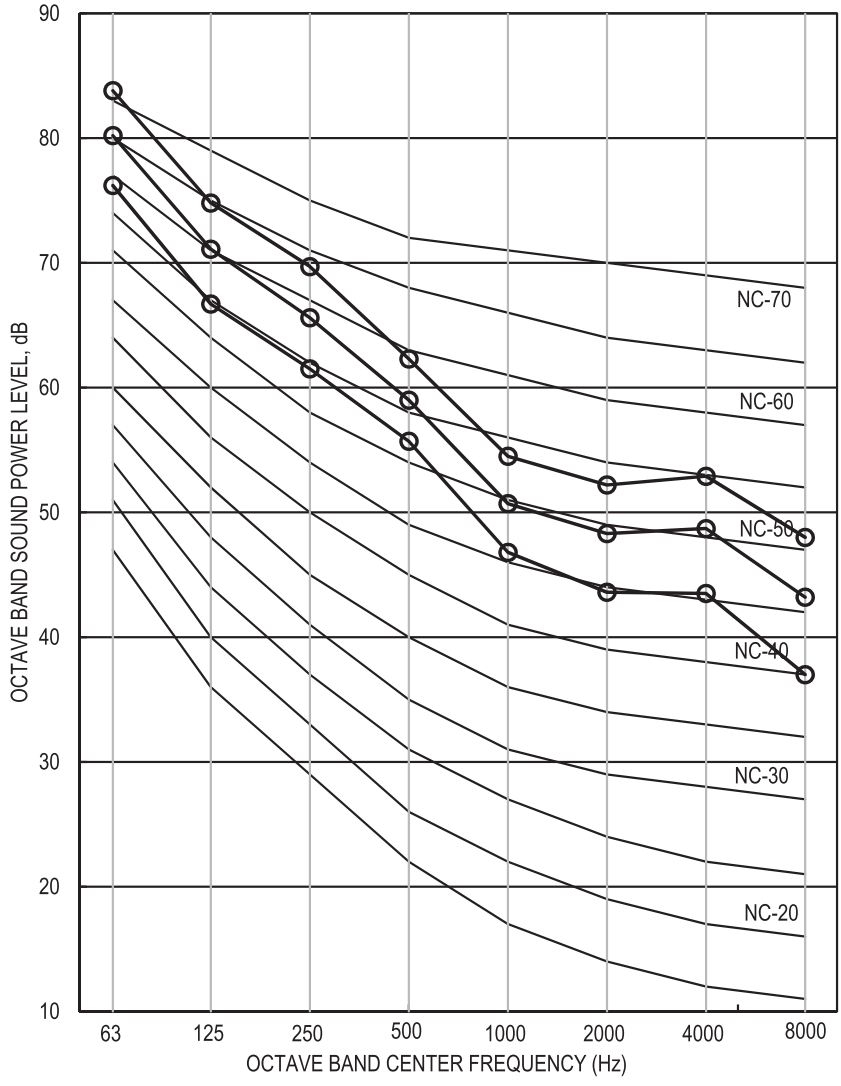
OVER ALL (dB)

TYPE	SCALE	H	M	L
Sound Power (Lw)	A	62.2	58.5	54.2
Sound Pressure (Lp)	A	53.8	50	45.6

FTQ48TBVJUD
FTQ48TBVJUA

Sound levels tested in accordance with AHRI 260.

Ducted Inlet



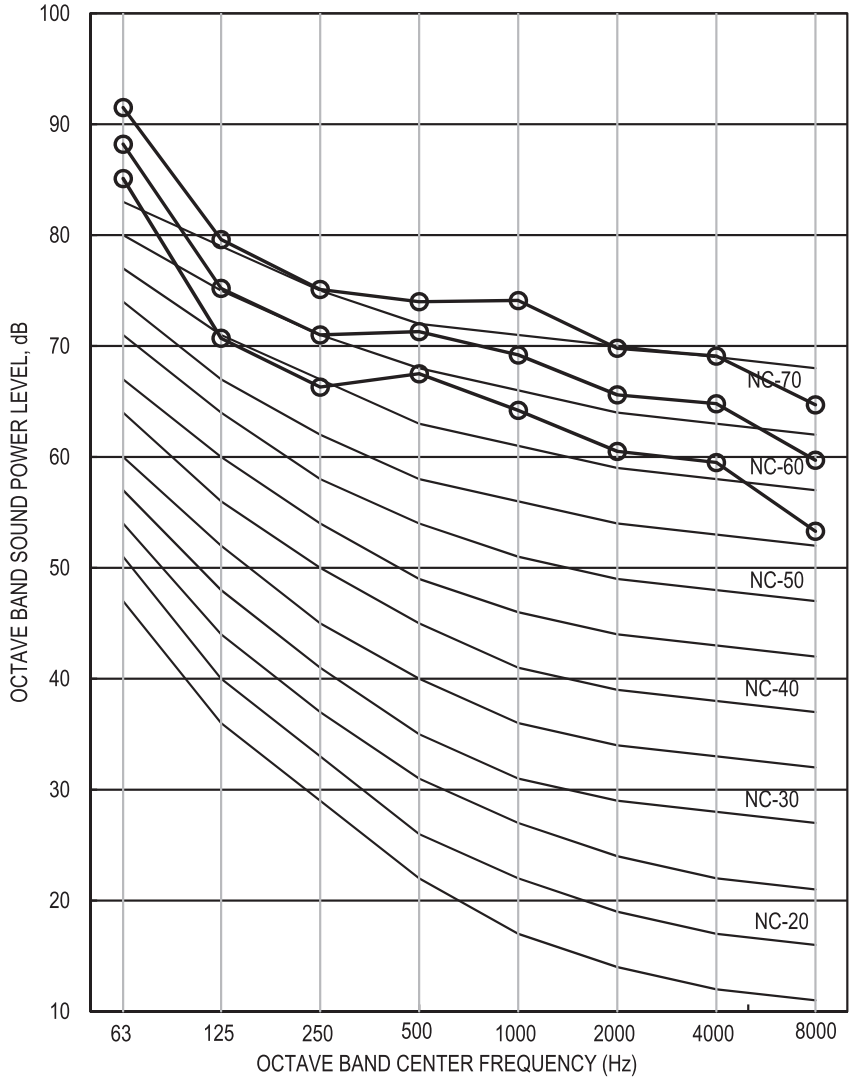
OVER ALL (dB)

TYPE	SCALE	H	M	L
Sound Power (Lw)	A	65.7	61.9	57.9
Sound Pressure (Lp)	A	57.7	54	50

FTQ48TBVJUD
FTQ48TBVJUA

Sound levels tested in accordance with AHRI 260.

Ducted Discharge



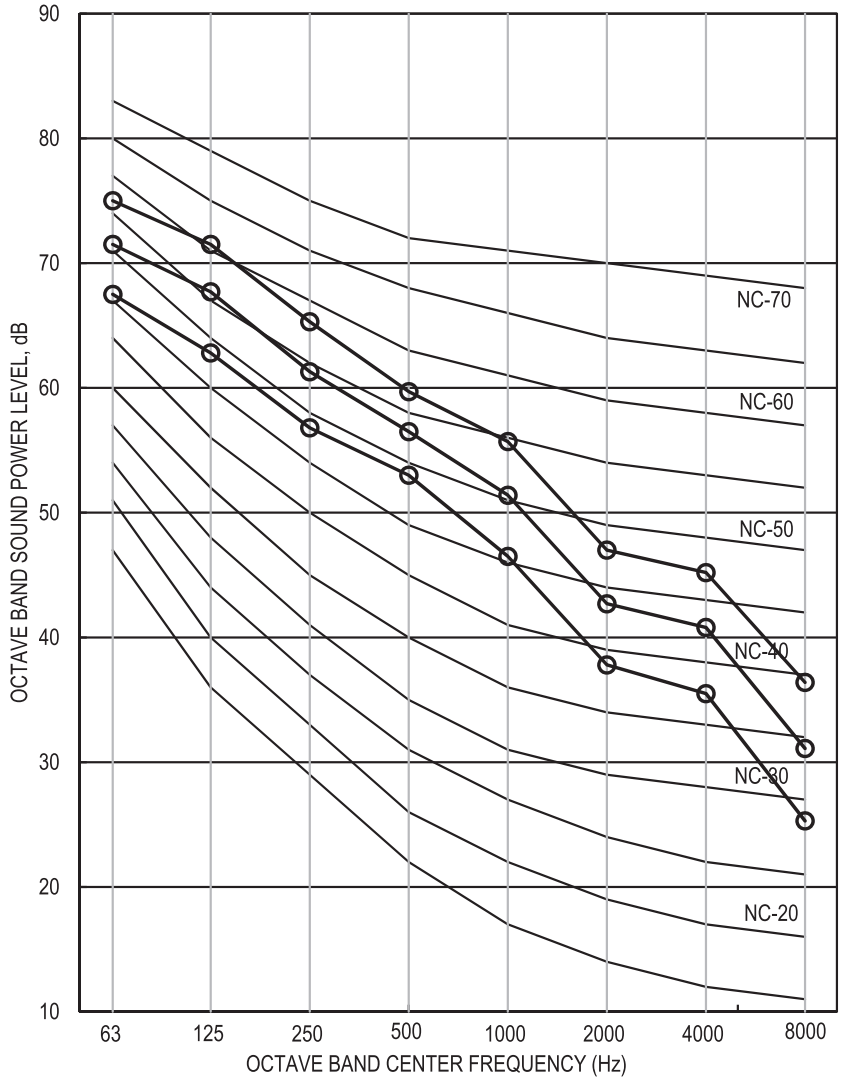
OVER ALL (dB)

TYPE	SCALE	H	M	L
Sound Power (Lw)	A	78.4	74.3	69.5
Sound Pressure (Lp)	A	68.6	64.6	60.2

FTQ48TBVJUD
FTQ48TBVJUA

Sound levels tested in accordance with AHRI 260.

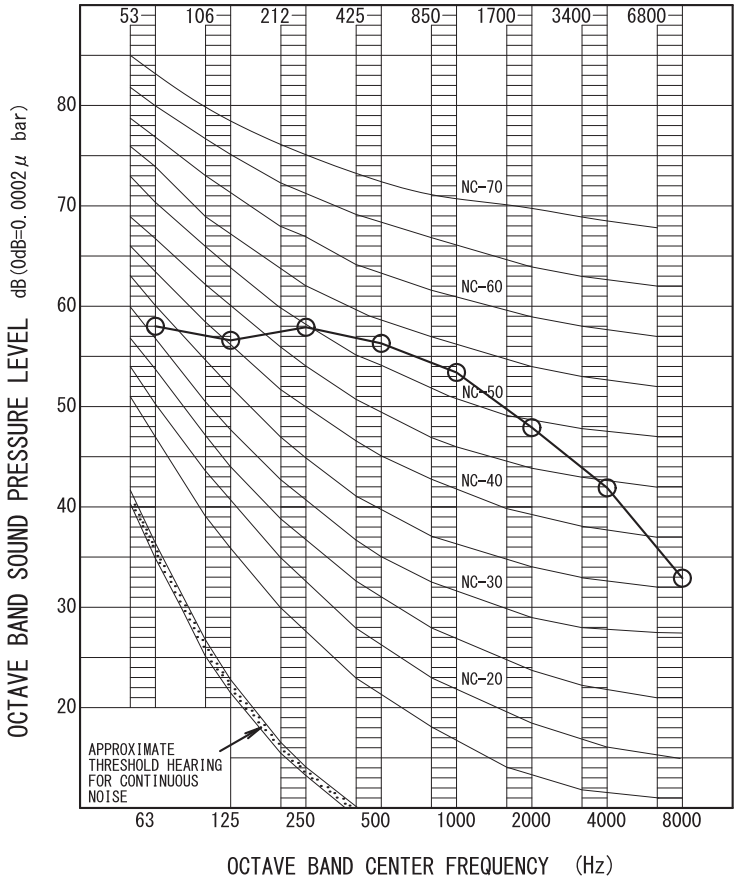
Casing Radiated



OVER ALL (dB)

TYPE	SCALE	H	M	L
Sound Power (Lw)	A	62.2	58.5	54.2
Sound Pressure (Lp)	A	53.8	50	45.6

13.2 Outdoor Unit (Cooling Only)
RZR18 - 24TBVJUB



OVER ALL(dB)

SCALE A	58

(B.G.N IS ALREADY RECTIFIED)

OPERATING CONDITIONS

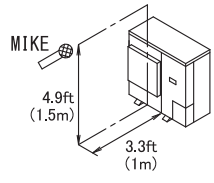
POWER SOURCE 208/230V 60Hz

COOLING RETURN AIR TEMPERATURE : 80.0°DB(26.7°CDB), 67.0°WB(19.4°CWB)
OUTDOOR TEMPERATURE : 95.0°DB(35.0°CDB), 75.0°WB(23.9°CWB)

MEASURING PLACE

ANECHOIC CHAMBER

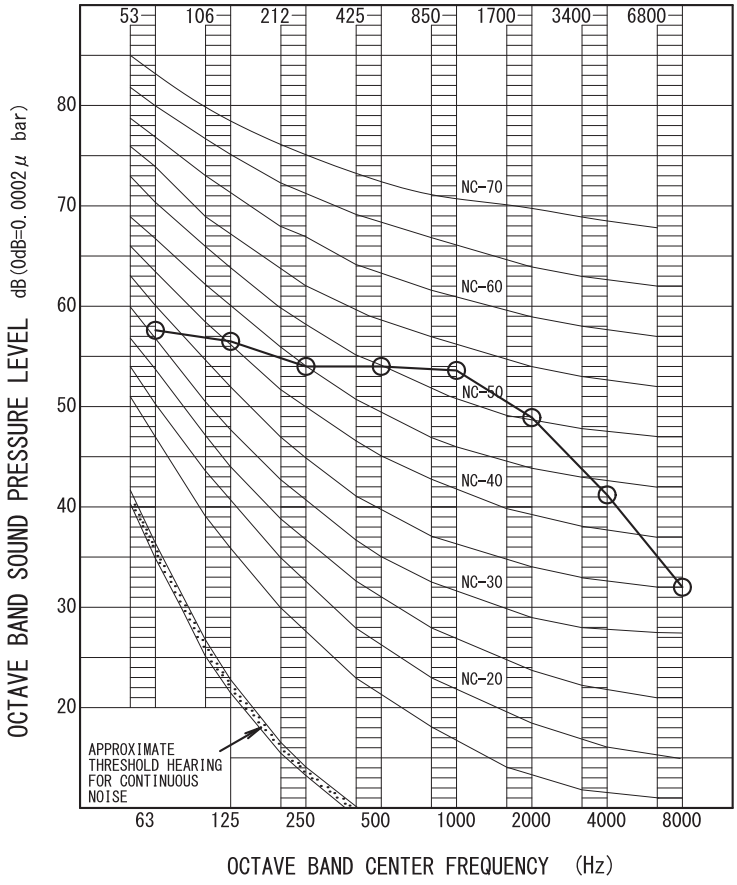
LOCATION OF MICROPHONE



NOTE : THE OPERATING SOUND IS MEASURED IN ANECHOIC CHAMBER,
IF IT IS MEASURED UNDER THE ACTUAL INSTALLATION CONDITIONS,
IT IS NORMALLY OVER THE SET VALUE DUE TO ENVIRONMENTAL NOISE AND SOUND REFLECTION.

4D148344

RZR30 - 48TBVJUB



OVER ALL(dB)

SCALE A	57

(B.G.N IS ALREADY RECTIFIED)

OPERATING CONDITIONS

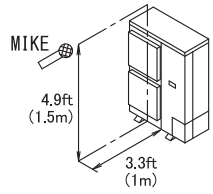
POWER SOURCE 208/230V 60Hz

COOLING RETURN AIR TEMPERATURE : 80.0°DB(26.7°CDB), 67.0°WB(19.4°CWB)
OUTDOOR TEMPERATURE : 95.0°DB(35.0°CDB), 75.0°WB(23.9°CWB)

MEASURING PLACE

ANECHOIC CHAMBER

LOCATION OF MICROPHONE

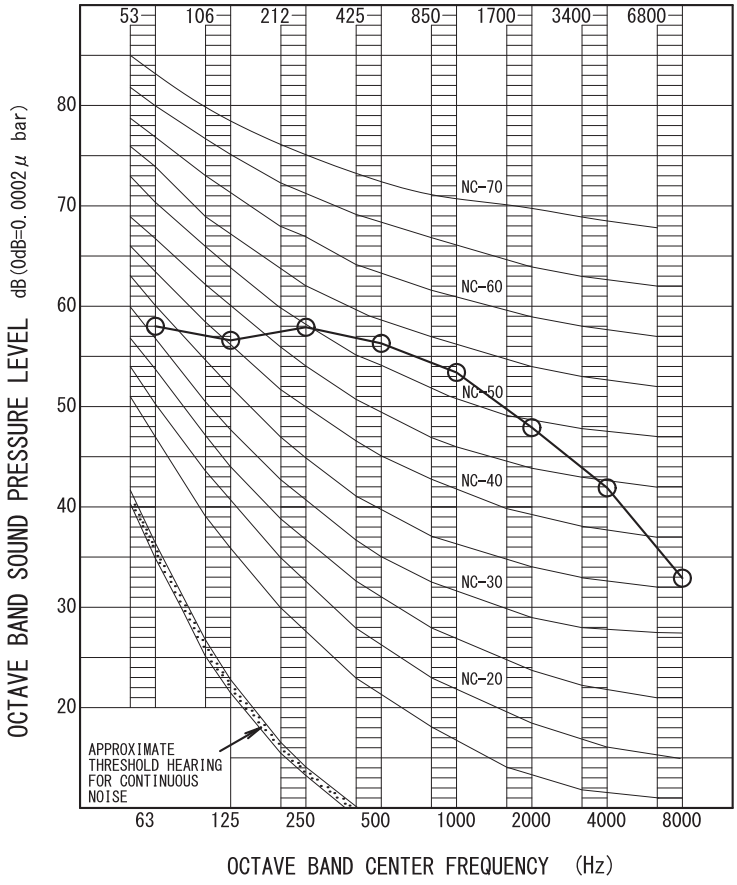


NOTE : THE OPERATING SOUND IS MEASURED IN ANECHOIC CHAMBER,
IF IT IS MEASURED UNDER THE ACTUAL INSTALLATION CONDITIONS,
IT IS NORMALLY OVER THE SET VALUE DUE TO ENVIRONMENTAL NOISE AND SOUND REFLECTION.

4D148348

13.3 Outdoor Unit (Heat Pump)

RZQ18 - 24TBVJUB (cooling)



OVER ALL(dB)

SCALE A	58

(B.G.N IS ALREADY RECTIFIED)

OPERATING CONDITIONS

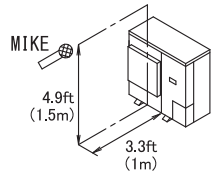
POWER SOURCE 208/230V 60Hz

COOLING RETURN AIR TEMPERATURE : 80.0°DB(26.7°CDB), 67.0°WB(19.4°CWB)
OUTDOOR TEMPERATURE : 95.0°DB(35.0°CDB), 75.0°WB(23.9°CWB)

MEASURING PLACE

ANECHOIC CHAMBER

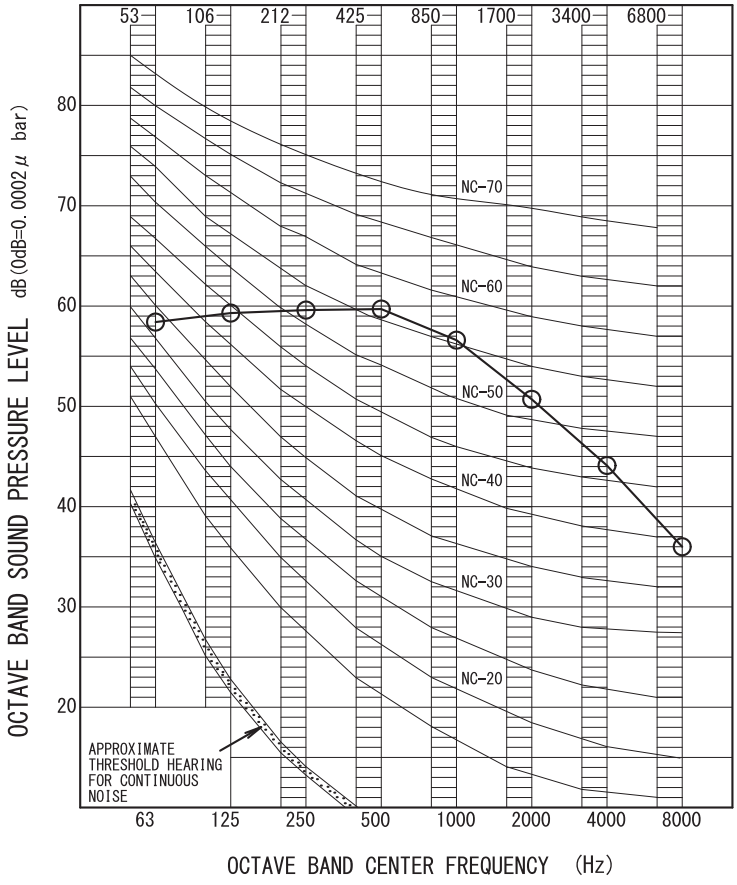
LOCATION OF MICROPHONE



NOTE : THE OPERATING SOUND IS MEASURED IN ANECHOIC CHAMBER,
IF IT IS MEASURED UNDER THE ACTUAL INSTALLATION CONDITIONS,
IT IS NORMALLY OVER THE SET VALUE DUE TO ENVIRONMENTAL NOISE AND SOUND REFLECTION.

4D148344

RZQ18 - 24TBVJUB (heating)



OVER ALL(dB)

SCALE A	61

(B.G.N IS ALREADY RECTIFIED)

OPERATING CONDITIONS

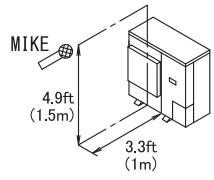
POWER SOURCE 208/230V 60Hz

HEATING RETURN AIR TEMPERATURE : 70.0FDB(21.1℃DB)
OUTDOOR TEMPERATURE : 47.0FDB(8.3℃DB),43.0FWB(6.1℃WB)

MEASURING PLACE

ANECHOIC CHAMBER

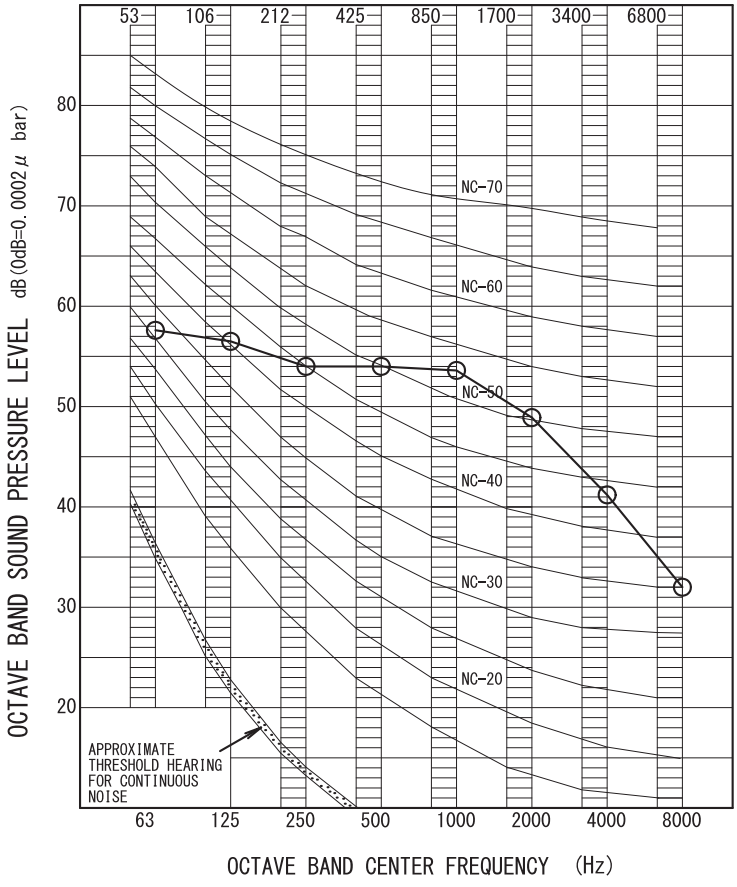
LOCATION OF MICROPHONE



NOTE : THE OPERATING SOUND IS MEASURED IN ANECHOIC CHAMBER,
IF IT IS MEASURED UNDER THE ACTUAL INSTALLATION CONDITIONS,
IT IS NORMALLY OVER THE SET VALUE DUE TO ENVIRONMENTAL NOISE AND SOUND REFLECTION.
WHEN FROSTING ON COIL,OPERATING SOUND MAY BECOME LARGER THAN THE ABOVE VALUE.

4D148345

RZQ30 - 48TBVJUB (cooling)



OVER ALL(dB)

SCALE A	57

(B.G.N IS ALREADY RECTIFIED)

OPERATING CONDITIONS

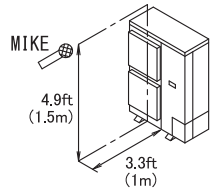
POWER SOURCE 208/230V 60Hz

COOLING RETURN AIR TEMPERATURE : 80.0°DB(26.7°CDB), 67.0°WB(19.4°CWB)
OUTDOOR TEMPERATURE : 95.0°DB(35.0°CDB), 75.0°WB(23.9°CWB)

MEASURING PLACE

ANECHOIC CHAMBER

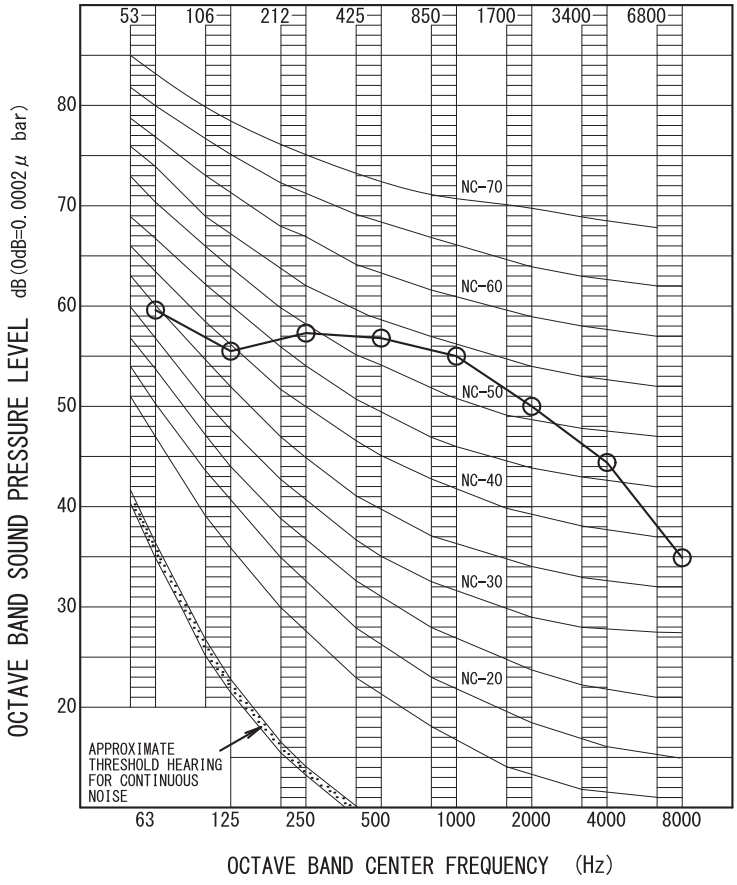
LOCATION OF MICROPHONE



NOTE : THE OPERATING SOUND IS MEASURED IN ANECHOIC CHAMBER,
IF IT IS MEASURED UNDER THE ACTUAL INSTALLATION CONDITIONS,
IT IS NORMALLY OVER THE SET VALUE DUE TO ENVIRONMENTAL NOISE AND SOUND REFLECTION.

4D148348

RZQ30 - 48TBVJUB (heating)



OVER ALL(dB)

SCALE A	59

(B.G.N IS ALREADY RECTIFIED)

OPERATING CONDITIONS

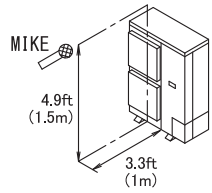
POWER SOURCE 208/230V 60Hz

HEATING RETURN AIR TEMPERATURE : 70.0FDB(21.1℃DB)
OUTDOOR TEMPERATURE : 47.0FDB(8.3℃DB),43.0FWB(6.1℃WB)

MEASURING PLACE

ANECHOIC CHAMBER

LOCATION OF MICROPHONE



NOTE : THE OPERATING SOUND IS MEASURED IN ANECHOIC CHAMBER,
IF IT IS MEASURED UNDER THE ACTUAL INSTALLATION CONDITIONS,
IT IS NORMALLY OVER THE SET VALUE DUE TO ENVIRONMENTAL NOISE AND SOUND REFLECTION.
WHEN FROSTING ON COIL,OPERATING SOUND MAY BECOME LARGER THAN THE ABOVE VALUE.

4D148349

14.Accessories

14.1 Indoor Unit

14.1.1 FCQ

Optional accessories (for unit)

Item			Note	Model			
				FCQ18 - 24AAVJU	FCQ30 - 48AAVJU	FCQ18 - 24AAVJU	FCQ30 - 48AAVJU
Type of panel				Self-cleaning filter panel		Standard sensing decoration panel	
Self-cleaning filter panel				BYCQ54EEGFU		—	
Connection pipe (for dust recovery)				KKHAP55B160		—	
L-shape extension pipe				KKHAP55A160		—	
Standard sensing decoration panel				—		BYCQ54EEFU	
Sealing material for air discharge outlet		For 1 outlet		KDBH551C160			
		For 2 outlets		—		KDBH552C160	
Panel spacer				KDB55J160F			
Fresh air intake kit	Chamber type	Without T-shape pipe		—		KDDP55C160	
		With T-shape pipe		—		KDDP55C160K	
	Direct installation type			—		KDDP55X160A	
Filter chamber				—		KDDFP55C160	
Replacement long life filter				—		KAF5511D160	
Ultra long life filter unit				—		KAF555D160	
Replacement ultra long life filter				—		KAF550D160	
Self-cleaning filter panel replacement filter				KAF554D160		—	
Branch duct chamber				KDJP55C80	KDJP55C160	KDJP55C80	KDJP55C160

C: 3D141052B

Optional accessories (for controls)

Item			Note	Model			
				FCQ18 - 24AAVJU	FCQ30 - 48AAVJU	FCQ18 - 24AAVJU	FCQ30 - 48AAVJU
Remote controller	Wired type	Navigation		BRC1E73			
		MADOKA		BRC1H71W			
		Daikin One+ Smart Thermostat		DTST-ONE-ADA-A			
	Wireless type			—			
intelligent Touch Manager				DCM601B71			
iTM plus adaptor				DCM601A72			
Wiring adaptor PCB			1	KRP1C77			
Wiring adaptor for electrical appendices (2)			1	KRP4A74			
External control adaptor for outdoor unit			1	DTA104A62			
DIII-net expander adaptor				DTA109A51			
Remote sensor				KRCS01-5B			
Installation box for adaptor			2, 3	KRP1J98A		KRP1H98A	

C: 3D141052B

Note:

1. Installation box for adaptor (KRP1J98A/KRP1H98A) is necessary.
2. Up to two adaptors can be fixed in installation box.
3. Only one installation box can be installed to each indoor unit.

14.1.2 FAQ

Optional accessories (for controls)

Item			Model	
			FAQ18TAVJU	FAQ24TAVJU
Remote controller	Wired type	Navigation	BRC1E73	
		MADOKA	BRC1H71W	
		Daikin One+ Smart Thermostat	DTST-ONE-ADA-A	
	Wireless type		BRC7E818	
Remote sensor			KRCS01-1B	
intelligent Touch Manager			DCM601B71	
iTM plus adaptor			DCM601A72	
DIII-net expander adaptor			DTA109A51	
Wiring adaptor PCB			—	
Wiring adaptor for electrical appendices (2)			KRP4A71	
Button sensor kit			KRCSH2018-01	

C: 3D115535

14.1.3 FBQ

Optional accessories (for unit)

Item	Model	
	FBQ18 - 24TBVJU	FBQ30 - 48TBVJU
Shield plate for side plate	KDBD63A160	

C: 3D140816A

Optional accessories (for controls)

Item			Model	
			FBQ18 - 24TBVJU	FBQ30 - 48TBVJU
Remote controller	Wired type	Navigation	BRC1E73	
		MADOKA	BRC1H71W	
		Daikin One+ Smart Thermostat	DTST-ONE-ADA-A	
	Wireless type		BRC082A43	
Remote sensor			KRCS01-6B	
intelligent Touch Manager			DCM601B71	
iTM plus adaptor			DCM601A72	
DIII-net expander adaptor			DTA109A51	
Wiring adaptor PCB			★ KRP1C76	
External control adaptor for outdoor unit			★ DTA104A61	
Wiring adaptor for electrical appendices (2)			★ KRP4A71	
Fixing plate			KRP4A98	

C: 3D140814B

Note:

1. Fixing plate (KRP4A98) is necessary for each adaptor marked with ★.
2. Up to two adaptors can be installed on fixing plate.
3. Only one fixing plate can be installed to each indoor unit.

14.1.4 FTQ

Optional accessories (for unit)

Model	Electric heater capacity						
	HKTSN03X1	HKTS*05X1	HKTSN06X1	HKTS*08X1	HKTS*10X1	HKTSD15XA/B (Note 1)	HKTSD19CA/B (Note 1)
FTQ18TBVJUD FTQ18TBVJUA	✓	✓	✓	✓	✓	×	×
FTQ24TBVJUD FTQ24TBVJUA	✓	✓	✓	✓	✓	×	×
FTQ30TBVJUD FTQ30TBVJUA	✓	✓	✓	✓	✓	×	×
FTQ36TBVJUD FTQ36TBVJUA	✓	✓	✓	✓	✓	×	×
FTQ42TBVJUD FTQ42TBVJUA	×	✓	✓	✓	✓	✓	✓
FTQ48TBVJUD FTQ48TBVJUA	×	✓	✓	✓	✓	✓	✓

Note:

1. Two-stage heater control.
2. All combinations of indoor unit capacity & heater capacity may be configured as either Auxiliary Heat or Heat Pump Lockout Heat. Refer to the installation manual for more detail regarding the Auxiliary Heat control sequence.

Optional accessories (for controls)

No.	Item			Model					
				FTQ18TBVJUD FTQ18TBVJUA	FTQ24TBVJUD FTQ24TBVJUA	FTQ30TBVJUD FTQ30TBVJUA	FTQ36TBVJUD FTQ36TBVJUA	FTQ42TBVJUD FTQ42TBVJUA	FTQ48TBVJUD FTQ48TBVJUA
1	Remote controller	Wired type	Navigation	BRC1E73					
			MADOKA	BRC1H71W					
			Daikin One+ Smart Thermostat	DTST-ONE-ADA-A					
		Wireless type		BRC4C82					
2	Remote sensor			KRCS01-2UA					
3	Wiring adaptor for electrical appendices (2)			KRP4A74 (Note 1)					
4	Installation box for adaptor printed circuit board			KRP1BB101					
5	External control adaptor for outdoor unit (Must be installed on indoor units)			DTA104A53 (Note 1)					
6	Wiring adaptor PCB			KRP1C75 (Note 1)					
7	DIII-net expander adaptor			DTA109A51					
8	intelligent Touch Manager			DCM601B71					
9	iTM plus adaptor			DCM601A72					
10	Adaptor printed circuit board for multi tenant			DTA114A61 (Note 1)					
11	Downflow kit			DFK-B				DFK-C	
12	Washable air filter			ALFH16201E				ALFH1912201E	
13	Button sensor kit			KRCSH2018-01					

Note:

1. Installation box (No.4) is required for adaptor (No.3/5/6/10).

14.2 Outdoor Unit

Optional accessories (for unit)

Item	Model	
	RZR18 - 24TBVJUB RZQ18 - 24TBVJUB	RZR30 - 48TBVJUB RZQ30 - 48TBVJUB
ABC I/P printed circuit board kit	BRP2A82	

C: 4D148246

15. Caution Label

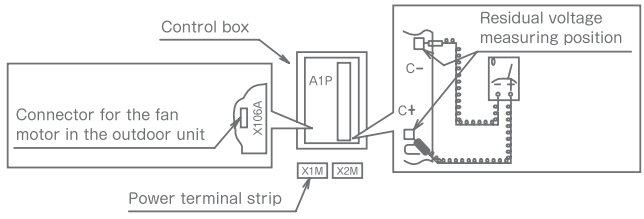
15.1 RZR18 - 48TBVJUB, RZQ18 - 48TBVJUB

Service precautions | ⚠ Warning | ⚠ Caution to electric shock

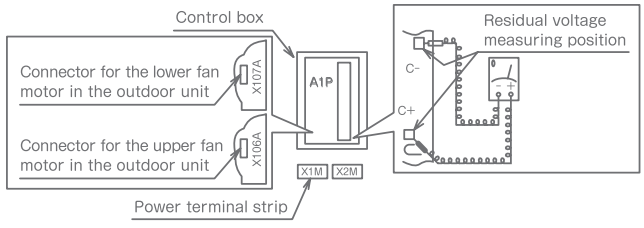
◎ **Precautions for servicing control box**

1. Before service inspection, be sure to measure the power supply terminal (X1M) with a multimeter and confirm the power supply is turned off.
2. Be careful not to touch the high-temperature components.
   There is a possibility that each component within the control box can generate high temperature.
3. Be careful not to touch the live parts.
   Do not touch the live parts before making sure the residual voltage is less of 50V.
   ① After turning off the power supply, leave the units unused for 10 minutes.
   ② To prevent a damage of the PC board, always touch the ground terminal with your hands to discharge the static electricity on your body.
   ③ Do not touch the live parts. Measure the residual voltage of the measuring position using the multimeter.
   ④ After confirming the residual voltage, pull out the connector for the fan motor in the outdoor unit immediately. (If the fan in the outdoor unit rotates by strong headwinds, it may cause storage of electricity in the capacitor and electric shock.)

※ After completing service work, plug in the connector for the fan motor in the outdoor unit, then restore the insulating film to its state as delivered.

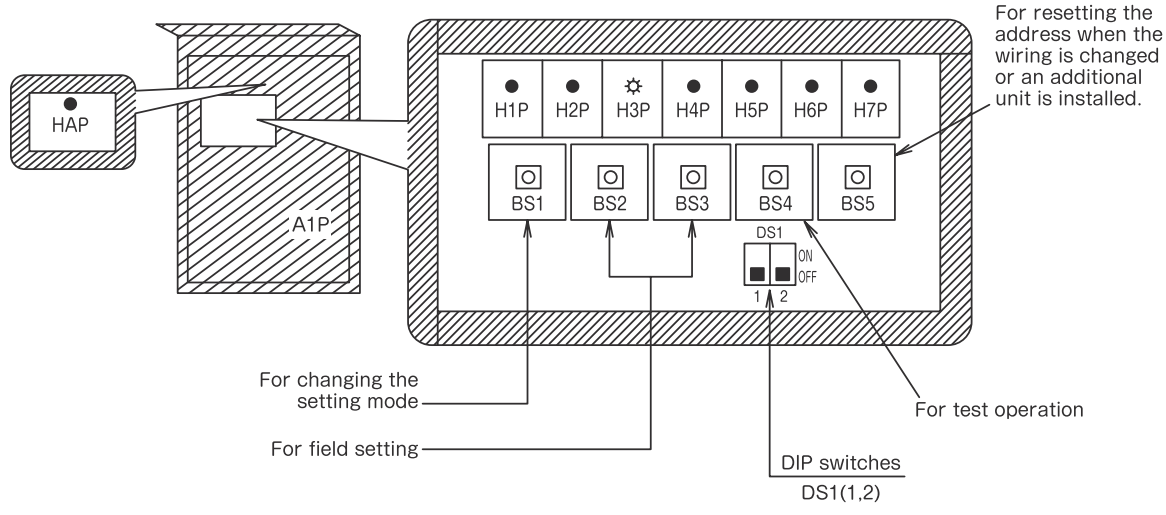


18, 24 type



30 - 48 type

LED display ● : Light OFF ☼ : Light ON ◑ : Flashing ✱ : Light ON or Light OFF

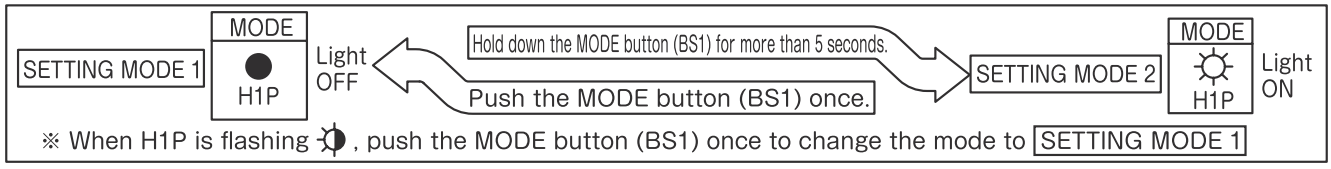


⚠ While performing check and other operations, do not uncover the insulating film or remove the P board protective cover to avoid electric shock and injury!

2P736781-1A

Changing the setting mode

The setting mode can be changed by the MODE button (BS1) according to the following procedure.



※ When H1P is flashing ◑, push the MODE button (BS1) once to change the mode to SETTING MODE 1

〈 Caution 〉

For selecting low noise operation by an outside order, demand operation and operation mode setting with a Cool/Heat central remote controller, the external control adapter for outdoor unit (optional accessory) is required. For details, see the instruction attached to the adapter.

Make settings in the SETTING MODE 2 (H1P: Light ON)

Settings of the following items Ⓐ ~ Ⓕ can be carried out.

Setting procedure	Details of setting		Example of LED display and its position (H1P H2P H3P H4P H5P H6P H7P)
① Push the SET button (BS2) and adjust the LED display to the example shown on the right according to the required setting (Ⓐ ~ Ⓕ).	Ⓐ Additional refrigerant charging operation setting		☼ ● ☼ ● ☼ ● ●
	Ⓑ Refrigerant recovery/Evacuation mode setting		☼ ● ☼ ● ☼ ● ☼
	Ⓒ Night-time automatic low noise setting		☼ ● ☼ ● ☼ ☼ ●
	Ⓓ External low noise standard setting		☼ ● ☼ ☼ ● ● ☼
	Ⓔ Demand standard setting		☼ ● ☼ ☼ ☼ ☼ ●
	Ⓕ External low noise demand setting		☼ ● ● ☼ ☼ ● ●
② Push the RETURN button (BS3) to indicate the present setting. (Refer to ③)			
③ Setting values For Ⓐ Ⓑ Ⓕ -- ON and OFF For Ⓒ -- OFF, Level 1~3 For Ⓓ Ⓔ -- Level 1~3 Push the SET button (BS2) and adjust the LED display to the example shown on the right according to the above required setting. ※ For Ⓒ and Ⓓ, operation noise: Level 1 > Level 2 > Level 3 For Ⓔ, power consumption: Level 1 < Level 2 < Level 3 (See the service manual for details.)	Ⓐ Ⓑ Ⓕ	ON	☼ ● ● ● ● ☼ ●
		OFF (Factory setting)	☼ ● ● ● ● ● ☼
	Ⓒ	OFF (Factory setting)	☼ ● ● ● ● ● ●
		Level 1	☼ ● ● ● ● ● ☼
		Level 2	☼ ● ● ● ● ☼ ●
		Level 3	☼ ● ● ● ● ☼ ☼
	Ⓓ Ⓔ	Level 1	☼ ● ● ● ● ● ☼
		Level 2 (Factory setting)	☼ ● ● ● ● ☼ ●
		Level 3	☼ ● ● ● ☼ ● ●
④ Push the RETURN button (BS3) to define the setting. (Light ON instead of flashing for H1P.)			
⑤ Push the RETURN button (BS3) again to start the operation according to the setting.			☼ ● ● ● ● ● ●

※ For settings other than the above, see the service manual.

Confirmation of setting items

The following items can be confirmed in the SETTING MODE 1.

Confirming items	Example of LED display	Example of LED display and its position (H1P H2P H3P H4P H5P H6P H7P)
The present operating state	● :Normal ☼ :Abnormal ◑ :Under preparation or check operation	● ● ☼ ● ● ● ●
Low noise operating state	● Under normal operation (factory setting) ☼ :Under low noise operation	● ● ☼ ● ● ● ●
Demand operating state	● Under normal operation (factory setting) ☼ :Under demand operation	● ● ☼ ● ● ● ●

2P736781-1A

Precautions for test operation

※ After the power supply is turned on, do not operate the air conditioner before the UNDER PREPARATION (H2P) indicator is OFF (maximum for 12 minutes).

- Check the stop valves. Make sure to completely open the stop valve on the gas side and the stop valve on the liquid side.
- Make sure to carry out test operation after the first installation. Otherwise, the error code “U3” will be displayed and normal operation cannot be carried out.

① To protect the compressor, make sure to turn on the power supply for 6 hours before starting operation.
② Enter the SETTING MODE 1 (H1P: Light OFF).
③ In the stopped status, hold down the TEST button (BS4) for more than 5 seconds to start test operation.

(H2P will flash up and “Test Operation” and CENTRAL CONTROL will be displayed in the remote controller.
It may take about 10 minutes to bring the state of refrigerant stable before the compressor starts, but this is not malfunction.)

Test operation is automatically carried out in the cooling mode.
(※ The refrigerant running sound or the magnetic sound of a solenoid valve may become loud during this operation.)
Following items can be automatically checked.

• Incorrect wiring checking • Unopened stop valve checking • Piping length auto determination

To discontinue the operation, push the RETURN button (BS3). The system will stop after operation for 30 seconds around.
(During the test operation, it is impossible to stop the unit from the remote controller.)
④ Close the front panel.
⑤ The system will stop automatically after running 30 minutes around (maximum 1 hour). Check the operation results by the outdoor unit LED display.

<See the table shown below>

	H1P	H2P	H3P	H4P	H5P	H6P	H7P
Normal	●	●	☼	●	●	●	●
Abnormal	●	☼	☼	●	●	●	●

〈 Caution 〉
- After the operation is finished, start the normal operation from the remote controller and check.
- The LED display will change during this operation, but this is not malfunction.
- To prevent electric shock during this operation, install the front panel firmly.

[Measures for abnormal finish]
1. Confirm the error code by the remote controller.
2. Correct the abnormality. (See the installation manual, operation manual or service manual, or contact your dealer.)
3. After correcting the abnormality, push the RETURN button (BS3) to reset the error code.
4. Carry out the test operation again and confirm the abnormality is properly corrected.

※ If there is no error code displayed in the remote controller, the system will carry out normal operation after about 5 minutes.

Precautions to service mode operation

※ After turning on the power supply, the unit can not start service mode until H2P goes off (maximum for 12 minutes around).

• **For internal evacuation** (At the first installation, this internal evacuation is not required. It is only required for service.)

① When the unit is at standstill, set Ⓑ Refrigerant recovery/Evacuation mode to ON in the SETTING MODE 2 .
(After the setting is defined, do not reset the SETTING MODE 2 until the evacuation is completed.)
(If "Test Operation" and CENTRAL CONTROL are displayed in the remote controller, the operation will be rejected.)
② Evacuate the system with a vacuum pump.
③ Push the MODE button (BS1) to reset the SETTING MODE 2 .

• **For refrigerant recovery by refrigerant reclaimer**

① When the unit is at standstill, set Ⓑ Refrigerant recovery/Evacuation mode to ON in the SETTING MODE 2 .
(The expansion valves in the indoor and outdoor units will be opened completely. Some of the solenoid valves are ON.)
(If "Test Operation" and CENTRAL CONTROL are displayed in the remote controller, the operation will be rejected.)
② Recover the refrigerant by a refrigerant reclaimer in accordance with the local laws and regulations.
③ Push the MODE button (BS1) to reset the SETTING MODE 2 .

Caution Do not shut off the power supply of the outdoor unit when recovering the refrigerant.
(Otherwise, the solenoid valves will be closed and the refrigerant of the outdoor unit can not be recovered.)

Precautions for charging additional refrigerant

※ When the outdoor unit is stopped and the entire quantity of refrigerant can not be charged, make sure to charge the remaining quantity of refrigerant using this procedure. Otherwise, the unit may malfunction.

① Turn on the power supply of the indoor unit and outdoor unit.
② Completely open the stop valve on the gas side and the stop valve on the liquid side.
③ Connect the charge hose to the service port (gas stop valve).
④ When the unit is at standstill and under the SETTING MODE 2 (H1P: Light ON), set Ⓐ "Additional refrigerant charging mode" to "ON".
⑤ The operation is automatically started. (H2P flickers, and "Test Operation" and CENTRAL CONTROL are displayed in the remote controller.)
⑥ After charging the specified quantity of refrigerant, push the RETURN button (BS3) to stop the operation.
(The operation is stopped within 30 minutes around.
If refrigerant charging is not completed within 30 minutes, set Ⓐ "Additional refrigerant charging mode" to ON and perform this operation again.
If this operation is stopped soon after restarting, the refrigerant may be overcharged. Stop charging extra refrigerant.)
⑦ Disconnect the refrigerant charge hose.

1. Record of setting details

After performing settings to Ⓒ ~ Ⓔ in the SETTING MODE 2 , make a record by marking ○ in the table below.

Ⓒ Night-time automatic low noise setting	Ⓓ External low noise standard setting	Ⓔ Demand standard setting
OFF Level 1 Level 2 Level 3	Level 1 Level 2 Level 3	Level 1 Level 2 Level 3

(Be sure to fill in the table by the after-sales service staff.)

2. Record of additional refrigerant charging amount

Refrigerant equivalent to 25ft. (7.6m) liquid piping is factory-charged in the outdoor unit.
Calculate the refrigerant charging amount based on the following formula.

• If the liquid piping length is 25ft. (7.6m) or less

(lbs)

indoor unit type	Additional refrigerant charging amount [A]	indoor unit type	Additional refrigerant charging amount [A]
FAQ, FBQ18	0.15	FBQ30-48	0
FBQ24	0.2	FCQ30-48	
FCQ18, 24	0.36	FTQ30, 36	1.07
FTQ18, 24	0.46	FTQ42, 48	1.41

• If the liquid piping length is more than 25ft. (7.6m)

[**A**] lbs	+	(Liquid piping length−25) ft. x 0.036 lbs	=	Additional refrigerant charging amount lbs

3. Record of indoor unit model name and installation location

Model name	
Installation location	

2P736781-1A

2P736781-1A

16. Caution for Refrigerant Leaks

16.1 Introduction

Points to note in connection with refrigerant leaks

The installer and system specialist shall secure safety against leakage according to local regulations or standards. The following standards may be applicable if local regulations are not available.

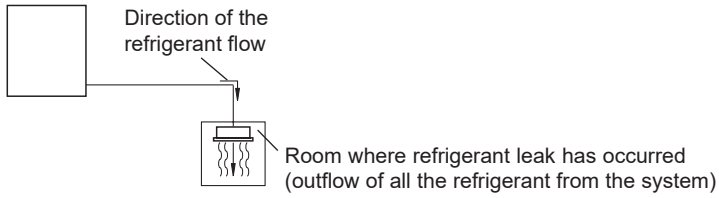
The SPLIT System, like other air conditioning systems, uses R410A as refrigerant. R410A itself is an entirely safe non-toxic, non-combustible refrigerant. Nevertheless care must be taken to ensure that air conditioning facilities are installed in a room which is sufficiently large. This assures that the maximum concentration level of refrigerant gas is not exceeded, in the unlikely event of major leak in the system and this in accordance to the local applicable regulations and standards.

Maximum concentration level

The maximum charge of refrigerant and the calculation of the maximum concentration of refrigerant is directly related to the humanly occupied space in to which it could leak.

The unit of measurement of the concentration is lb./1000 ft.^{3} (the weight in lbs. of the refrigerant gas in 1 ft.^{3} volume of the occupied space).

Compliance to the local applicable regulations and standards for the maximum allowable concentration level is required.



Pay special attention to places, such as basements, etc. where refrigerant can stay, since refrigerant is heavier than air.

16.2 Procedure for Checking Maximum Concentration

Check the maximum concentration level in accordance with steps 1 to 4 below and take whatever action is necessary to comply.

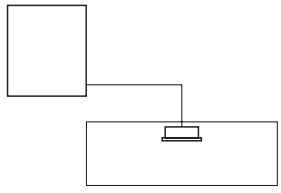
Step1: Calculate the amount of refrigerant (lbs.) charged to each system separately.

Amount of refrigerant in the unit system (amount of refrigerant with which the system is charged before leaving the factory)	+	Additional charging amount (amount of refrigerant added locally in accordance with the length or diameter of the refrigerant piping and type of indoor unit)	=	Total amount of refrigerant (lbs.) in the system

Note:

Where a single refrigerant facility is divided into 2 entirely independent refrigerant systems then use the amount of refrigerant with which each separate system is charged.

Step 2: Calculate a room volume ($ft.^3$)



Step 3: Calculating the refrigerant concentration by using the results of the calculations in steps 1 and 2 above.

$$\frac{\text{total amount of refrigerant in the refrigerant system}}{\text{volume } (ft^3) \text{ of the room in which there is an indoor unit installed}} \leq \text{maximum concentration level } (lb./ft^3)$$

Step 4: Dealing with the situations where the result exceeds the maximum concentration level.

Where the installation of a facility results in a concentration in excess of the maximum concentration level then it will be necessary to revise the system.

Please consult your dealer.

17.Safety Devices List

17.1 FCQ

Model		FCQ18AAVJU	FCQ24AAVJU	FCQ30AAVJU	FCQ36AAVJU	FCQ42AAVJU	FCQ48AAVJU
Printed circuit board fuse		250 V, 3.15 A	250 V, 3.15 A	250 V, 3.15 A	250 V, 3.15 A	250 V, 3.15 A	250 V, 3.15 A
Fan motor thermal fuse	°F (°C)	—	—	—	—	—	—
Fan motor thermal protector	°F (°C)	—	—	—	—	—	—
Drain pump thermal fuse	°F (°C)	—	—	—	—	—	—

C: 4D140940

17.2 FAQ

Model		FAQ18TAVJU	FAQ24TAVJU
Printed circuit board fuse		250 V, 3.15 A	250 V, 3.15 A
Fan motor thermal fuse	°F	—	—
Fan motor thermal protector	°F	—	—

C: 4D047085D

17.3 FBQ

Model		FBQ18TBVJU	FBQ24TBVJU	FBQ30TBVJU	FBQ36TBVJU	FBQ42TBVJU	FBQ48TBVJU
Printed circuit board fuse		250 V, 3.15 A	250 V, 3.15 A	250 V, 3.15 A	250 V, 3.15 A	250 V, 3.15 A	250 V, 3.15 A
Printed circuit board fuse (fan driver)		250 V, 6.3 A	250 V, 6.3 A	250 V, 6.3 A	250 V, 6.3 A	250 V, 6.3 A	250 V, 6.3 A
Drain pump thermal fuse	°F (°C)	—	—	—	—	—	—

C: 3D140812

17.4 FTQ

Model	FTQ18TBVJUD FTQ18TBVJUA	FTQ24TBVJUD FTQ24TBVJUA	FTQ30TBVJUD FTQ30TBVJUA	FTQ36TBVJUD FTQ36TBVJUA
Printed circuit board fuse (Main)	T, 3.15 A, 250 V	T, 3.15 A, 250 V	T, 3.15 A, 250 V	T, 3.15 A, 250 V
Printed circuit board fuse (Fan)	T, 6.3 A, 250 V	T, 6.3 A, 250 V	T, 6.3 A, 250 V	T, 6.3 A, 250 V
Printed circuit board fuse (Option)	T, 3.15 A, 250 V	T, 3.15 A, 250 V	T, 3.15 A, 250 V	T, 3.15 A, 250 V

C: 3D075604

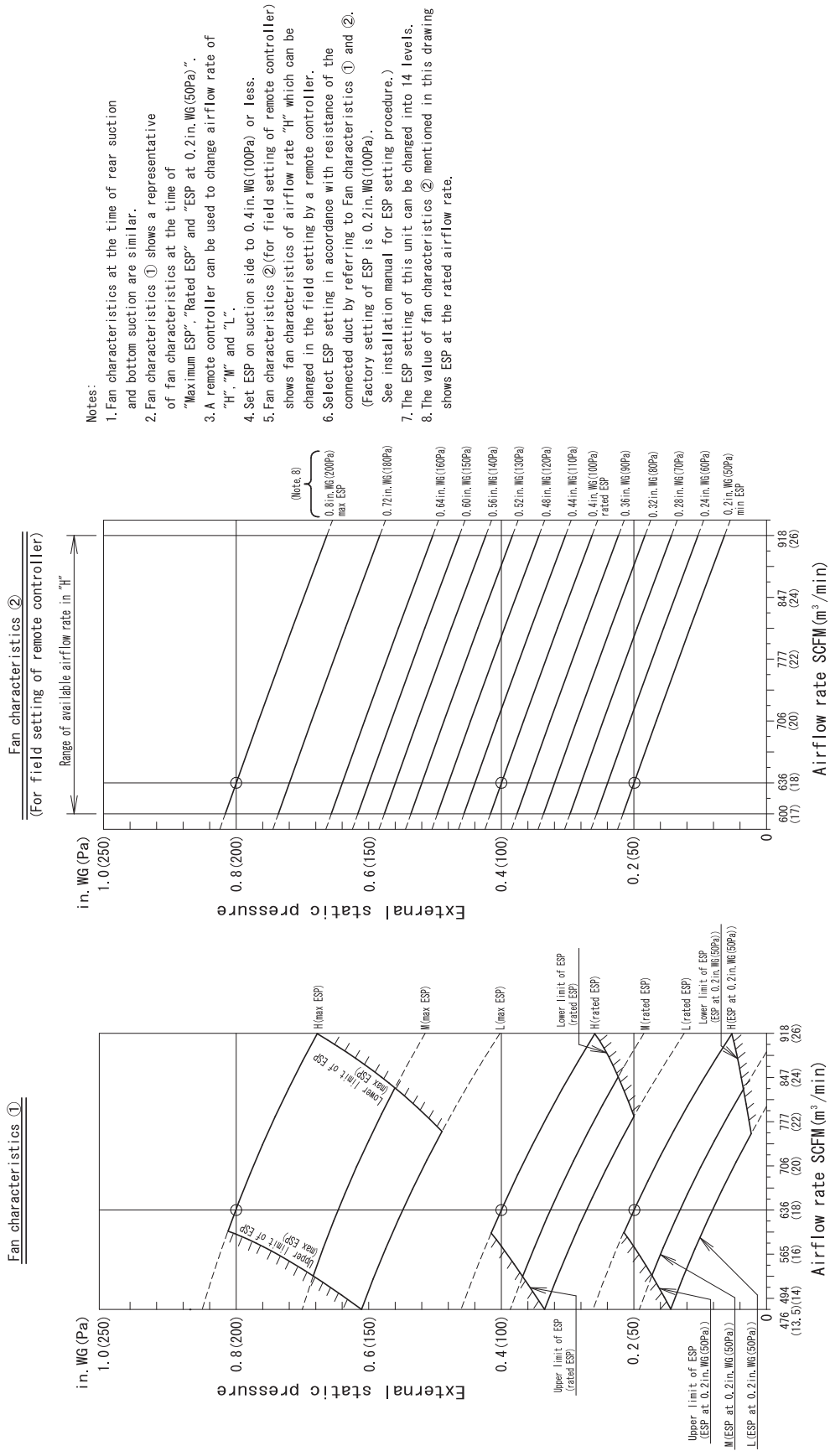
Model	FTQ42TBVJUD FTQ42TBVJUA	FTQ48TBVJUD FTQ48TBVJUA
Printed circuit board fuse (Main)	T, 3.15 A, 250 V	T, 3.15 A, 250 V
Printed circuit board fuse (Fan)	T, 6.3 A, 250 V	T, 6.3 A, 250 V
Printed circuit board fuse (Option)	T, 3.15 A, 250 V	T, 3.15 A, 250 V

C: 3D075604

18.Fan Performances

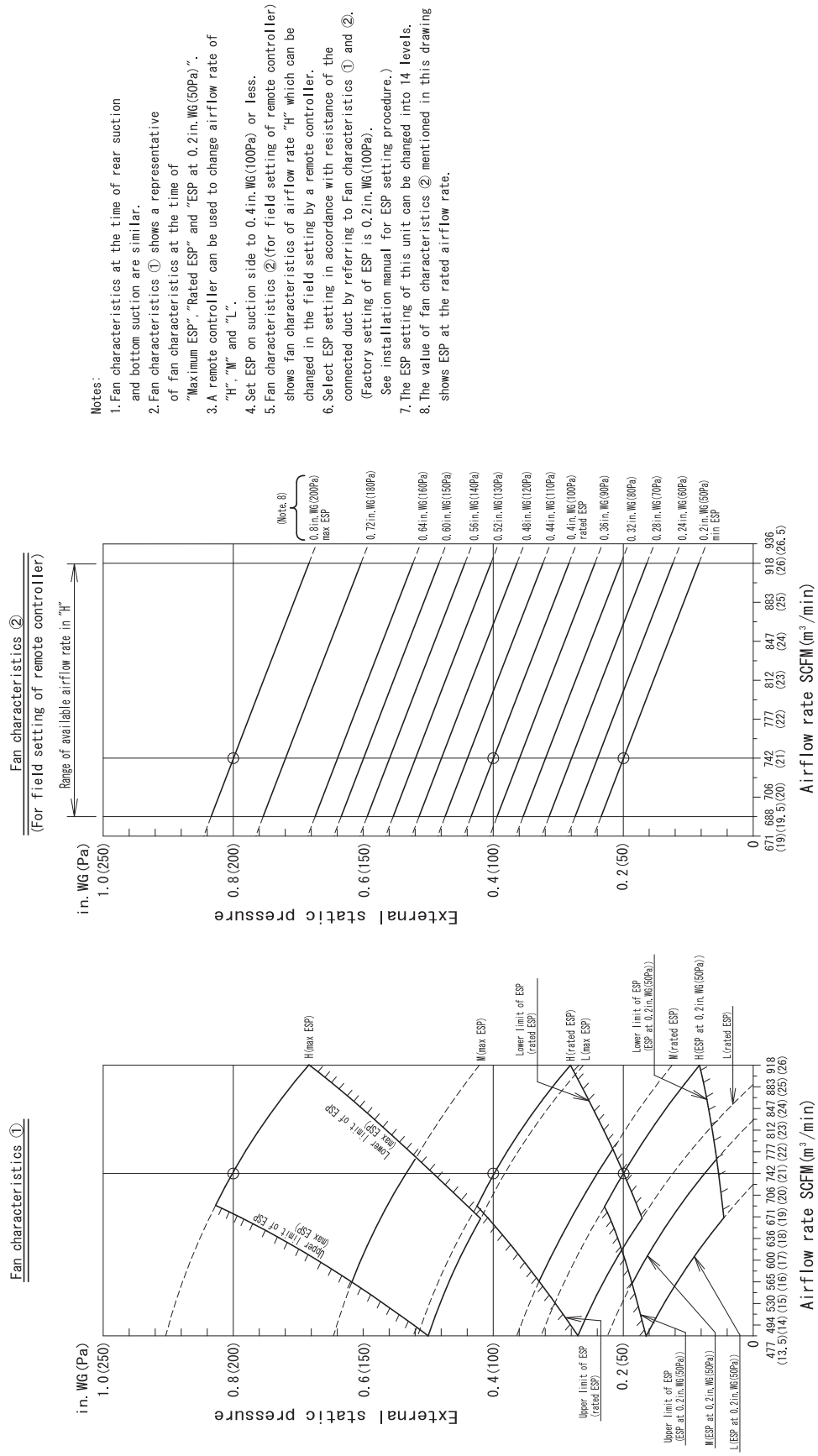
18.1 FBQ

FBQ18TBVJU



3D143366

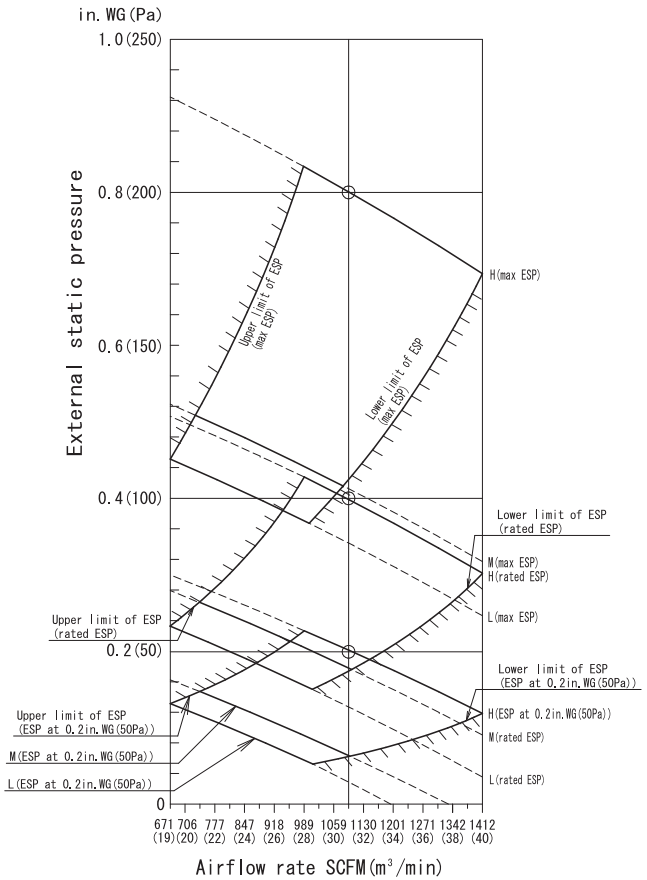
FBQ24TBVJU



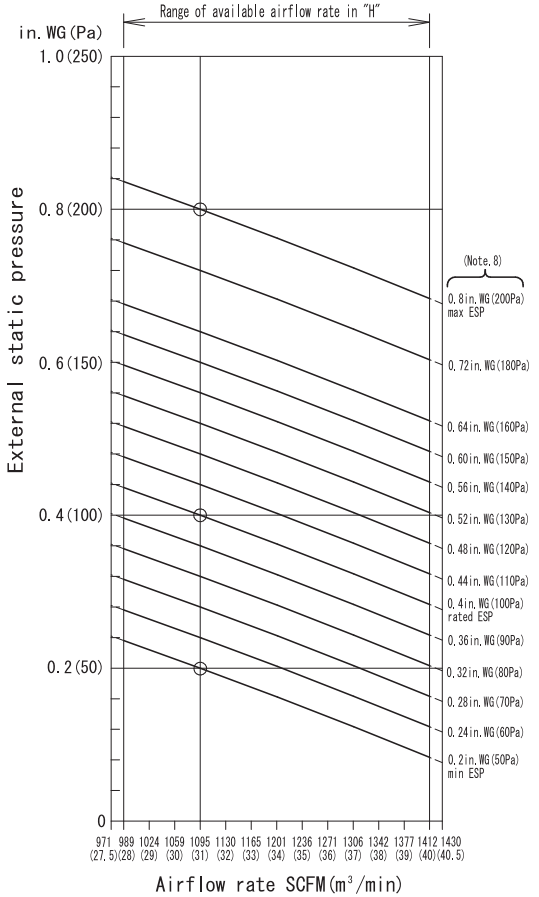
Notes:
1. Fan characteristics at the time of rear suction and bottom suction are similar.
2. Fan characteristics ① shows a representative of fan characteristics at the time of "Maximum ESP", "Rated ESP" and "ESP at 0.2in.WG(50Pa)".
3. A remote controller can be used to change airflow rate of "H", "M" and "L".
4. Set ESP on suction side to 0.4in.WG(100Pa) or less.
5. Fan characteristics ②(for field setting of remote controller) shows fan characteristics of airflow rate "H" which can be changed in the field setting by a remote controller.
6. Select ESP setting in accordance with resistance of the connected duct by referring to Fan characteristics ① and ②. (Factory setting of ESP is 0.2in.WG(100Pa). See installation manual for ESP setting procedure.)
7. The ESP setting of this unit can be changed into 14 levels.
8. The value of fan characteristics ② mentioned in this drawing shows ESP at the rated airflow rate.

3D143367

Fan characteristics ①



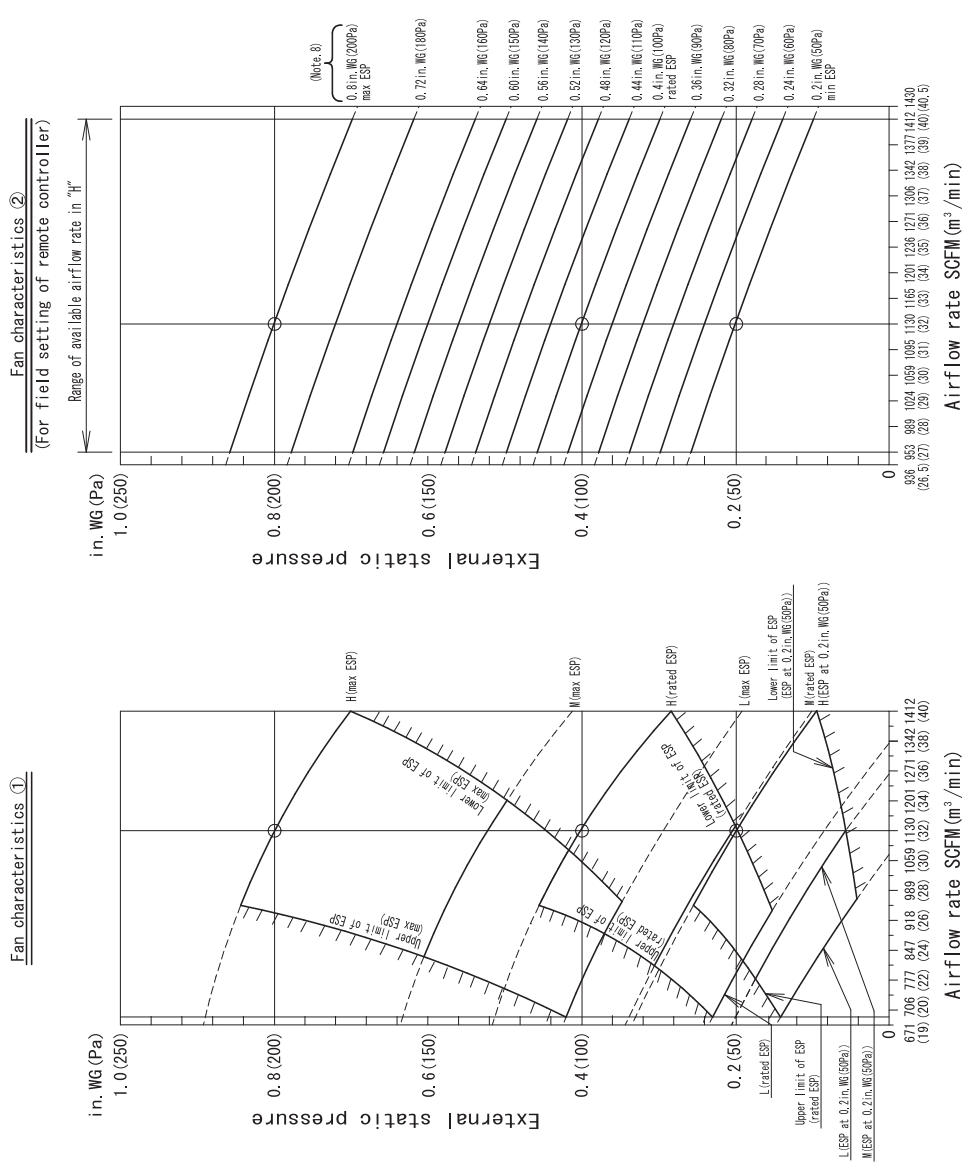
Fan characteristics ②
(For field setting of remote controller)



Notes:
1. Fan characteristics at the time of rear suction and bottom suction are similar.
2. Fan characteristics ① shows a representative of fan characteristics at the time of "Maximum ESP","Rated ESP" and "ESP at 0.2in.WG(50Pa)".
3. A remote controller can be used to change airflow rate of "H","M" and "L".
4. Set ESP on suction side to 0.4in.WG(100Pa) or less.
5. Fan characteristics ②(for field setting of remote controller) shows fan characteristics of airflow rate "H" which can be changed in the field setting by a remote controller.
6. Select ESP setting in accordance with resistance of the connected duct by referring to Fan characteristics ① and ②. (Factory setting of ESP is 0.2in.WG(100Pa). See installation manual for ESP setting procedure.)
7. The ESP setting of this unit can be changed into 14 levels.
8. The value of fan characteristics ② mentioned in this drawing shows ESP at the rated airflow rate.

3D143368

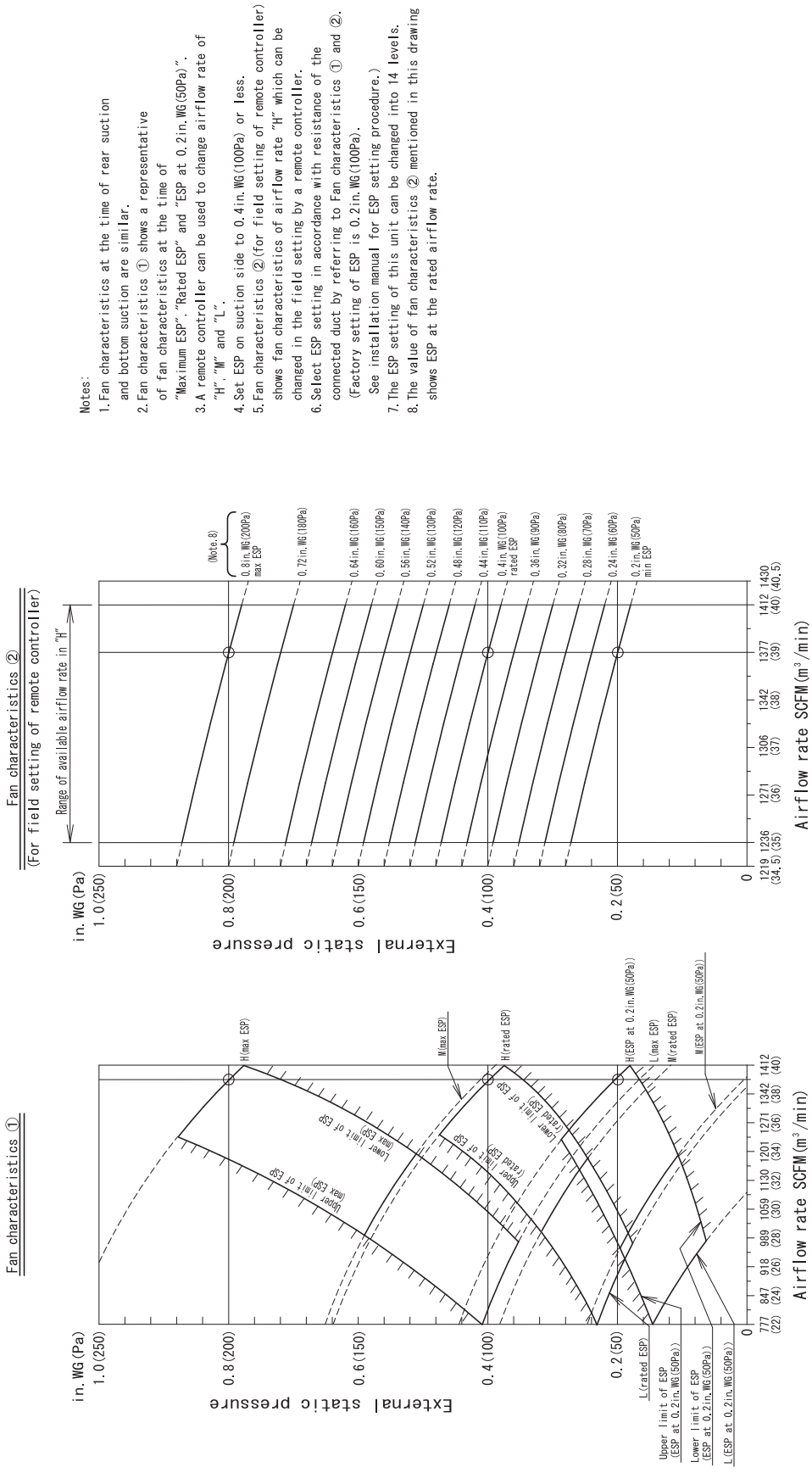
FBQ36TBVJU



Notes:
1. Fan characteristics at the time of rear suction and bottom suction are similar.
2. Fan characteristics ① shows a representative of fan characteristics at the time of "Maximum ESP", "Rated ESP" and "ESP at 0.2in.WG(50Pa)".
3. A remote controller can be used to change airflow rate of "H", "M" and "L".
4. Set ESP on suction side to 0.4in.WG(100Pa) or less.
5. Fan characteristics ②(for field setting of remote controller) shows fan characteristics of airflow rate "H" which can be changed in the field setting by a remote controller.
6. Select ESP setting in accordance with resistance of the connected duct by referring to Fan characteristics ① and ②. (Factory setting of ESP is 0.2in.WG(100Pa). See installation manual for ESP setting procedure.)
7. The ESP setting of this unit can be changed into 14 levels.
8. The value of fan characteristics ② mentioned in this drawing shows ESP at the rated airflow rate.

3D143369

FBQ42 - 48TBVJU



Notes:
1. Fan characteristics at the time of rear suction and bottom suction are similar.
2. Fan characteristics ① shows a representative of fan characteristics at the time of "Maximum ESP", "Rated ESP" and "ESP at 0.2in.WG(50Pa)".
3. A remote controller can be used to change airflow rate of "H", "M" and "L".
4. Set ESP on suction side to 0.4in.WG(100Pa) or less.
5. Fan characteristics ②(for field setting of remote controller) shows fan characteristics of airflow rate "H" which can be changed in the field setting by a remote controller.
6. Select ESP setting in accordance with resistance of the connected duct by referring to Fan characteristics ① and ②. (Factory setting of ESP is 0.2in.WG(100Pa).
   See installation manual for ESP setting procedure.)
7. The ESP setting of this unit can be changed into 14 levels.
8. The value of fan characteristics ② mentioned in this drawing shows ESP at the rated airflow rate.

3D143370

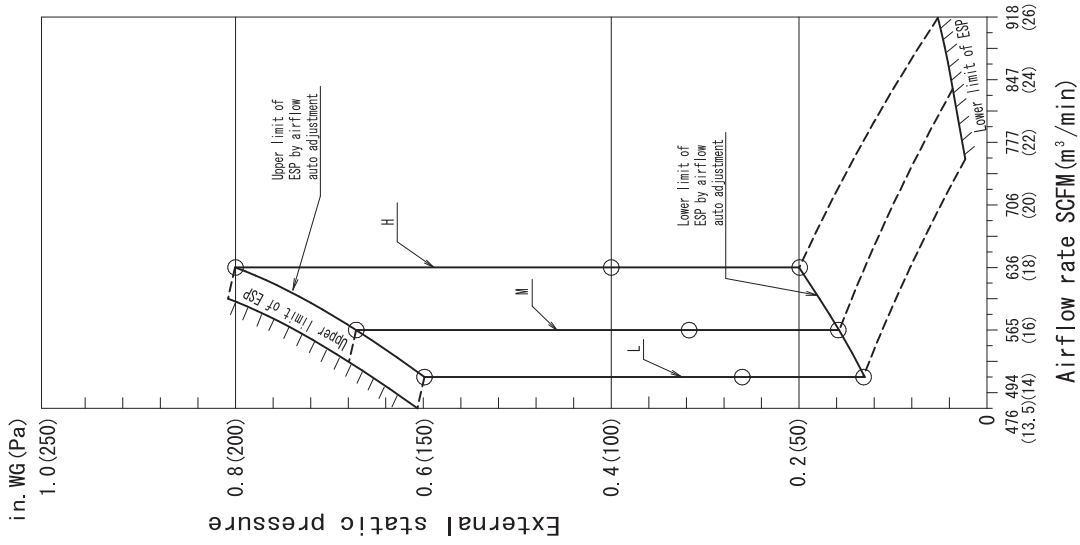
19.Airflow Auto Adjustment Characteristics

19.1 FBQ

FBQ18TBVJU

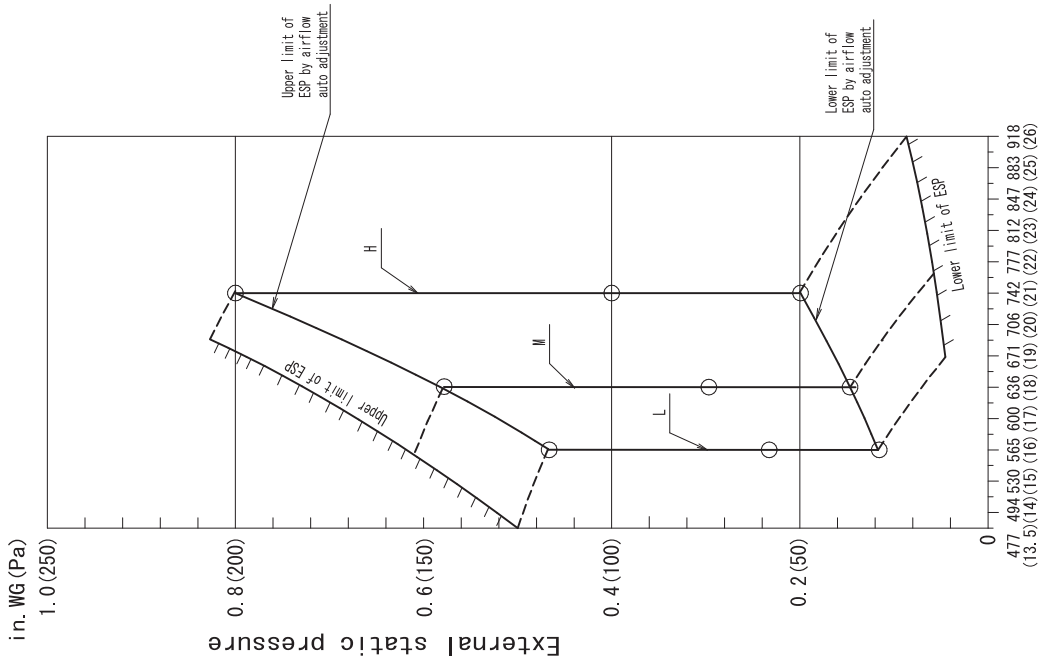
Notes:
1. This indoor unit has the "Airflow automatic adjustment" function, which automatically adjusts the airflow rate so as to be approximately in the range of ±10% of the rated value at the time of installation.
2. After duct construction completion, perform field setting "Airflow automatic adjustment" by remote controller.
3. About the field setting method of the "Airflow automatic adjustment", refer to the installation manual attached to indoor unit.
4. External static pressure that can be adjusted by "Airflow automatic adjustment" function is 0.2in.WG – 0.8in.WG (50Pa – 200Pa) (When airflow rate is "H").
5. If the unit is used beyond the range of the above external static pressure, the airflow rate can not be well-adjusted automatically, and the unit will operate with the airflow rate different from the rated value.
6. This figure shows fan characteristics at the time of "H", "M" and "L".
7. The remote controller can be used to change airflow rate of "H", "M" and "L".
8. ESP:External static pressure

3D143380



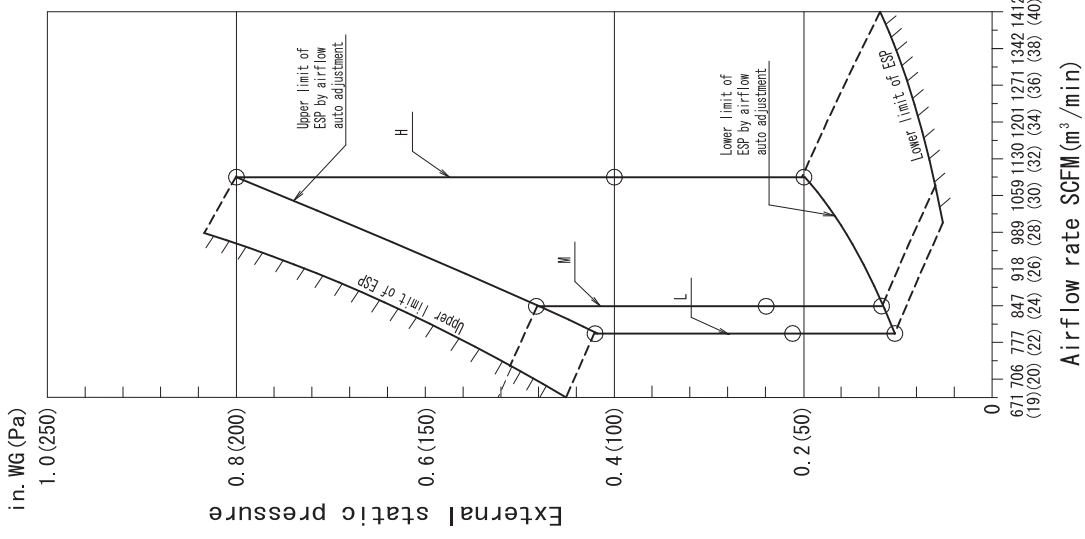
FBQ24TBVJU

Notes:
1. This indoor unit has the "Airflow automatic adjustment" function, which automatically adjusts the airflow rate so as to be approximately in the range of ±10% of the rated value at the time of installation.
2. After duct construction completion, perform field setting "Airflow automatic adjustment" by remote controller.
3. About the field setting method of the "Airflow automatic adjustment", refer to the installation manual attached to indoor unit.
4. External static pressure that can be adjusted by "Airflow automatic adjustment" function is 0.2in.WG – 0.8in.WG (50Pa – 200Pa) (When airflow rate is "H").
5. If the unit is used beyond the range of the above external static pressure, the airflow rate can not be well-adjusted automatically, and the unit will operate with the airflow rate different from the rated value.
6. This figure shows fan characteristics at the time of "H", "M" and "L".
7. The remote controller can be used to change airflow rate of "H", "M" and "L".
8. ESP:External static pressure



3D143381

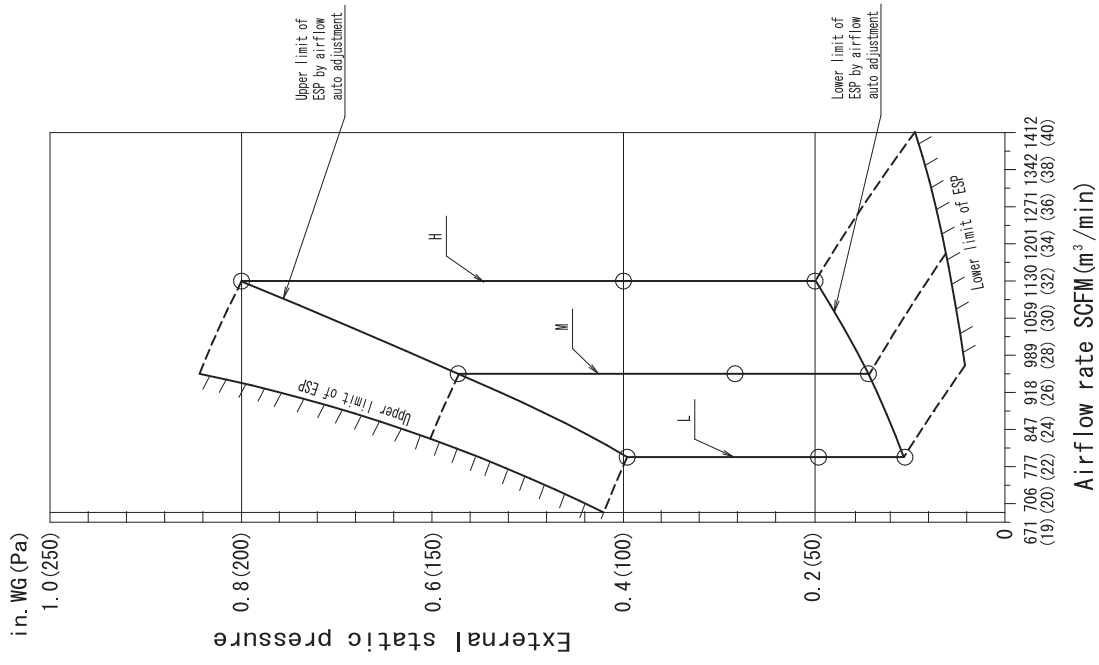
FBQ30TBVJU



Notes:
1. This indoor unit has the "Airflow automatic adjustment" function, which automatically adjusts the airflow rate so as to be approximately in the range of ±10% of the rated value at the time of installation.
2. After duct construction completion, perform field setting "Airflow automatic adjustment" by remote controller.
3. About the field setting method of the "Airflow automatic adjustment", refer to the installation manual attached to indoor unit.
4. External static pressure that can be adjusted by "Airflow automatic adjustment" function is 0.2in.WG – 0.8in.WG (50Pa – 200Pa) (When airflow rate is "H").
5. If the unit is used beyond the range of the above external static pressure, the airflow rate can not be well-adjusted automatically, and the unit will operate with the airflow rate different from the rated value.
6. This figure shows fan characteristics at the time of "H", "M" and "L".
7. The remote controller can be used to change airflow rate of "H", "M" and "L".
8. ESP: External static pressure

3D143382

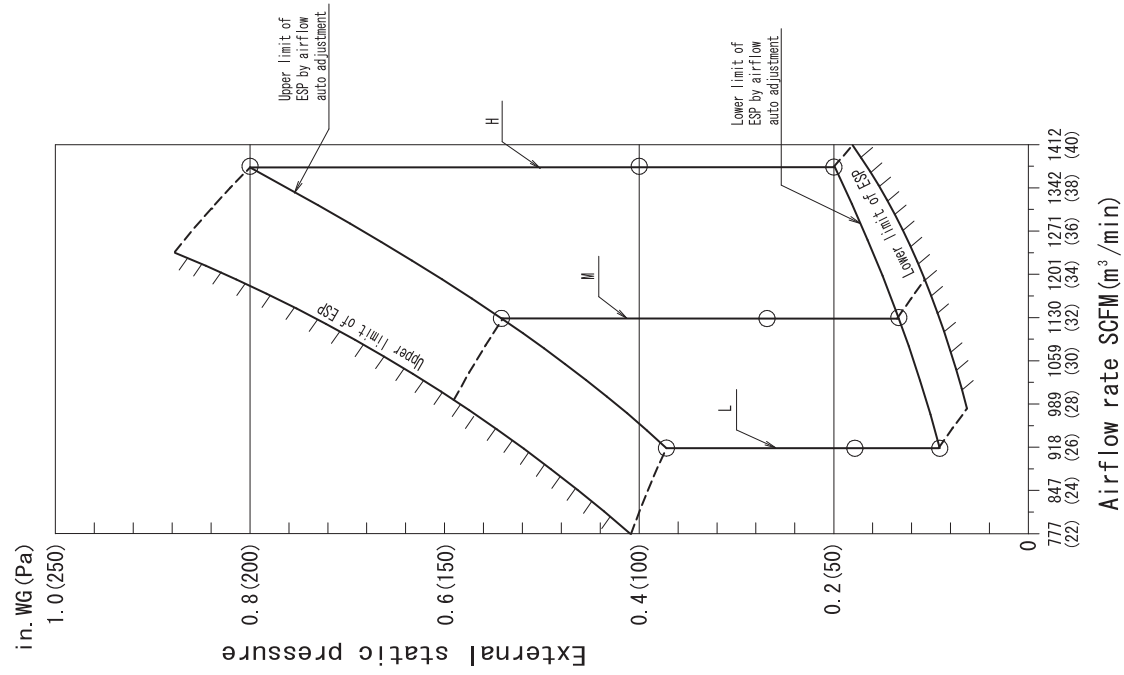
FBQ36TBVJU



3D143383

Notes:
1. This indoor unit has the "Airflow automatic adjustment" function, which automatically adjusts the airflow rate so as to be approximately in the range of ±10% of the rated value at the time of installation.
2. After duct construction completion, perform field setting "Airflow automatic adjustment" by remote controller.
3. About the field setting method of the "Airflow automatic adjustment", refer to the installation manual attached to indoor unit.
4. External static pressure that can be adjusted by "Airflow automatic adjustment" function is 0.2in.WG – 0.8in.WG (50Pa – 200Pa) (When airflow rate is "H").
5. If the unit is used beyond the range of the above external static pressure, the airflow rate can not be well-adjusted automatically, and the unit will operate with the airflow rate different from the rated value.
6. This figure shows fan characteristics at the time of "H", "M" and "L".
7. The remote controller can be used to change airflow rate of "H", "M" and "L".
8. ESP:External static pressure

FBQ42 - 48TBVJU

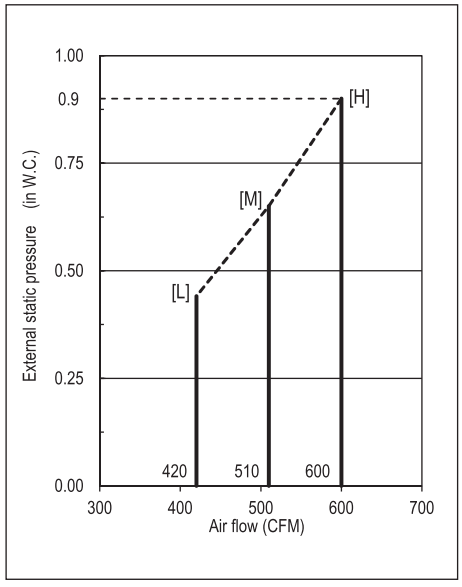


3D143384

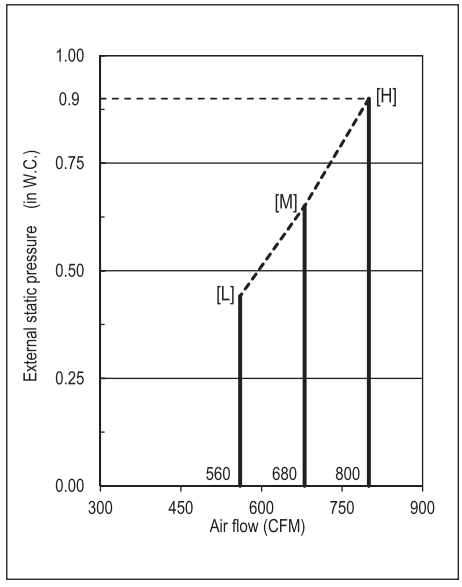
Notes:
1. This indoor unit has the "Airflow automatic adjustment" function, which automatically adjusts the airflow rate so as to be approximately in the range of ±10% of the rated value at the time of installation.
2. After duct construction completion, perform field setting "Airflow automatic adjustment" by remote controller.
3. About the field setting method of the "Airflow automatic adjustment", refer to the installation manual attached to indoor unit.
4. External static pressure that can be adjusted by "Airflow automatic adjustment" function is 0.2in.WG – 0.8in.WG (50Pa – 200Pa) (When airflow rate is "H").
5. If the unit is used beyond the range of the above external static pressure, the airflow rate can not be well-adjusted automatically, and the unit will operate with the airflow rate different from the rated value.
6. This figure shows fan characteristics at the time of "H", "M" and "L".
7. The remote controller can be used to change airflow rate of "H", "M" and "L".
8. ESP:External static pressure

19.2 FTQ

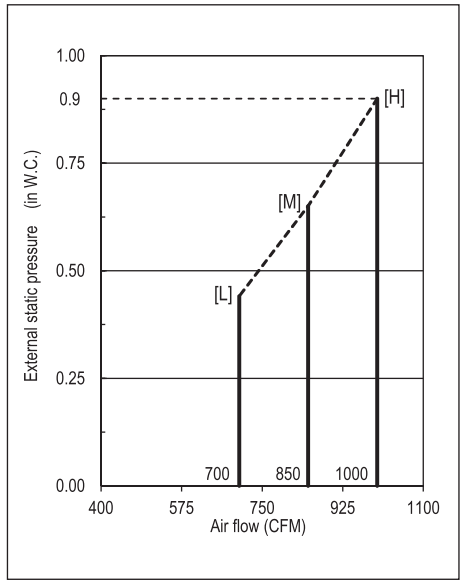
FTQ18TBVJUD
FTQ18TBVJUA



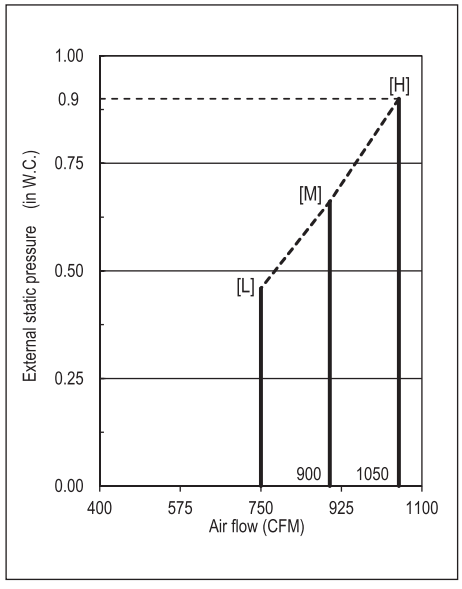
FTQ24TBVJUD
FTQ24TBVJUA



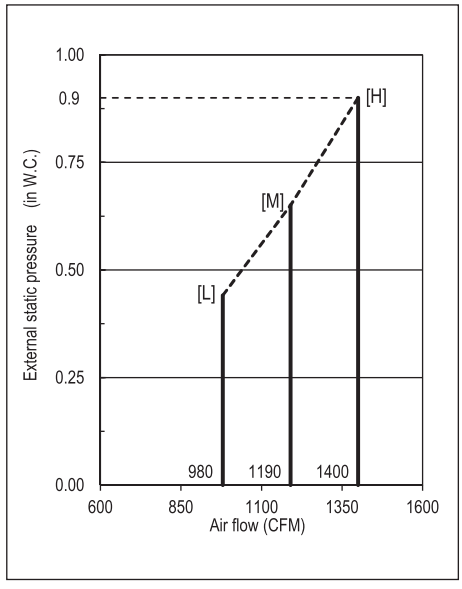
FTQ30TBVJUD
FTQ30TBVJUA



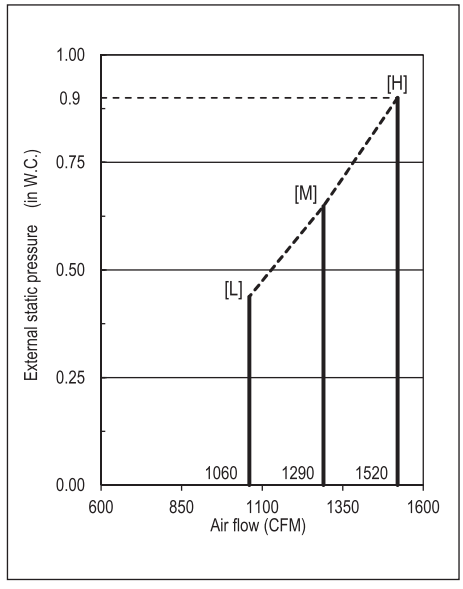
FTQ36TBVJUD
FTQ36TBVJUA



FTQ42TBVJUD
FTQ42TBVJUA



FTQ48TBVJUD
FTQ48TBVJUA



Note:

1. If the airflow is less than 10% of the rated air volume, it is automatically adjusted to the rated air volume.
2. The unit automatically adjusts the external static pressure between 0.0 in. W.C. - 0.9 in. W.C.
3. Airflow cannot operate at the rated value if it is outside the ESP range in the above graph.
4. Fan speed is changeable by using the remote controller.

Warning

- 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 unauthorised 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.

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.

●Specifications, designs and other content appearing in this brochure are current as of October 2023 but subject to change without notice.