DAIKIN

EDUS281849A-D

R-410A

Engineering Data

SkyAir

Cooling Only 60 Hz
Heat Pump 60 Hz

Design Manual

RZR-TAVJUA / RZQ-TAVJUA

INVERTER

SkyAir Engineering Data

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1. External Appearance

1.1 Indoor Unit

Ceiling mounted cassette type (round flow with sensing)

FCQ18TAVJU
FCQ24TAVJU
FCQ30TAVJU
FCQ36TAVJU
FCQ42TAVJU
FCQ48TAVJU

Ceiling suspended type

FHQ18PVJU
FHQ24PVJU
FHQ30PVJU
FHQ36MVJU
FHQ42MVJU

Wall mounted type

FAQ18TAVJU
FAQ24TAVJU

Ceiling mounted duct type

FBQ18PVJU
FBQ24PVJU
FBQ30PVJU
FBQ36PVJU
FBQ42PVJU
FBQ48PVJU

Air handling unit

FTQ18TAVJUD FTQ18TAVJUA
FTQ24TAVJUD FTQ24TAVJUA
FTQ30TAVJUD FTQ30TAVJUA
FTQ36TAVJUD FTQ36TAVJUA
FTQ42TAVJUD FTQ42TAVJUA
FTQ48TAVJUD FTQ48TAVJUA

1.2 Outdoor Unit

RZR18TAVJUA **RZR24TAVJUA** **RZQ18TAVJUA** **RZQ24TAVJUA**	
RZR30TAVJUA **RZR36TAVJUA** **RZR42TAVJUA** **RZR48TAVJUA** **RZQ30TAVJUA** **RZQ36TAVJUA** **RZQ42TAVJUA** **RZQ48TAVJUA**	

2. Model Name, Power Supply and Nomenclature

2.1 Model Name and Power Supply

2.1.1 Cooling Only

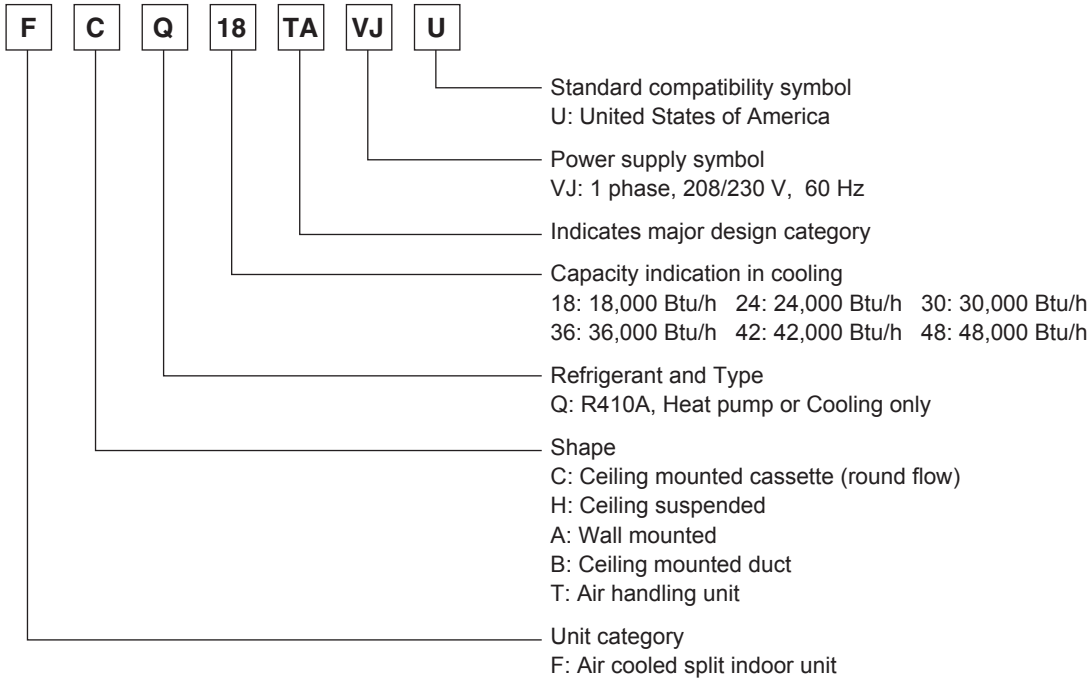
Indoor unit		Outdoor unit	Power supply intake
Ceiling mounted cassette type (round flow with sensing)	FCQ18TAVJU	RZR18TAVJUA	Indoor unit: 1 phase, 208/230 V, 60 Hz Outdoor unit: 1 phase, 208/230 V, 60 Hz
	FCQ24TAVJU	RZR24TAVJUA	
	FCQ30TAVJU	RZR30TAVJUA	
	FCQ36TAVJU	RZR36TAVJUA	
	FCQ42TAVJU	RZR42TAVJUA	
	FCQ48TAVJU	RZR48TAVJUA	
Ceiling suspended type	FHQ18PVJU	RZR18TAVJUA	
	FHQ24PVJU	RZR24TAVJUA	
	FHQ30PVJU	RZR30TAVJUA	
	FHQ36MVJU	RZR36TAVJUA	
	FHQ42MVJU	RZR42TAVJUA	
Wall mounted type	FAQ18TAVJU	RZR18TAVJUA	
	FAQ24TAVJU	RZR24TAVJUA	
Ceiling mounted duct type	FBQ18PVJU	RZR18TAVJUA	
	FBQ24PVJU	RZR24TAVJUA	
	FBQ30PVJU	RZR30TAVJUA	
	FBQ36PVJU	RZR36TAVJUA	
	FBQ42PVJU	RZR42TAVJUA	
	FBQ48PVJU	RZR48TAVJUA	
Air handling unit	FTQ18TAVJUD FTQ18TAVJUA	RZR18TAVJUA	
	FTQ24TAVJUD FTQ24TAVJUA	RZR24TAVJUA	
	FTQ30TAVJUD FTQ30TAVJUA	RZR30TAVJUA	
	FTQ36TAVJUD FTQ36TAVJUA	RZR36TAVJUA	
	FTQ42TAVJUD FTQ42TAVJUA	RZR42TAVJUA	
	FTQ48TAVJUD FTQ48TAVJUA	RZR48TAVJUA	

2.1.2 Heat Pump

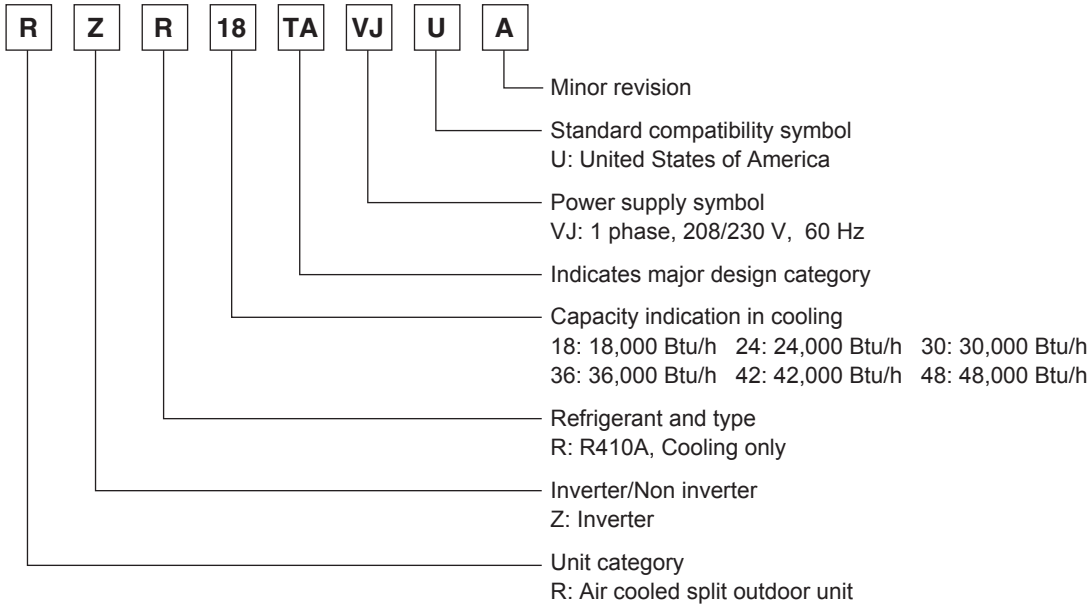
Indoor unit		Outdoor unit	Power supply intake
Ceiling mounted cassette type (round flow with sensing)	FCQ18TAVJU	RZQ18TAVJUA	Indoor unit: 1 phase, 208/230 V, 60 Hz Outdoor unit: 1 phase, 208/230 V, 60 Hz
	FCQ24TAVJU	RZQ24TAVJUA	
	FCQ30TAVJU	RZQ30TAVJUA	
	FCQ36TAVJU	RZQ36TAVJUA	
	FCQ42TAVJU	RZQ42TAVJUA	
	FCQ48TAVJU	RZQ48TAVJUA	
Ceiling suspended type	FHQ18PVJU	RZQ18TAVJUA	
	FHQ24PVJU	RZQ24TAVJUA	
	FHQ30PVJU	RZQ30TAVJUA	
	FHQ36MVJU	RZQ36TAVJUA	
	FHQ42MVJU	RZQ42TAVJUA	
Wall mounted type	FAQ18TAVJU	RZQ18TAVJUA	
	FAQ24TAVJU	RZQ24TAVJUA	
Ceiling mounted duct type	FBQ18PVJU	RZQ18TAVJUA	
	FBQ24PVJU	RZQ24TAVJUA	
	FBQ30PVJU	RZQ30TAVJUA	
	FBQ36PVJU	RZQ36TAVJUA	
	FBQ42PVJU	RZQ42TAVJUA	
	FBQ48PVJU	RZQ48TAVJUA	
Air handling unit	FTQ18TAVJUD FTQ18TAVJUA	RZQ18TAVJUA	
	FTQ24TAVJUD FTQ24TAVJUA	RZQ24TAVJUA	
	FTQ30TAVJUD FTQ30TAVJUA	RZQ30TAVJUA	
	FTQ36TAVJUD FTQ36TAVJUA	RZQ36TAVJUA	
	FTQ42TAVJUD FTQ42TAVJUA	RZQ42TAVJUA	
	FTQ48TAVJUD FTQ48TAVJUA	RZQ48TAVJUA	

2.2 Nomenclature

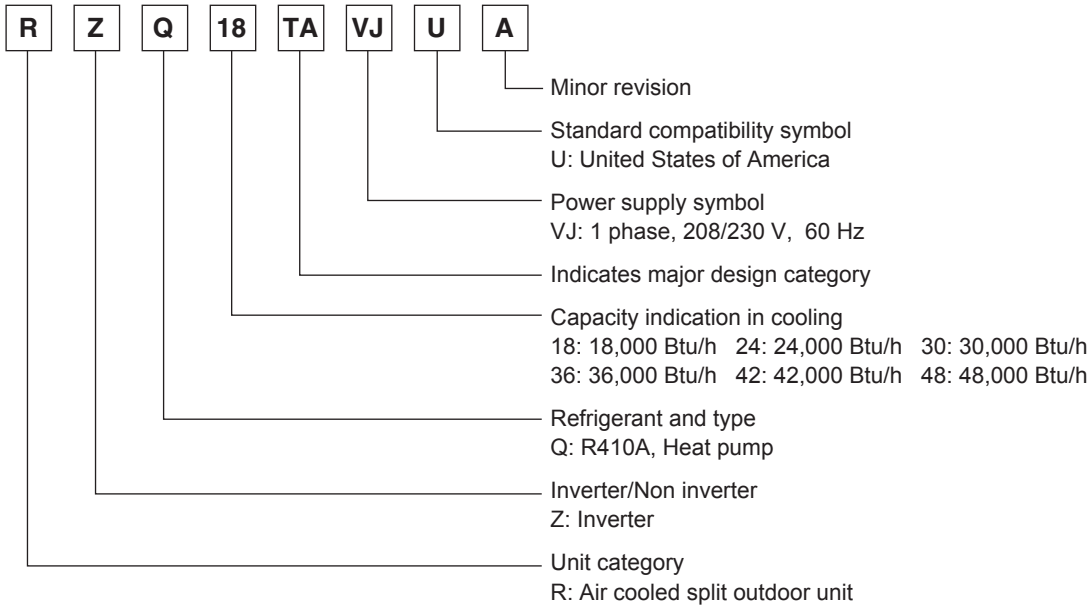
Indoor unit



Outdoor unit (cooling only)



Outdoor unit (heat pump)



3. Specifications

3.1 Cooling Only

3.1.1 FCQ

Ceiling mounted cassette type (round flow with sensing)

Model	Indoor unit			FCQ18TAVJU	FCQ24TAVJU
	Outdoor unit			RZR18TAVJUA	RZR24TAVJUA
Power supply				1 phase, 208/230 V, 60 Hz	1 phase, 208/230 V, 60 Hz
★1, ★2 Cooling capacity			Btu/h (kW)	18,000 (5.3)	24,000 (7.0)
SEER (Rated)				18.6	18.5
EER (Rated)			Btu/h-W	13.0	12.0
Indoor unit				**FCQ18TAVJU**	**FCQ24TAVJU**
Casing/color				Galvanized steel plate	Galvanized steel plate
Dimensions	H × W × D		in. (mm)	10–1/16 × 33–1/16 × 33–1/16 (256 × 840 × 840)	10–1/16 × 33–1/16 × 33–1/16 (256 × 840 × 840)
Coil	Type			Cross fin coil	Cross fin coil
	Rows × Stages × FPI			3 × (12 + 15 × 2) × (20 + 21 × 2)	3 × (12 + 15 × 2) × (20 + 21 × 2)
	Face area		ft.² (m²)	4.59 (0.427)	4.59 (0.427)
Fan	Model			QTS48C15M	QTS48C15M
	Type			Turbo fan	Turbo fan
	Motor output		W	48	48
	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)	63 (28.5)	63 (28.5)
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, BRC2A71	BRC1E73, BRC2A71
		Wireless		—	—
Decoration panel (accessory)	Model			BYCQ125B–W1 / BYCQ125BGW1	BYCQ125B–W1 / BYCQ125BGW1
	Color			Fresh white	Fresh white
	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)	12.2 (5.5) / 22.1 (10.0)	12.2 (5.5) / 22.1 (10.0)
Outdoor unit				**RZR18TAVJUA**	**RZR24TAVJUA**
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
	Rows × Stages × FPI			2 × 44 × 19	2 × 44 × 19
	Face area		ft.² (m²)	9.5 (0.88)	9.5 (0.88)
Compressor	Model			2YC63TXD#A	2YC63TXD#A
	Type			Hermetically sealed swing type	Hermetically sealed swing type
	Motor output		kW	1.9	1.9
Fan	Model			P51J11F	P51J11F
	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			Refer to the name plate of compressor.	Refer to the name plate of compressor.
	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), level difference: 0 ft. (0 m).

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

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

Model	Indoor unit			FCQ30TAVJU	FCQ36TAVJU
	Outdoor unit			RZR30TAVJUA	RZR36TAVJUA
Power supply				1 phase, 208/230 V, 60 Hz	1 phase, 208/230 V, 60 Hz
★1, ★2 Cooling capacity			Btu/h (kW)	30,000 (8.8)	36,000 (10.6)
SEER (Rated)				17.2	17.6
EER (Rated)			Btu/h-W	9.3	11.4
Indoor unit				**FCQ30TAVJU**	**FCQ36TAVJU**
Casing/color				Galvanized steel plate	Galvanized steel plate
Dimensions	H × W × D		in. (mm)	11–23/32 × 33–1/16 × 33–1/16 (298 × 840 × 840)	11–23/32 × 33–1/16 × 33–1/16 (298 × 840 × 840)
Coil	Type			Cross fin coil	Cross fin coil
	Rows × Stages × FPI			3 × 18 × (20 + 21 × 2)	3 × 18 × (20 + 21 × 2)
	Face area		ft.² (m²)	5.92 (0.550)	5.92 (0.550)
Fan	Model			QTS48C15M	QTS48C15M
	Type			Turbo fan	Turbo fan
	Motor output		W	106	106
	Airflow rate (H/M/L)		cfm (m^3/min)	1,112/918/671 (31.5/26.0/19.0)	1,165/918/671 (33.0/26.0/19.0)
	External static pressure		in.H_2O (Pa)	—	—
Air filter				—	—
Weight			lbs (kg)	70 (31.5)	70 (31.5)
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, BRC2A71	BRC1E73, BRC2A71
		Wireless		—	—
Decoration panel (accessory)	Model			BYCQ125B–W1 / BYCQ125BGW1	BYCQ125B–W1 / BYCQ125BGW1
	Color			Fresh white	Fresh white
	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)	12.2 (5.5) / 22.1 (10.0)	12.2 (5.5) / 22.1 (10.0)
Outdoor unit				**RZR30TAVJUA**	**RZR36TAVJUA**
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
	Rows × Stages × FPI			2 × 60 × 19	2 × 60 × 19
	Face area		ft.² (m²)	12.2 (1.134)	12.2 (1.134)
Compressor	Model			2YC90FXD#A	2YC90FXD#A
	Type			Hermetically sealed swing type	Hermetically sealed swing type
	Motor output		kW	3.5	3.5
Fan	Model			P47N	P47N
	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			Refer to the name plate of compressor.	Refer to the name plate of compressor.
	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), level difference: 0 ft. (0 m).

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

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

Model	Indoor unit			FCQ42TAVJU	FCQ48TAVJU
	Outdoor unit			RZR42TAVJUA	RZR48TAVJUA
Power supply				1 phase, 208/230 V, 60 Hz	1 phase, 208/230 V, 60 Hz
★1, ★2 Cooling capacity			Btu/h (kW)	42,000 (12.3)	48,000 (14.1)
SEER (Rated)				17.0	17.0
EER (Rated)			Btu/h-W	10.3	9.0
Indoor unit				**FCQ42TAVJU**	**FCQ48TAVJU**
Casing/color				Galvanized steel plate	Galvanized steel plate
Dimensions	H × W × D		in. (mm)	11–23/32 × 33–1/16 × 33–1/16 (298 × 840 × 840)	11–23/32 × 33–1/16 × 33–1/16 (298 × 840 × 840)
Coil	Type			Cross fin coil	Cross fin coil
	Rows × Stages × FPI			3 × 18 × (20 + 21 × 2)	3 × 18 × (20 + 21 × 2)
	Face area		ft.² (m²)	5.92 (0.550)	5.92 (0.550)
Fan	Model			QTS48C15M	QTS48C15M
	Type			Turbo fan	Turbo fan
	Motor output		W	106	106
	Airflow rate (H/M/L)		cfm (m^3/min)	1,218/971/742 (34.5/27.5/21.0)	1,218/971/742 (34.5/27.5/21.0)
	External static pressure		in.H_2O (Pa)	—	—
Air filter				—	—
Weight			lbs (kg)	70 (31.5)	70 (31.5)
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, BRC2A71	BRC1E73, BRC2A71
		Wireless		—	—
Decoration panel (accessory)	Model			BYCQ125B–W1 / BYCQ125BGW1	BYCQ125B–W1 / BYCQ125BGW1
	Color			Fresh white	Fresh white
	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)	12.2 (5.5) / 22.1 (10.0)	12.2 (5.5) / 22.1 (10.0)
Outdoor unit				**RZR42TAVJUA**	**RZR48TAVJUA**
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
	Rows × Stages × FPI			2 × 60 × 19	2 × 60 × 19
	Face area		ft.² (m²)	12.2 (1.134)	12.2 (1.134)
Compressor	Model			2YC90FXD#A	2YC90FXD#A
	Type			Hermetically sealed swing type	Hermetically sealed swing type
	Motor output		kW	3.5	3.5
Fan	Model			P47N	P47N
	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			Refer to the name plate of compressor.	Refer to the name plate of compressor.
	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), level difference: 0 ft. (0 m).

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

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3.1.2 FHQ

Ceiling suspended type

Model	Indoor unit			FHQ18PVJU	FHQ24PVJU
	Outdoor unit			RZR18TAVJUA	RZR24TAVJUA
Power supply				1 phase, 208/230 V, 60 Hz	1 phase, 208/230 V, 60 Hz
★1, ★2 Cooling capacity			Btu/h (kW)	18,000 (5.3)	24,000 (7.0)
SEER (Rated)				16.3	16.6
EER (Rated)			Btu/h-W	12.9	11.3
Indoor unit				**FHQ18PVJU**	**FHQ24PVJU**
Casing/color				White (10Y9/0.5)	White (10Y9/0.5)
Dimensions	H × W × D		in. (mm)	7–11/16 × 62–5/8 × 26–3/4 (195 × 1,590 × 680)	7–11/16 × 62–5/8 × 26–3/4 (195 × 1,590 × 680)
Coil	Type			Cross fin coil	Cross fin coil
	Rows × Stages × FPI			2 × 12 × 15 + 2 × 10 × 15	2 × 12 × 15 + 2 × 10 × 15
	Face area		ft.² (m²)	3.66 (0.34) + 2.95 (0.27)	3.66 (0.34) + 2.95 (0.27)
Fan	Model			—	—
	Type			Sirocco fan	Sirocco fan
	Motor output		W	130	130
	Airflow rate (H/L)		cfm (m^3/min)	790/670 (22.4/19.0)	790/670 (22.4/19.0)
	External static pressure		in.H_2O (Pa)	—	—
Air filter				Resin net (with mold resistance)	Resin net (with mold resistance)
Weight			lbs (kg)	90 (19.8)	90 (19.8)
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)	VP20 (external dia. 1 (26), internal dia. 3/4 (19.1))	VP20 (external dia. 1 (26), internal dia. 3/4 (19.1))
Remote controller (accessory)		Wired		BRC1E73, BRC2A71	BRC1E73, BRC2A71
		Wireless		BRC7E83	BRC7E83
Outdoor unit				**RZR18TAVJUA**	**RZR24TAVJUA**
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
	Rows × Stages × FPI			2 × 44 × 19	2 × 44 × 19
	Face area		ft.² (m²)	9.5 (0.88)	9.5 (0.88)
Compressor	Model			2YC63TXD#A	2YC63TXD#A
	Type			Hermetically sealed swing type	Hermetically sealed swing type
	Motor output		kW	1.9	1.9
Fan	Model			P51J11F	P51J11F
	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			Refer to the name plate of compressor.	Refer to the name plate of compressor.
	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), level difference: 0 ft. (0 m).

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

C: 4D126355

Ceiling suspended type, continued

Model	Indoor unit			FHQ30PVJU	FHQ36MVJU
	Outdoor unit			RZR30TAVJUA	RZR36TAVJUA
Power supply				1 phase, 208/230 V, 60 Hz	1 phase, 208/230 V, 60 Hz
★1, ★2 Cooling capacity			Btu/h (kW)	30,000 (8.8)	36,000 (10.6)
SEER (Rated)				16.0	14.0
EER (Rated)			Btu/h-W	10.5	9.5
Indoor unit				**FHQ30PVJU**	**FHQ36MVJU**
Casing/color				White (10Y9/0.5)	White (10Y9/0.5)
Dimensions	H × W × D		in. (mm)	7–11/16 × 62–5/8 × 26–3/4 (195 × 1,590 × 680)	7–11/16 × 62–5/8 × 26–3/4 (195 × 1,590 × 680)
Coil	Type			Cross fin coil	Cross fin coil
	Rows × Stages × FPI			2 × 12 × 15 + 2 × 10 × 15	2 × 12 × 15 + 2 × 10 × 15
	Face area		ft.² (m²)	3.66 (0.34) + 2.95 (0.27)	3.66 (0.34) + 2.95 (0.27)
Fan	Model			—	—
	Type			Sirocco fan	Sirocco fan
	Motor output		W	130	130
	Airflow rate (H/L)		cfm (m^3/min)	790/670 (22.4/19.0)	830/670 (23.5/19.0)
	External static pressure		in.H_2O (Pa)	—	—
Air filter				Resin net (with mold resistance)	Resin net (with mold resistance)
Weight			lbs (kg)	90 (19.8)	90 (19.8)
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)	VP20 (external dia. 1 (26), internal dia. 3/4 (19.1))	VP20 (external dia. 1 (26), internal dia. 3/4 (19.1))
Remote controller (accessory)		Wired		BRC1E73, BRC2A71	BRC1E73, BRC2A71
		Wireless		BRC7E83	BRC7E83
Outdoor unit				**RZR30TAVJUA**	**RZR36TAVJUA**
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
	Rows × Stages × FPI			2 × 60 × 19	2 × 60 × 19
	Face area		ft.² (m²)	12.2 (1.134)	12.2 (1.134)
Compressor	Model			2YC90FXD#A	2YC90FXD#A
	Type			Hermetically sealed swing type	Hermetically sealed swing type
	Motor output		kW	3.5	3.5
Fan	Model			P47N	P47N
	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			Refer to the name plate of compressor.	Refer to the name plate of compressor.
	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), level difference: 0 ft. (0 m).

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

C: 4D126357

Ceiling suspended type, continued

Model	Indoor unit			FHQ42MVJU
	Outdoor unit			RZR42TAVJUA
Power supply				1 phase, 208/230 V, 60 Hz
★1, ★2 Cooling capacity			Btu/h (kW)	40,500 (11.9)
SEER (Rated)				14.0
EER (Rated)			Btu/h-W	8.8
Indoor unit				**FHQ42MVJU**
Casing/color				White (10Y9/0.5)
Dimensions	H × W × D		in. (mm)	7–11/16 × 62–5/8 × 26–3/4 (195 × 1,590 × 680)
Coil	Type			Cross fin coil
	Rows × Stages × FPI			2 × 12 × 15 + 2 × 10 × 15
	Face area		ft.² (m²)	3.66 (0.34) + 2.95 (0.27)
Fan	Model			—
	Type			Sirocco fan
	Motor output		W	130
	Airflow rate (H/L)		cfm (m^3/min)	850/700 (24.1/19.8)
	External static pressure		in.H_2O (Pa)	—
Air filter				Resin net (with mold resistance)
Weight			lbs (kg)	90 (19.8)
Piping connections		Liquid	in. (mm)	ϕ3/8 (ϕ9.5) (flare connection)
		Gas	in. (mm)	ϕ5/8 (ϕ15.9) (flare connection)
		Drain	in. (mm)	VP20 (external dia. 1 (26), internal dia. 3/4 (19.1))
Remote controller (accessory)		Wired		BRC1E73, BRC2A71
		Wireless		BRC7E83
Outdoor unit				**RZR42TAVJUA**
Casing/color				Ivory white
Dimensions	H × W × D		in. (mm)	52–15/16 × 35–7/16 × 12–5/8 (1,345 × 900 × 320)
Coil	Type			Cross fin coil
	Rows × Stages × FPI			2 × 60 × 19
	Face area		ft.² (m²)	12.2 (1.134)
Compressor	Model			2YC90FXD#A
	Type			Hermetically sealed swing type
	Motor output		kW	3.5
Fan	Model			P47N
	Type			Propeller fan
	Motor output		W	70 × 2
	Airflow rate		cfm (m^3/min)	3,741 (106)
Weight			lbs (kg)	225 (102)
Piping connections		Liquid	in. (mm)	ϕ3/8 (ϕ9.5) (flare connection)
		Gas	in. (mm)	ϕ5/8 (ϕ15.9) (flare connection)
		Drain	in. (mm)	ϕ1 (ϕ26) (hole)
Safety devices				High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plug, Fuse
Capacity step			%	14-100
Refrigerant control				Electronic expansion valve
Ref. piping	Standard length		ft (m)	25 (7.6)
	Max. length		ft (m)	230 (70)
	Max. height difference		ft (m)	98 (30)
Refrigerant	Type			R410A
	Charge		lbs (kg)	7.9 (3.6)
Ref. oil	Type			Refer to the name plate of compressor.
	Charge		L	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), level difference: 0 ft. (0 m).

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

C: 4D126357

3.1.3 FAQ

Wall mounted type

Model	Indoor unit			FAQ18TAVJU	FAQ24TAVJU
	Outdoor unit			RZR18TAVJUA	RZR24TAVJUA
Power supply				1 phase, 208/230 V, 60 Hz	1 phase, 208/230 V, 60 Hz
★1, ★2 Cooling capacity			Btu/h (kW)	18,000 (5.3)	24,000 (7.0)
SEER (Rated)				17.0	17.6
EER (Rated)			Btu/h-W	11.9	10.2
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
	Rows × Stages × FPI			2 × 14 × 7	2 × 14 × 7
	Face area		ft.² (m²)	1.73 (0.16)	1.73 (0.16)
Fan	Model			QCL9686M	QCL9686M
	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, BRC2A71	BRC1E73, BRC2A71
		Wireless		BRC7E818	BRC7E818
Outdoor unit				**RZR18TAVJUA**	**RZR24TAVJUA**
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
	Rows × Stages × FPI			2 × 44 × 19	2 × 44 × 19
	Face area		ft.² (m²)	9.5 (0.88)	9.5 (0.88)
Compressor	Model			2YC63TXD#A	2YC63TXD#A
	Type			Hermetically sealed swing type	Hermetically sealed swing type
	Motor output		kW	1.9	1.9
Fan	Model			P51J11F	P51J11F
	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			Refer to the name plate of compressor.	Refer to the name plate of compressor.
	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), level difference: 0 ft. (0 m).

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

C: 4D126349

3.1.4 FBQ

Ceiling mounted duct type

Model	Indoor unit			FBQ18PVJU	FBQ24PVJU
	Outdoor unit			RZR18TAVJUA	RZR24TAVJUA
Power supply				1 phase, 208/230 V, 60 Hz	1 phase, 208/230 V, 60 Hz
★1, ★2 Cooling capacity			Btu/h (kW)	18,000 (5.3)	24,000 (7.0)
SEER (Rated)				16.7	16.5
EER (Rated)			Btu/h-W	13.0	12.0
Indoor unit				**FBQ18PVJU**	**FBQ24PVJU**
Casing/color				Galvanized steel plate	Galvanized steel plate
Dimensions	H × W × D		in. (mm)	11–13/16 × 39–3/8 × 27–9/16 (300 × 1,000 × 700)	11–13/16 × 39–3/8 × 27–9/16 (300 × 1,000 × 700)
Coil	Type			Cross fin coil	Cross fin coil
	Rows × Stages × FPI			3 × 16 × 15	3 × 16 × 15
	Face area		ft.² (m²)	2.68 (0.249)	2.68 (0.249)
Fan	Model			—	—
	Type			Sirocco fan	Sirocco fan
	Motor output		W	350	350
	Airflow rate (H/M/L)		cfm (m^3/min)	635/582/529 (18.0/16.5/15.0)	688/618/565 (19.5/17.5/16.0)
	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)	80 (36)	80 (36)
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, BRC2A71	BRC1E73, BRC2A71
		Wireless		BRC4C82, BRC082A43	BRC4C82, BRC082A43
Outdoor unit				**RZR18TAVJUA**	**RZR24TAVJUA**
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
	Rows × Stages × FPI			2 × 44 × 19	2 × 44 × 19
	Face area		ft.² (m²)	9.5 (0.88)	9.5 (0.88)
Compressor	Model			2YC63TXD#A	2YC63TXD#A
	Type			Hermetically sealed swing type	Hermetically sealed swing type
	Motor output		kW	1.9	1.9
Fan	Model			P51J11F	P51J11F
	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			Refer to the name plate of compressor.	Refer to the name plate of compressor.
	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), level 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: 4D126351

Ceiling mounted duct type, continued

Model	Indoor unit			FBQ30PVJU	FBQ36PVJU
	Outdoor unit			RZR30TAVJUA	RZR36TAVJUA
Power supply				1 phase, 208/230 V, 60 Hz	1 phase, 208/230 V, 60 Hz
★1, ★2 Cooling capacity			Btu/h (kW)	30,000 (8.8)	36,000 (10.6)
SEER (Rated)				16.0	17.5
EER (Rated)			Btu/h-W	10.5	11.1
Indoor unit				**FBQ30PVJU**	**FBQ36PVJU**
Casing/color				Galvanized steel plate	Galvanized steel plate
Dimensions	H × W × D		in. (mm)	11–13/16 × 39–3/8 × 27–9/16 (300 × 1,000 × 700)	11–13/16 × 55–1/8 × 27–9/16 (300 × 1,400 × 700)
Coil	Type			Cross fin coil	Cross fin coil
	Rows × Stages × FPI			3 × 16 × 15	3 × 16 × 15
	Face area		ft.² (m²)	2.68 (0.249)	4.12 (0.383)
Fan	Model			—	—
	Type			Sirocco fan	Sirocco fan
	Motor output		W	350	350
	Airflow rate (H/M/L)		cfm (m^3/min)	882/794/706 (25.0/22.0/20.0)	1,130/953/812 (32.0/27.0/23.0)
	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)	80 (36)	102 (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, BRC2A71	BRC1E73, BRC2A71
		Wireless		BRC4C82, BRC082A43	BRC4C82, BRC082A43
Outdoor unit				**RZR30TAVJUA**	**RZR36TAVJUA**
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
	Rows × Stages × FPI			2 × 60 × 19	2 × 60 × 19
	Face area		ft.² (m²)	12.2 (1.134)	12.2 (1.134)
Compressor	Model			2YC90FXD#A	2YC90FXD#A
	Type			Hermetically sealed swing type	Hermetically sealed swing type
	Motor output		kW	3.5	3.5
Fan	Model			P47N	P47N
	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			Refer to the name plate of compressor.	Refer to the name plate of compressor.
	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), level 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.

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Ceiling mounted duct type, continued

Model	Indoor unit			FBQ42PVJU	FBQ48PVJU
	Outdoor unit			RZR42TAVJUA	RZR48TAVJUA
Power supply				1 phase, 208/230 V, 60 Hz	1 phase, 208/230 V, 60 Hz
★1, ★2 Cooling capacity			Btu/h (kW)	40,500 (11.9)	48,000 (14.1)
SEER (Rated)				16.0	14.0
EER (Rated)			Btu/h-W	10.1	8.6
Indoor unit				**FBQ42PVJU**	**FBQ48PVJU**
Casing/color				Galvanized steel plate	Galvanized steel plate
Dimensions	H × W × D		in. (mm)	11–13/16 × 55–1/8 × 27–9/16 (300 × 1,400 × 700)	11–13/16 × 55–1/8 × 27–9/16 (300 × 1,400 × 700)
Coil	Type			Cross fin coil	Cross fin coil
	Rows × Stages × FPI			3 × 16 × 15	3 × 16 × 15
	Face area		ft.² (m²)	4.12 (0.383)	4.12 (0.383)
Fan	Model			—	—
	Type			Sirocco fan	Sirocco fan
	Motor output		W	350	350
	Airflow rate (H/M/L)		cfm (m³/min)	1,400/1,165/988 (39.6/33.0/28.0)	1,400/1,165/988 (39.6/33.0/28.0)
	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)	102 (46)	102 (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, BRC2A71	BRC1E73, BRC2A71
		Wireless		BRC4C82, BRC082A43	BRC4C82, BRC082A43
Outdoor unit				**RZR42TAVJUA**	**RZR48TAVJUA**
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
	Rows × Stages × FPI			2 × 60 × 19	2 × 60 × 19
	Face area		ft.² (m²)	12.2 (1.134)	12.2 (1.134)
Compressor	Model			2YC90FXD#A	2YC90FXD#A
	Type			Hermetically sealed swing type	Hermetically sealed swing type
	Motor output		kW	3.5	3.5
Fan	Model			P47N	P47N
	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			Refer to the name plate of compressor.	Refer to the name plate of compressor.
	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), level 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.

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3.1.5 FTQ

Air handling unit

Model	Indoor unit	with factory disconnect		FTQ18TAVJUD	FTQ24TAVJUD
		without factory disconnect		FTQ18TAVJUA	FTQ24TAVJUA
	Outdoor unit			RZR18TAVJUA	RZR24TAVJUA
Power supply				1 phase, 208/230 V, 60 Hz	1 phase, 208/230 V, 60 Hz
★1, ★2 Cooling capacity			Btu/h (kW)	18,000 (5.3)	24,000 (7.0)
SEER (Rated)				15.5	15.2
EER (Rated)			Btu/h-W	12.5	10.3
Indoor unit		with factory disconnect		FTQ18TAVJUD	FTQ24TAVJUD
		without factory disconnect		FTQ18TAVJUA	FTQ24TAVJUA
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
	Face area		ft.² (m²)	3.75 (35)	3.75 (35)
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, BRC2A71	BRC1E73, BRC2A71
		Wireless		BRC4C82	BRC4C82
Outdoor unit				RZR18TAVJUA	RZR24TAVJUA
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
	Rows × Stages × FPI			2 × 44 × 19	2 × 44 × 19
	Face area		ft.² (m²)	9.5 (0.88)	9.5 (0.88)
Compressor	Model			2YC63TXD#A	2YC63TXD#A
	Type			Hermetically sealed swing type	Hermetically sealed swing type
	Motor output		kW	1.9	1.9
Fan	Model			P51J11F	P51J11F
	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			Refer to the name plate of compressor.	Refer to the name plate of compressor.
	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), level 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		FTQ30TAVJUD	FTQ36TAVJUD
		without factory disconnect		FTQ30TAVJUA	FTQ36TAVJUA
	Outdoor unit			RZR30TAVJUA	RZR36TAVJUA
Power supply				1 phase, 208/230 V, 60 Hz	1 phase, 208/230 V, 60 Hz
★1, ★2 Cooling capacity			Btu/h (kW)	30,000 (8.8)	36,000 (10.6)
SEER (Rated)				16.0	15.3
EER (Rated)			Btu/h-W	12.5	11.3
Indoor unit		**with factory disconnect**		**FTQ30TAVJUD**	**FTQ36TAVJUD**
		without factory disconnect		**FTQ30TAVJUA**	**FTQ36TAVJUA**
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
	Face area		ft.² (m²)	3.75 (35)	3.75 (35)
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, BRC2A71	BRC1E73, BRC2A71
		Wireless		BRC4C82	BRC4C82
Outdoor unit				**RZR30TAVJUA**	**RZR36TAVJUA**
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
	Rows × Stages × FPI			2 × 60 × 19	2 × 60 × 19
	Face area		ft.² (m²)	12.2 (1.134)	12.2 (1.134)
Compressor	Model			2YC90FXD#A	2YC90FXD#A
	Type			Hermetically sealed swing type	Hermetically sealed swing type
	Motor output		kW	3.5	3.5
Fan	Model			P47N	P47N
	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			Refer to the name plate of compressor.	Refer to the name plate of compressor.
	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), level 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		FTQ42TAVJUD	FTQ48TAVJUD
		without factory disconnect		FTQ42TAVJUA	FTQ48TAVJUA
	Outdoor unit			RZR42TAVJUA	RZR48TAVJUA
Power supply				1 phase, 208/230 V, 60 Hz	1 phase, 208/230 V, 60 Hz
★1, ★2 Cooling capacity			Btu/h (kW)	42,000 (12.3)	48,000 (14.1)
SEER (Rated)				16.0	14.8
EER (Rated)			Btu/h-W	11.0	9.5
Indoor unit		**with factory disconnect**		**FTQ42TAVJUD**	**FTQ48TAVJUD**
		without factory disconnect		**FTQ42TAVJUA**	**FTQ48TAVJUA**
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
	Face area		ft.² (m²)	5.15 (48)	5.15 (48)
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, BRC2A71	BRC1E73, BRC2A71
		Wireless		BRC4C82	BRC4C82
Outdoor unit				**RZR42TAVJUA**	**RZR48TAVJUA**
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
	Rows × Stages × FPI			2 × 60 × 19	2 × 60 × 19
	Face area		ft.² (m²)	12.2 (1.134)	12.2 (1.134)
Compressor	Model			2YC90FXD#A	2YC90FXD#A
	Type			Hermetically sealed swing type	Hermetically sealed swing type
	Motor output		kW	3.5	3.5
Fan	Model			P47N	P47N
	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			Refer to the name plate of compressor.	Refer to the name plate of compressor.
	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), level 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.

3.2 Heat Pump

3.2.1 FCQ

Ceiling mounted cassette type (round flow with sensing)

Model	Indoor unit			FCQ18TAVJU	FCQ24TAVJU
	Outdoor unit			RZQ18TAVJUA	RZQ24TAVJUA
Power supply				1 phase, 208/230 V, 60 Hz	1 phase, 208/230 V, 60 Hz
★1, ★4 Cooling capacity			Btu/h (kW)	18,000 (5.3)	24,000 (7.0)
★2, ★4 Heating capacity			Btu/h (kW)	20,000 (5.9)	27,000 (7.9)
★3, ★4 Heating capacity			Btu/h (kW)	12,000 (3.5)	18,000 (5.3)
SEER (Rated)				18.6	18.5
EER (Rated)			Btu/h-W	13.0	12.0
HSPF (Rated)				10.1	10.2
Indoor unit				**FCQ18TAVJU**	**FCQ24TAVJU**
Casing/color				Galvanized steel plate	Galvanized steel plate
Dimensions	H × W × D		in. (mm)	10–1/16 × 33–1/16 × 33–1/16 (256 × 840 × 840)	10–1/16 × 33–1/16 × 33–1/16 (256 × 840 × 840)
Coil	Type			Cross fin coil	Cross fin coil
	Rows × Stages × FPI			3 × (12 + 15× 2) × (20 + 21 × 2)	3 × (12 + 15× 2) × (20 + 21 × 2)
	Face area		ft.² (m²)	4.59 (0.427)	4.59 (0.427)
Fan	Model			QTS48C15M	QTS48C15M
	Type			Turbo fan	Turbo fan
	Motor output		W	48	48
	Airflow rate (H/M/L)		cfm (m³/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)	63 (28.5)	63 (28.5)
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, BRC2A71	BRC1E73, BRC2A71
		Wireless		—	—
Decoration panel (accessory)	Model			BYCQ125B–W1 / BYCQ125BGW1	BYCQ125B–W1 / BYCQ125BGW1
	Color			Fresh white	Fresh white
	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)	12.2 (5.5) / 22.1 (10.0)	12.2 (5.5) / 22.1 (10.0)
Outdoor unit				**RZQ18TAVJUA**	**RZQ24TAVJUA**
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
	Rows × Stages × FPI			2 × 44 × 19	2 × 44 × 19
	Face area		ft.² (m²)	9.5 (0.88)	9.5 (0.88)
Compressor	Model			2YC63TXD#A	2YC63TXD#A
	Type			Hermetically sealed swing type	Hermetically sealed swing type
	Motor output		kW	1.9	1.9
Fan	Model			P51J11F	P51J11F
	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			Refer to the name plate of compressor.	Refer to the name plate of compressor.
	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), level 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), level 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), level difference: 0 ft. (0 m).
★4. Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.

C: 4D126344

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

Model	Indoor unit			FCQ30TAVJU	FCQ36TAVJU
	Outdoor unit			RZQ30TAVJUA	RZQ36TAVJUA
Power supply				1 phase, 208/230 V, 60 Hz	1 phase, 208/230 V, 60 Hz
★1, ★4 Cooling capacity			Btu/h (kW)	30,000 (8.8)	36,000 (10.6)
★2, ★4 Heating capacity			Btu/h (kW)	34,000 (10.0)	40,000 (11.7)
★3, ★4 Heating capacity			Btu/h (kW)	22,000 (6.4)	21,000 (6.2)
SEER (Rated)				17.2	17.6
EER (Rated)			Btu/h-W	9.3	11.4
HSPF (Rated)				10.2	9.0
Indoor unit				**FCQ30TAVJU**	**FCQ36TAVJU**
Casing/color				Galvanized steel plate	Galvanized steel plate
Dimensions	H × W × D		in. (mm)	11–23/32 × 33–1/16 × 33–1/16 (298 × 840 × 840)	11–23/32 × 33–1/16 × 33–1/16 (298 × 840 × 840)
Coil	Type			Cross fin coil	Cross fin coil
	Rows × Stages × FPI			3 × 18 × (20 + 21 × 2)	3 × 18 × (20 + 21 × 2)
	Face area		ft.² (m²)	5.92 (0.550)	5.92 (0.550)
Fan	Model			QTS48C15M	QTS48C15M
	Type			Turbo fan	Turbo fan
	Motor output		W	106	106
	Airflow rate (H/M/L)		cfm (m³/min)	1,112/918/671 (31.5/26.0/19.0)	1,165/918/671 (33.0/26.0/19.0)
	External static pressure		in.H_2O (Pa)	—	—
Air filter				—	—
Weight			lbs (kg)	70 (31.5)	70 (31.5)
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, BRC2A71	BRC1E73, BRC2A71
		Wireless		—	—
Decoration panel (accessory)	Model			BYCQ125B–W1 / BYCQ125BGW1	BYCQ125B–W1 / BYCQ125BGW1
	Color			Fresh white	Fresh white
	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)	12.2 (5.5) / 22.1 (10.0)	12.2 (5.5) / 22.1 (10.0)
Outdoor unit				**RZQ30TAVJUA**	**RZQ36TAVJUA**
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
	Rows × Stages × FPI			2 × 60 × 19	2 × 60 × 19
	Face area		ft.² (m²)	12.2 (1.134)	12.2 (1.134)
Compressor	Model			2YC90FXD#A	2YC90FXD#A
	Type			Hermetically sealed swing type	Hermetically sealed swing type
	Motor output		kW	3.5	3.5
Fan	Model			P47N	P47N
	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			Refer to the name plate of compressor.	Refer to the name plate of compressor.
	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), level 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), level 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), level difference: 0 ft. (0 m).
★4. Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.

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

Model	Indoor unit			FCQ42TAVJU	FCQ48TAVJU
	Outdoor unit			RZQ42TAVJUA	RZQ48TAVJUA
Power supply				1 phase, 208/230 V, 60 Hz	1 phase, 208/230 V, 60 Hz
★1, ★4 Cooling capacity			Btu/h (kW)	42,000 (12.3)	48,000 (14.1)
★2, ★4 Heating capacity			Btu/h (kW)	47,000 (13.8)	54,000 (15.8)
★3, ★4 Heating capacity			Btu/h (kW)	25,000 (7.3)	28,000 (8.2)
SEER (Rated)				17.0	17.0
EER (Rated)			Btu/h-W	10.3	9.0
HSPF (Rated)				8.6	9.3
Indoor unit				**FCQ42TAVJU**	**FCQ48TAVJU**
Casing/color				Galvanized steel plate	Galvanized steel plate
Dimensions	H × W × D		in. (mm)	11–23/32 × 33–1/16 × 33–1/16 (298 × 840 × 840)	11–23/32 × 33–1/16 × 33–1/16 (298 × 840 × 840)
Coil	Type			Cross fin coil	Cross fin coil
	Rows × Stages × FPI			3 × 18 × (20 + 21 × 2)	3 × 18 × (20 + 21 × 2)
	Face area		ft.² (m²)	5.92 (0.550)	5.92 (0.550)
Fan	Model			QTS48C15M	QTS48C15M
	Type			Turbo fan	Turbo fan
	Motor output		W	106	106
	Airflow rate (H/M/L)		cfm (m³/min)	1,218/971/742 (34.5/27.5/21.0)	1,218/971/742 (34.5/27.5/21.0)
	External static pressure		in.H_2O (Pa)	—	—
Air filter				—	—
Weight			lbs (kg)	70 (31.5)	70 (31.5)
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, BRC2A71	BRC1E73, BRC2A71
		Wireless		—	—
Decoration panel (accessory)	Model			BYCQ125B–W1 / BYCQ125BGW1	BYCQ125B–W1 / BYCQ125BGW1
	Color			Fresh white	Fresh white
	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)	12.2 (5.5) / 22.1 (10.0)	12.2 (5.5) / 22.1 (10.0)
Outdoor unit				**RZQ42TAVJUA**	**RZQ48TAVJUA**
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
	Rows × Stages × FPI			2 × 60 × 19	2 × 60 × 19
	Face area		ft.² (m²)	12.2 (1.134)	12.2 (1.134)
Compressor	Model			2YC90FXD#A	2YC90FXD#A
	Type			Hermetically sealed swing type	Hermetically sealed swing type
	Motor output		kW	3.5	3.5
Fan	Model			P47N	P47N
	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			Refer to the name plate of compressor.	Refer to the name plate of compressor.
	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), level 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), level 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), level difference: 0 ft. (0 m).
★4. Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.

C: 4D126345

3.2.2 FHQ

Ceiling suspended type

Model	Indoor unit			FHQ18PVJU	FHQ24PVJU
	Outdoor unit			RZQ18TAVJUA	RZQ24TAVJUA
Power supply				1 phase, 208/230 V, 60 Hz	1 phase, 208/230 V, 60 Hz
★1, ★4 Cooling capacity			Btu/h (kW)	18,000 (5.3)	24,000 (7.0)
★2, ★4 Heating capacity			Btu/h (kW)	20,000 (5.9)	27,000 (7.9)
★3, ★4 Heating capacity			Btu/h (kW)	12,000 (3.5)	18,000 (5.3)
SEER (Rated)				16.3	16.6
EER (Rated)			Btu/h-W	12.9	11.3
HSPF (Rated)				9.1	9.3
Indoor unit				**FHQ18PVJU**	**FHQ24PVJU**
Casing/color				White (10Y9/0.5)	White (10Y9/0.5)
Dimensions	H × W × D		in. (mm)	7–11/16 × 62–5/8 × 26–3/4 (195 × 1,590 × 680)	7–11/16 × 62–5/8 × 26–3/4 (195 × 1,590 × 680)
Coil	Type			Cross fin coil	Cross fin coil
	Rows × Stages × FPI			2 × 12 × 15 + 2 × 10 × 15	2 × 12 × 15 + 2 × 10 × 15
	Face area		ft.² (m²)	3.66 (0.34) + 2.95 (0.27)	3.66 (0.34) + 2.95 (0.27)
Fan	Model			—	—
	Type			Sirocco fan	Sirocco fan
	Motor output		W	130	130
	Airflow rate (H/L)		cfm (m^3/min)	790/670 (22.4/19.0)	790/670 (22.4/19.0)
	External static pressure		in.H_2O (Pa)	—	—
Air filter				Resin net (with mold resistance)	Resin net (with mold resistance)
Weight			lbs (kg)	90 (19.8)	90 (19.8)
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)	VP20 (external dia. 1 (26), internal dia. 3/4 (19.1))	VP20 (external dia. 1 (26), internal dia. 3/4 (19.1))
Remote controller (accessory)		Wired		BRC1E73, BRC2A71	BRC1E73, BRC2A71
		Wireless		BRC7E83	BRC7E83
Outdoor unit				**RZQ18TAVJUA**	**RZQ24TAVJUA**
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
	Rows × Stages × FPI			2 × 44 × 19	2 × 44 × 19
	Face area		ft.² (m²)	9.5 (0.88)	9.5 (0.88)
Compressor	Model			2YC63TXD#A	2YC63TXD#A
	Type			Hermetically sealed swing type	Hermetically sealed swing type
	Motor output		kW	1.9	1.9
Fan	Model			P51J11F	P51J11F
	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			Refer to the name plate of compressor.	Refer to the name plate of compressor.
	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), level 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), level 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), level difference: 0 ft. (0 m).
★4. Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.

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Ceiling suspended type, continued

Model	Indoor unit			FHQ30PVJU	FHQ36MVJU
	Outdoor unit			RZQ30TAVJUA	RZQ36TAVJUA
Power supply				1 phase, 208/230 V, 60 Hz	1 phase, 208/230 V, 60 Hz
★1, ★4 Cooling capacity			Btu/h (kW)	30,000 (8.8)	36,000 (10.6)
★2, ★4 Heating capacity			Btu/h (kW)	34,000 (10.0)	40,000 (11.7)
★3, ★4 Heating capacity			Btu/h (kW)	24,000 (7.0)	22,000 (6.4)
SEER (Rated)				16.0	14.0
EER (Rated)			Btu/h-W	10.5	9.5
HSPF (Rated)				8.4	8.2
Indoor unit				**FHQ30PVJU**	**FHQ36MVJU**
Casing/color				White (10Y9/0.5)	White (10Y9/0.5)
Dimensions	H × W × D		in. (mm)	7–11/16 × 62–5/8 × 26–3/4 (195 × 1,590 × 680)	7–11/16 × 62–5/8 × 26–3/4 (195 × 1,590 × 680)
Coil	Type			Cross fin coil	Cross fin coil
	Rows × Stages × FPI			2 × 12 × 15 + 2 × 10 × 15	2 × 12 × 15 + 2 × 10 × 15
	Face area		ft.² (m²)	3.66 (0.34) + 2.95 (0.27)	3.66 (0.34) + 2.95 (0.27)
Fan	Model			—	—
	Type			Sirocco fan	Sirocco fan
	Motor output		W	130	130
	Airflow rate (H/L)		cfm (m^3/min)	790/670 (22.4/19.0)	830/670 (23.5/19.0)
	External static pressure		in.H_2O (Pa)	—	—
Air filter				Resin net (with mold resistance)	Resin net (with mold resistance)
Weight			lbs (kg)	90 (19.8)	90 (19.8)
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)	VP20 (external dia. 1 (26), internal dia. 3/4 (19.1))	VP20 (external dia. 1 (26), internal dia. 3/4 (19.1))
Remote controller (accessory)		Wired		BRC1E73, BRC2A71	BRC1E73, BRC2A71
		Wireless		BRC7E83	BRC7E83
Outdoor unit				**RZQ30TAVJUA**	**RZQ36TAVJUA**
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
	Rows × Stages × FPI			2 × 60 × 19	2 × 60 × 19
	Face area		ft.² (m²)	12.2 (1.134)	12.2 (1.134)
Compressor	Model			2YC90FXD#A	2YC90FXD#A
	Type			Hermetically sealed swing type	Hermetically sealed swing type
	Motor output		kW	3.5	3.5
Fan	Model			P47N	P47N
	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			Refer to the name plate of compressor.	Refer to the name plate of compressor.
	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), level 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), level 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), level difference: 0 ft. (0 m).
★4. Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.

C: 4D126356

Ceiling suspended type, continued

Model	Indoor unit			FHQ42MVJU
	Outdoor unit			RZQ42TAVJUA
Power supply				1 phase, 208/230 V, 60 Hz
★1, ★4 Cooling capacity			Btu/h (kW)	40,500 (11.9)
★2, ★4 Heating capacity			Btu/h (kW)	40,000 (11.7)
★3, ★4 Heating capacity			Btu/h (kW)	23,400 (6.9)
SEER (Rated)				14.0
EER (Rated)			Btu/h-W	8.8
HSPF (Rated)				8.2
Indoor unit				**FHQ42MVJU**
Casing/color				White (10Y9/0.5)
Dimensions	H × W × D		in. (mm)	7–11/16 × 62–5/8 × 26–3/4 (195 × 1,590 × 680)
Coil	Type			Cross fin coil
	Rows × Stages × FPI			2 × 12 × 15 + 2 × 10 × 15
	Face area		ft.² (m²)	3.66 (0.34) + 2.95 (0.27)
Fan	Model			—
	Type			Sirocco fan
	Motor output		W	130
	Airflow rate (H/L)		cfm (m^3/min)	850/700 (24.1/19.8)
	External static pressure		in.H_2O (Pa)	—
Air filter				Resin net (with mold resistance)
Weight			lbs (kg)	90 (19.8)
Piping connections		Liquid	in. (mm)	ϕ3/8 (ϕ9.5) (flare connection)
		Gas	in. (mm)	ϕ5/8 (ϕ15.9) (flare connection)
		Drain	in. (mm)	VP20 (external dia. 1 (26), internal dia. 3/4 (19.1))
Remote controller (accessory)		Wired		BRC1E73, BRC2A71
		Wireless		BRC7E83
Outdoor unit				**RZQ42TAVJUA**
Casing/color				Ivory white
Dimensions	H × W × D		in. (mm)	52–15/16 × 35–7/16 × 12–5/8 (1,345 × 900 × 320)
Coil	Type			Cross fin coil
	Rows × Stages × FPI			2 × 60 × 19
	Face area		ft.² (m²)	12.2 (1.134)
Compressor	Model			2YC90FXD#A
	Type			Hermetically sealed swing type
	Motor output		kW	3.5
Fan	Model			P47N
	Type			Propeller fan
	Motor output		W	70 × 2
	Airflow rate		cfm (m^3/min)	3,741 (106)
Weight			lbs (kg)	225 (102)
Piping connections		Liquid	in. (mm)	ϕ3/8 (ϕ9.5) (flare connection)
		Gas	in. (mm)	ϕ5/8 (ϕ15.9) (flare connection)
		Drain	in. (mm)	ϕ1 (ϕ26) (hole)
Safety devices				High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plug, Fuse
Capacity step			%	14-100
Refrigerant control				Electronic expansion valve
Ref. piping	Standard length		ft (m)	25 (7.6)
	Max. length		ft (m)	230 (70)
	Max. height difference		ft (m)	98 (30)
Refrigerant	Type			R410A
	Charge		lbs (kg)	7.9 (3.6)
Ref. oil	Type			Refer to the name plate of compressor.
	Charge		L	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), level 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), level 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), level difference: 0 ft. (0 m).
★4. Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.

C: 4D126356

3.2.3 FAQ

Wall mounted type

Model	Indoor unit			FAQ18TAVJU	FAQ24TAVJU
	Outdoor unit			RZQ18TAVJUA	RZQ24TAVJUA
Power supply				1 phase, 208/230 V, 60 Hz	1 phase, 208/230 V, 60 Hz
★1, ★4 Cooling capacity			Btu/h (kW)	18,000 (5.3)	24,000 (7.0)
★2, ★4 Heating capacity			Btu/h (kW)	20,000 (5.9)	27,000 (7.9)
★3, ★4 Heating capacity			Btu/h (kW)	13,000 (3.8)	20,000 (5.9)
SEER (Rated)				17.0	17.6
EER (Rated)			Btu/h-W	11.9	10.2
HSPF (Rated)				8.2	8.4
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
	Rows × Stages × FPI			2 × 14 × 7	2 × 14 × 7
	Face area		ft.² (m²)	1.73 (0.16)	1.73 (0.16)
Fan	Model			QCL9686M	QCL9686M
	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, BRC2A71	BRC1E73, BRC2A71
		Wireless		BRC7E818	BRC7E818
Outdoor unit				**RZQ18TAVJUA**	**RZQ24TAVJUA**
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
	Rows × Stages × FPI			2 × 44 × 19	2 × 44 × 19
	Face area		ft.² (m²)	9.5 (0.88)	9.5 (0.88)
Compressor	Model			2YC63TXD#A	2YC63TXD#A
	Type			Hermetically sealed swing type	Hermetically sealed swing type
	Motor output		kW	1.9	1.9
Fan	Model			P51J11F	P51J11F
	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			Refer to the name plate of compressor.	Refer to the name plate of compressor.
	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), level 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), level 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), level difference: 0 ft. (0 m).
★4. Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.

C: 4D126346

3.2.4 FBQ

Ceiling mounted duct type

Model	Indoor unit			FBQ18PVJU	FBQ24PVJU
	Outdoor unit			RZQ18TAVJUA	RZQ24TAVJUA
Power supply				1 phase, 208/230 V, 60 Hz	1 phase, 208/230 V, 60 Hz
★1, ★4 Cooling capacity			Btu/h (kW)	18,000 (5.3)	24,000 (7.0)
★2, ★4 Heating capacity			Btu/h (kW)	20,000 (5.9)	27,000 (7.9)
★3, ★4 Heating capacity			Btu/h (kW)	12,000 (3.5)	18,000 (5.3)
SEER (Rated)				16.7	16.5
EER (Rated)			Btu/h-W	13.0	12.0
HSPF (Rated)				9.5	9.7
Indoor unit				**FBQ18PVJU**	**FBQ24PVJU**
Casing/color				Galvanized steel plate	Galvanized steel plate
Dimensions	H × W × D		in. (mm)	11–13/16 × 39–3/8 × 27–9/16 (300 × 1,000 × 700)	11–13/16 × 39–3/8 × 27–9/16 (300 × 1,000 × 700)
Coil	Type			Cross fin coil	Cross fin coil
	Rows × Stages × FPI			3 × 16 × 15	3 × 16 × 15
	Face area		ft.² (m²)	2.68 (0.249)	2.68 (0.249)
Fan	Model			—	—
	Type			Sirocco fan	Sirocco fan
	Motor output		W	350	350
	Airflow rate (H/M/L)		cfm (m³/min)	635/582/529 (18.0/16.5/15.0)	688/618/565 (19.5/17.5/16.0)
	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)	80 (36)	80 (36)
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, BRC2A71	BRC1E73, BRC2A71
		Wireless		BRC4C82, BRC082A43	BRC4C82, BRC082A43
Outdoor unit				**RZQ18TAVJUA**	**RZQ24TAVJUA**
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
	Rows × Stages × FPI			2 × 44 × 19	2 × 44 × 19
	Face area		ft.² (m²)	9.5 (0.88)	9.5 (0.88)
Compressor	Model			2YC63TXD#A	2YC63TXD#A
	Type			Hermetically sealed swing type	Hermetically sealed swing type
	Motor output		kW	1.9	1.9
Fan	Model			P51J11F	P51J11F
	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			Refer to the name plate of compressor.	Refer to the name plate of compressor.
	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), level 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), level 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), level 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: 4D126350

Ceiling mounted duct type, continued

Model	Indoor unit			FBQ30PVJU	FBQ36PVJU
	Outdoor unit			RZQ30TAVJUA	RZQ36TAVJUA
Power supply				1 phase, 208/230 V, 60 Hz	1 phase, 208/230 V, 60 Hz
★1, ★4 Cooling capacity			Btu/h (kW)	30,000 (8.8)	36,000 (10.6)
★2, ★4 Heating capacity			Btu/h (kW)	34,000 (10.0)	40,000 (11.7)
★3, ★4 Heating capacity			Btu/h (kW)	22,000 (6.4)	21,000 (6.2)
SEER (Rated)				16.0	17.5
EER (Rated)			Btu/h-W	10.5	11.1
HSPF (Rated)				9.2	9.1
Indoor unit				**FBQ30PVJU**	**FBQ36PVJU**
Casing/color				Galvanized steel plate	Galvanized steel plate
Dimensions	H × W × D		in. (mm)	11–13/16 × 39–3/8 × 27–9/16 (300 × 1,000 × 700)	11–13/16 × 55–1/8 × 27–9/16 (300 × 1,400 × 700)
Coil	Type			Cross fin coil	Cross fin coil
	Rows × Stages × FPI			3 × 16 × 15	3 × 16 × 15
	Face area		ft.² (m²)	2.68 (0.249)	4.12 (0.383)
Fan	Model			—	—
	Type			Sirocco fan	Sirocco fan
	Motor output		W	350	350
	Airflow rate (H/M/L)		cfm (m³/min)	882/794/706 (25.0/22.0/20.0)	1,130/953/812 (32.0/27.0/23.0)
	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)	80 (36)	102 (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, BRC2A71	BRC1E73, BRC2A71
		Wireless		BRC4C82, BRC082A43	BRC4C82, BRC082A43
Outdoor unit				**RZQ30TAVJUA**	**RZQ36TAVJUA**
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
	Rows × Stages × FPI			2 × 60 × 19	2 × 60 × 19
	Face area		ft.² (m²)	12.2 (1.134)	12.2 (1.134)
Compressor	Model			2YC90FXD#A	2YC90FXD#A
	Type			Hermetically sealed swing type	Hermetically sealed swing type
	Motor output		kW	3.5	3.5
Fan	Model			P47N	P47N
	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			Refer to the name plate of compressor.	Refer to the name plate of compressor.
	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), level 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), level 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), level 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: 4D126352

Ceiling mounted duct type, continued

Model	Indoor unit			FBQ42PVJU	FBQ48PVJU
	Outdoor unit			RZQ42TAVJUA	RZQ48TAVJUA
Power supply				1 phase, 208/230 V, 60 Hz	1 phase, 208/230 V, 60 Hz
★1, ★4 Cooling capacity			Btu/h (kW)	40,500 (11.9)	48,000 (14.1)
★2, ★4 Heating capacity			Btu/h (kW)	47,000 (13.8)	54,000 (15.8)
★3, ★4 Heating capacity			Btu/h (kW)	25,000 (7.3)	28,000 (8.2)
SEER (Rated)				16.0	14.0
EER (Rated)			Btu/h-W	10.1	8.6
HSPF (Rated)				8.8	8.4
Indoor unit				**FBQ42PVJU**	**FBQ48PVJU**
Casing/color				Galvanized steel plate	Galvanized steel plate
Dimensions	H × W × D		in. (mm)	11–13/16 × 55–1/8 × 27–9/16 (300 × 1,400 × 700)	11–13/16 × 55–1/8 × 27–9/16 (300 × 1,400 × 700)
Coil	Type			Cross fin coil	Cross fin coil
	Rows × Stages × FPI			3 × 16 × 15	3 × 16 × 15
	Face area		ft.² (m²)	4.12 (0.383)	4.12 (0.383)
Fan	Model			—	—
	Type			Sirocco fan	Sirocco fan
	Motor output		W	350	350
	Airflow rate (H/M/L)		cfm (m³/min)	1,400/1,165/988 (39.6/33.0/28.0)	1,400/1,165/988 (39.6/33.0/28.0)
	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)	102 (46)	102 (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, BRC2A71	BRC1E73, BRC2A71
		Wireless		BRC4C82, BRC082A43	BRC4C82, BRC082A43
Outdoor unit				**RZQ42TAVJUA**	**RZQ48TAVJUA**
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
	Rows × Stages × FPI			2 × 60 × 19	2 × 60 × 19
	Face area		ft.² (m²)	12.2 (1.134)	12.2 (1.134)
Compressor	Model			2YC90FXD#A	2YC90FXD#A
	Type			Hermetically sealed swing type	Hermetically sealed swing type
	Motor output		kW	3.5	3.5
Fan	Model			P47N	P47N
	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			Refer to the name plate of compressor.	Refer to the name plate of compressor.
	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), level 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), level 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), level 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.

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3.2.5 FTQ

Air handling unit

Model	Indoor unit	with factory disconnect		FTQ18TAVJUD	FTQ24TAVJUD
		without factory disconnect		FTQ18TAVJUA	FTQ24TAVJUA
	Outdoor unit			RZQ18TAVJUA	RZQ24TAVJUA
Power supply				1 phase, 208/230 V, 60 Hz	1 phase, 208/230 V, 60 Hz
★1, ★4 Cooling capacity			Btu/h (kW)	18,000 (5.3)	24,000 (7.0)
★2, ★4 Heating capacity			Btu/h (kW)	20,000 (5.9)	27,000 (7.9)
★3, ★4 Heating capacity			Btu/h (kW)	13,000 (3.8)	18,000 (5.3)
SEER (Rated)				15.5	15.2
EER (Rated)			Btu/h-W	12.5	10.3
HSPF (Rated)				8.6	9.4
Indoor unit		with factory disconnect		FTQ18TAVJUD	FTQ24TAVJUD
		without factory disconnect		FTQ18TAVJUA	FTQ24TAVJUA
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
	Face area		ft.² (m²)	3.75 (35)	3.75 (35)
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, BRC2A71	BRC1E73, BRC2A71
		Wireless		BRC4C82	BRC4C82
Outdoor unit				RZQ18TAVJUA	RZQ24TAVJUA
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
	Rows × Stages × FPI			2 × 44 × 19	2 × 44 × 19
	Face area		ft.² (m²)	9.5 (0.88)	9.5 (0.88)
Compressor	Model			2YC63TXD#A	2YC63TXD#A
	Type			Hermetically sealed swing type	Hermetically sealed swing type
	Motor output		kW	1.9	1.9
Fan	Model			P51J11F	P51J11F
	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			Refer to the name plate of compressor.	Refer to the name plate of compressor.
	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), level 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), level 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), level 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		FTQ30TAVJUD	FTQ36TAVJUD
		without factory disconnect		FTQ30TAVJUA	FTQ36TAVJUA
	Outdoor unit			RZQ30TAVJUA	RZQ36TAVJUA
Power supply				1 phase, 208/230 V, 60 Hz	1 phase, 208/230 V, 60 Hz
★1, ★4 Cooling capacity			Btu/h (kW)	30,000 (8.8)	36,000 (10.6)
★2, ★4 Heating capacity			Btu/h (kW)	34,000 (10.0)	40,000 (11.7)
★3, ★4 Heating capacity			Btu/h (kW)	22,000 (6.4)	26,000 (7.6)
SEER (Rated)				16.0	15.3
EER (Rated)			Btu/h-W	12.5	11.3
HSPF (Rated)				10.4	9.5
Indoor unit		**with factory disconnect**		**FTQ30TAVJUD**	**FTQ36TAVJUD**
		without factory disconnect		**FTQ30TAVJUA**	**FTQ36TAVJUA**
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
	Face area		ft.² (m²)	3.75 (35)	3.75 (35)
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, BRC2A71	BRC1E73, BRC2A71
		Wireless		BRC4C82	BRC4C82
Outdoor unit				**RZQ30TAVJUA**	**RZQ36TAVJUA**
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
	Rows × Stages × FPI			2 × 60 × 19	2 × 60 × 19
	Face area		ft.² (m²)	12.2 (1.134)	12.2 (1.134)
Compressor	Model			2YC90FXD#A	2YC90FXD#A
	Type			Hermetically sealed swing type	Hermetically sealed swing type
	Motor output		kW	3.5	3.5
Fan	Model			P47N	P47N
	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			Refer to the name plate of compressor.	Refer to the name plate of compressor.
	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), level 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), level 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), level 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		FTQ42TAVJUD	FTQ48TAVJUD
		without factory disconnect		FTQ42TAVJUA	FTQ48TAVJUA
	Outdoor unit			RZQ42TAVJUA	RZQ48TAVJUA
Power supply				1 phase, 208/230 V, 60 Hz	1 phase, 208/230 V, 60 Hz
★1, ★4 Cooling capacity			Btu/h (kW)	42,000 (12.3)	48,000 (14.1)
★2, ★4 Heating capacity			Btu/h (kW)	47,000 (13.8)	54,000 (15.8)
★3, ★4 Heating capacity			Btu/h (kW)	31,000 (9.1)	32,000 (9.4)
SEER (Rated)				16.0	14.8
EER (Rated)			Btu/h-W	11.0	9.5
HSPF (Rated)				9.0	9.0
Indoor unit		**with factory disconnect**		**FTQ42TAVJUD**	**FTQ48TAVJUD**
		without factory disconnect		**FTQ42TAVJUA**	**FTQ48TAVJUA**
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
	Face area		ft.² (m²)	5.15 (48)	5.15 (48)
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, BRC2A71	BRC1E73, BRC2A71
		Wireless		BRC4C82	BRC4C82
Outdoor unit				**RZQ42TAVJUA**	**RZQ48TAVJUA**
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
	Rows × Stages × FPI			2 × 60 × 19	2 × 60 × 19
	Face area		ft.² (m²)	12.2 (1.134)	12.2 (1.134)
Compressor	Model			2YC90FXD#A	2YC90FXD#A
	Type			Hermetically sealed swing type	Hermetically sealed swing type
	Motor output		kW	3.5	3.5
Fan	Model			P47N	P47N
	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			Refer to the name plate of compressor.	Refer to the name plate of compressor.
	Charge		L	1.52	1.52

Note:

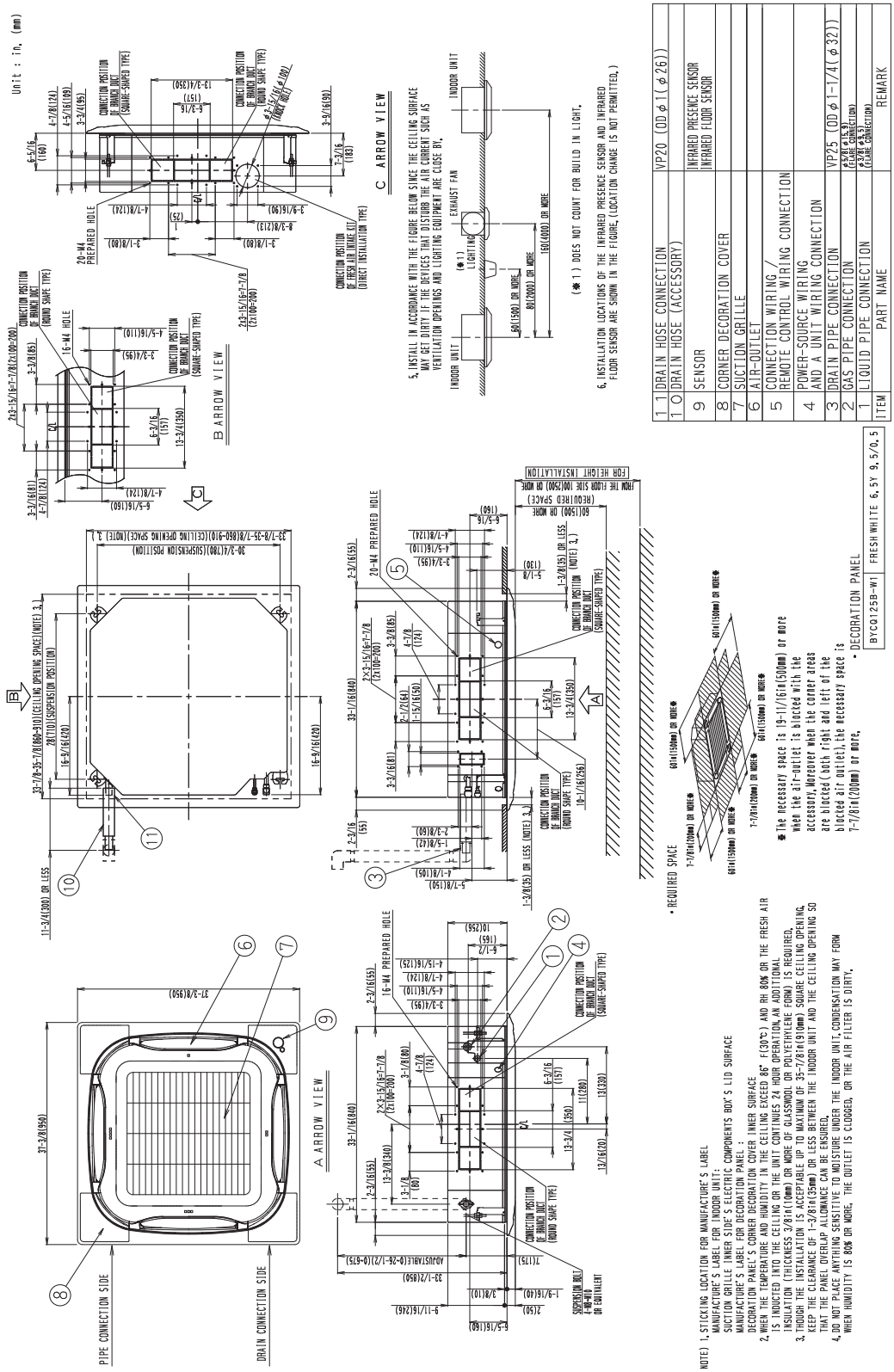
★1. Indoor temp. : 80°FDB (26.7°CDB), 67°FWB (19.4°CWB) / Outdoor temp. : 95°FDB (35.0°CDB) / Equivalent piping length : 25 ft. (7.6 m), level difference : 0 ft. (0 m).
★2. Indoor temp. : 70°FDB (21.1°CDB) / Outdoor temp. : 47°FDB (8.3°CDB), 43°FWB (6.1°CWB) / Equivalent piping length : 25 ft. (7.6 m), level 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), level 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.

4. Dimensions and Service Space

4.1 Indoor Unit

4.1.1 FCQ (with Standard Panel)

FCQ18 - 24TAVJU (with standard panel)



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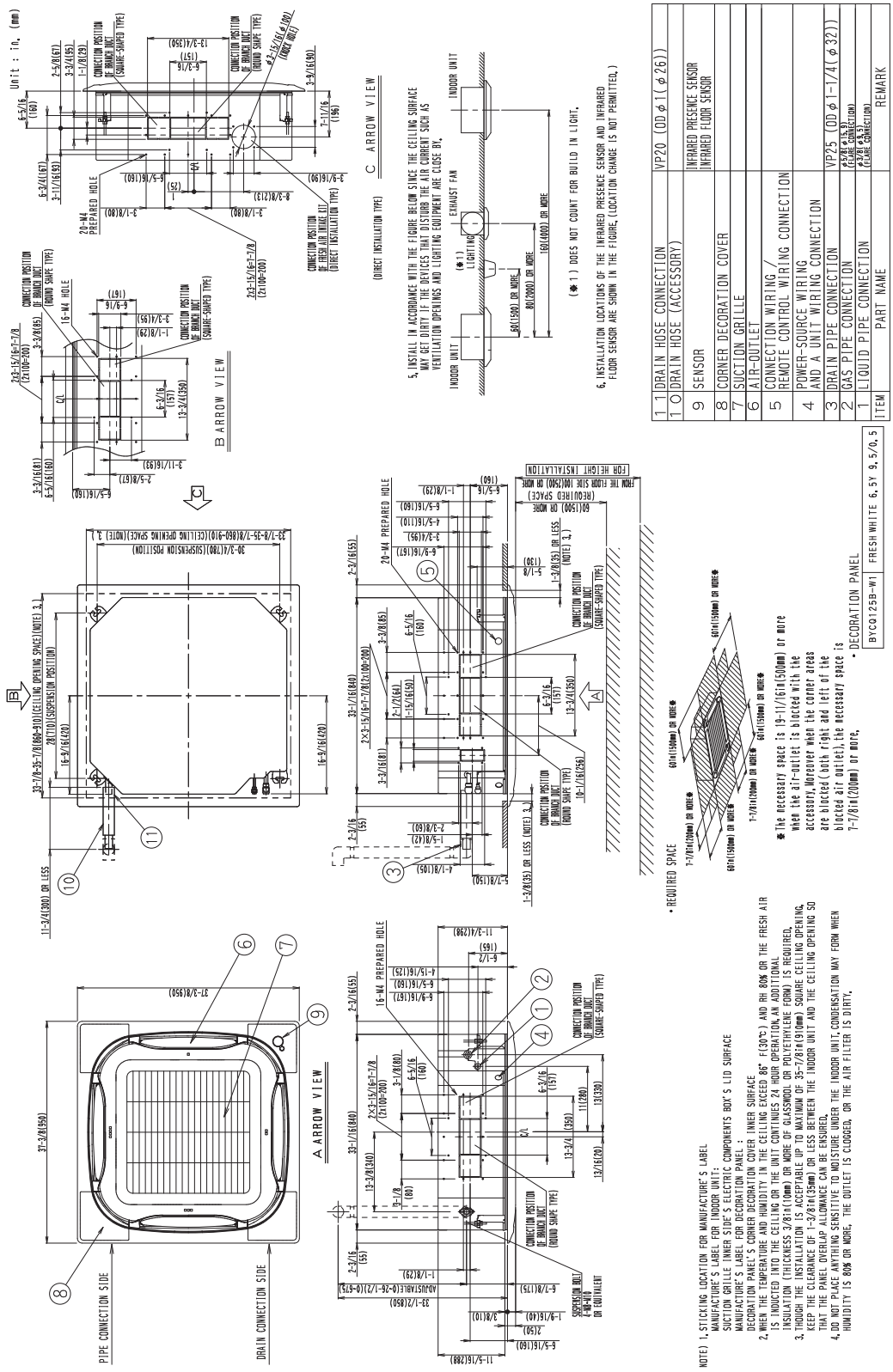
FCQ30 - 48TAVJU (with standard panel)



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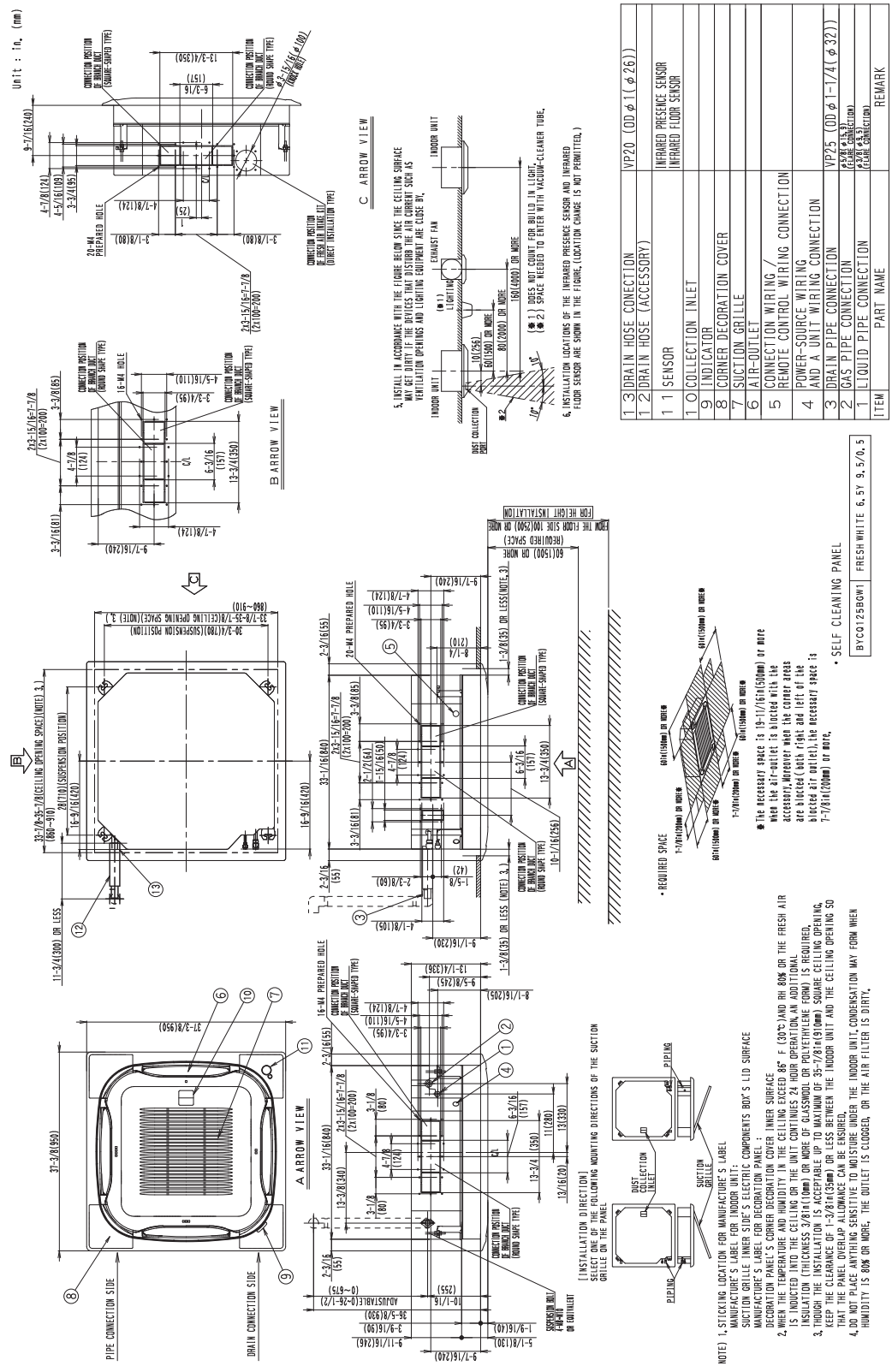
4.1.2 FCQ (with Self Clean Panel)

FCQ18 - 24TAVJU (with self clean panel)



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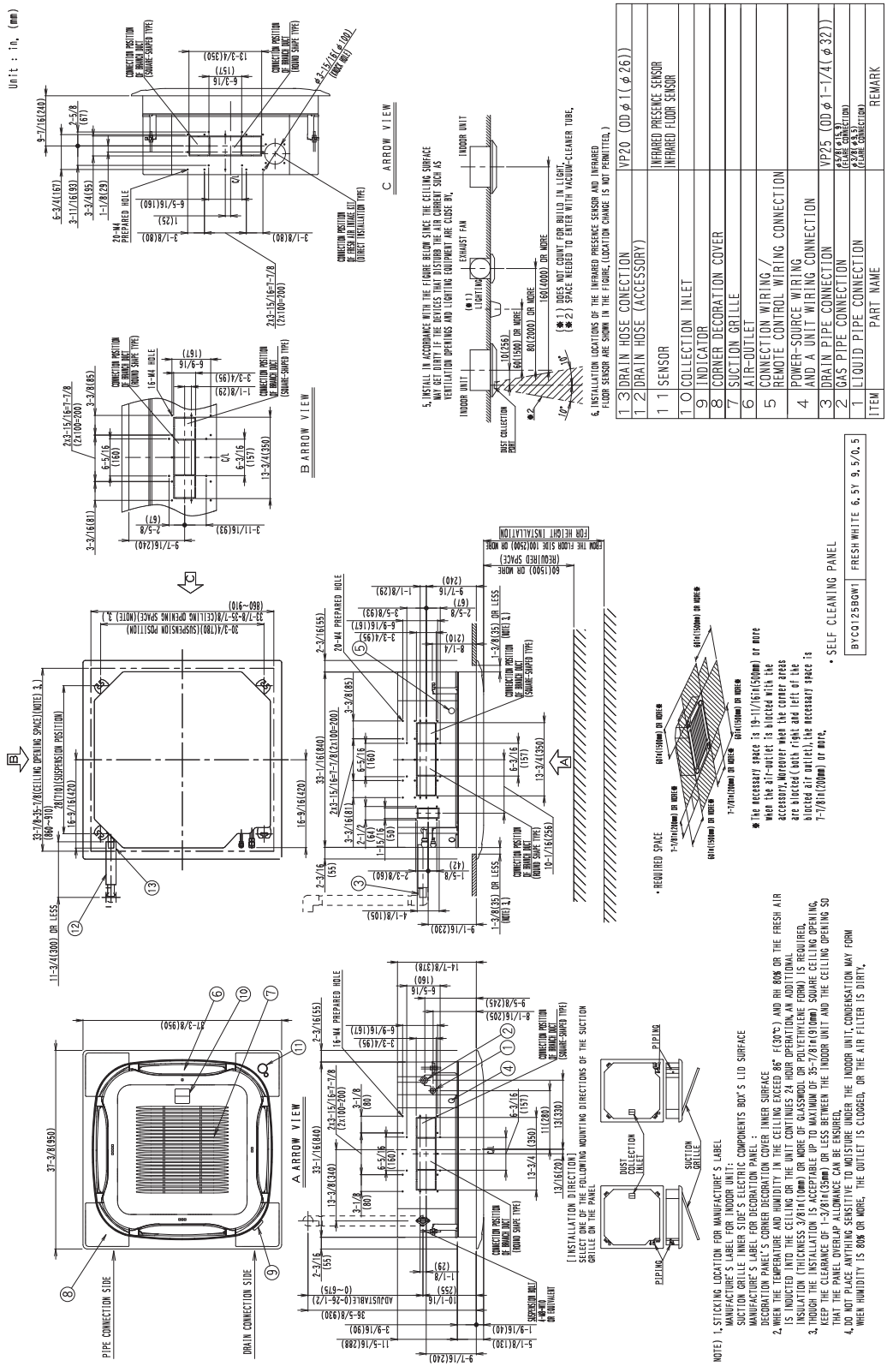
FCQ30 - 48TAVJU (with self clean panel)



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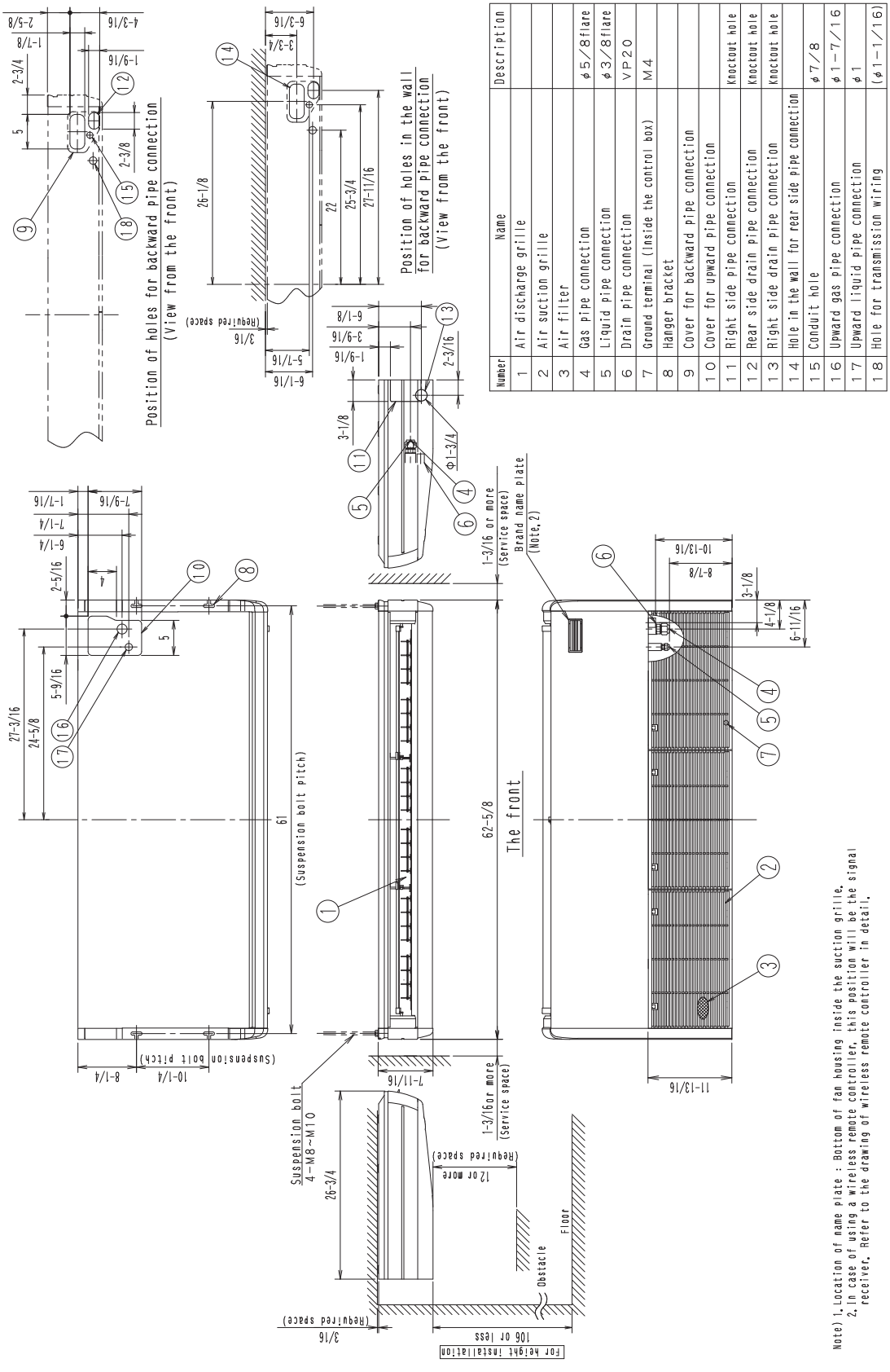
4.1.3 FHQ

FHQ18 - 30PVJU, FHQ36 - 42MVJU

Unit: in.



Number	Name	Description
1	Air discharge grille	
2	Air suction grille	
3	Air filter	
4	Gas pipe connection	φ5/8flare
5	Liquid pipe connection	φ3/8flare
6	Drain pipe connection	VP20
7	Ground terminal (inside the control box)	M4
8	Hanger bracket	
9	Cover for backward pipe connection	
10	Cover for upward pipe connection	
11	Right side pipe connection	Knockout hole
12	Rear side drain pipe connection	Knockout hole
13	Right side drain pipe connection	Knockout hole
14	Hole in the wall for rear side pipe connection	
15	Conduit hole	φ7/8
16	Upward gas pipe connection	φ1-7/16
17	Upward liquid pipe connection	φ1
18	Hole for transmission wiring	(φ1-1/16)

Note) 1. Location of name plate : Bottom of fan housing inside the suction grille.
2. In case of using a wireless remote controller, this position will be the signal receiver. Refer to the drawing of wireless remote controller in detail.

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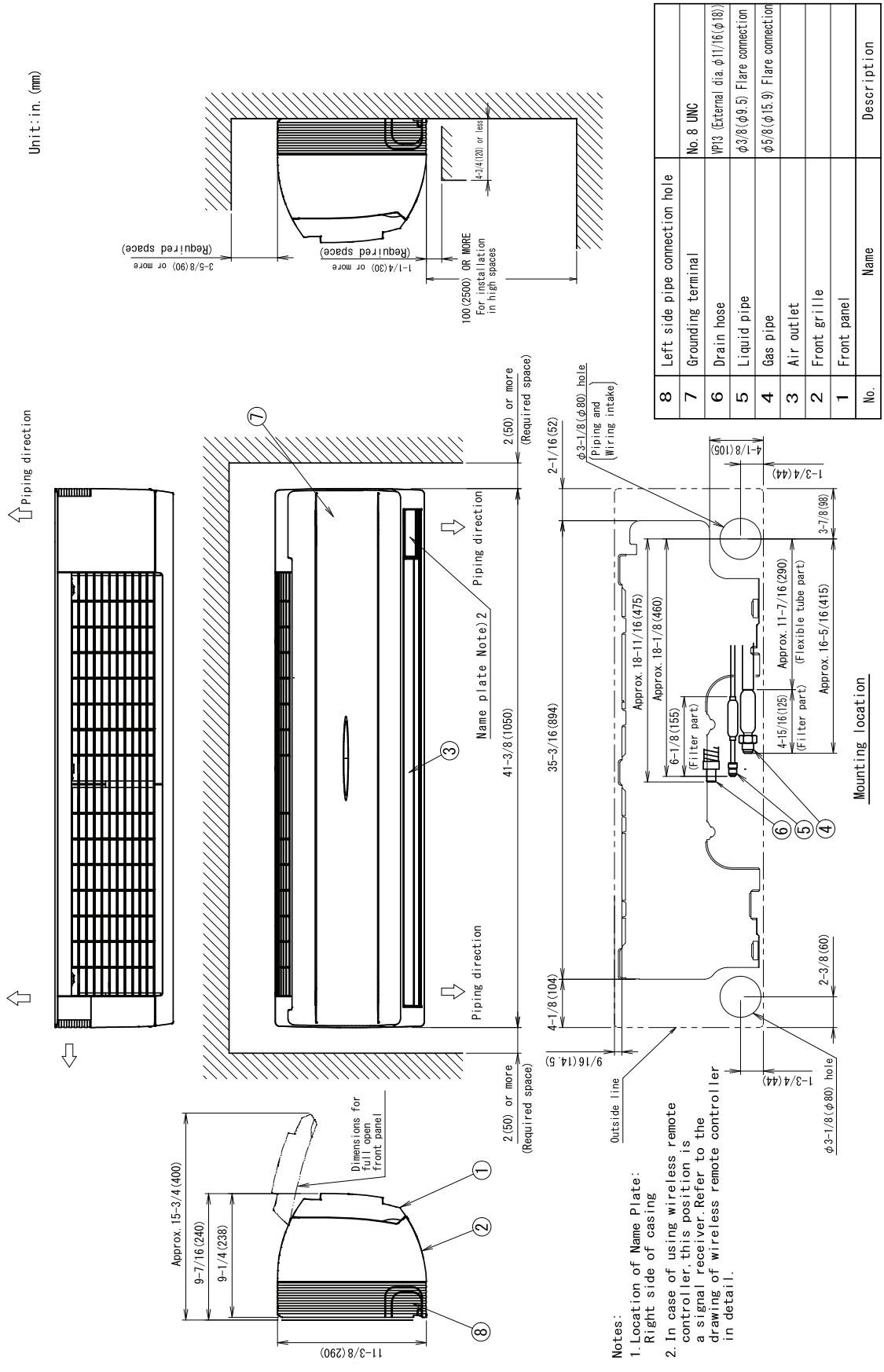
4.1.4 FAQ

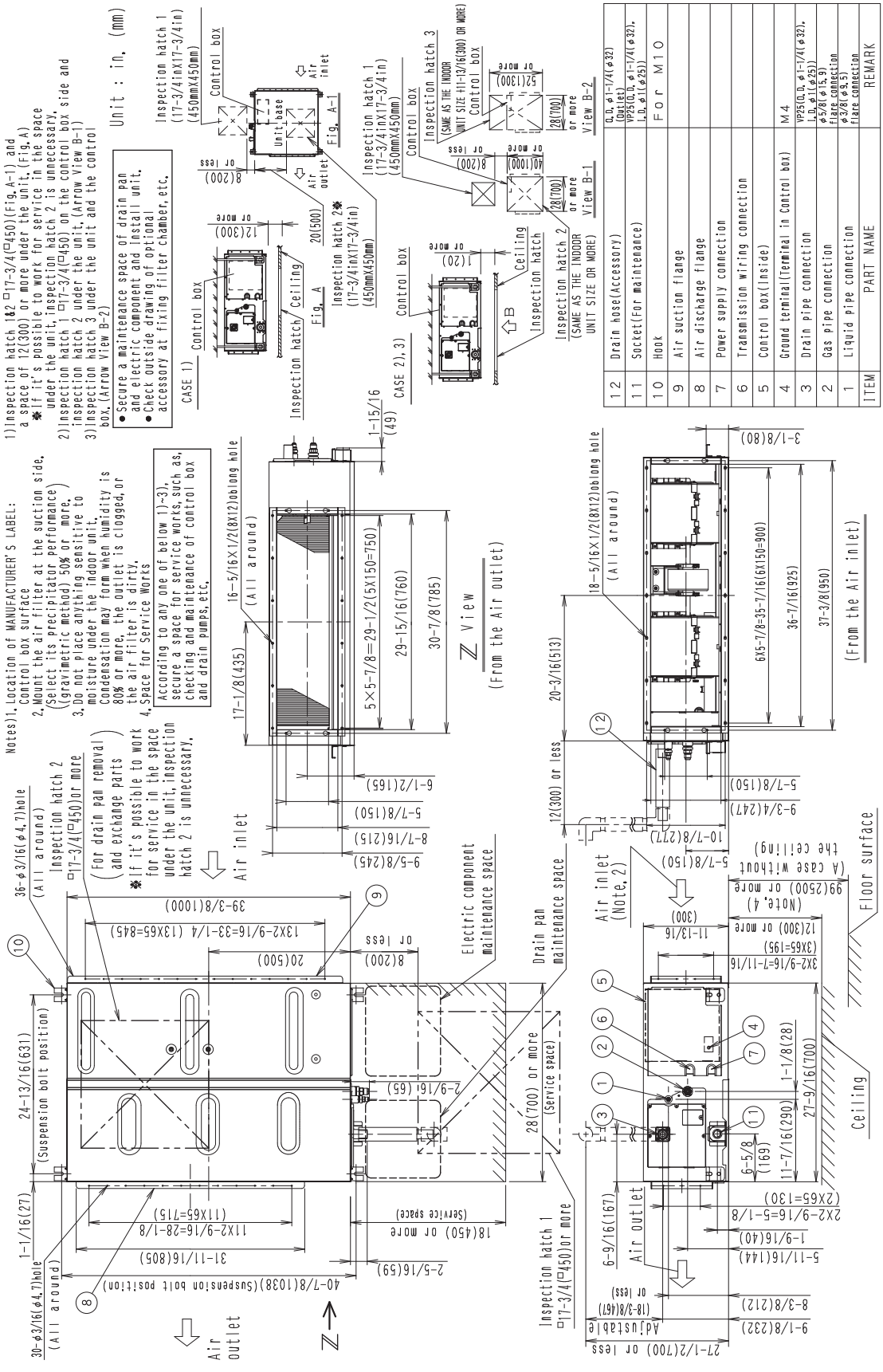
FAQ18 - 24TAVJU



No.	Name	Description
8	Left side pipe connection hole	
7	Grounding terminal	No.8 UNC
6	Drain hose	\Φ13 (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	

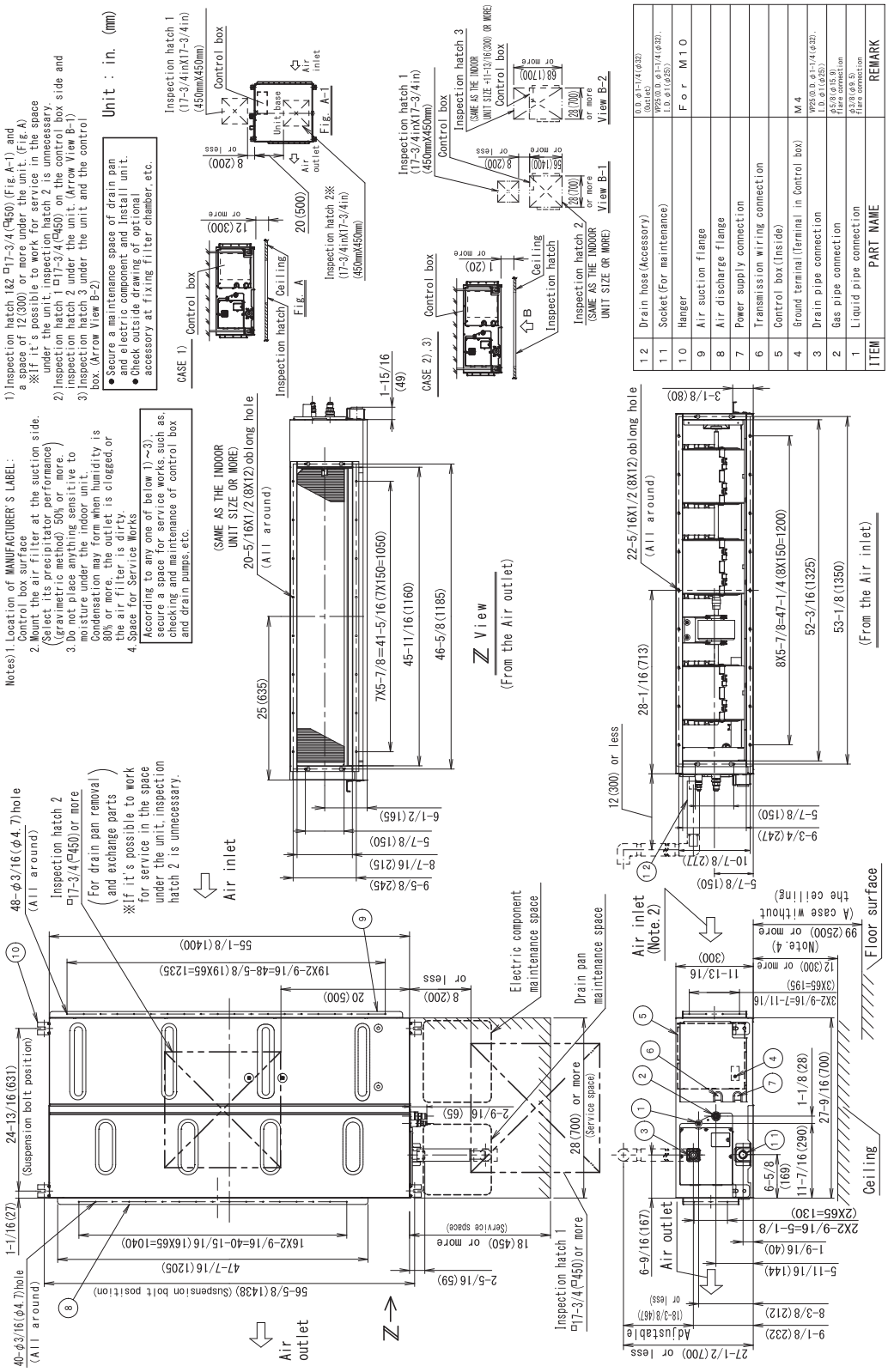
4.1.5 FBQ

FBQ18 - 30PVJU



3D065978F

FBQ36 - 48PVJU

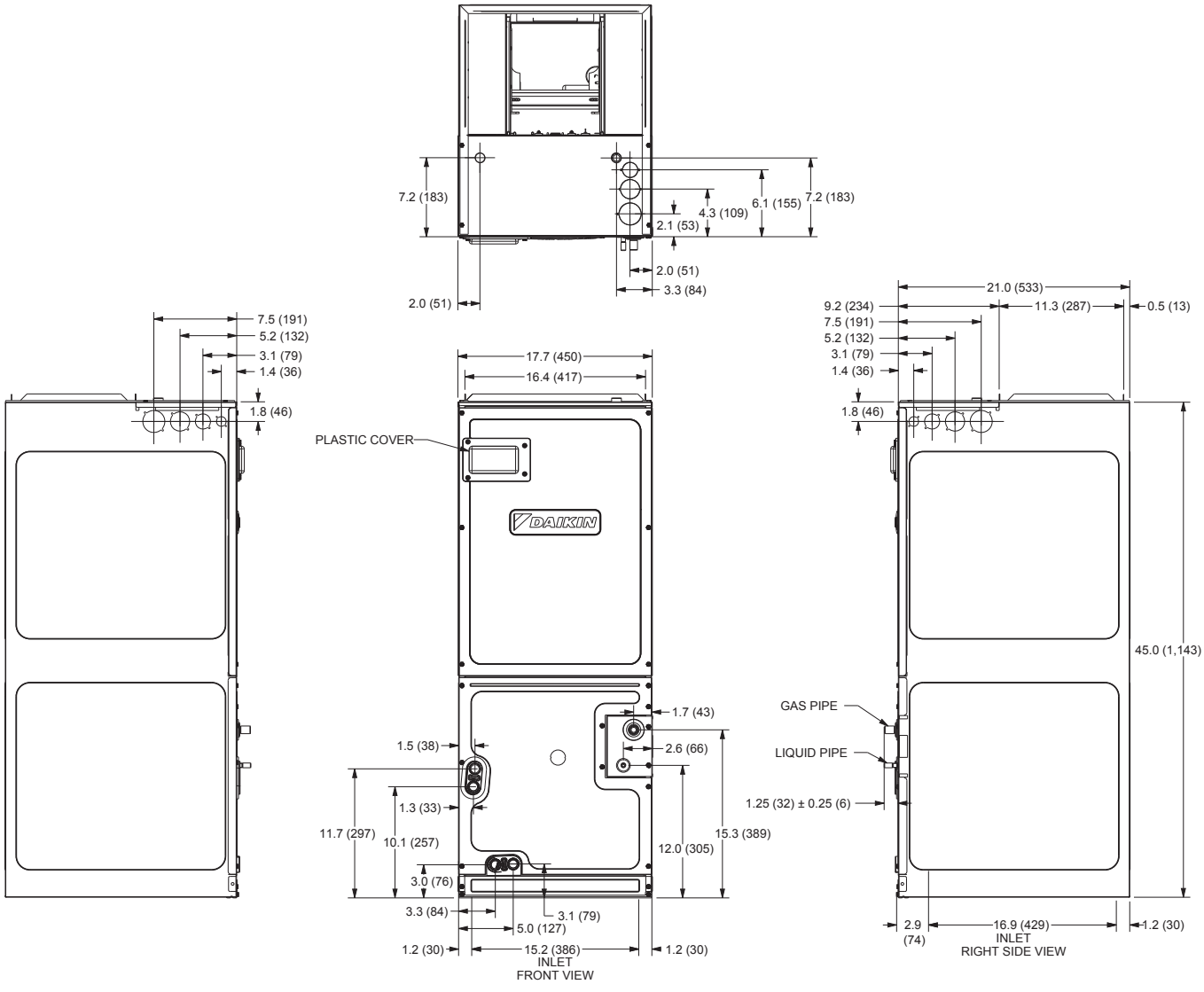


ITEM	PART NAME	REMARK
12	Drain hose(Accessory)	O.D. φ1-1/4(φ32) (Outlet)
11	Socket(For maintenance)	VP25(O.D. φ1-1/4(φ32), I.D. φ1(φ25))
10	Hanger	For M10
9	Air suction flange	
8	Air discharge flange	
7	Power supply connection	
6	Transmission wiring connection	
5	Control box(Inside)	
4	Ground terminal(Terminal in Control box)	M4
3	Drain pipe connection	VP25(O.D. φ1-1/4(φ32), I.D. φ1(φ25))
2	Gas pipe connection	φ5/8(φ15.9) flare connection
1	Liquid pipe connection	φ3/8(φ9.5) flare connection

3D065979J

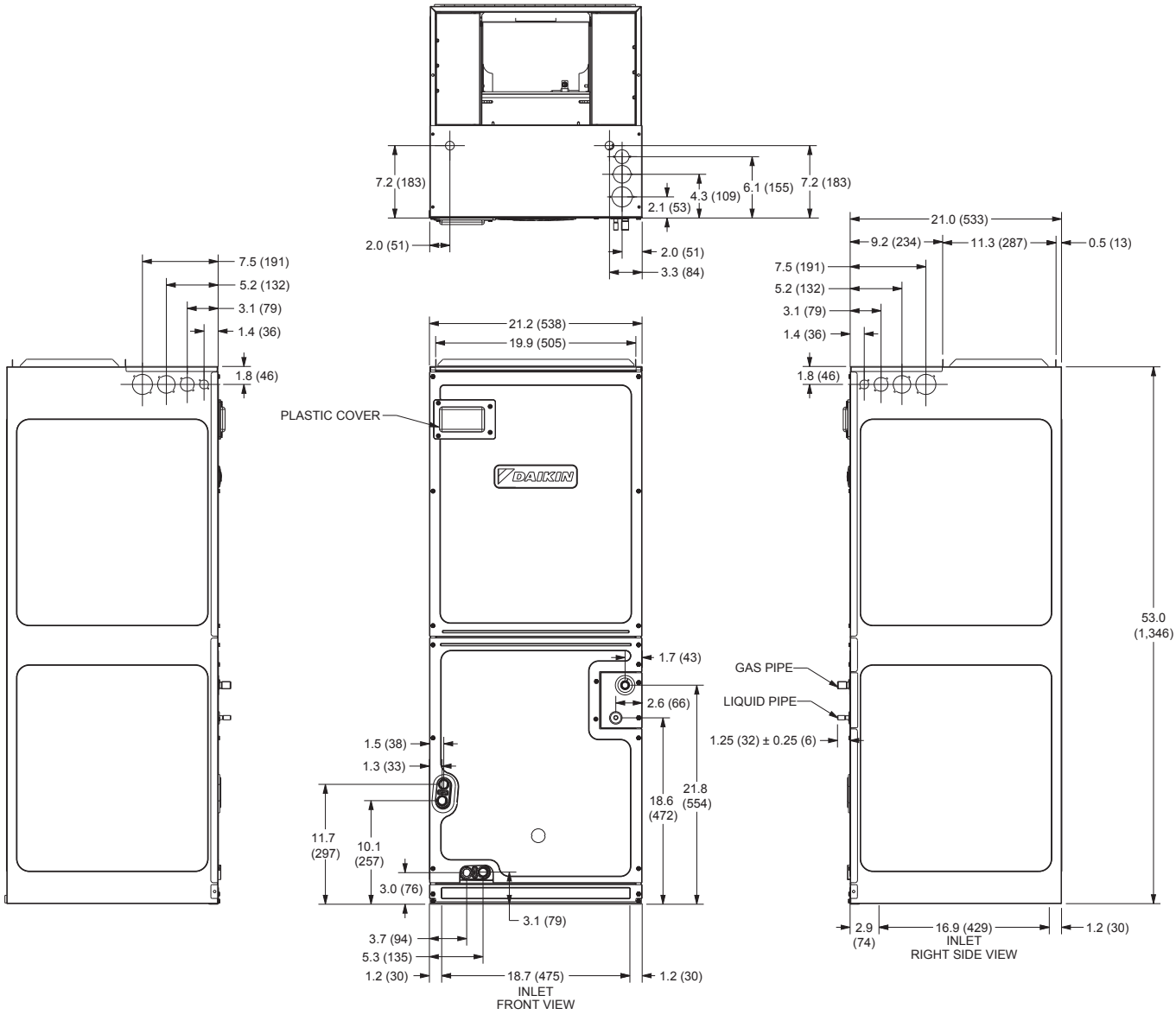
4.1.6 FTQ
FTQ18 - 36TAVJUD
FTQ18 - 36TAVJUA

Unit : in. (mm)



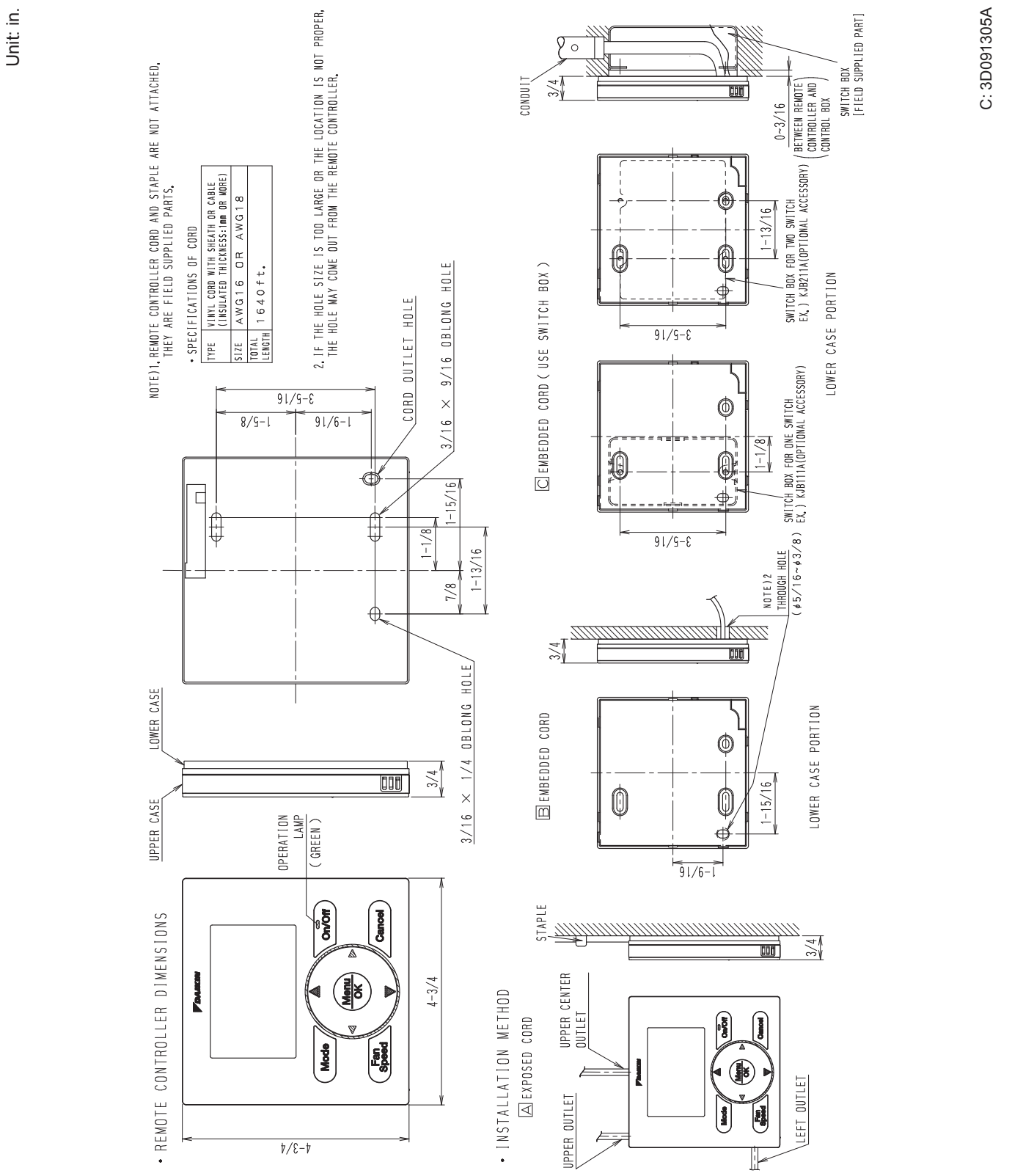
FTQ42 - 48TAVJUD
FTQ42 - 48TAVJUA

Unit : in. (mm)



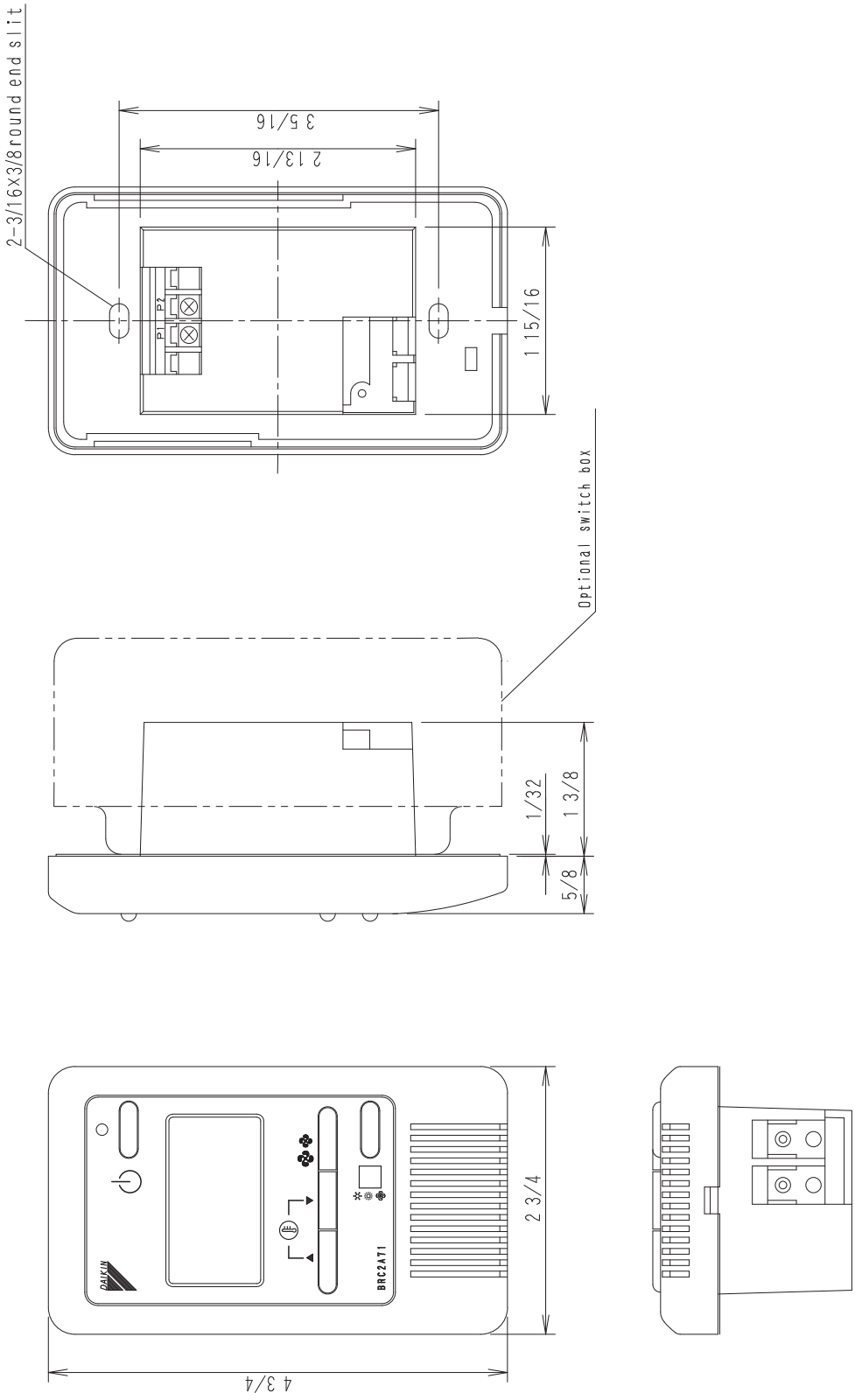
4.2 Wired Remote Controller (Accessory)

BRC1E73



BRC2A71

Unit: in.

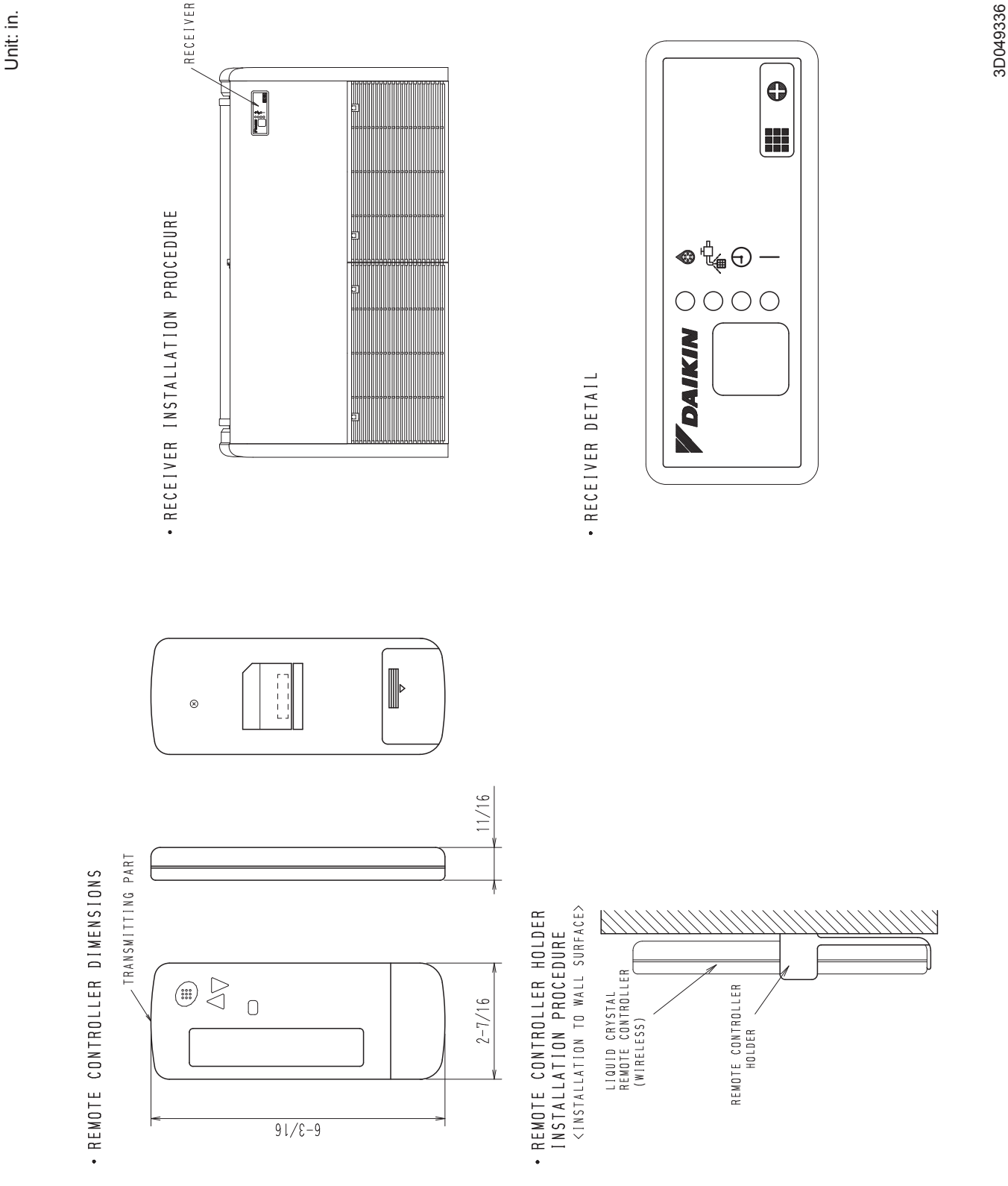


3D047341

4.3 Wireless Remote Controller (Accessory)

BRC7E83 (for FHQ)

Unit: in.

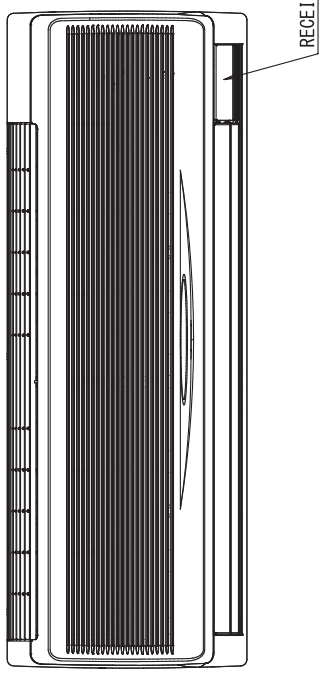


BRC7E818 (for FAQ)

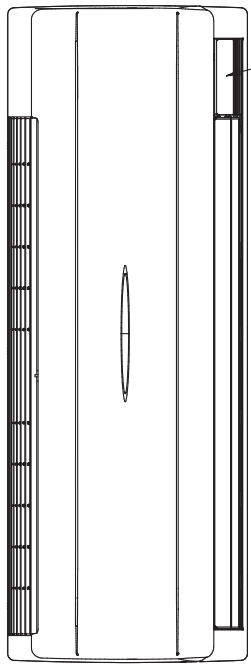
Unit : in.

• RECEIVER INSTALLATION PROCEDURE

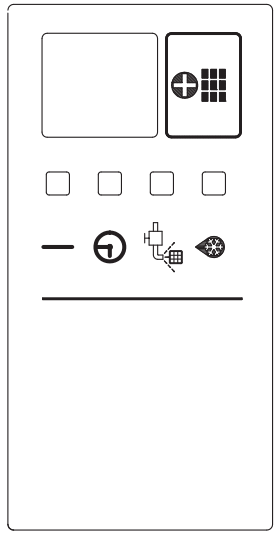
<MVJU Type>



<PVJU・TAVJU Type>

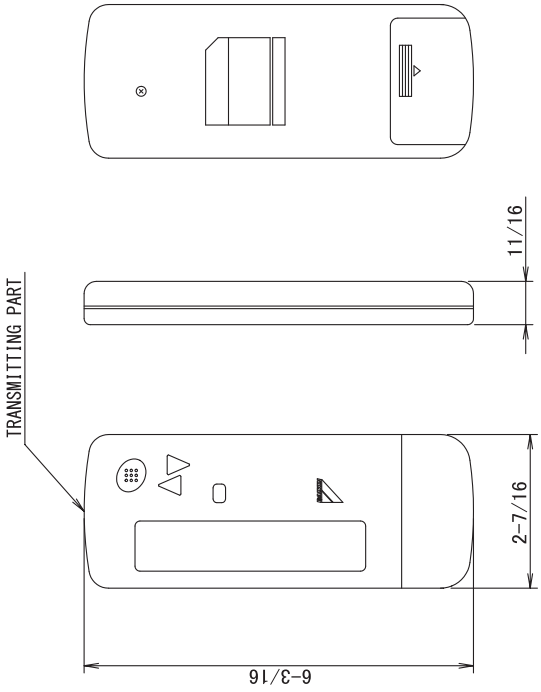


• RECEIVER DETAIL



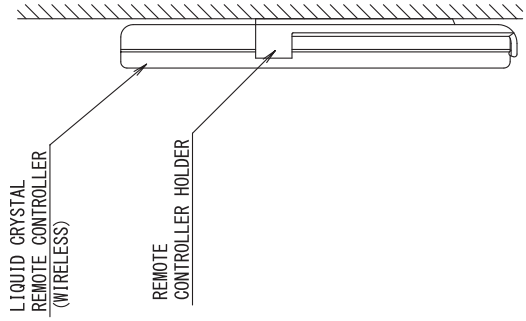
3D049736B

• REMOTE CONTROLLER DIMENSIONS

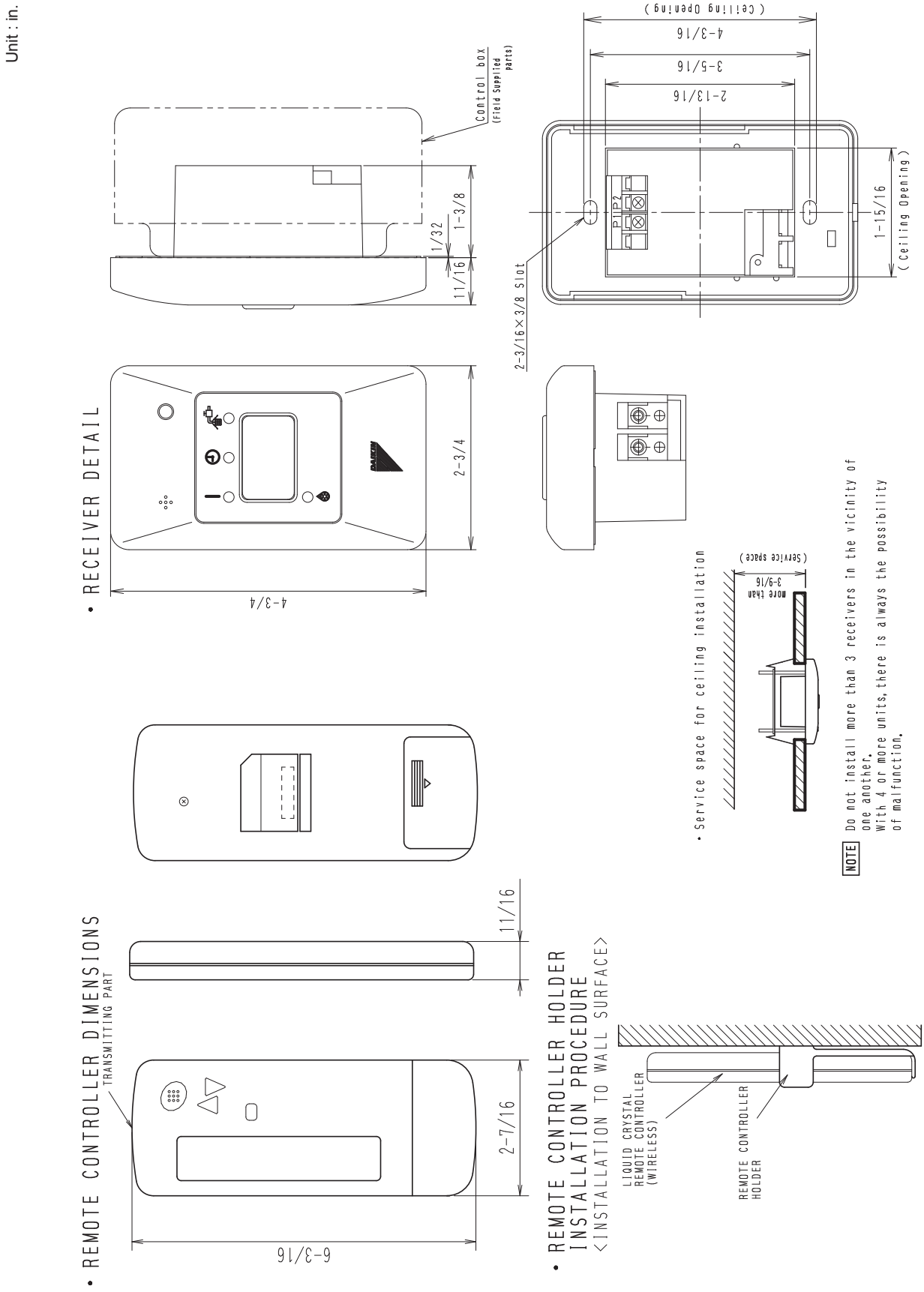


• REMOTE CONTROLLER HOLDER INSTALLATION PROCEDURE

<INSTALLATION TO WALL SURFACE>



BRC4C82 (for FBQ and FTQ)
BRC082A43 (for FBQ)

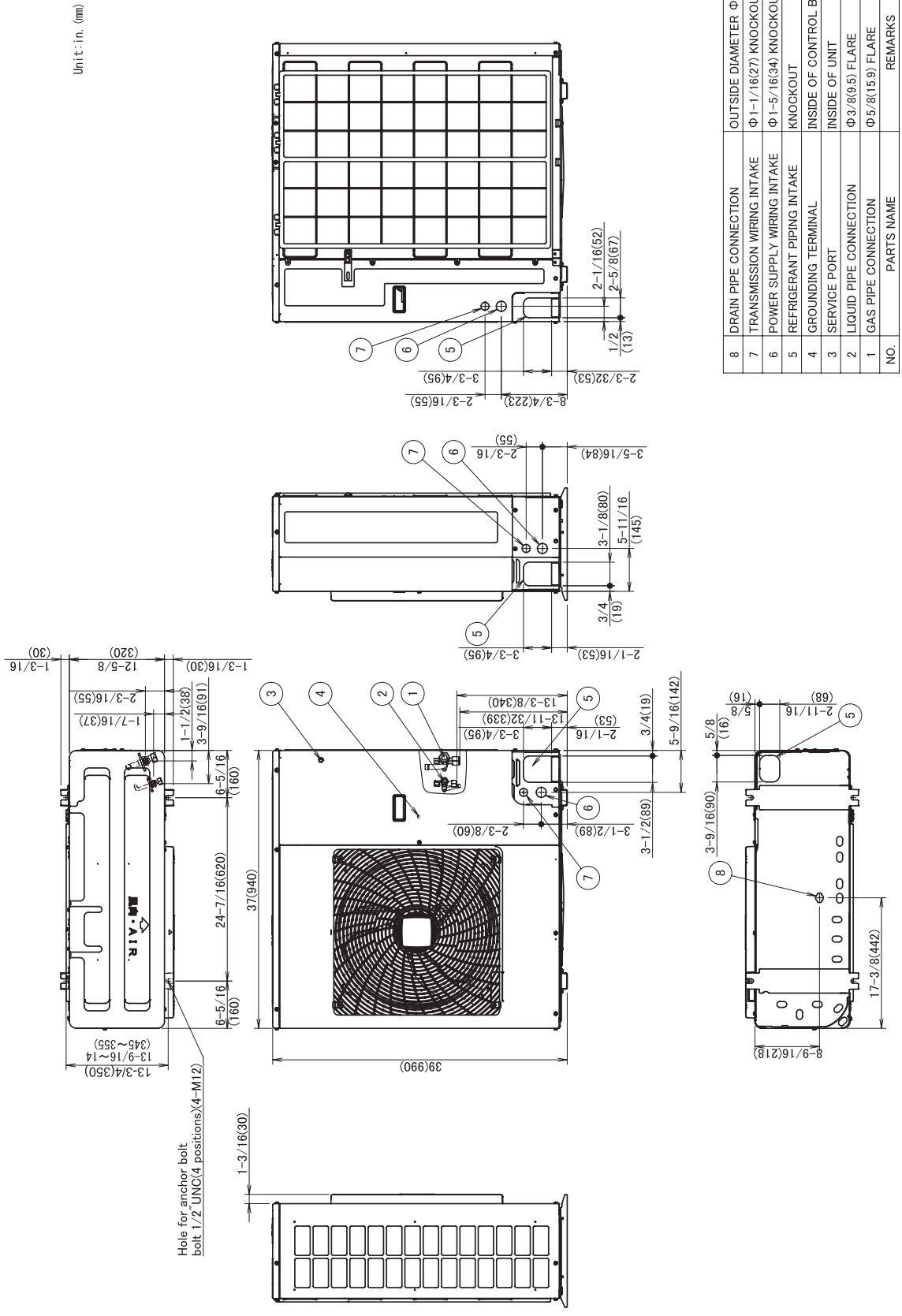


4.4 Outdoor Unit

RZR18 - 24TAVJUA
RZQ18 - 24TAVJUA

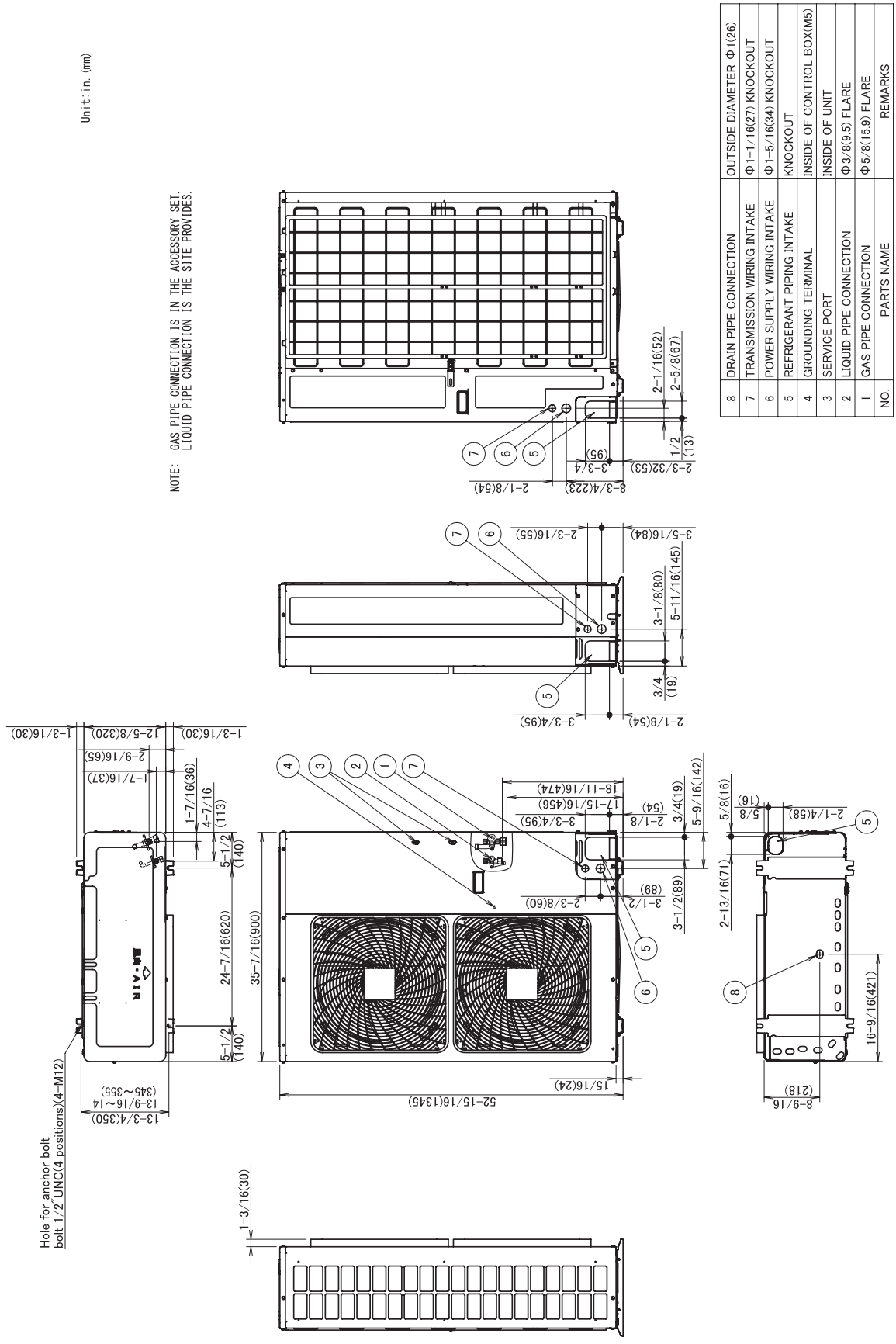
3D126496

Unit: in. (mm)



NO.	PARTS NAME	REMARKS
8	DRAIN PIPE CONNECTION	OUTSIDE DIAMETER Φ1(26)
7	TRANSMISSION WIRING INTAKE	Φ1-1/16(27) KNOCKOUT
6	POWER SUPPLY WIRING INTAKE	Φ1-5/16(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	Φ3/8(9.5) FLARE
1	GAS PIPE CONNECTION	Φ5/8(15.9) FLARE

RZR30 - 48TAVJUA
RZQ30 - 48TAVJUA



4.5 Installation Service Space

RZR18 - 24TAVJUA
RZQ18 - 24TAVJUA

REQUIRED INSTALLATION SPACE

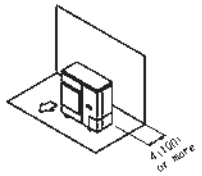
The unit of the balues is inch(mm).

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

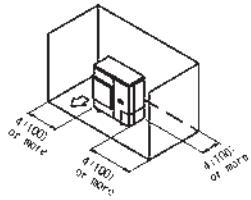
(a) No obstacle above

(1) Stand-alone installation

·Obstacle on the suction side only



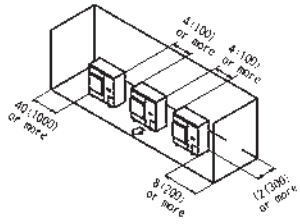
·Obstacle on both sides



(2) Series installation

(2 or more)

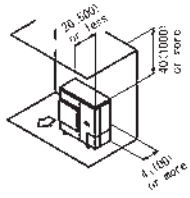
·Obstacle on both sides



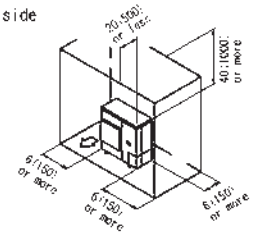
(b) Obstacle above, too

(1) Stand-alone installation

·Obstacle on the suction side, too



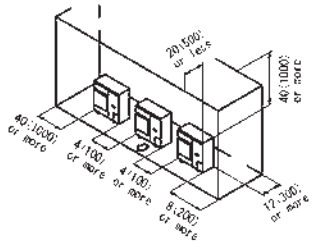
·Obstacle on the suction side and both sides



(2) Series installation

(2 or more)

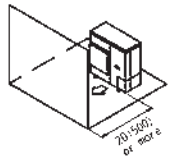
·Obstacle on the suction side and both sides



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

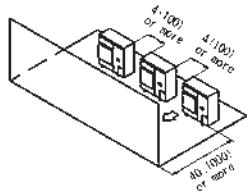
(a) No obstacle above

(1) Stand-alone installation



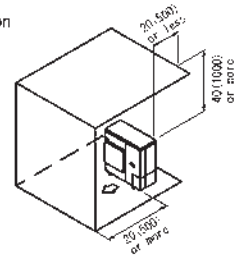
(2) Series installation

(2 or more)



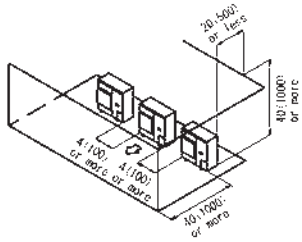
(b) Obstacle above, too

(1) Stand-alone installation



(2) Series installation

(2 or more)



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

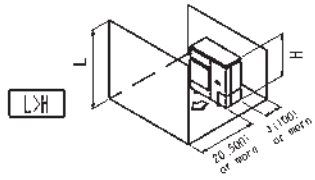
Pattern 1

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

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

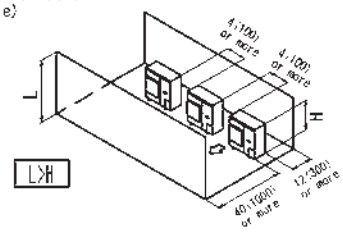
(a) No obstacle above

(1) Stand-alone installation



(2) Series installation

(2 or more)



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RZR18 - 24TAVJUA, continued
RZQ18 - 24TAVJUA, continued

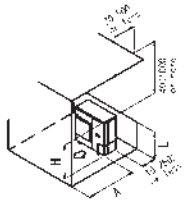
(b) Obstacle above, too

(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 discharged air from being bypassed.



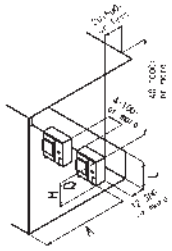
(2) Series installation
(2 or more)

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 discharged air from being bypassed.

Only two units can be installed for this series.



Pattern 2

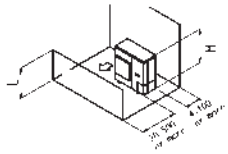
Where the obstacles on the discharge side is lower than the unit.

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

(a) No obstacle above

(1) Stand-alone installation

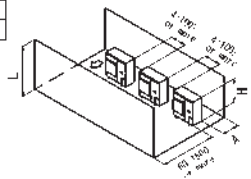
L>H



(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)



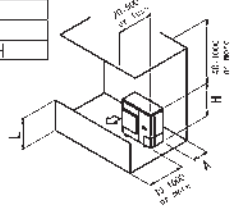
(b) Obstacle above, too

(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 discharged air from being bypassed.



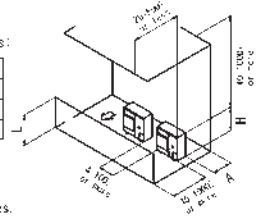
(2) Series installation

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 discharged air from being bypassed

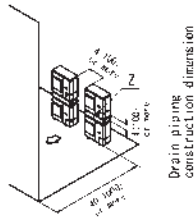
Only two units can be installed for this series.



4. Double-decker installation

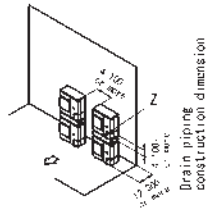
(a) Obstacle on the discharge side
Close the gap Z (the gap between the upper and lower outdoor units) to prevent the discharged air from being bypassed.

Do not stack more than two unit.



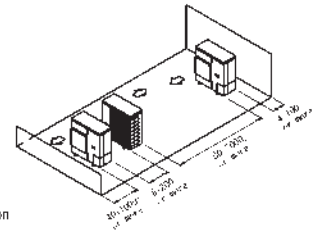
(b) Obstacle on the suction side
Close the gap Z (the gap between the upper and lower outdoor units) to prevent the discharged air from being bypassed.

Do not stack more than two unit.



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

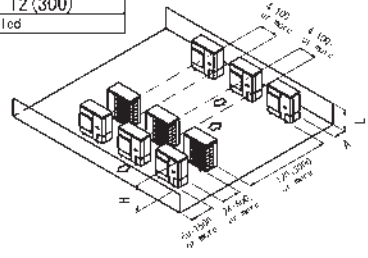
(a) One row of stand alone installation



(b) Rows of 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	



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RZR30 - 48TAVJUA
RZQ30 - 48TAVJUA

REQUIRED INSTALLATION SPACE

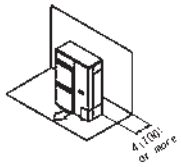
The unit of the balues is inch(mm).

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

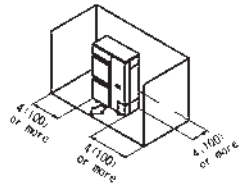
(a) No obstacle above

(1) Stand-alone installation

·Obstacle on the suction side only

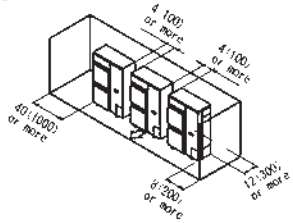


·Obstacle on both sides



(2) Series installation (2 or more)

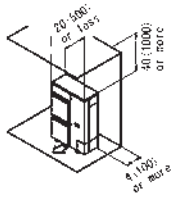
·Obstacle on both sides



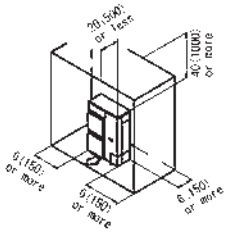
(b) Obstacle above, too

(1) Stand-alone installation

·Obstacle on the suction side, too

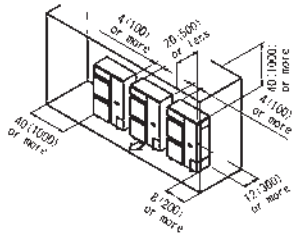


·Obstacle on the suction side and both sides



(2) Series installation (2 or more) (NOTE)

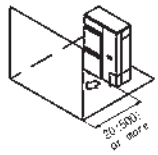
·Obstacle on the suction side and both sides



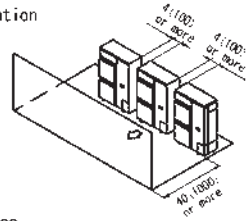
2. Where there is an obstacle on the discharge side:

(a) No obstacle above

(1) Stand-alone installation

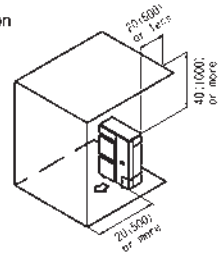


(2) Series installation (2 or more)

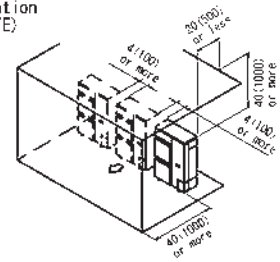


(b) Obstacle above, too

(1) Stand-alone installation



(2) Series installation (2 or more) (NOTE)



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

Pattern 1

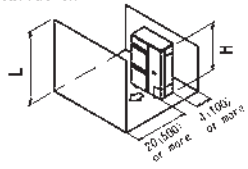
Where the obstacles on the discharge side is higher than the unit:

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

(a) No obstacle above

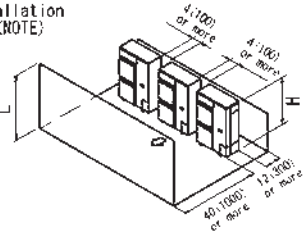
(1) Stand-alone installation

L≤H



(2) Series installation (2 or more) (NOTE)

L≤H



2D102480B

RZR30 - 48TAVJUA, continued
RZQ30 - 48TAVJUA, continued

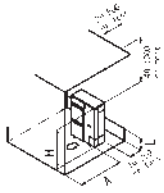
(b) Obstacle above, too

(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

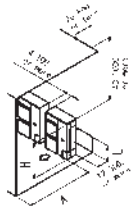
Close the bottom of the installation frame to prevent the discharged air from being bypassed.



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 discharged air from being bypassed



Only two units can be installed for this series.

Pattern 2

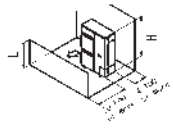
Where the obstacles on the discharge side is lower than the unit.

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

(a) No obstacle above

(1) Stand-alone installation

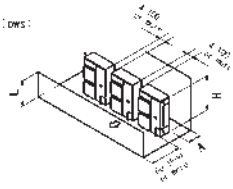
L≦H



(2) Series installation (2 or more) (NOTE)

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

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



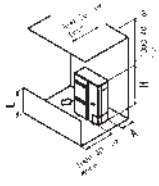
(b) Obstacle above, too

(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 discharged air from being bypassed



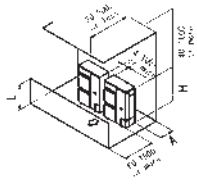
(2) Series installation (NOTE)

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 discharged air from being bypassed

Only two units can be installed for this series



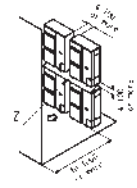
4. Double-decker installation

(a) Obstacle on the discharge side (NOTE)
Close the gap Z (the gap between the upper and lower outdoor units) to prevent the discharged air from being bypassed

Do not stack more than two unit

Set the board (if cold supply) as the detail A between two units to prevent the drainage rom frozing.

Leave the enough space between the layer one and the board.

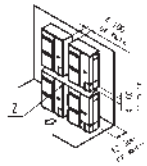


(b) Obstacle on the suction side (NOTE)
Close the gap Z (the gap between the upper and lower outdoor units) to prevent the discharged air from being bypassed.

Do not stack more than two unit

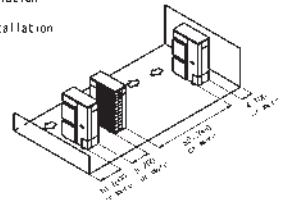
Set the board (if cold supply) as the detail A between two units to prevent the drainage rom frozing.

Leave the enough space between the layer one and the board



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

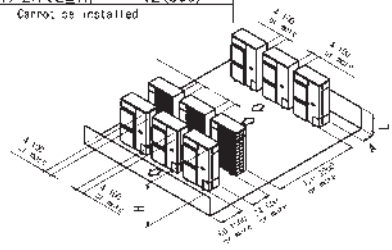
(a) One row of stand alone installation



(b) Rows of 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	



(NOTE) When install the units in a line, have to leave the distance over 4 (100) between the two units.

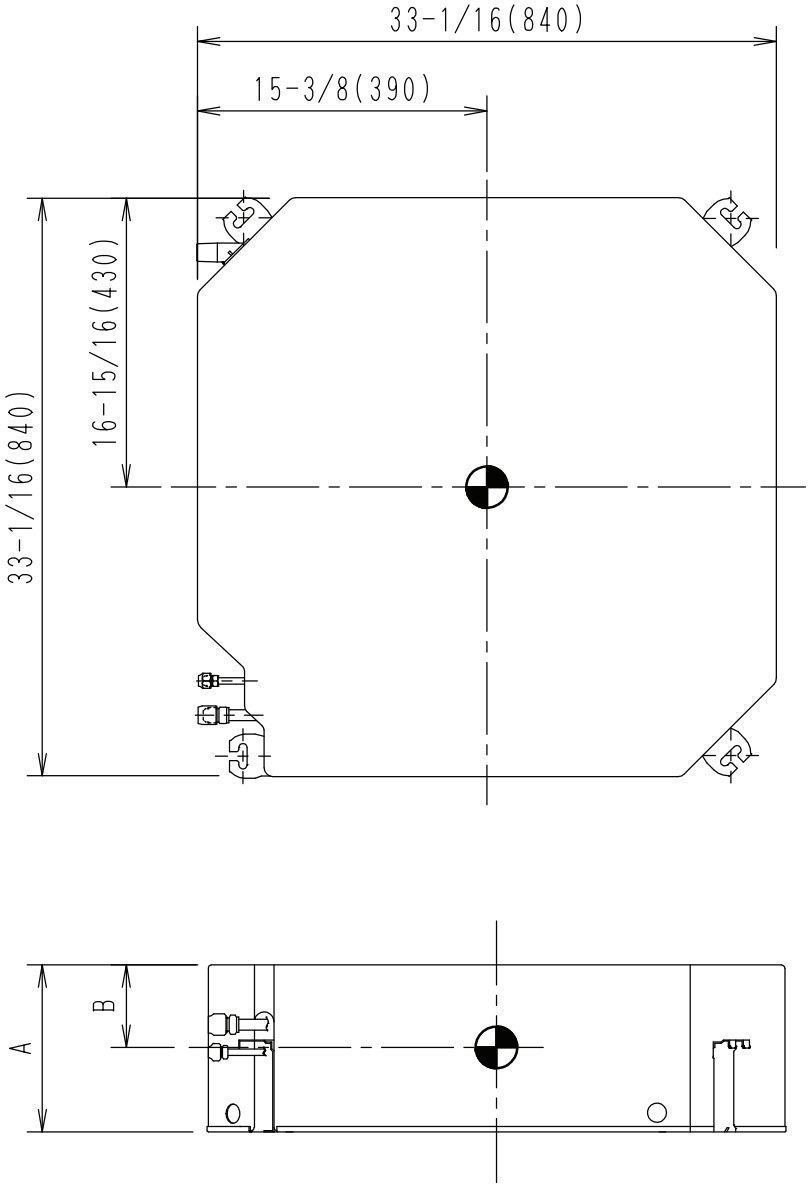
2D102480B

5. Center of Gravity

5.1 Indoor Unit

FCQ18 - 48TAVJU

Unit : in. (mm)

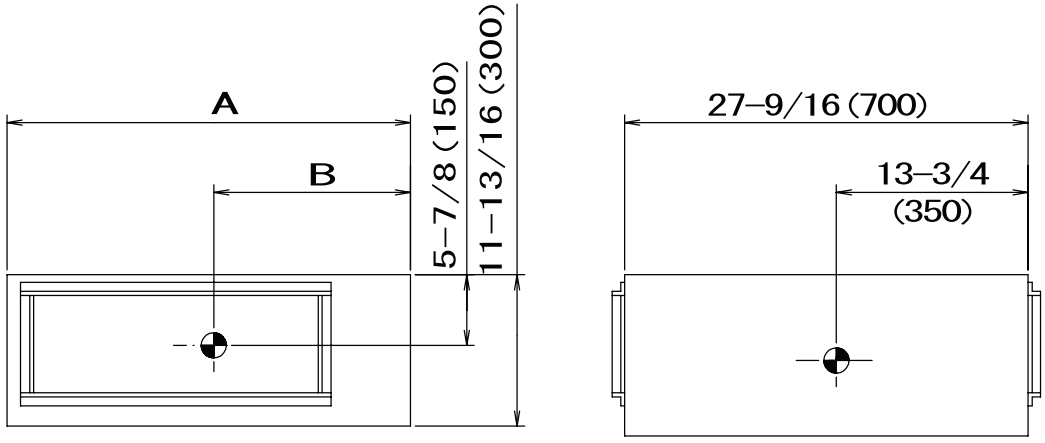


MODEL NAME	A	B
FCQ18・24TAVJU	9-11/16 (246)	3-9/16 (90)
FCQ30～48TAVJU	11-5/16 (288)	4-3/4 (120)

C: 4D070529D

FBQ18 - 48PVJU

Unit : in. (mm)



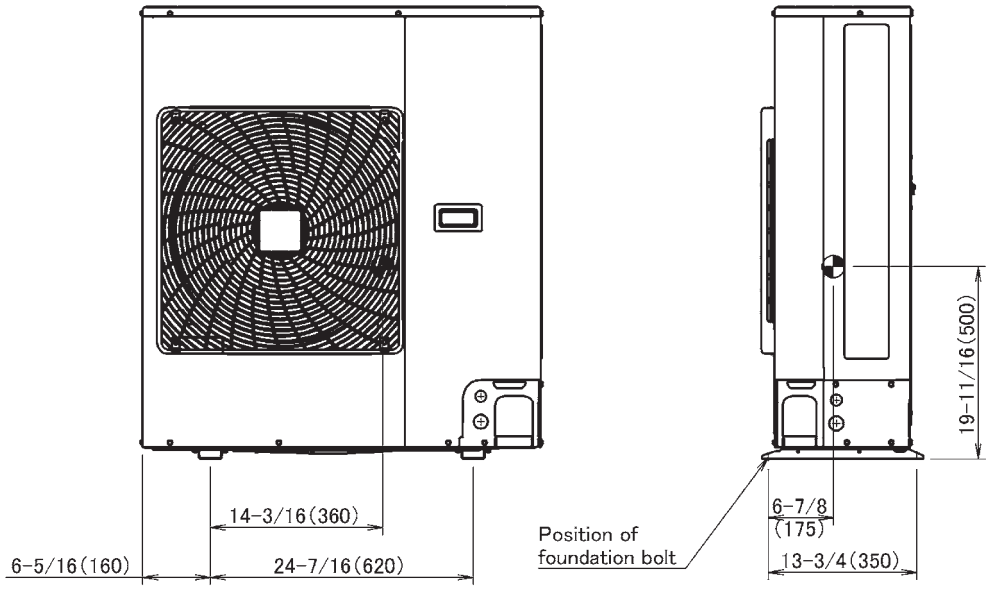
MODEL NAME	A	B
FBQ18・24・30PVJU	39-3/8 (1000)	18-1/8 (460)
FBQ30・42・48PVJU	55-1/8 (1400)	23-5/8 (600)

C: 4D065975B

5.2 Outdoor Unit

RZR18 - 24TAVJUA
RZQ18 - 24TAVJUA

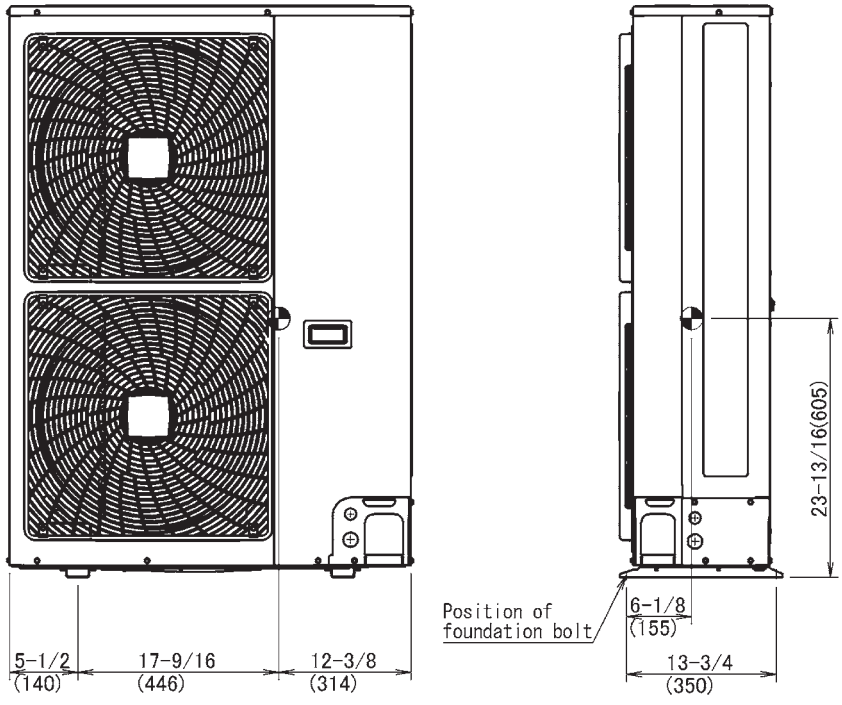
Unit. in. (mm)



4D101439A

RZR30 - 48TAVJUA
RZQ30 - 48TAVJUA

Unit. in. (mm)

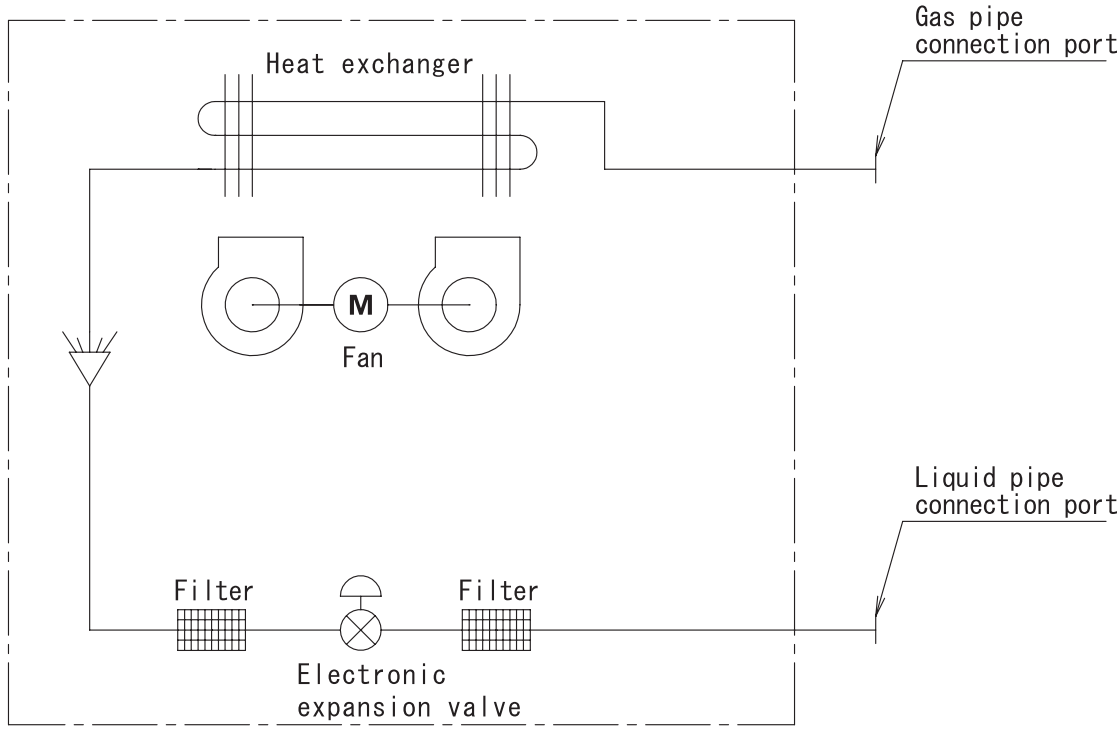


4D101441A

6. Piping Diagrams

6.1 Indoor Unit

FCQ18 - 48TAVJU

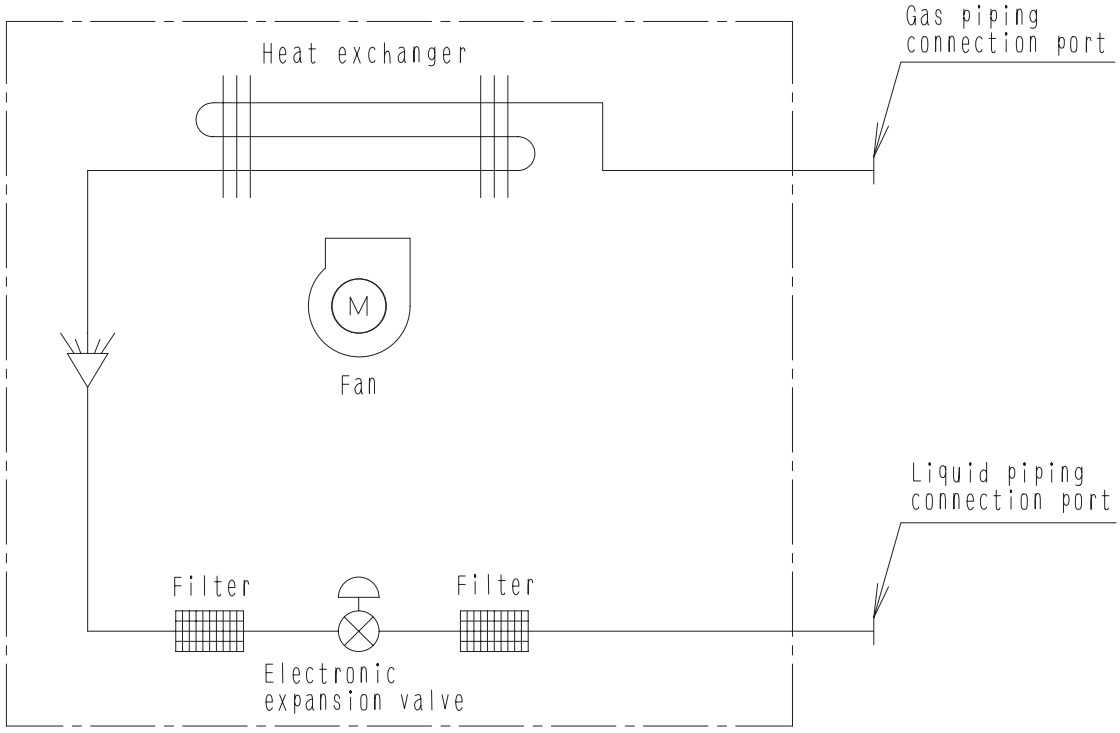


C: 4D034245R

Unit: in. (mm)

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

FHQ18 - 30PVJU, FHQ36 - 42MVJU

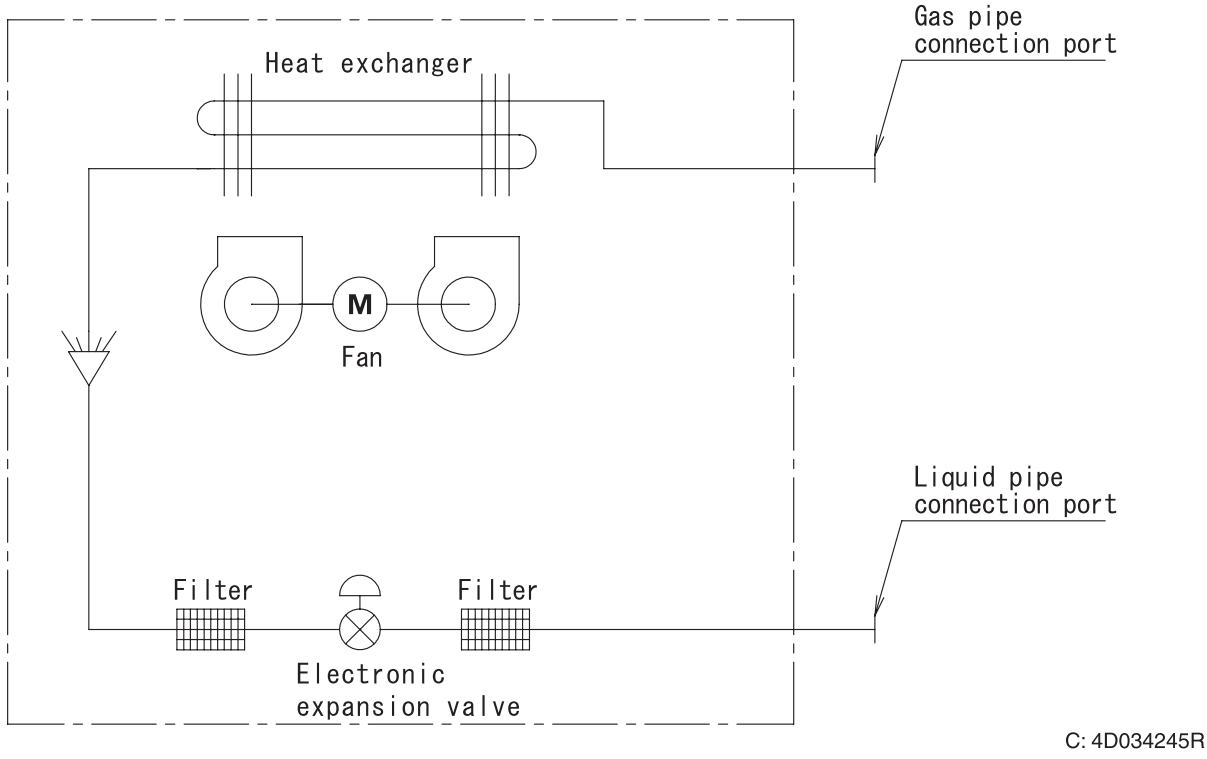


4D024460P

Unit: in. (mm)

Model	Gas	Liquid
FHQ18 - 30PVJU, FHQ36 - 42MVJU	ϕ5/8 (15.9)	ϕ3/8 (9.5)

FAQ18 - 24TAVJU

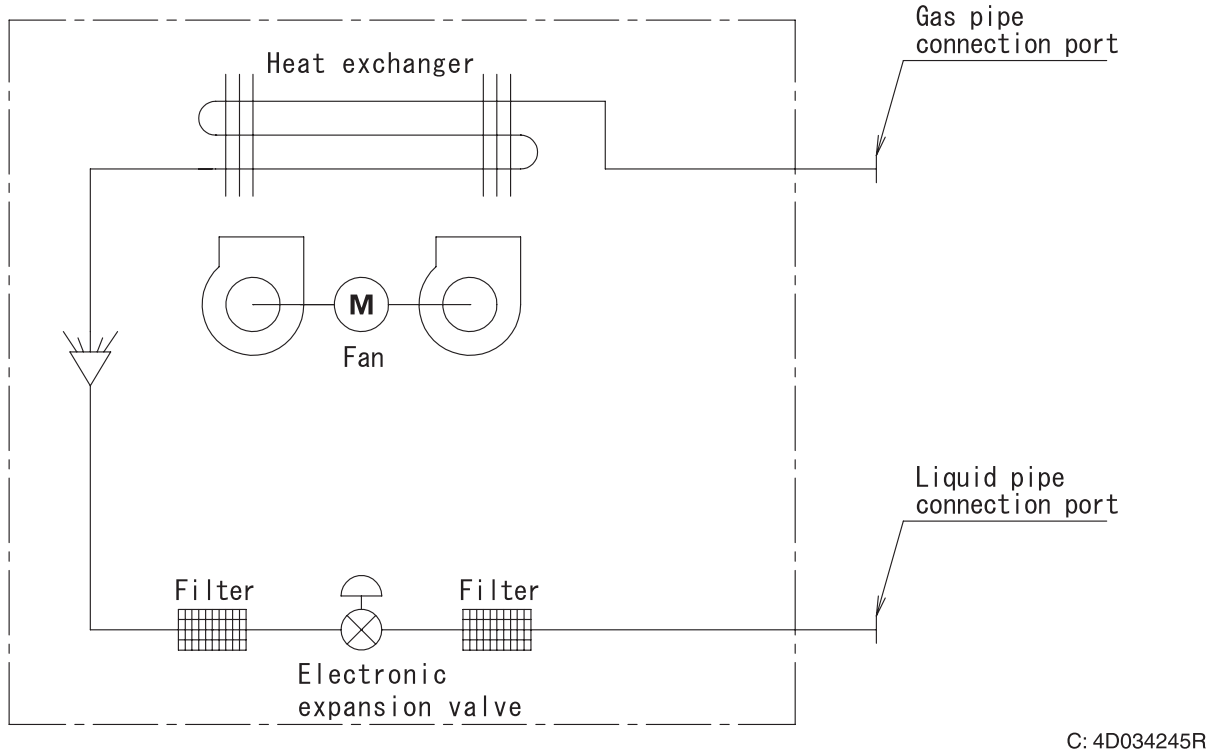


C: 4D034245R

Unit: in. (mm)

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

FBQ18 - 48PVJU

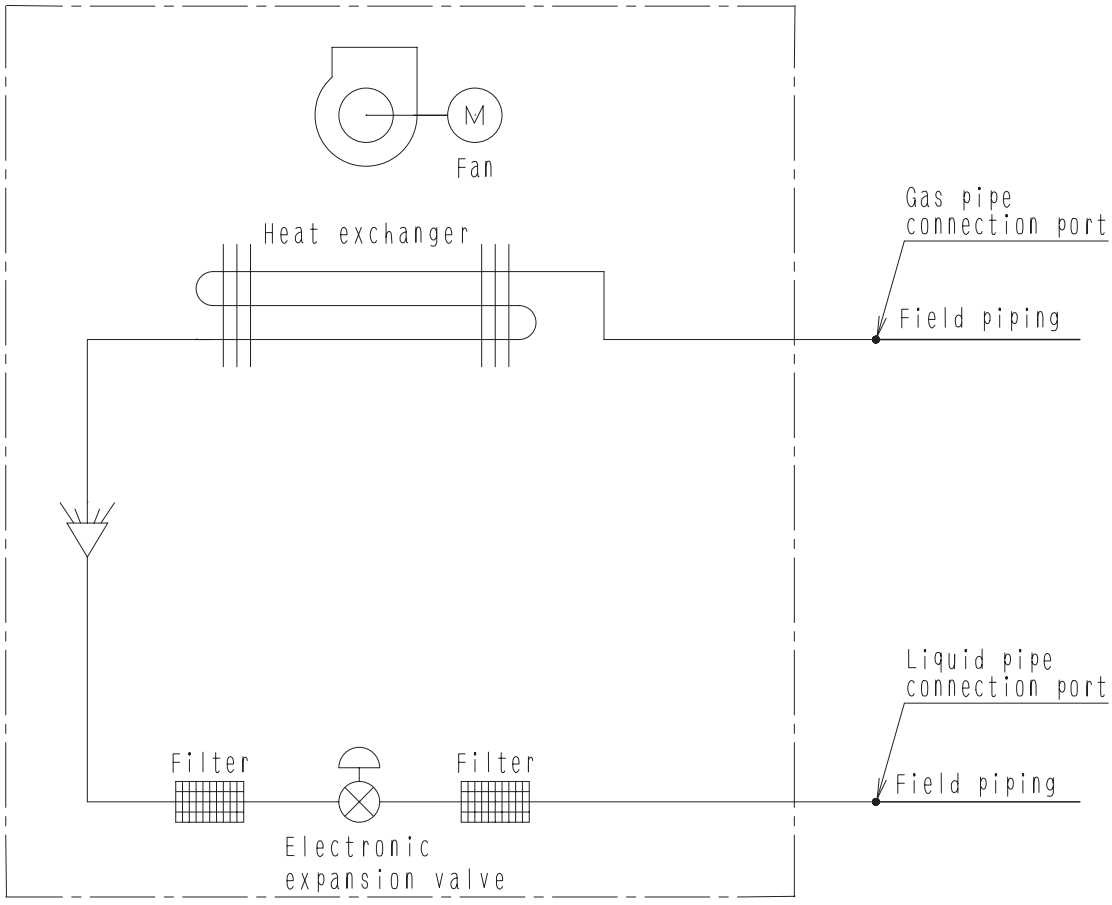


C: 4D034245R

Unit: in. (mm)

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

FTQ18 - 48TAVJUD
FTQ18 - 48TAVJUA



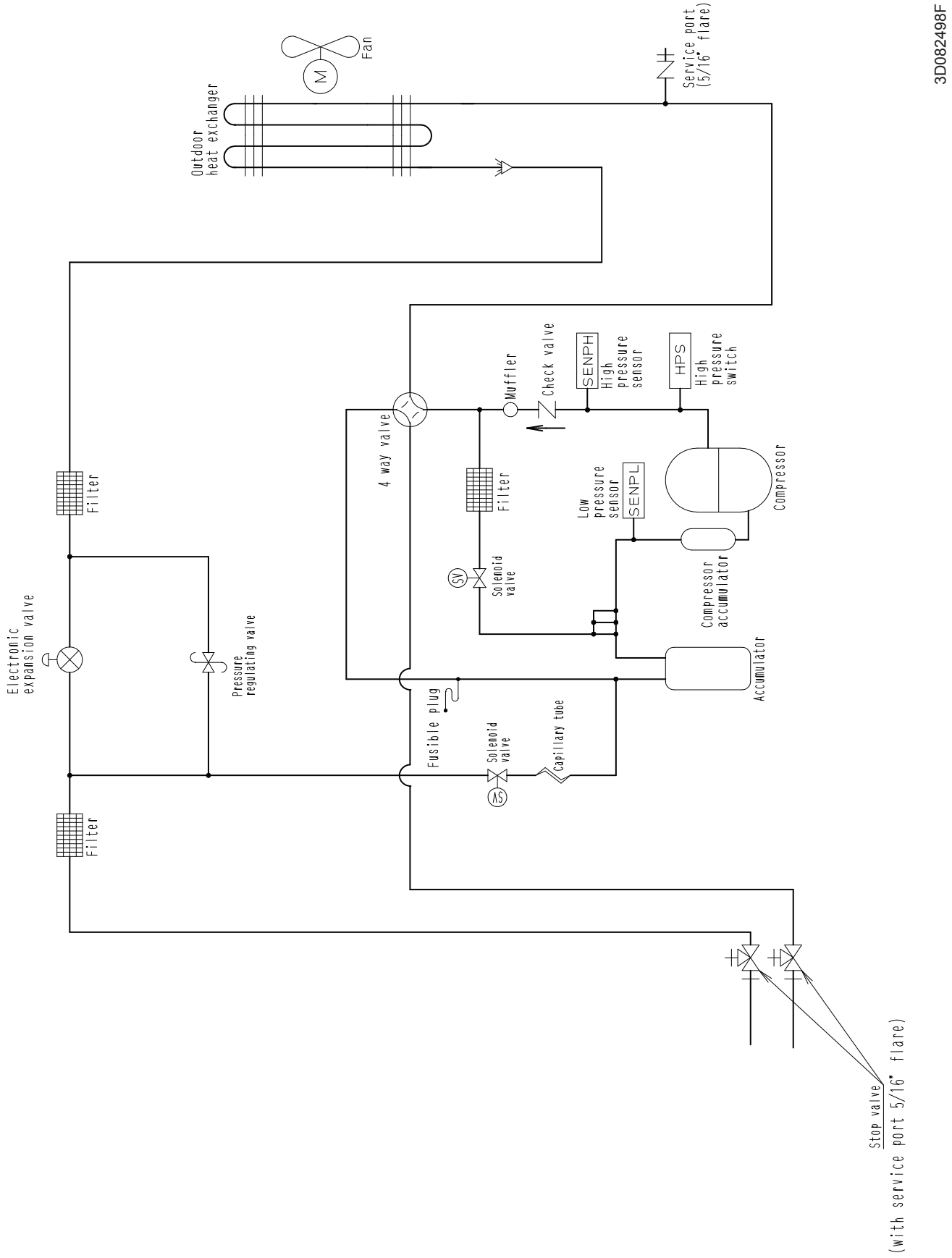
APPLICABLE MODEL

FTQ_TA

C: 4D068194

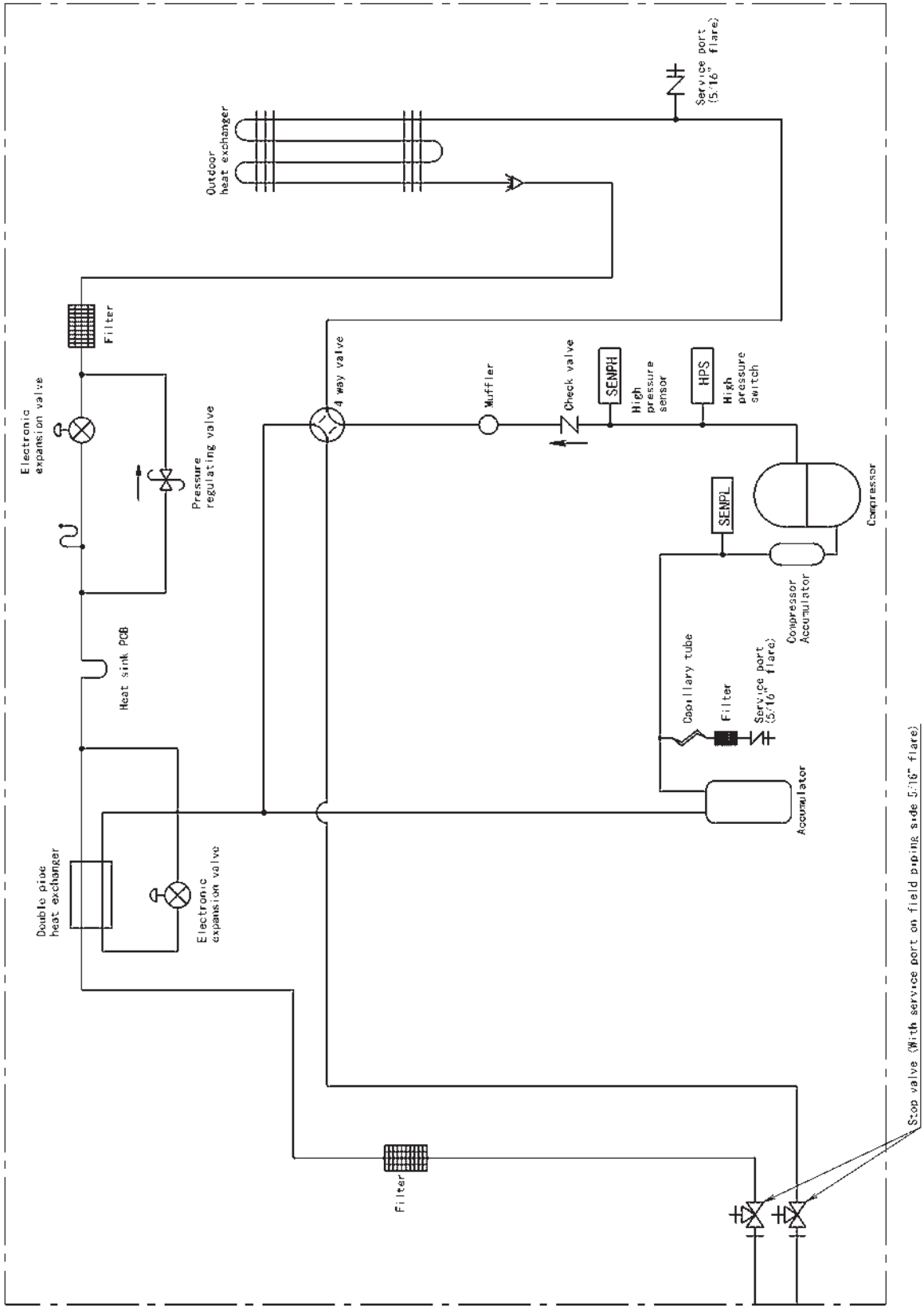
Model	GAS	Liquid
FTQ18 - 48TAVJUD FTQ18 - 48TAVJUA	ϕ 5/8 (ϕ15.9)	ϕ 3/8 (ϕ9.5)

6.2 Outdoor Unit
RZR18 - 24TAVJUA
RZQ18 - 24TAVJUA



RZR30 - 48TAVJUA
RZQ30 - 48TAVJUA

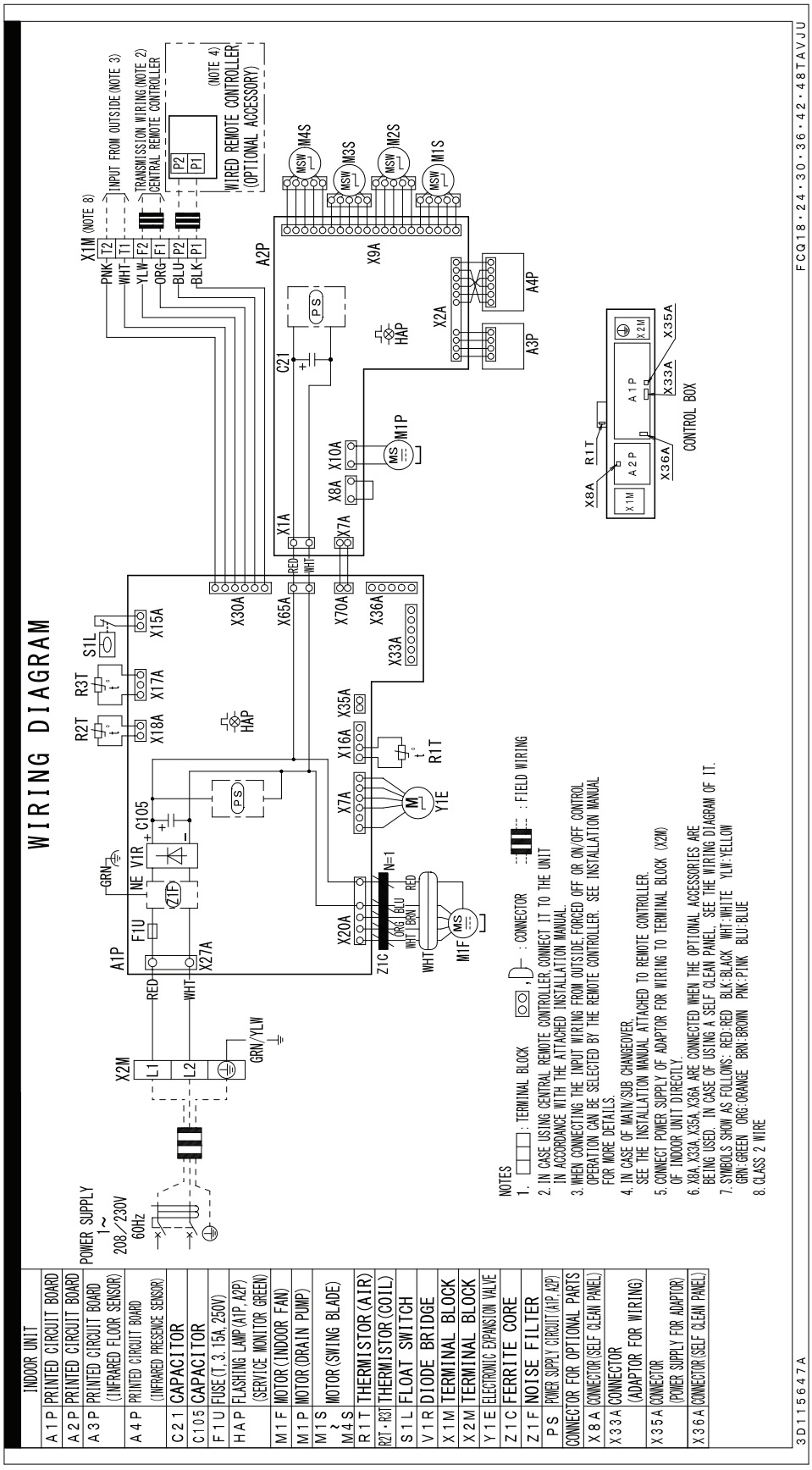
3D088595A



7. Wiring Diagrams

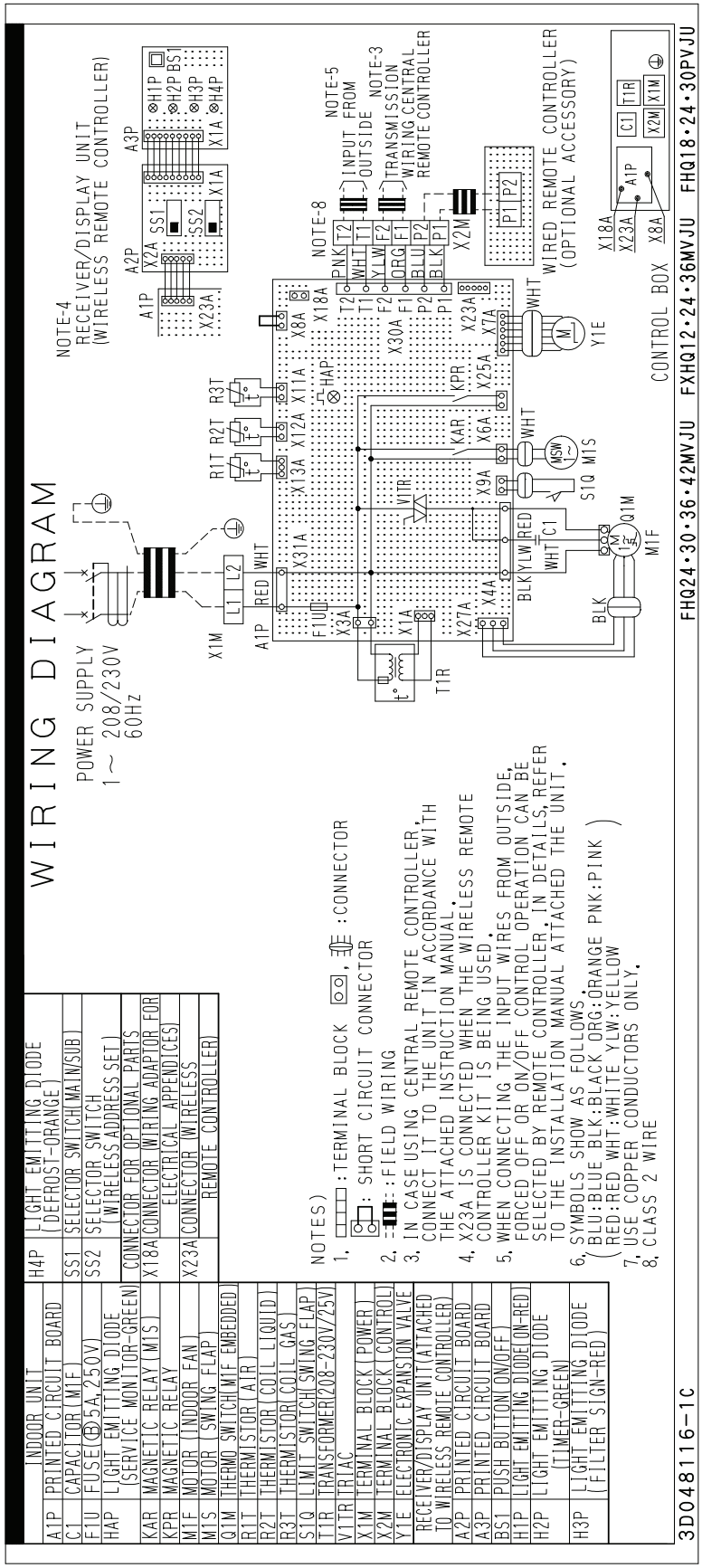
7.1 Indoor Unit

FCQ18 - 48TAVJU



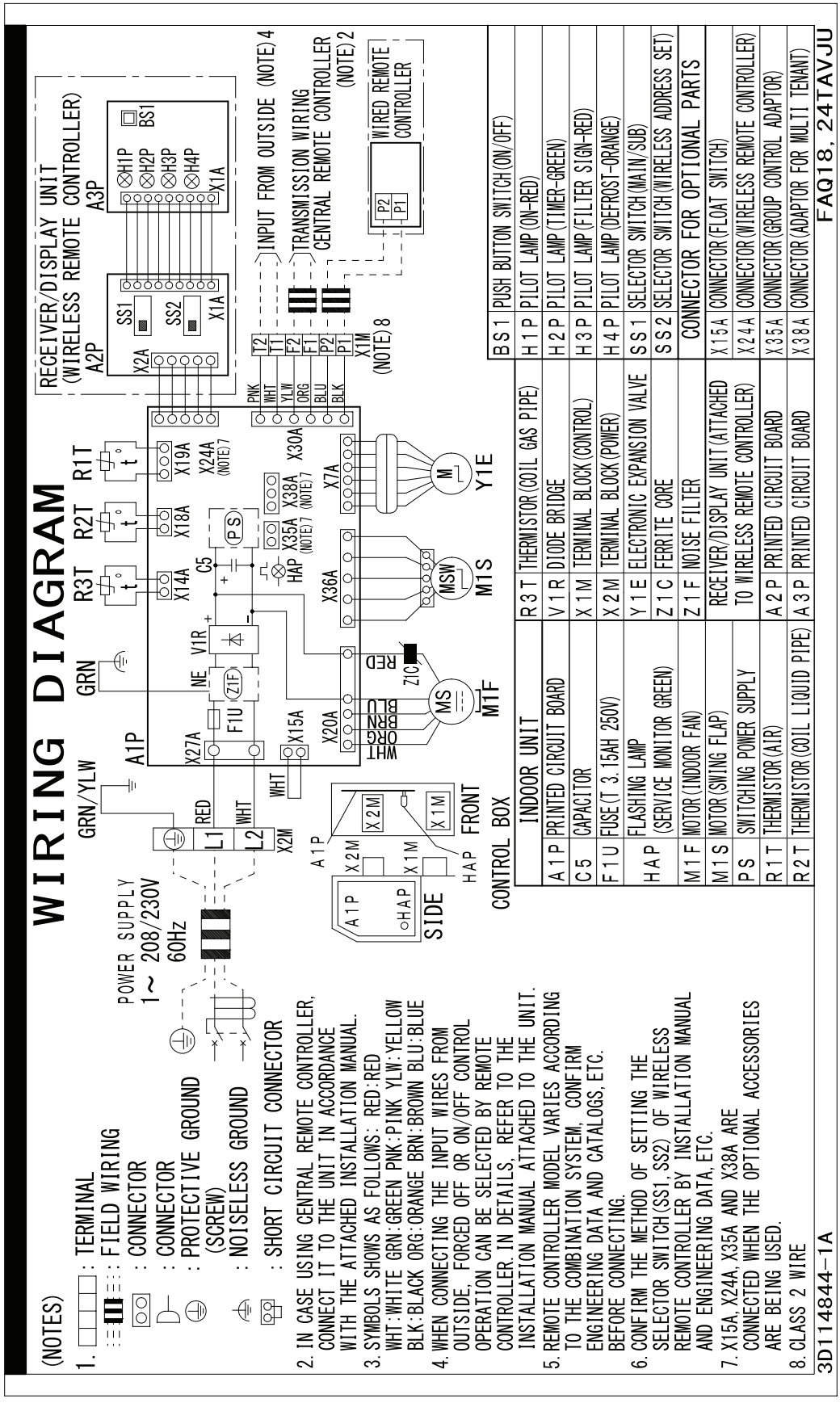
3D115647A

FHQ18 - 30PVJU, FHQ36 - 42MVJU



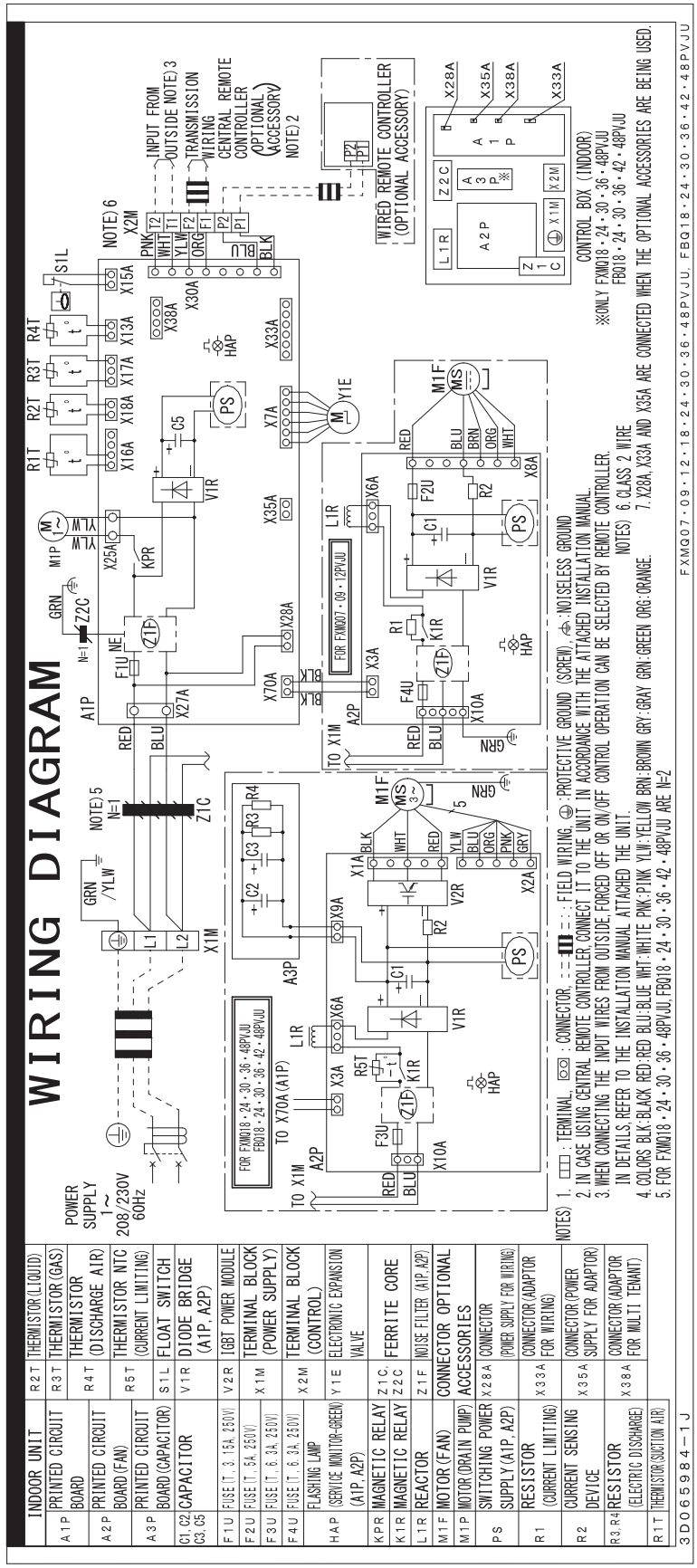
C: 3D048116C

FAQ18 - 24TAVJU



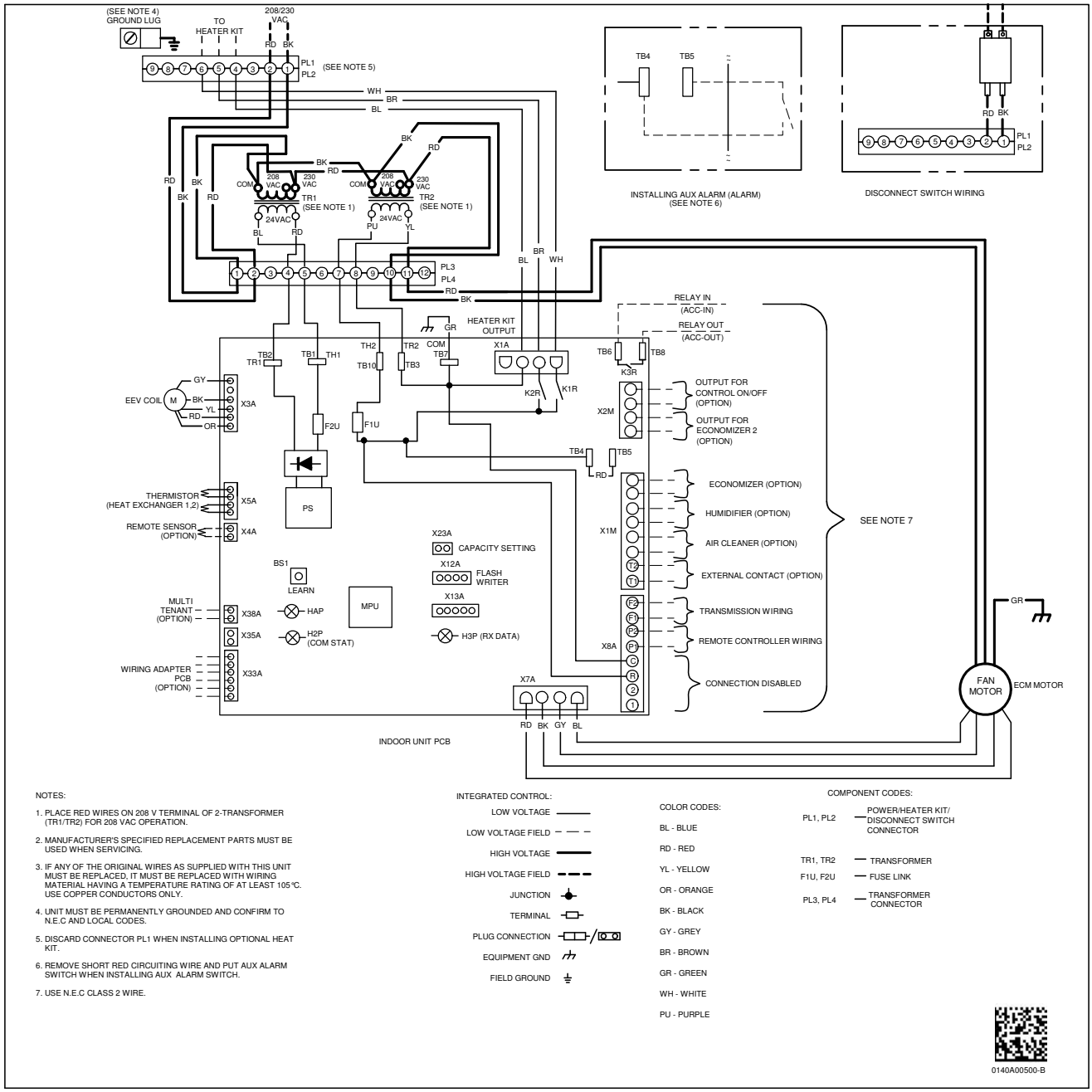
C: 3D114844B

FBQ18 - 48PVJU



C: 3D065984J

FTQ18 - 48TAVJUD
FTQ18 - 48TAVJUA



NOTES:

1. PLACE RED WIRES ON 208 V TERMINAL OF 2-TRANSFORMER (TR1/TR2) FOR 208 VAC OPERATION.
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 CONFIRM TO N.E.C AND LOCAL CODES.
5. DISCARD CONNECTOR PL1 WHEN INSTALLING OPTIONAL HEAT KIT.
6. REMOVE SHORT RED CIRCUITING WIRE AND PUT AUX ALARM SWITCH WHEN INSTALLING AUX ALARM SWITCH.
7. USE N.E.C CLASS 2 WIRE.

INTEGRATED CONTROL:

- LOW VOLTAGE
- LOW VOLTAGE FIELD
- HIGH VOLTAGE
- HIGH VOLTAGE FIELD
- JUNCTION
- TERMINAL
- PLUG CONNECTION
- EQUIPMENT GND
- FIELD GROUND

COLOR CODES:

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

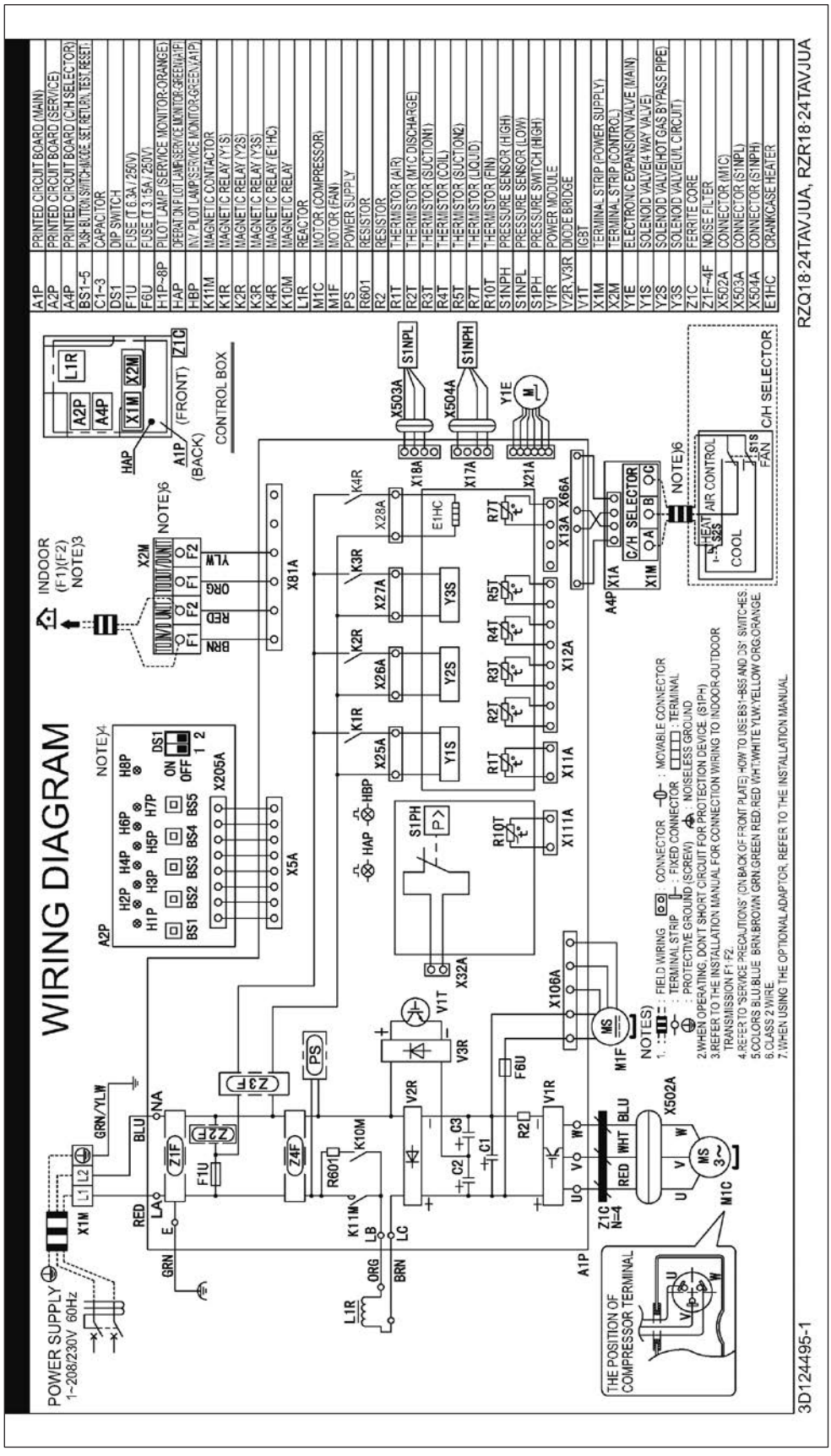
COMPONENT CODES:

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

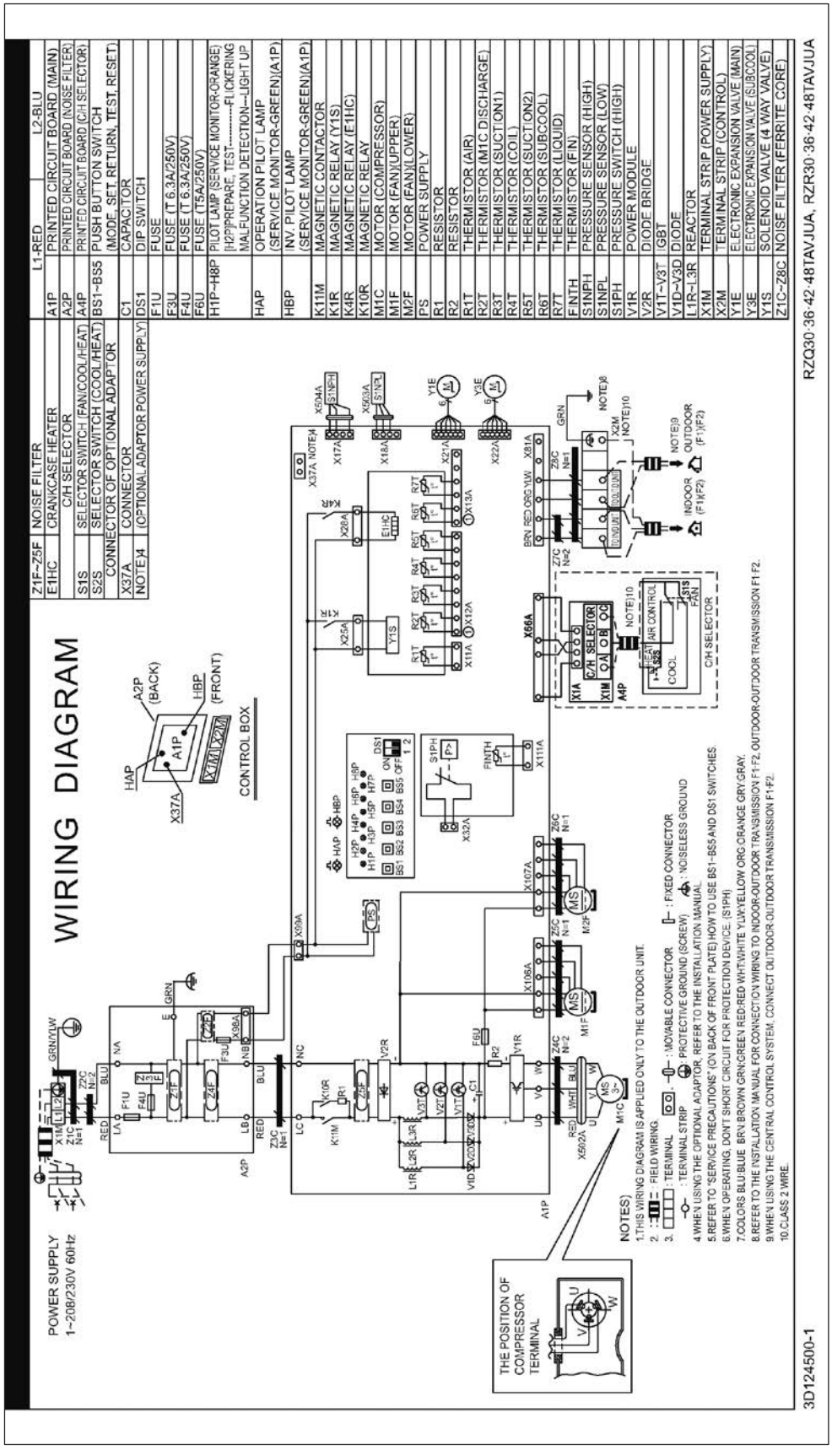
0140A00500-B

7.2 Outdoor Unit

RZR18 - 24TAVJUA
RZQ18 - 24TAVJUA



RZR30 - 48TAVJUA
RZQ30 - 48TAVJUA

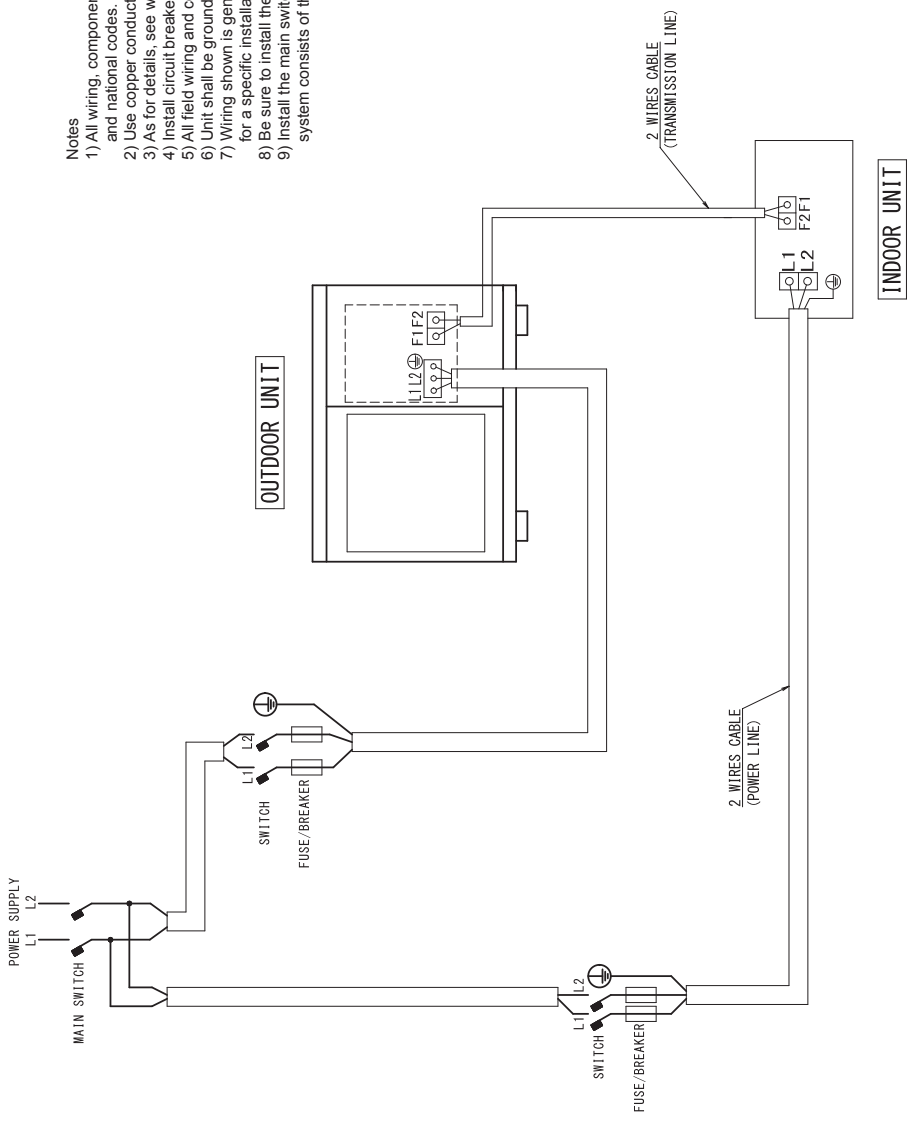


7.3 External Connection Diagram

RZR18 - 24TAVJUA
RZQ18 - 24TAVJUA

C: 3D064230D

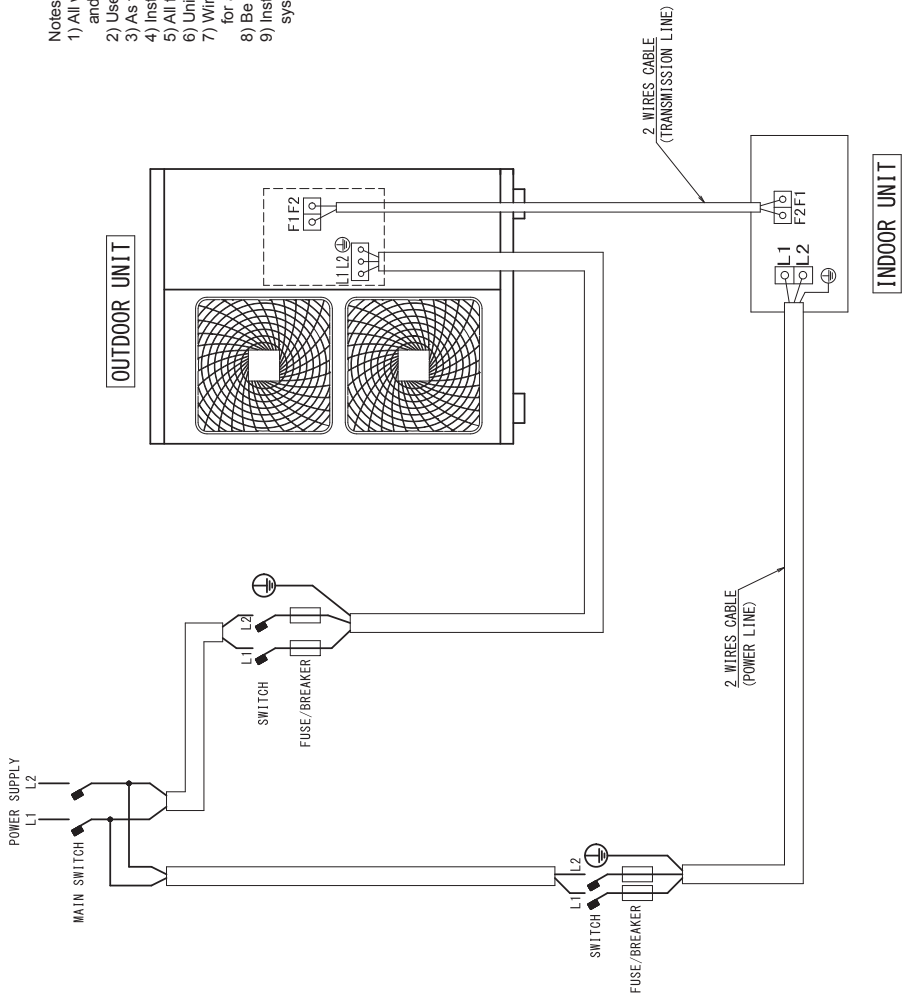
Notes
1) All wiring, components and materials to be procured on the site must comply with the applicable local and national codes.
2) Use copper conductors only.
3) As for details, see wiring diagram.
4) Install circuit breaker for safety.
5) All field wiring and components must be provided by licensed 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.
9) Install the main switch that can interrupt all the power sources in an integrated manner because this system consists of the equipment utilizing the multiple power sources.



RZR30 - 48TAVJUA
RZQ30 - 48TAVJUA

C: 3D071667C

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.
9) Install the main switch that can interrupt all the power sources in an integrated manner because this system consists of the equipment utilizing the multiple power sources.



8. Electrical Characteristics

8.1 Indoor Unit

FCQ18 - 48TAVJU

Model	Power Supply					IFM		Input (W)	
	Hz	Volts	Voltage range	MCA	MOP	KW	FLA	Cooling	Heating
FCQ18TAVJU	60	208/230 V	Max. 253 V Min. 187 V	0.6	15	0.048	0.5	76	72
FCQ24TAVJU				0.7	15	0.048	0.5	80	75
FCQ30TAVJU				1.3	15	0.106	1.0	169	161
FCQ36TAVJU				1.5	15	0.106	1.2	194	180
FCQ42TAVJU				1.8	15	0.106	1.4	219	199
FCQ48TAVJU				1.8	15	0.106	1.4	219	199

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. Minimum 15 A)
4. Select wire size based on the value of MCA.
5. Either a fuse or a circuit breaker is acceptable.

C: 4D115501

FHQ18 - 30PVJU, FHQ36 - 42MVJU

Model	Power Supply					IFM		Input (W)	
	Hz	Volts	Voltage range	MCA	MOP	KW	FLA	Cooling	Heating
FHQ18PVJU	60	208/230 V	Max. 253 V Min. 187 V	1.3	15	0.130	1.0	140	140
FHQ24PVJU				1.3	15	0.130	1.0	140	140
FHQ30PVJU				1.3	15	0.130	1.0	140	140
FHQ36MVJU				1.4	15	0.130	1.1	161	161
FHQ42MVJU				1.4	15	0.130	1.1	165	165

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. Minimum 15 A)
4. Select wire size based on the value of MCA.
5. Either a fuse or a circuit breaker is acceptable.

C: 4D049333B

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. Minimum 15 A)
4. Select wire size based on the value of MCA.
5. Either a fuse or a circuit breaker is acceptable.

C: 4D115411

FBQ18 - 48PVJU

Model	Power Supply					IFM		Input (W)	
	Hz	Volts	Voltage range	MCA	MOP	KW	FLA	Cooling	Heating
FBQ18PVJU	60	208/230 V	Max. 253 V Min. 187 V	1.6	15	0.350	1.3	214	203
FBQ24PVJU				1.8	15	0.350	1.4	229	218
FBQ30PVJU				2.3	15	0.350	1.8	297	286
FBQ36PVJU				2.9	15	0.350	2.3	375	364
FBQ42PVJU				3.4	15	0.350	2.7	460	449
FBQ48PVJU				3.4	15	0.350	2.7	460	449

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. Minimum 15 A)
4. Select wire size based on the value of MCA.
5. Either a fuse or a circuit breaker is acceptable.

C: 4D074107B

FTQ18 - 48TAVJUD
FTQ18 - 48TAVJUA

Model	Power Supply					IFM		Input (W)	
	Hz	Volts	Voltage range	MCA	MOP	HP	FLA	Cooling	Heating
FTQ18TAVJUD	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
FTQ24TAVJUD	60	208/230 V		4.9	15	1/2	3.9	273	273
FTQ30TAVJUD	60	208/230 V		4.9	15	1/2	3.9	407	407
FTQ36TAVJUD	60	208/230 V		4.9	15	1/2	3.9	436	436
FTQ42TAVJUD	60	208/230 V		6.5	15	3/4	5.2	473	473
FTQ48TAVJUD	60	208/230 V		6.5	15	3/4	5.2	518	518
FTQ18TAVJUA	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
FTQ24TAVJUA	60	208/230 V		4.9	15	1/2	3.9	273	273
FTQ30TAVJUA	60	208/230 V		4.9	15	1/2	3.9	407	407
FTQ36TAVJUA	60	208/230 V		4.9	15	1/2	3.9	436	436
FTQ42TAVJUA	60	208/230 V		6.5	15	3/4	5.2	473	473
FTQ48TAVJUA	60	208/230 V		6.5	15	3/4	5.2	518	518

Symbol:
MCA : Minimum Circuit Amps (A)
MOP : Maximum Overcurrent Protective Device (A)
IFM : Indoor Fan Motor
HP : Fan Motor Rated Output (HP)
FLA : Full Load Amps (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 wire size based on the MCA.

8.2 Electric Heater

FTQ18 - 36TAVJUD

FTQ18 - 36TAVJUA

Model	CIRCUIT 1			CIRCUIT 2			SINGLE-POINT KIT	
	AMPS	MCA	MOP	AMPS	MCA	MOP	MCA	MOP
FTQ18TAVJUD FTQ18TAVJUA	**0/0**	**4.9/4.9**	**15/15**	—	—	—	—	—
HKS*03XC*	10.8/12.5	18.4/21	20/25	—	—	—	—	—
HKS*05XC*	17.3/20	27/29.9	30/30	—	—	—	—	—
HKS*06XC*	21.7/25	32/36.1	35/40	—	—	—	—	—
HKS*08XC*	28.9/33.3	41/46.5	45/50	—	—	—	—	—
HKS*10XC*	34.7/40	48/54.9	50/60	—	—	—	—	—
FTQ24TAVJUD FTQ24TAVJUA	**0/0**	**4.9/4.9**	**15/15**	—	—	—	—	—
HKS*03XC*	10.8/12.5	18.4/21	20/25	—	—	—	—	—
HKS*05XC*	17.3/20	27/29.9	30/30	—	—	—	—	—
HKS*06XC*	21.7/25	32/36.1	35/40	—	—	—	—	—
HKS*08XC*	28.9/33.3	41/46.5	45/50	—	—	—	—	—
HKS*10XC*	34.7/40	48/54.9	50/60	—	—	—	—	—
FTQ30TAVJUD FTQ30TAVJUA	**0/0**	**4.9/4.9**	**15/15**	—	—	—	—	—
HKS*03XC*	10.8/12.5	18.4/21	20/25	—	—	—	—	—
HKS*05XC*	17.3/20	27/29.9	30/30	—	—	—	—	—
HKS*06XC*	21.7/25	32/36.1	35/40	—	—	—	—	—
HKS*08XC*	28.9/33.3	41/46.5	45/50	—	—	—	—	—
HKS*10XC*	34.7/40	48/54.9	50/60	—	—	—	—	—
FTQ36TAVJUD FTQ36TAVJUA	**0/0**	**4.9/4.9**	**15/15**	—	—	—	—	—
HKS*03XC*	10.8/12.5	18.4/21	20/25	—	—	—	—	—
HKS*05XC*	17.3/20	27/29.9	30/30	—	—	—	—	—
HKS*06XC*	21.7/25	32/36.1	35/40	—	—	—	—	—
HKS*08XC*	28.9/33.3	41/46.5	45/50	—	—	—	—	—
HKS*10XC*	34.7/40	48/54.9	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 - 36TAVJUD models.

FTQ42 - 48TAVJUD
FTQ42 - 48TAVJUA

Model	CIRCUIT 1			CIRCUIT 2			SINGLE-POINT KIT	
	AMPS	MCA	MOP	AMPS	MCA	MOP	MCA	MOP
FTQ42TAVJUD FTQ42TAVJUA	**0/0**	**6.5/6.5**	**15/15**	—	—	—	—	—
HKS*05XC*	17.3/20	28.2/32	30/35	—	—	—	—	—
HKS*06XC*	21.7/25	33.6/38	35/40	—	—	—	—	—
HKS*08XC*	28.9/33.3	42.6/48	45/50	—	—	—	—	—
HKS*10XC*	34.7/40	49.8/57	50/60	—	—	—	—	—
HKS*15*#*	34.7/40	49.8/57	50/60	17.3/20	21.7/25	25/25	71.5/81.5	80/90
HKSC19C*#*	34.7/40	49.8/57	50/60	34.7/40	43.3/50	45/50	93.2/106.5	100/110
FTQ48TAVJUD FTQ48TAVJUA	**0/0**	**6.5/6.5**	**15/15**	—	—	—	—	—
HKS*05XC*	17.3/20	28.2/32	30/35	—	—	—	—	—
HKS*06XC*	21.7/25	33.6/38	35/40	—	—	—	—	—
HKS*08XC*	28.9/33.3	42.6/48	45/50	—	—	—	—	—
HKS*10XC*	34.7/40	49.8/57	50/60	—	—	—	—	—
HKS*15*#*	34.7/40	49.8/57	50/60	17.3/20	21.7/25	25/25	71.5/81.5	80/90
HKSC19C*#*	34.7/40	49.8/57	50/60	34.7/40	43.3/50	45/50	93.2/106.5	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 - 48TAVJUD models.

8.3 Outdoor Unit

RZR18 - 48TAVJUA
RZQ18 - 48TAVJUA

Model		Units				Power supply		Comp.	OFM	
		Hz	Volts	Min.	Max.	MCA	MOP	RLA	KW	FLA
RZQ18TAVJUA	H/P	60	208/230	187	253	16.5	20	15.3	0.2	0.6
RZQ24TAVJUA										
RZR18TAVJUA	C/O									
RZR24TAVJUA										
RZQ30TAVJUA	H/P	60	208/230	187	253	29.1	35	19.0	0.070 + 0.070	0.3 + 0.3
RZQ36TAVJUA										
RZQ42TAVJUA										
RZQ48TAVJUA										
RZR30TAVJUA	C/O									
RZR36TAVJUA										
RZR42TAVJUA										
RZR48TAVJUA										

Symbol:
MCA: Minimum Circuit Ampacity (A)
MOP: Maximum Overcurrent Protective Device (See note 7). (A)
RLA: Rated Load Ampere. (A)
OFM: Outdoor Fan Motor. (A)
FLA: Full Load Ampere. (A)
KW: Fan Motor Rated Output. (kW)

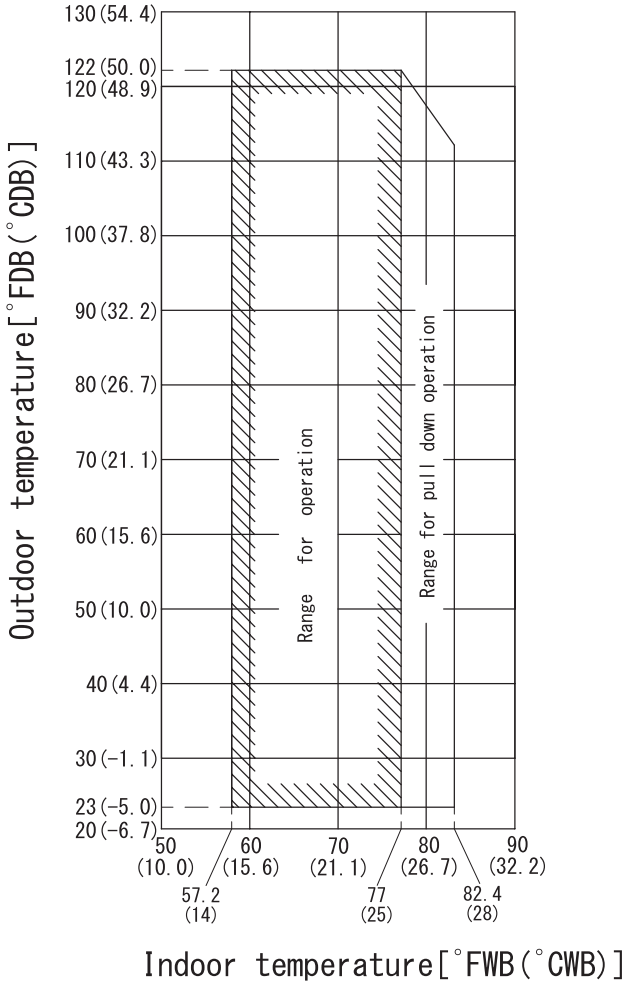
Note:
1. RLA is based on the following conditions.
   Power supply: 60 Hz 208/230 V
   Cooling
   Indoor temp. 80.0°FDB (26.7°CDB) / 67.0°FWB (19.4°CWB)
   Outdoor temp. 95.0°FDB (35.0°CDB)
   Heating
   Indoor temp. 70.0°FDB (21.1°CDB)
   Outdoor temp. 47.0°FDB (8.3°CDB) / 43.0°FWB (6.1°CWB)
2. Voltage range
   Units are suitable for use on electrical systems where voltage supplied to unit terminal is not below or above listed range limits.
3. Maximum allowable voltage variation between phases is 2%.
4. MCA represents maximum input current.
5. MOP represents capacity which may accept MCA.
6. Select wire size based on the value of MCA.
7. MOP is used to select a fuse, circuit breaker, or ground fault circuit interrupter.

C: 3D126377

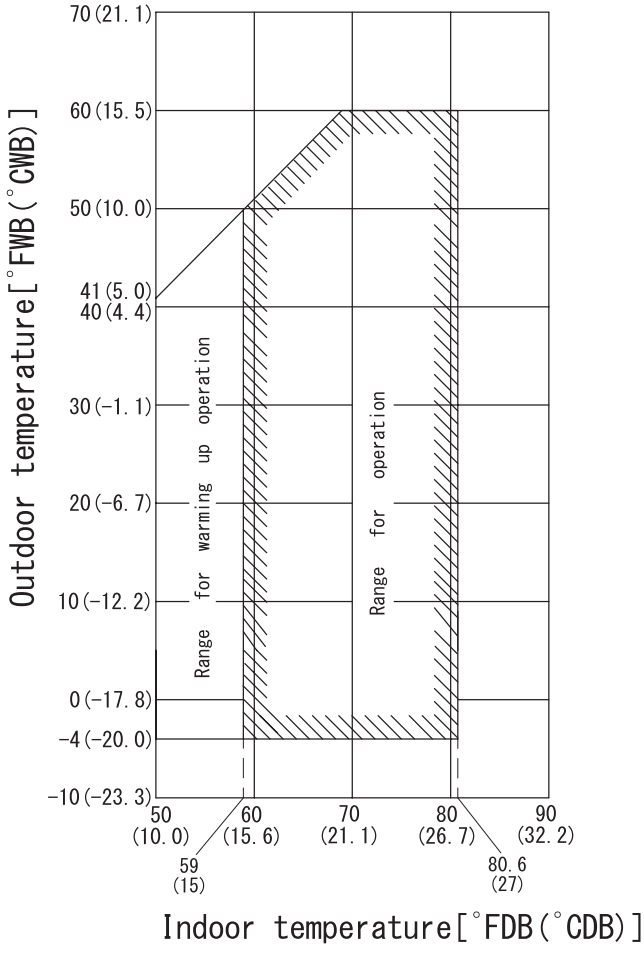
9. Operation Limits

RZR18 - 48TAVJUA
RZQ18 - 48TAVJUA

Cooling



Heating



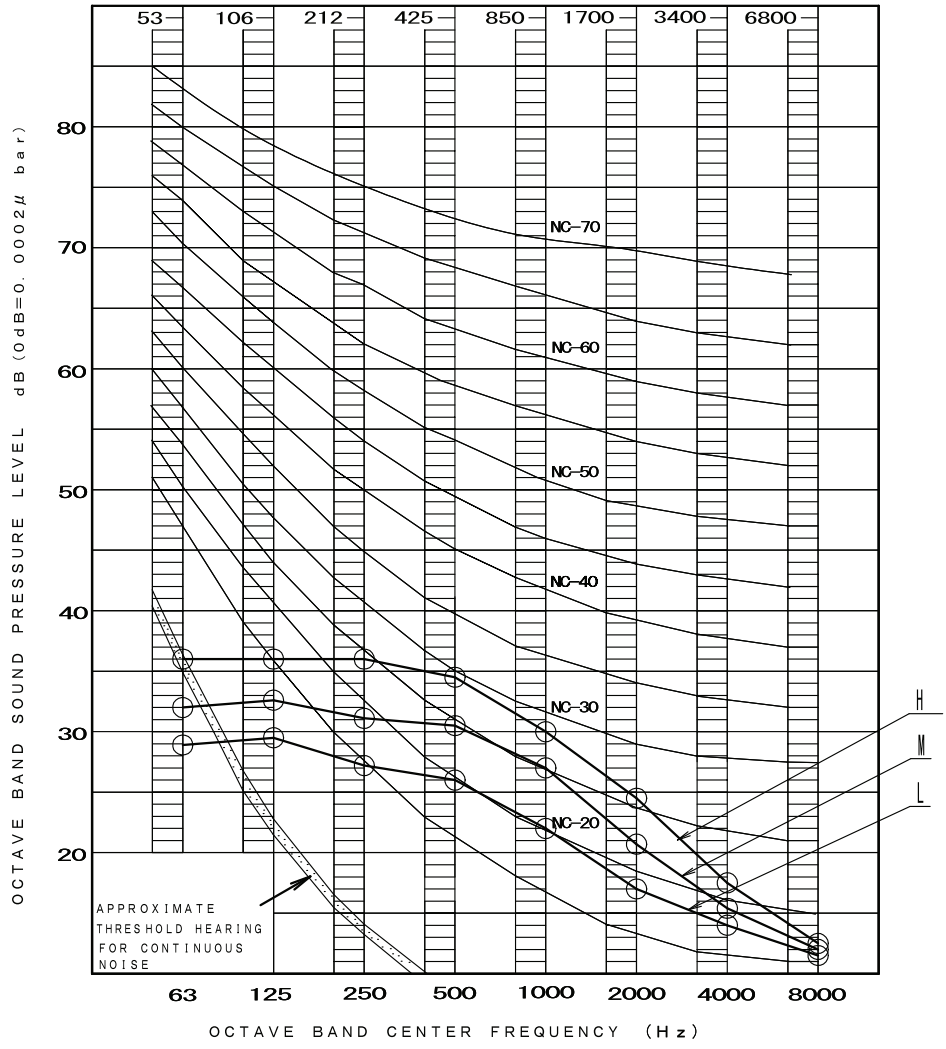
3D115457

10.Sound Levels (Reference Data)

10.1 Indoor Unit

10.1.1 FCQ

FCQ18TAVJU



OVER ALL (dB)

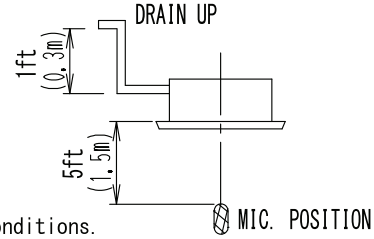
SCALE	H	M	L
A	35.5	32.0	28.0

(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



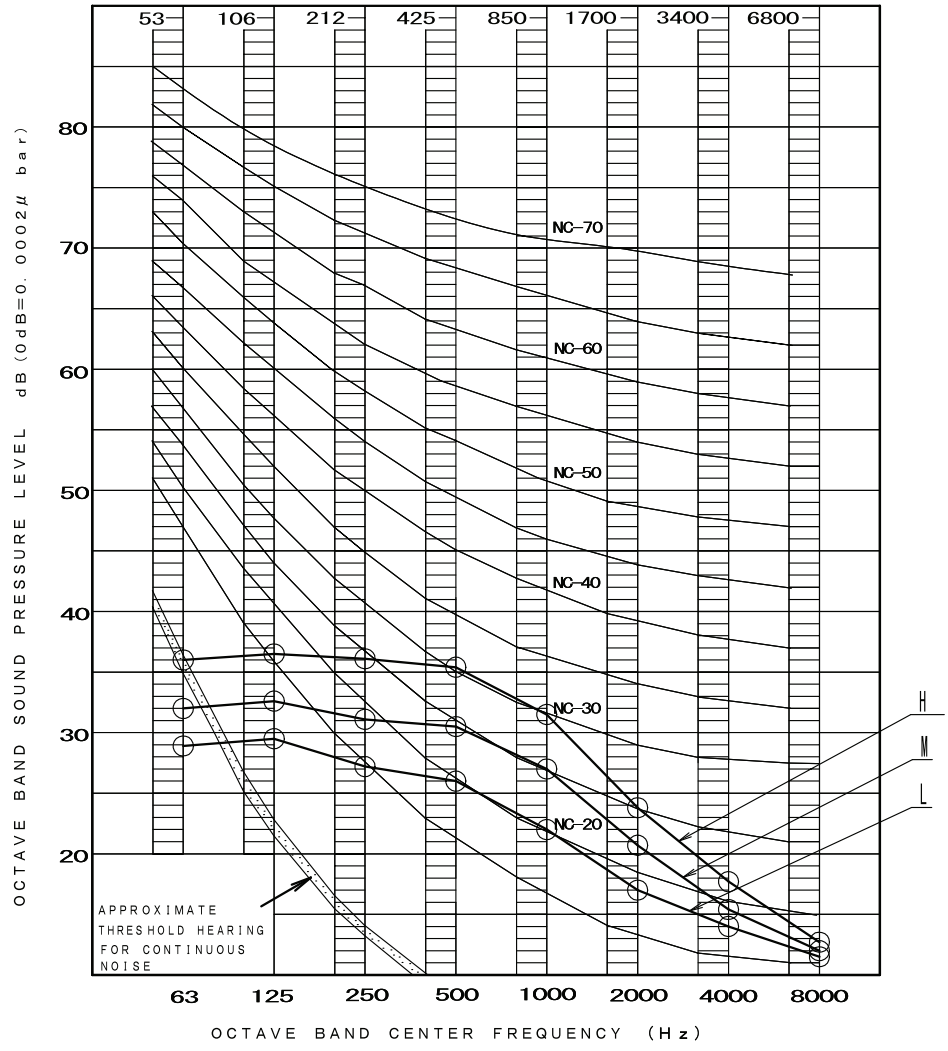
MEASURING PLACE

ANECHOIC CHAMBER

NOTE:Operation noise differs with operation and ambient conditions.

4D087483B

FCQ24TAVJU



OVER ALL (dB)

SCALE	H	M	L
A	36.0	32.0	28.0

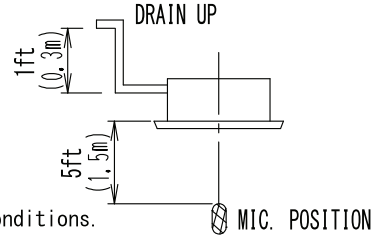
(B.G.N IS ALREADY RECTIFIED)

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



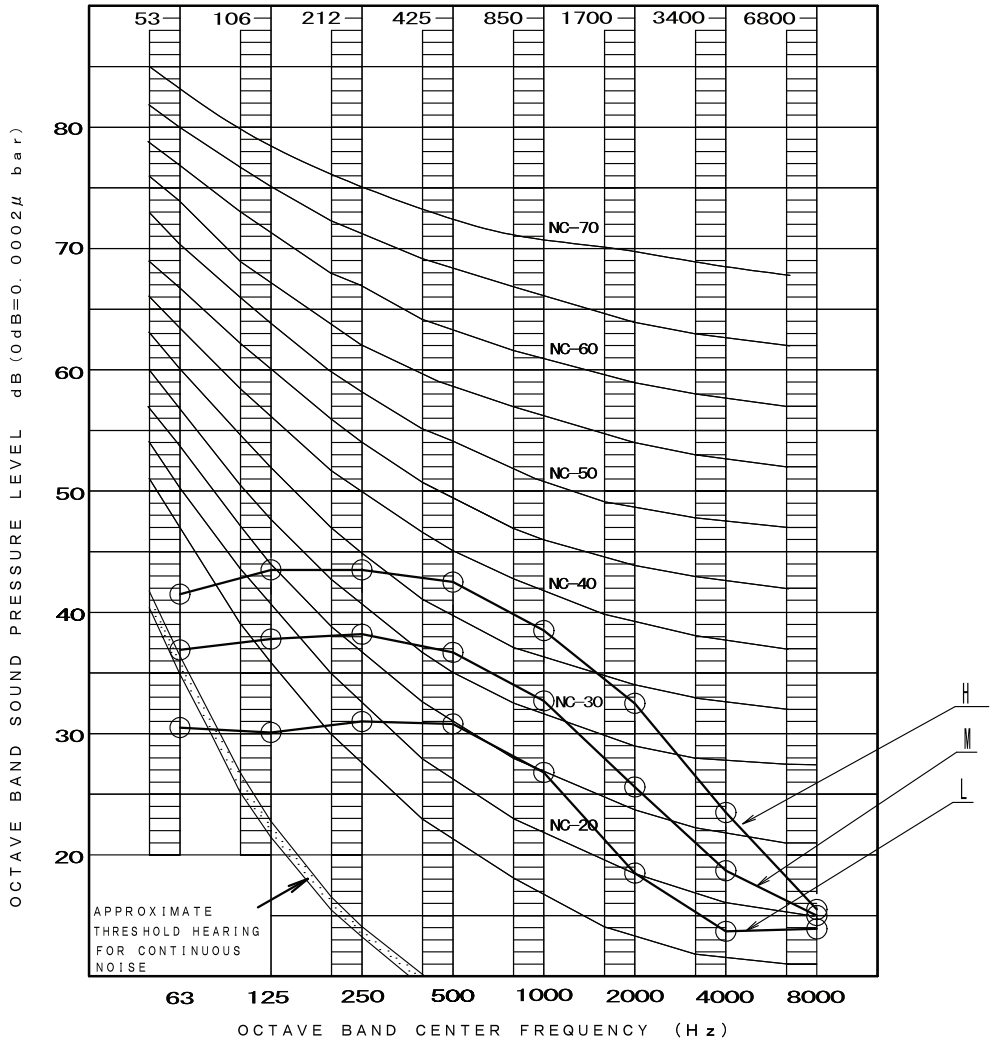
MEASURING PLACE

ANECHOIC CHAMBER

NOTE:Operation noise differs with operation and ambient conditions.

4D087474B

FCQ30TAVJU



OVER ALL (dB)

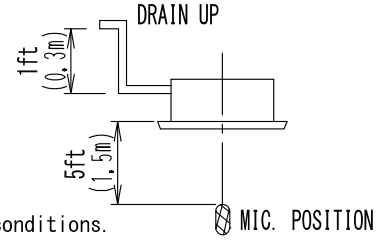
SCALE	H	M	L
A	43.5	38.0	32.0

(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



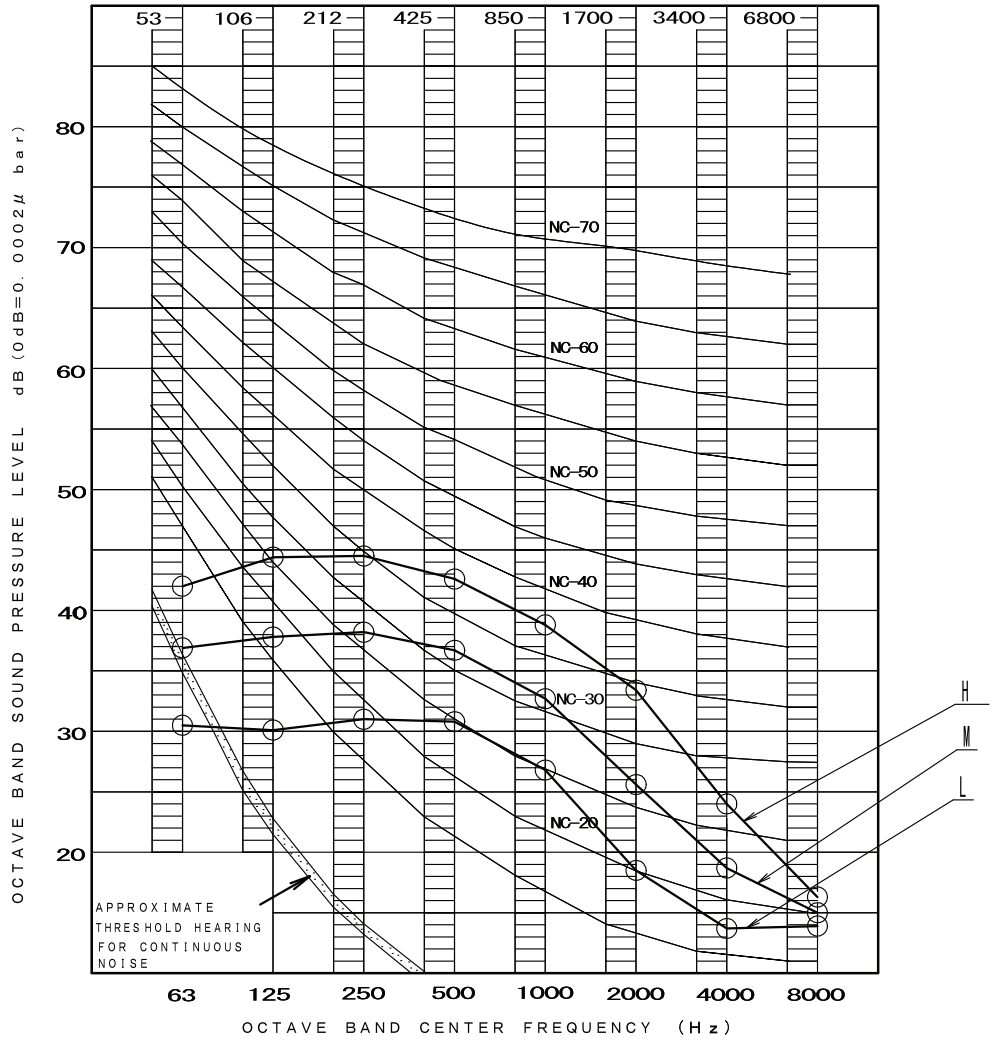
MEASURING PLACE

ANECHOIC CHAMBER

NOTE:Operation noise differs with operation and ambient conditions.

4D087479B

FCQ36TAVJU



OVER ALL (dB)

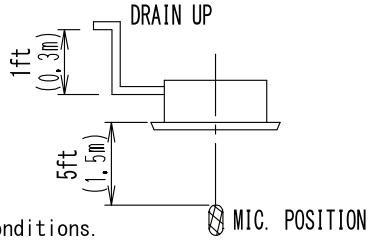
SCALE	H	M	L
A	44.0	38.0	32.0

(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



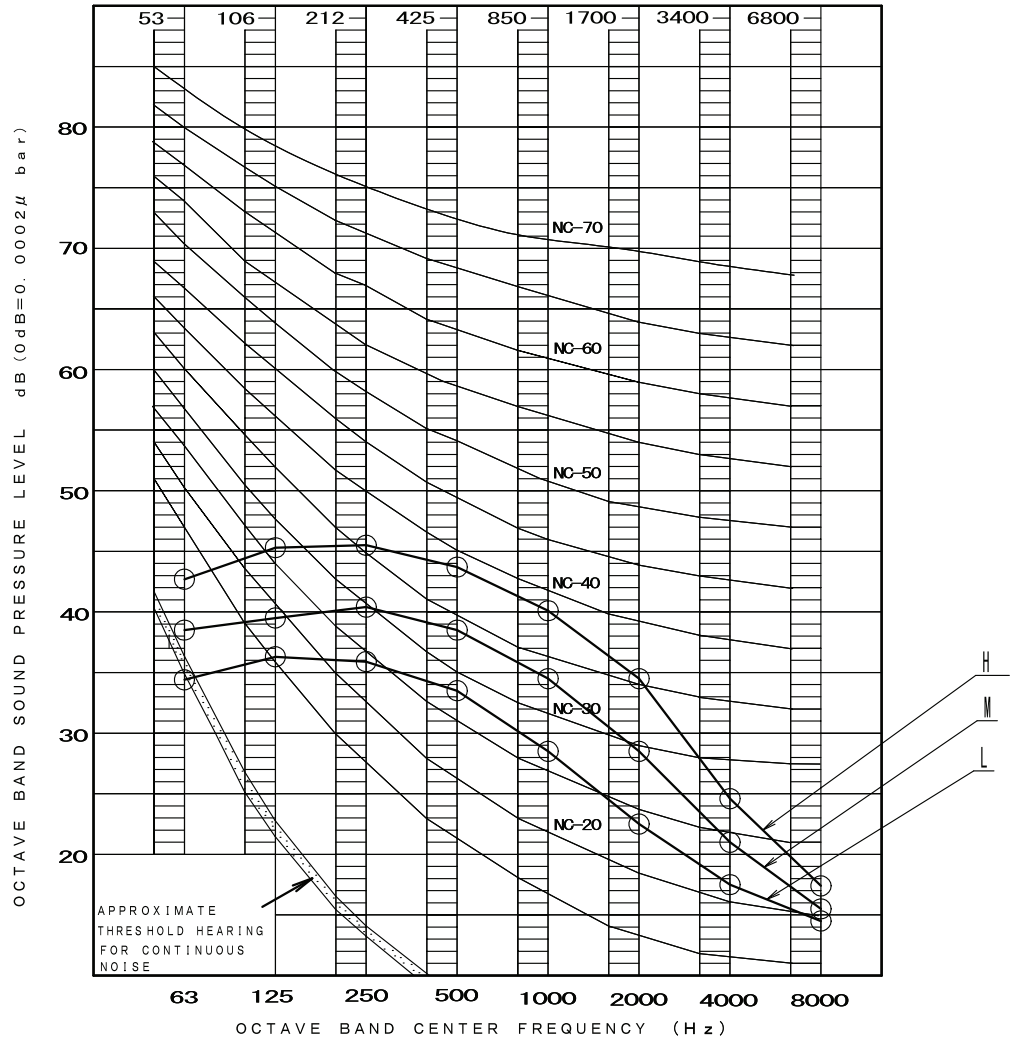
MEASURING PLACE

ANECHOIC CHAMBER

NOTE:Operation noise differs with operation and ambient conditions.

4D087475B

FCQ42 - 48TAVJU



OVER ALL (dB)

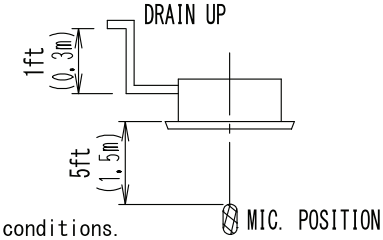
SCALE	H	M	L
A	45.0	40.0	35.0

(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



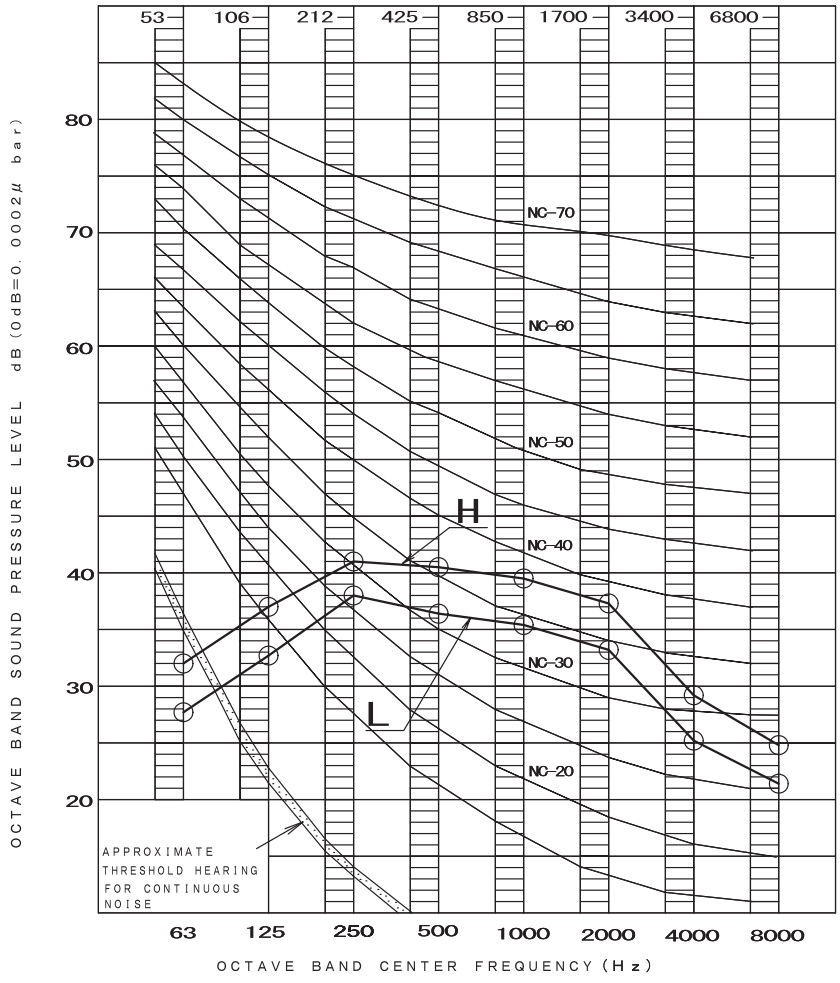
MEASURING PLACE

ANECHOIC CHAMBER

NOTE:Operation noise differs with operation and ambient conditions.

4D087476B

10.1.2 FHQ
FHQ18 - 30PVJU



OVER ALL (dB)

SCALE	AIR FLOW RATE	
	H	L
A	45	41

(B.G.N IS ALREADY RECTIFIED)

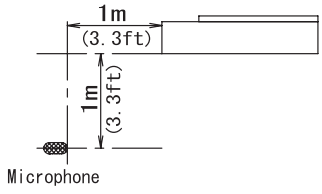
OPERATING CONDITIONS

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

MEASURING PLACE

ANECHOIC CHAMBER

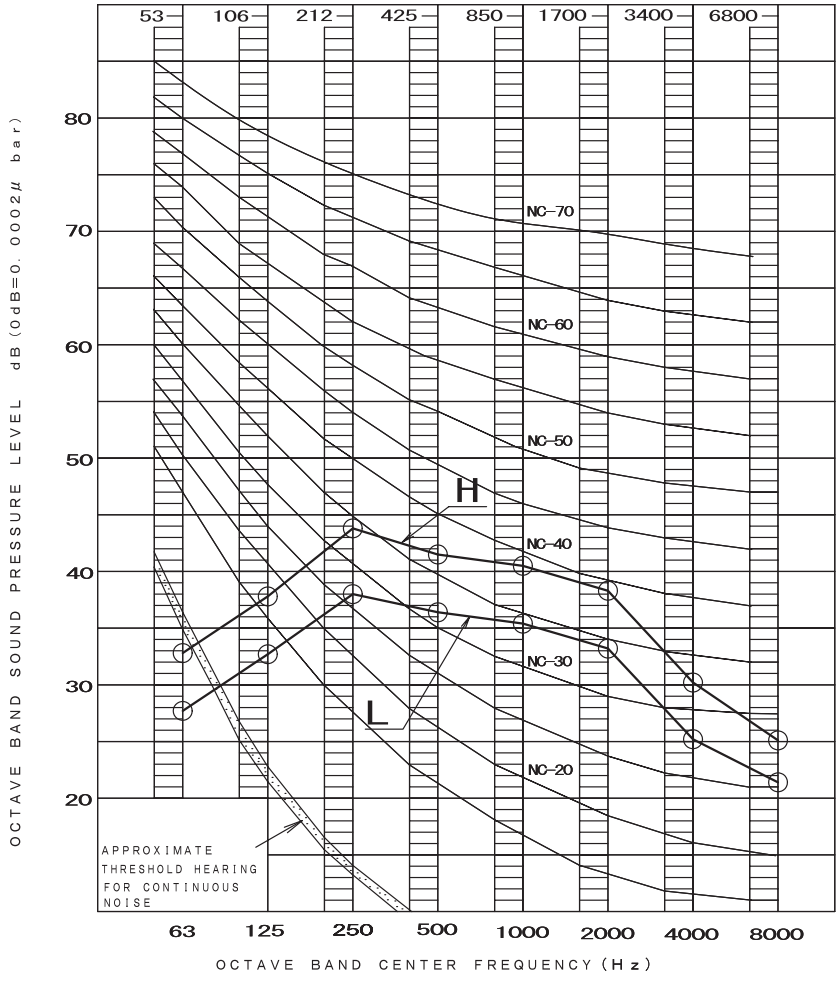
LOCATION OF MICROPHONE



NOTE: Operation noise differs with operation and ambient conditions.

4D124104

FHQ36MVJU



OVER ALL (dB)

SCALE	AIR FLOW RATE	
	H	L
A	46	41

(B.G.N IS ALREADY RECTIFIED)

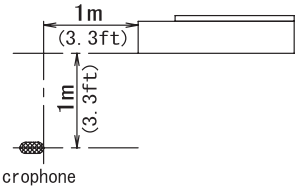
OPERATING CONDITIONS

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

MEASURING PLACE

ANECHOIC CHAMBER

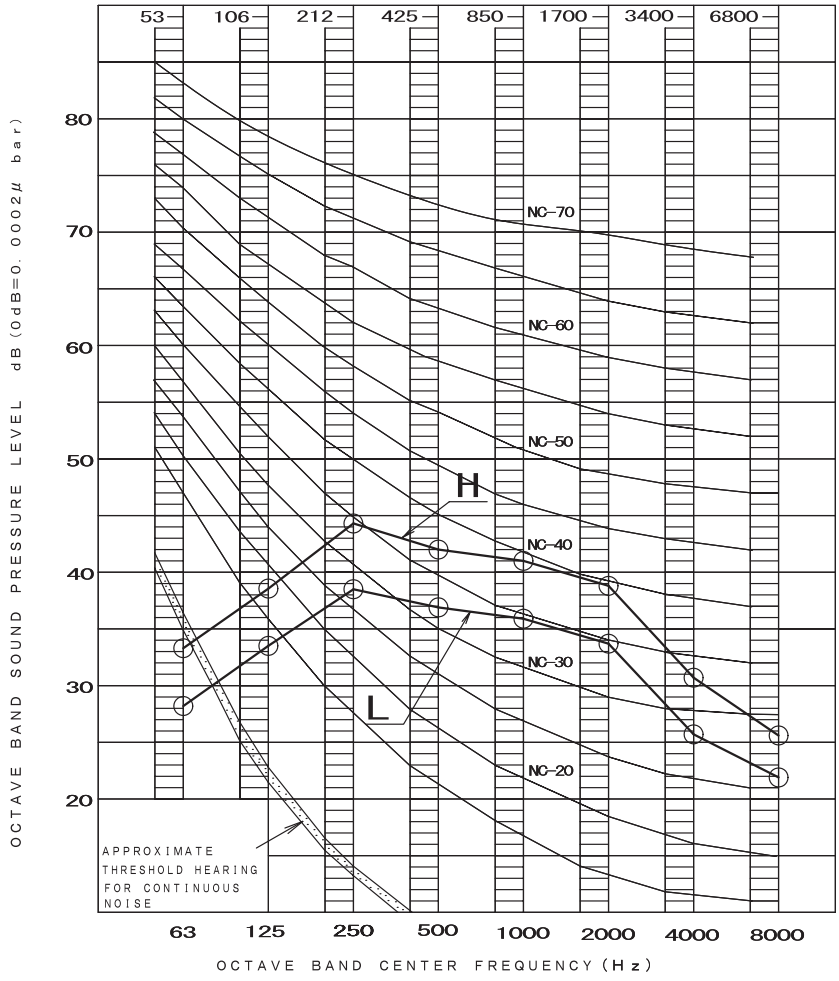
LOCATION OF MICROPHONE



NOTE: Operation noise differs with operation and ambient conditions.

4D124105

FHQ42MVJU



OVER ALL (dB)

SCALE	AIR FLOW RATE	
	H	L
A	47	42

(B.G.N IS ALREADY RECTIFIED)

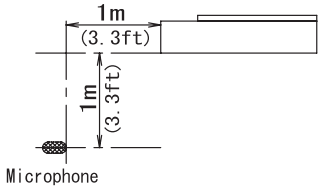
OPERATING CONDITIONS

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

MEASURING PLACE

ANECHOIC CHAMBER

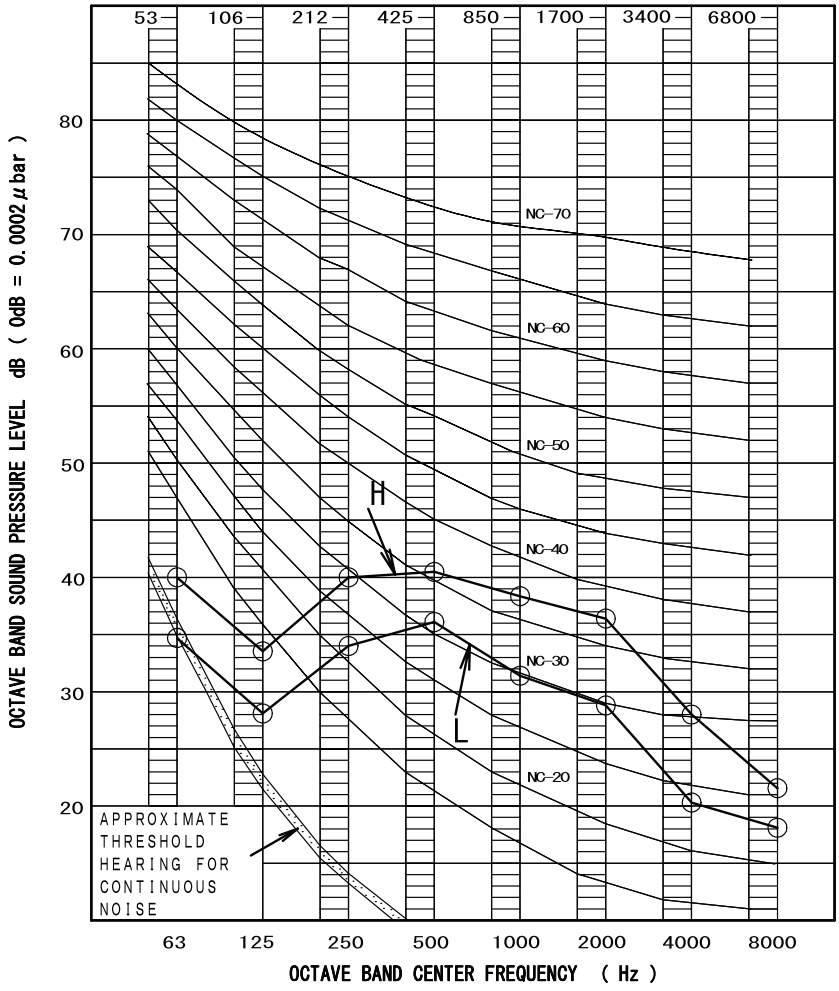
LOCATION OF MICROPHONE



NOTE: Operation noise differs with operation and ambient conditions.

4D124106

10.1.3 FAQ
FAQ18TAVJU



OVER ALL (dB)

SCALE	MODE	
	H	L
A	43.0	37.0

(B.G.N IS ALREADY RECTIFIED)

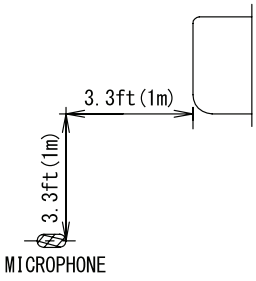
MEASURING PLACE
MEASURE IN ANECHOIC ROOM

OPERATING CONDITIONS

POWER SOURCE 208/230V, 60Hz

STANDARD CONDITION (JIS)

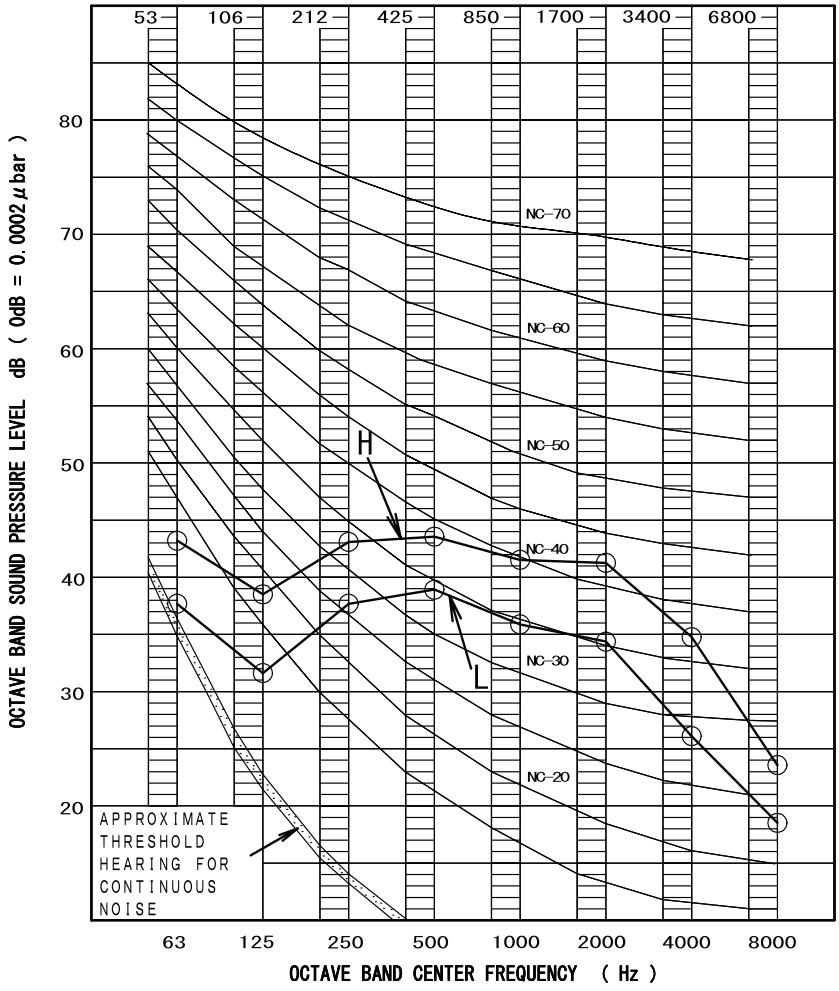
LOCATION OF MICROPHONE



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

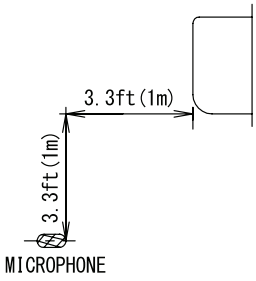
MEASURE IN ANECHOIC ROOM

OPERATING CONDITIONS

POWER SOURCE 208/230V, 60Hz

STANDARD CONDITION (JIS)

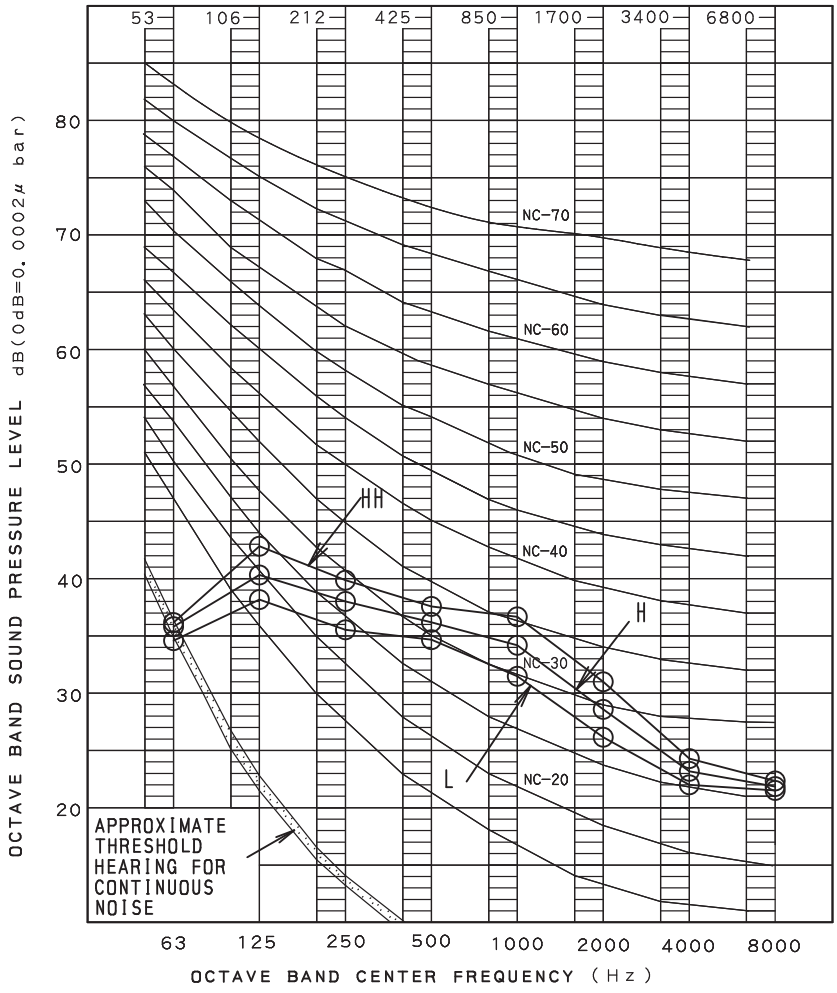
LOCATION OF MICROPHONE



NOTE: Operation noise differs with operation and ambient conditions.

4D075584A

10.1.4 FBQ
FBQ18PVJU



OVER ALL (dB)

SCALE	AIR FLOW RATE		
	HH	H	L
A	41.0	39.0	37.0

(B.G.N IS ALREADY RECTIFIED)

OPERATING CONDITIONS

POWER SOURCE 208/230V, 60Hz

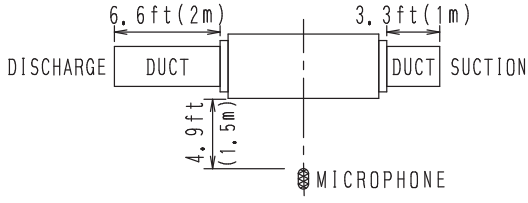
STANDARD CONDITION (JIS)

EXTERNAL STATIC PRESSURE 0.4inH2O(100Pa)

MEASURING PLACE

MEASURE IN ANECHOIC ROOM

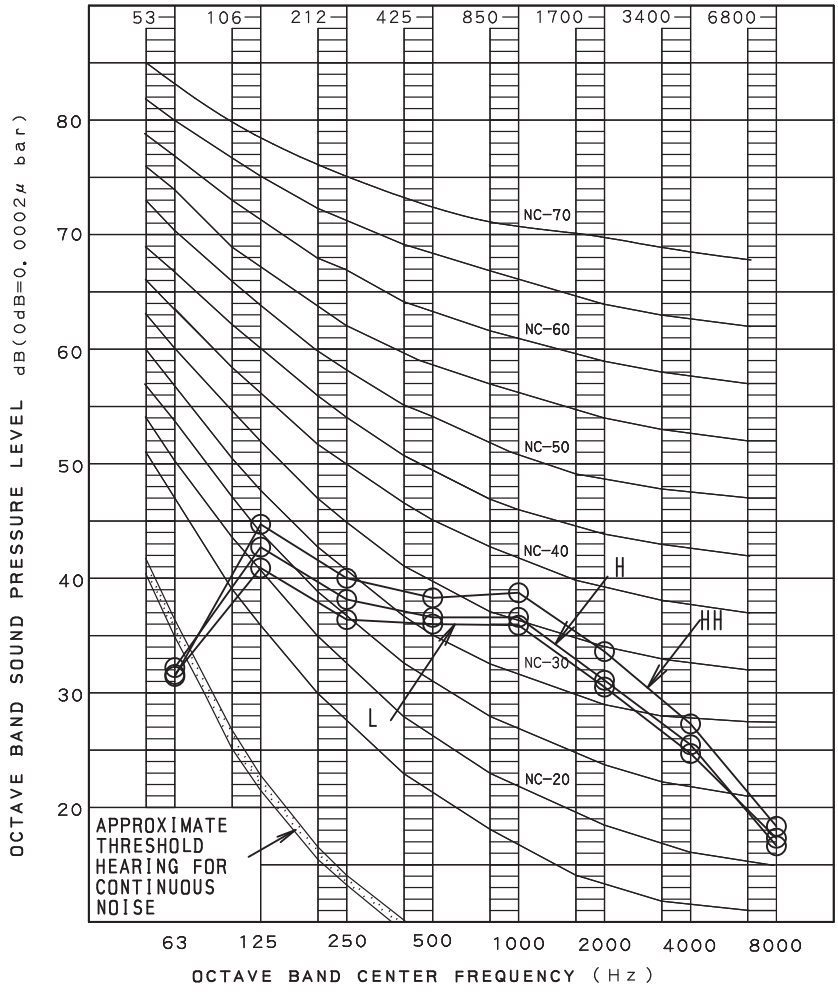
LOCATION OF MICROPHONE



NOTE: Operation noise differs with operation and ambient conditions.

4D075278

FBQ24PVJU



OVER ALL (dB)

SCALE	AIR FLOW RATE		
	HH	H	L
A	42.0	40.0	38.0

(B.G.N IS ALREADY RECTIFIED)

OPERATING CONDITIONS

POWER SOURCE 208/230V, 60Hz

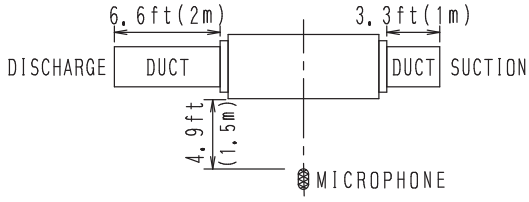
STANDARD CONDITION (JIS)

EXTERNAL STATIC PRESSURE 0.4inH2O(100Pa)

MEASURING PLACE

MEASURE IN ANECHOIC ROOM

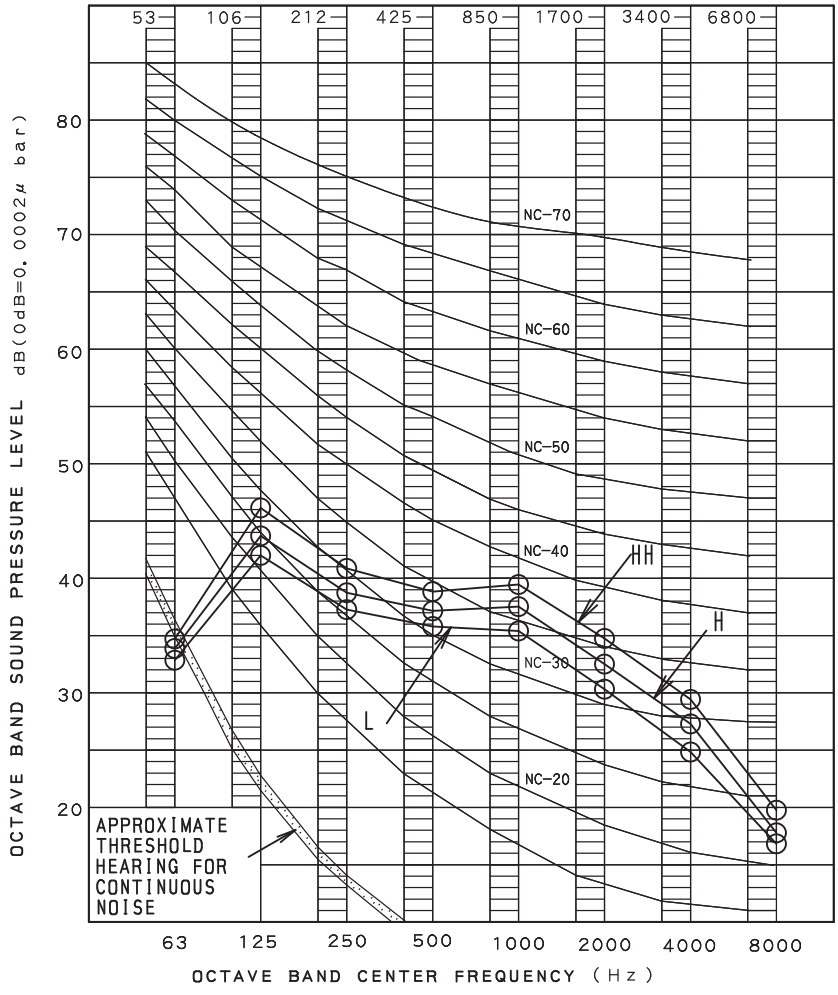
LOCATION OF MICROPHONE



NOTE: Operation noise differs with operation and ambient conditions.

4D075279

FBQ30PVJU



OVER ALL (dB)

SCALE	AIR FLOW RATE		
	HH	H	L
A	43.0	41.0	39.0

(B.G.N IS ALREADY RECTIFIED)

MEASURING PLACE

MEASURE IN ANECHOIC ROOM

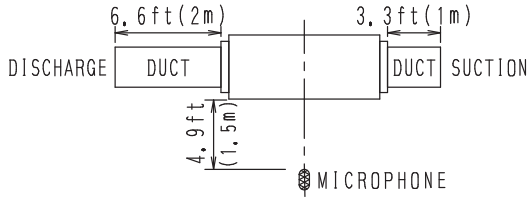
OPERATING CONDITIONS

POWER SOURCE 208/230V, 60Hz

STANDARD CONDITION (JIS)

EXTERNAL STATIC PRESSURE 0.4inH2O(100Pa)

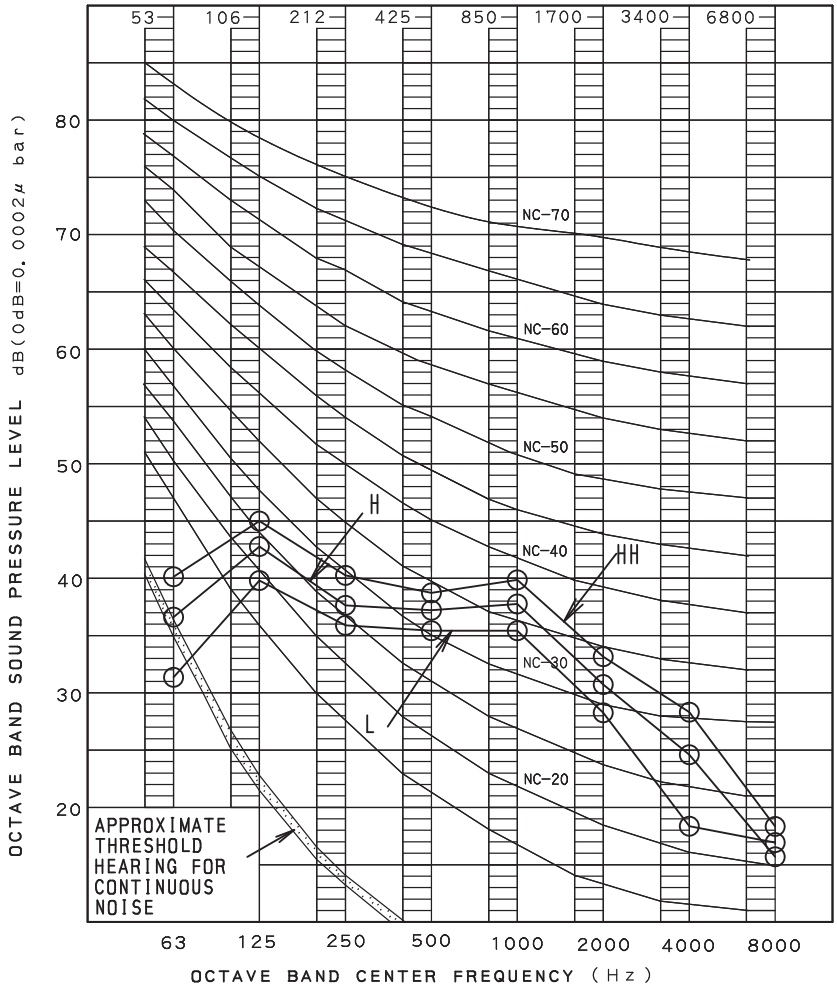
LOCATION OF MICROPHONE



NOTE: Operation noise differs with operation and ambient conditions.

4D075280

FBQ36PVJU



OVER ALL (dB)

SCALE	AIR FLOW RATE		
	HH	H	L
A	43.0	41.0	39.0

(B.G.N IS ALREADY RECTIFIED)

MEASURING PLACE

MEASURE IN ANECHOIC ROOM

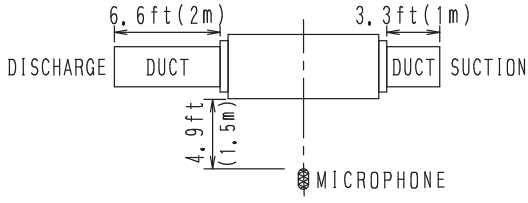
OPERATING CONDITIONS

POWER SOURCE 208/230V, 60Hz

STANDARD CONDITION (JIS)

EXTERNAL STATIC PRESSURE 0.4inH2O(100Pa)

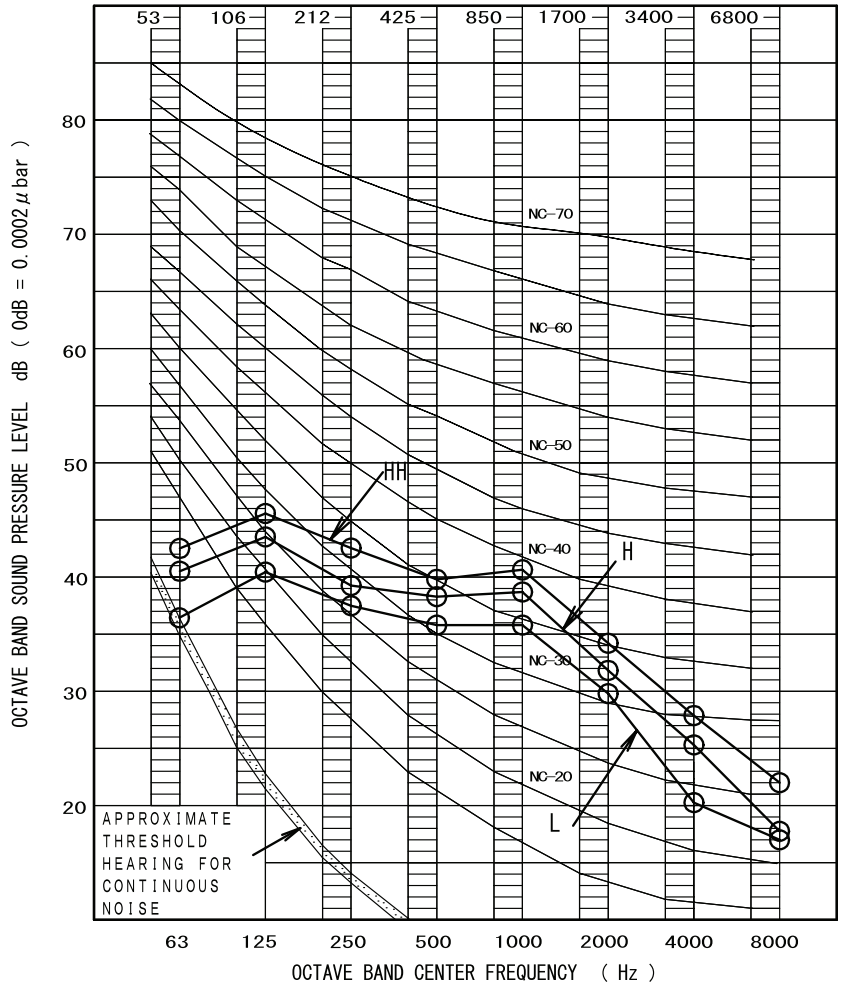
LOCATION OF MICROPHONE



NOTE: Operation noise differs with operation and ambient conditions.

4D075281

FBQ42 - 48PVJU



OVER ALL (dB)

SCALE	AIR FLOW RATE		
	HH	H	L
A	44.0	42.0	40.0

(B.G.N IS ALREADY RECTIFIED)

OPERATING CONDITIONS

POWER SOURCE 208/230V, 60Hz

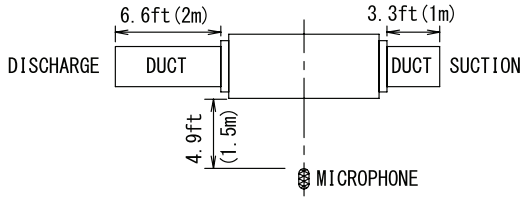
STANDARD CONDITION (JIS)

EXTERNAL STATIC PRESSURE 0.4inH2O(100Pa)

MEASURING PLACE

MEASURE IN ANECHOIC ROOM

LOCATION OF MICROPHONE



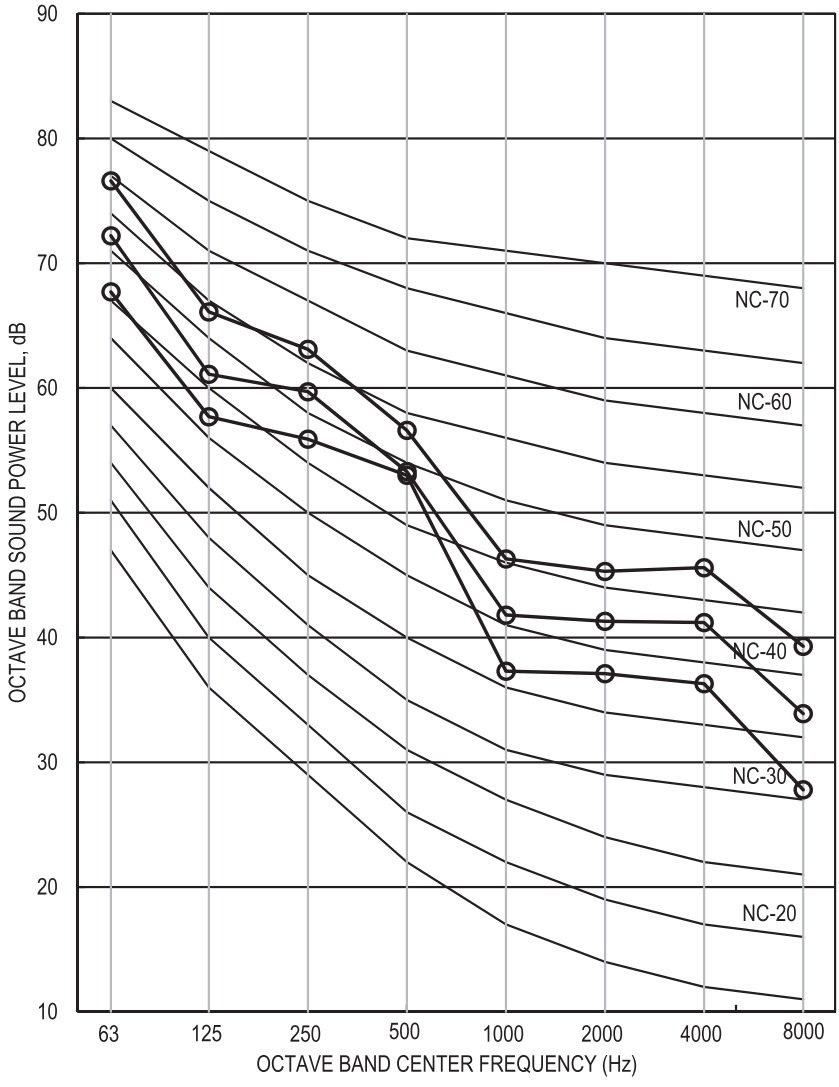
NOTE: Operation noise differs with operation and ambient conditions.

4D075282A

10.1.5 FTQ
FTQ18TAVJUD
FTQ18TAVJUA

Sound levels tested in accordance with AHRI 260.

Ducted Inlet



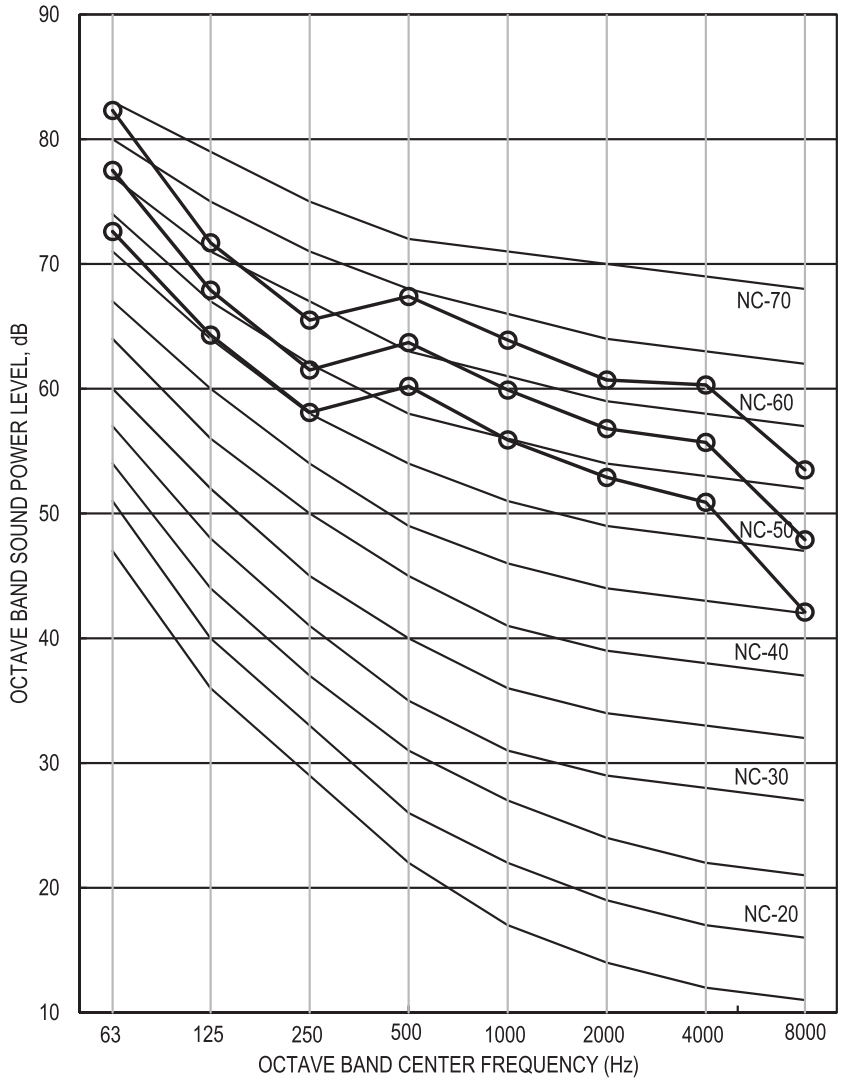
OVER ALL (dB)

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

FTQ18TAVJUD
FTQ18TAVJUA

Sound levels tested in accordance with AHRI 260.

Ducted Discharge



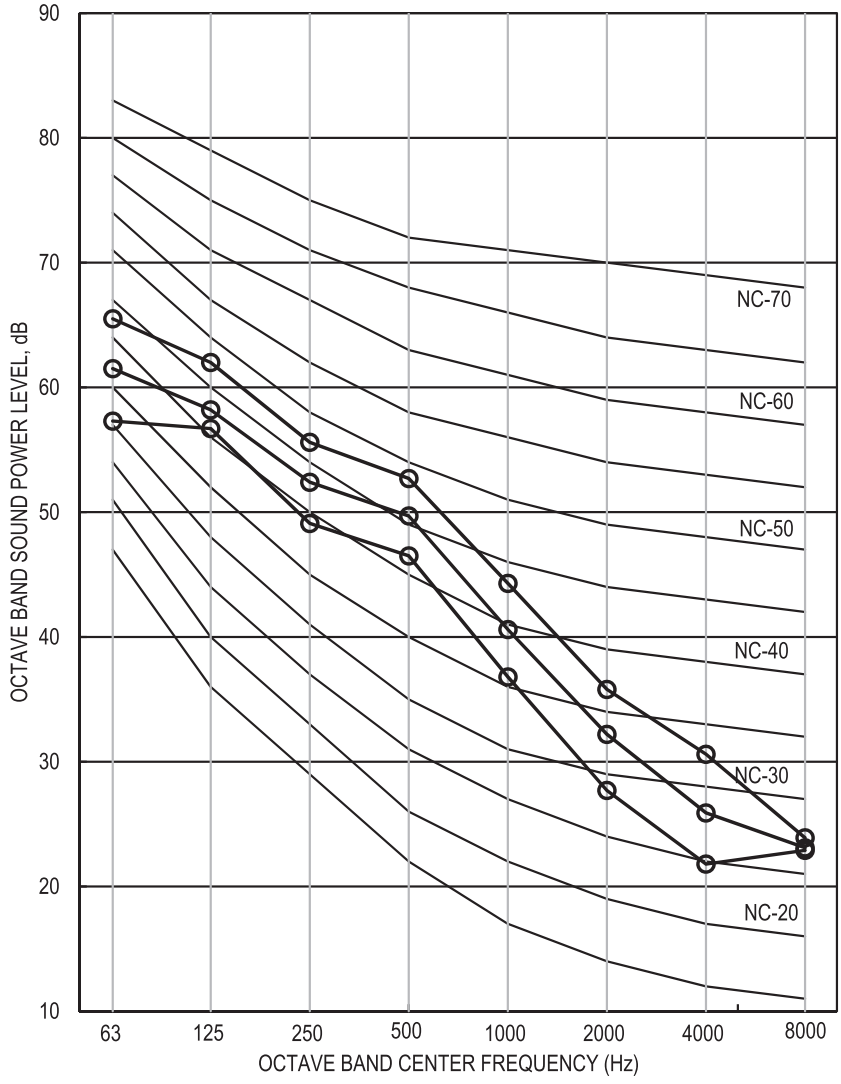
OVER ALL (dB)

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

FTQ18TAVJUD
FTQ18TAVJUA

Sound levels tested in accordance with AHRI 260.

Casing Radiated



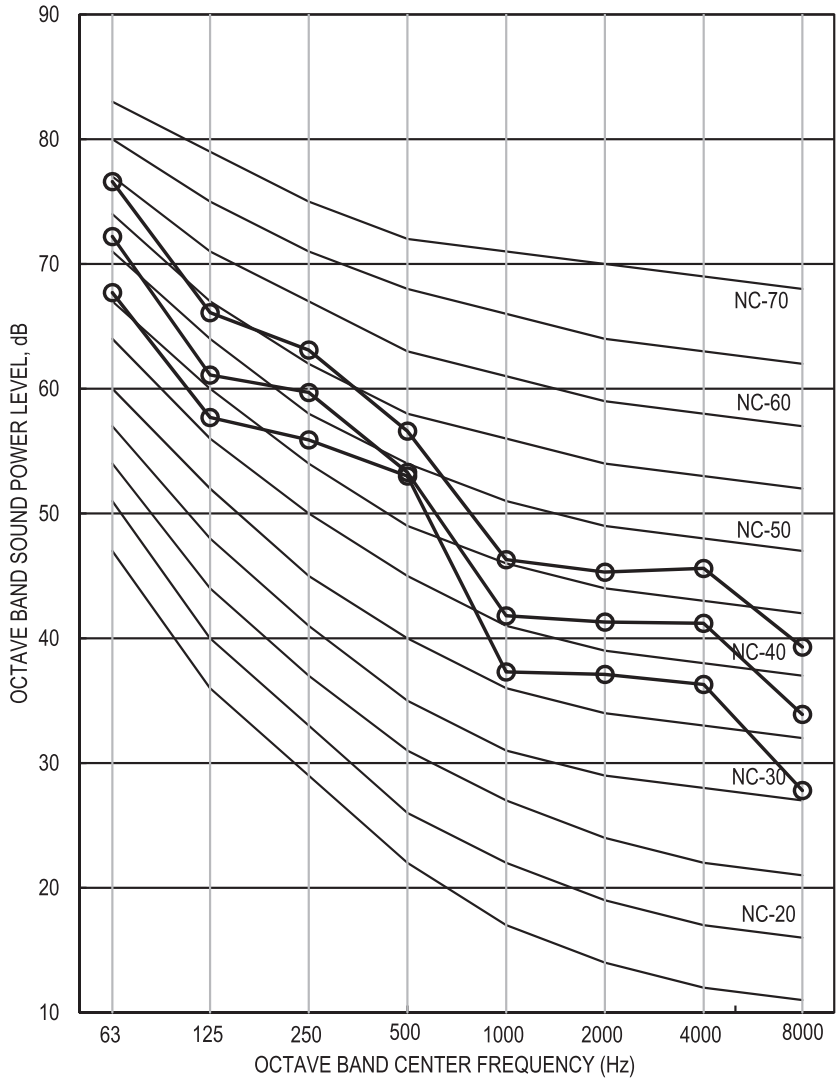
OVER ALL (dB)

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

FTQ24TAVJUD
FTQ24TAVJUA

Sound levels tested in accordance with AHRI 260.

Ducted Inlet



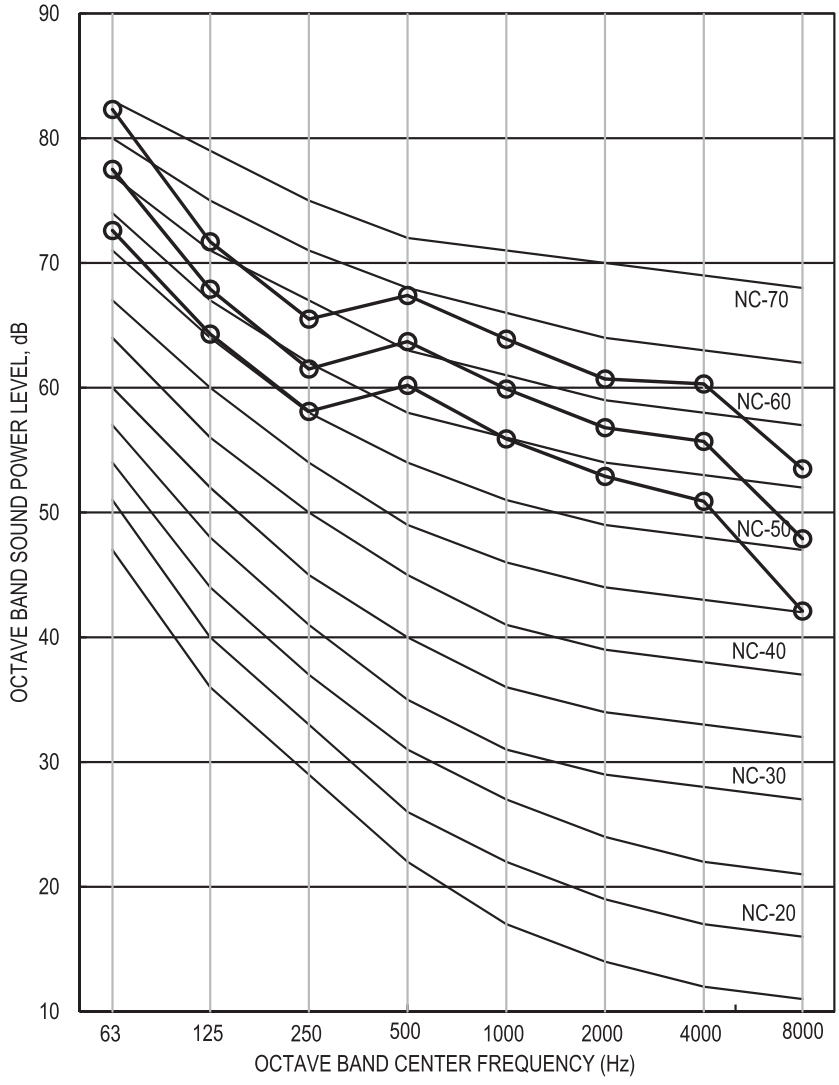
OVER ALL (dB)

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

FTQ24TAVJUD
FTQ24TAVJUA

Sound levels tested in accordance with AHRI 260.

Ducted Discharge



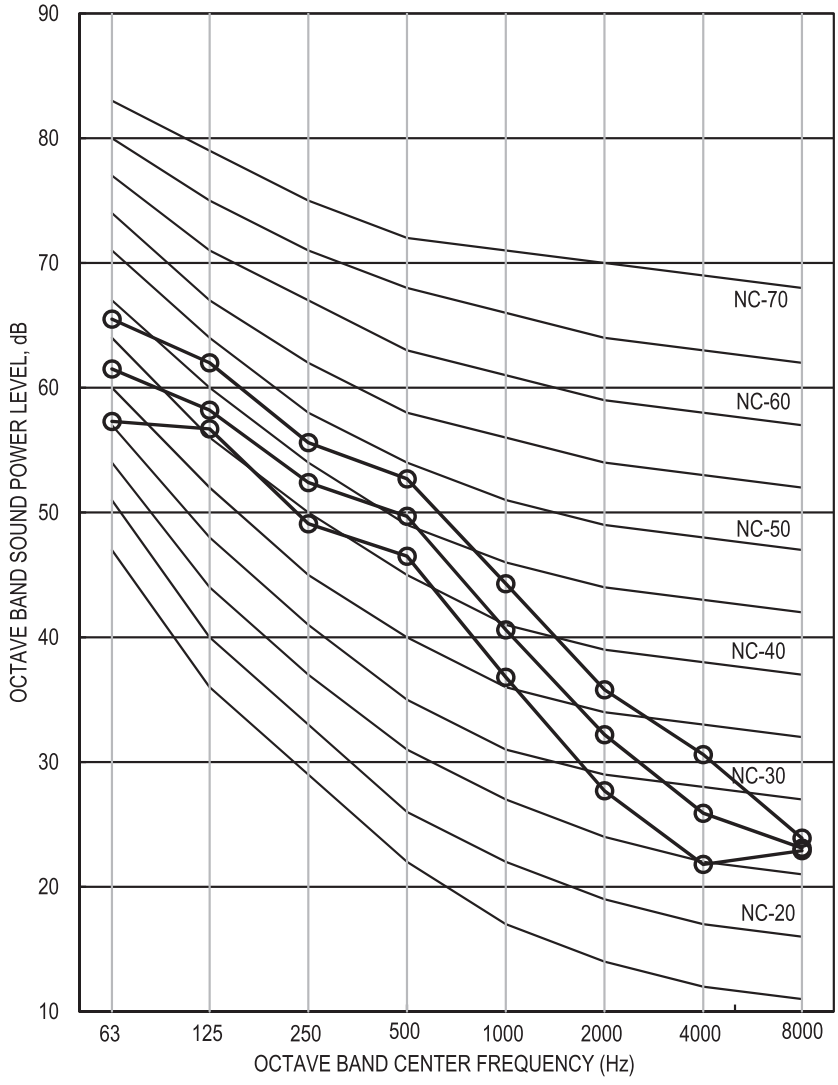
OVER ALL (dB)

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

FTQ24TAVJUD
FTQ24TAVJUA

Sound levels tested in accordance with AHRI 260.

Casing Radiated



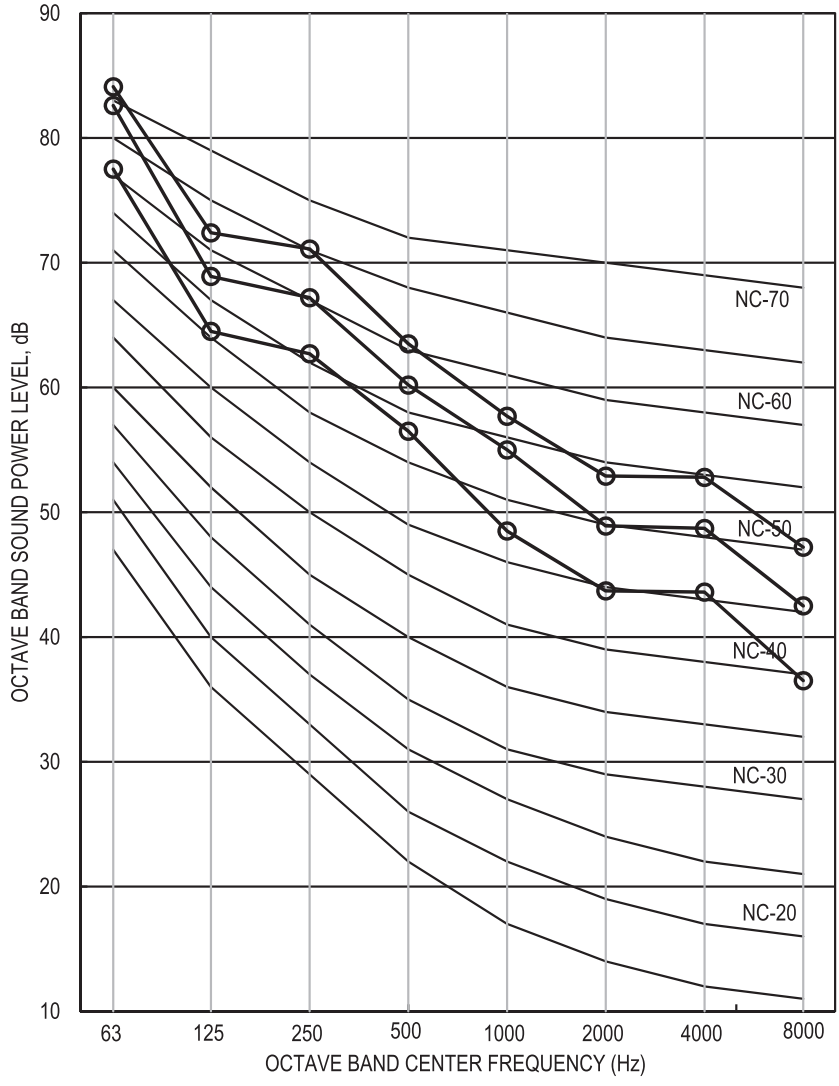
OVER ALL (dB)

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

FTQ30TAVJUD
FTQ30TAVJUA

Sound levels tested in accordance with AHRI 260.

Ducted Inlet



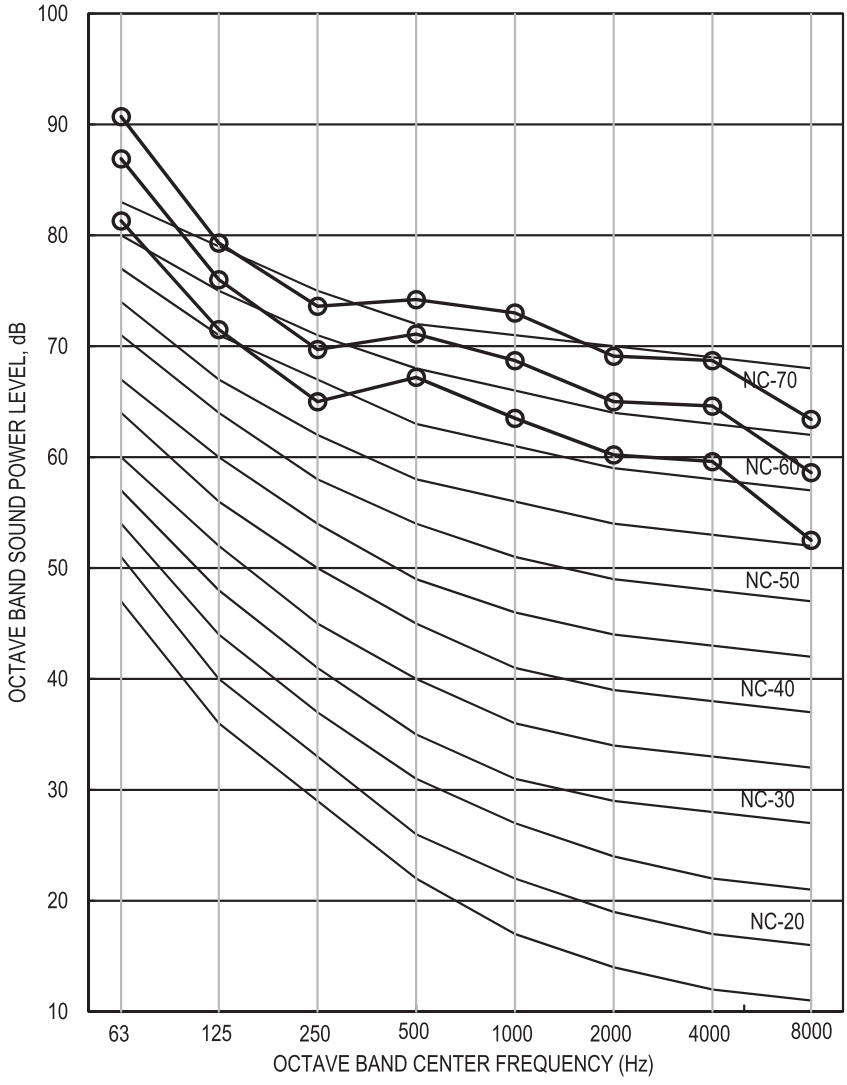
OVER ALL (dB)

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

FTQ30TAVJUD
FTQ30TAVJUA

Sound levels tested in accordance with AHRI 260.

Ducted Discharge



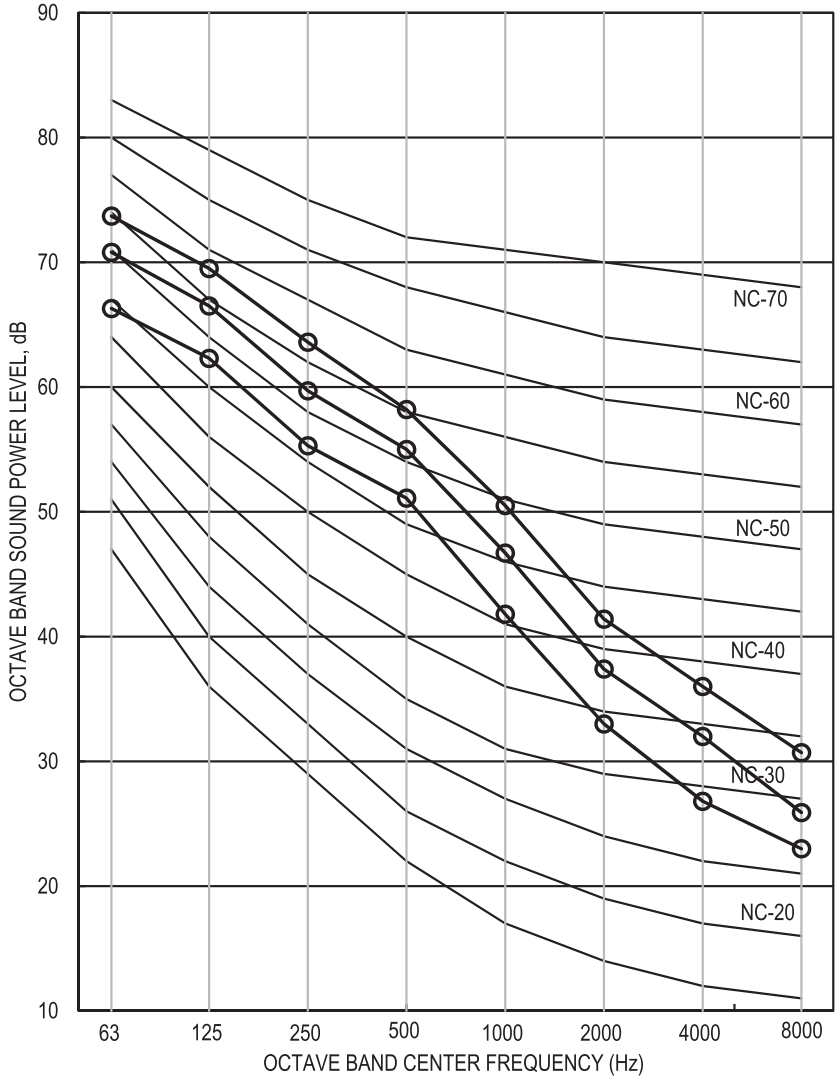
OVER ALL (dB)

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

FTQ30TAVJUD
FTQ30TAVJUA

Sound levels tested in accordance with AHRI 260.

Casing Radiated



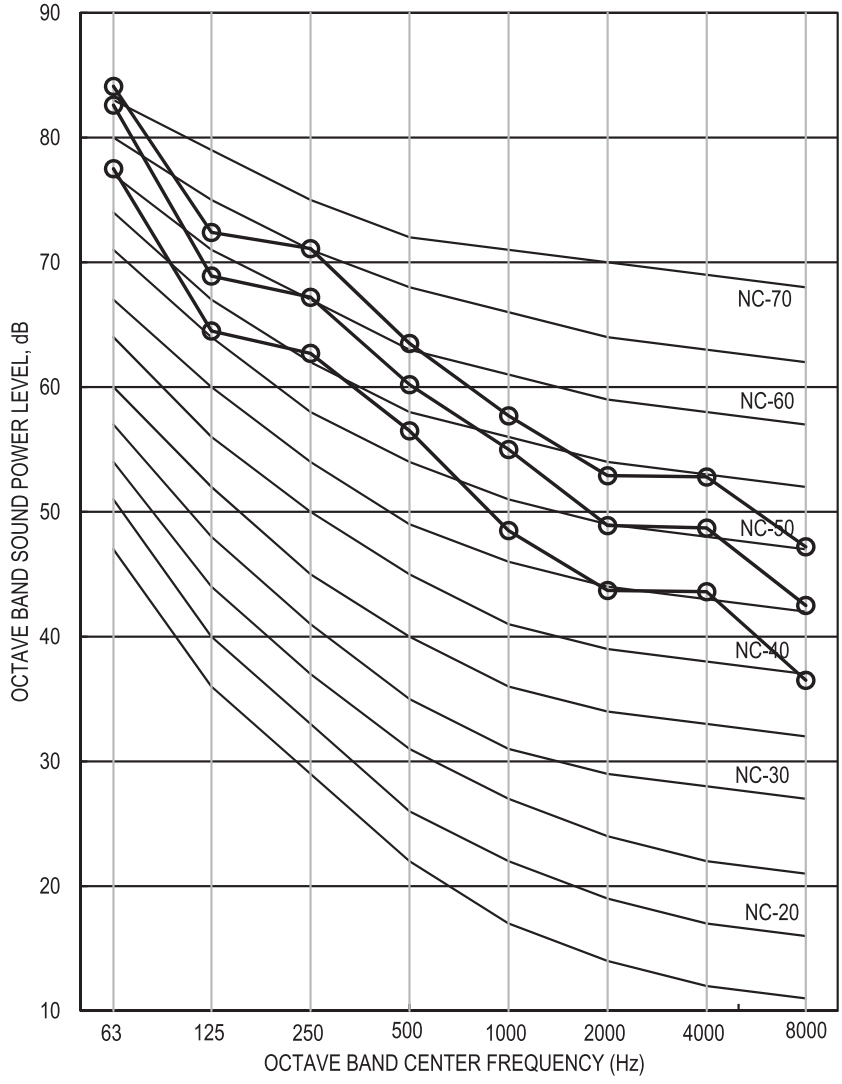
OVER ALL (dB)

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

FTQ36TAVJUD
FTQ36TAVJUA

Sound levels tested in accordance with AHRI 260.

Ducted Inlet



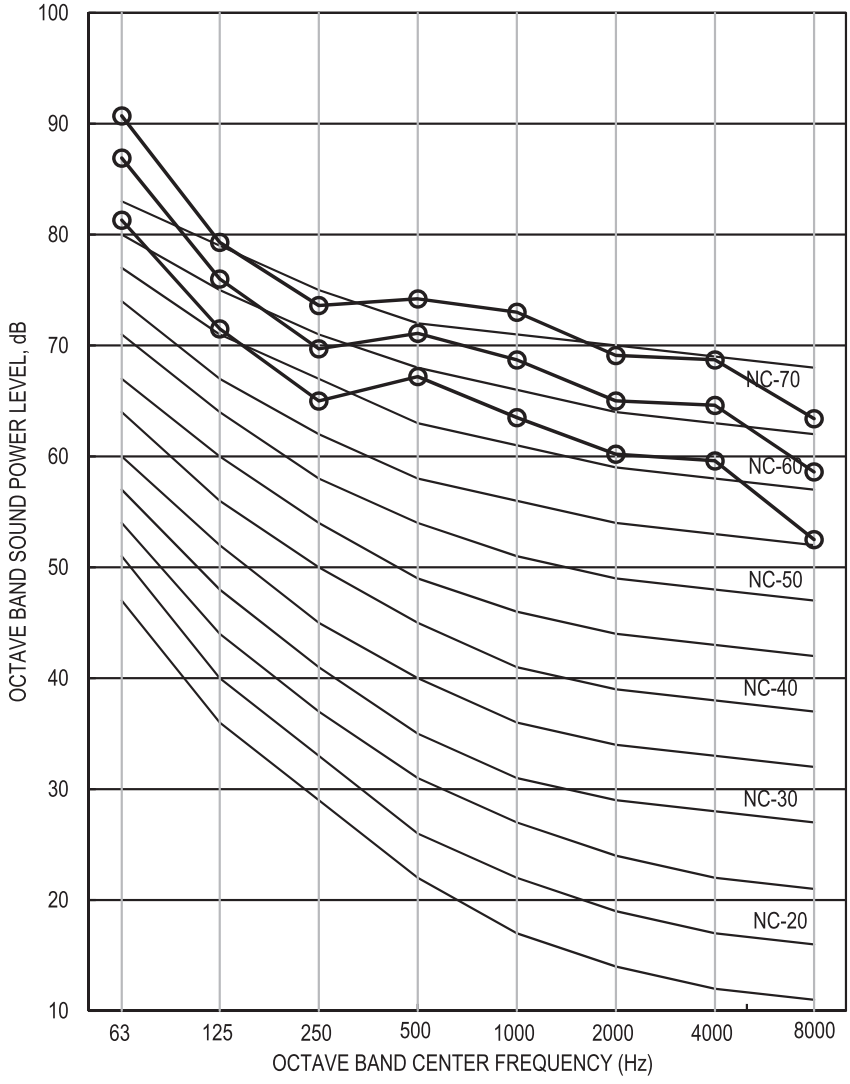
OVER ALL (dB)

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

FTQ36TAVJUD
FTQ36TAVJUA

Sound levels tested in accordance with AHRI 260.

Ducted Discharge



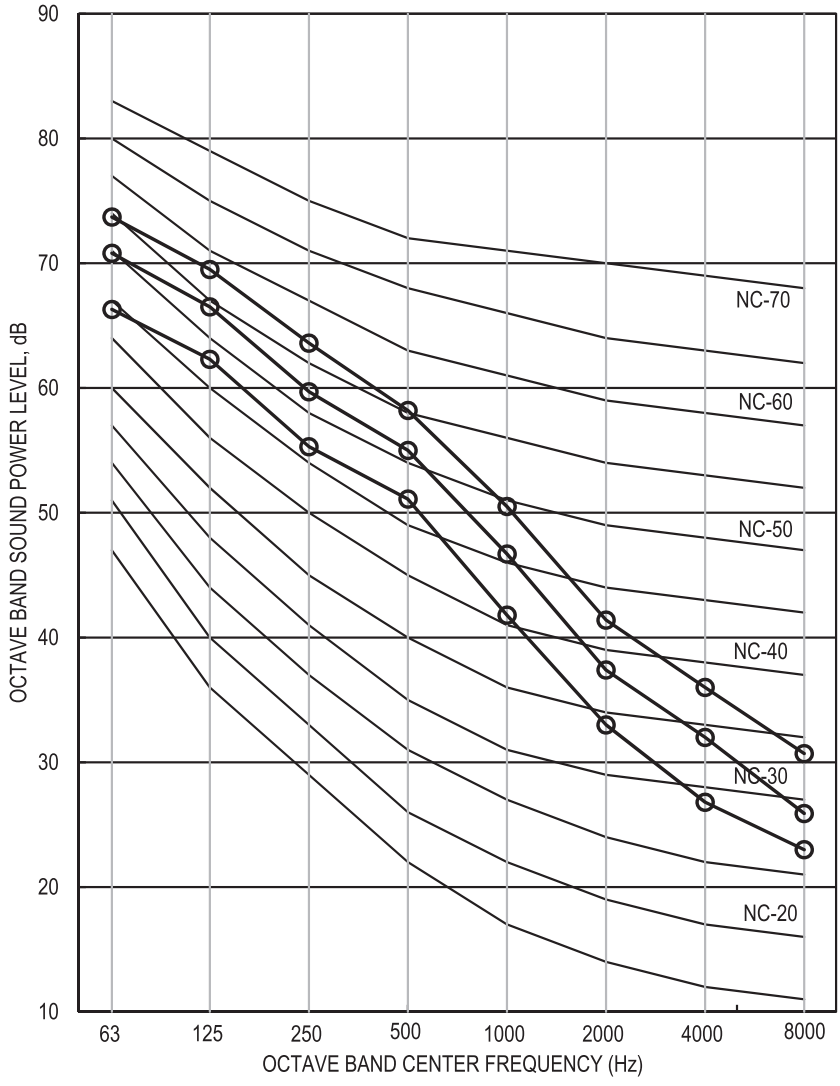
OVER ALL (dB)

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

FTQ36TAVJUD
FTQ36TAVJUA

Sound levels tested in accordance with AHRI 260.

Casing Radiated



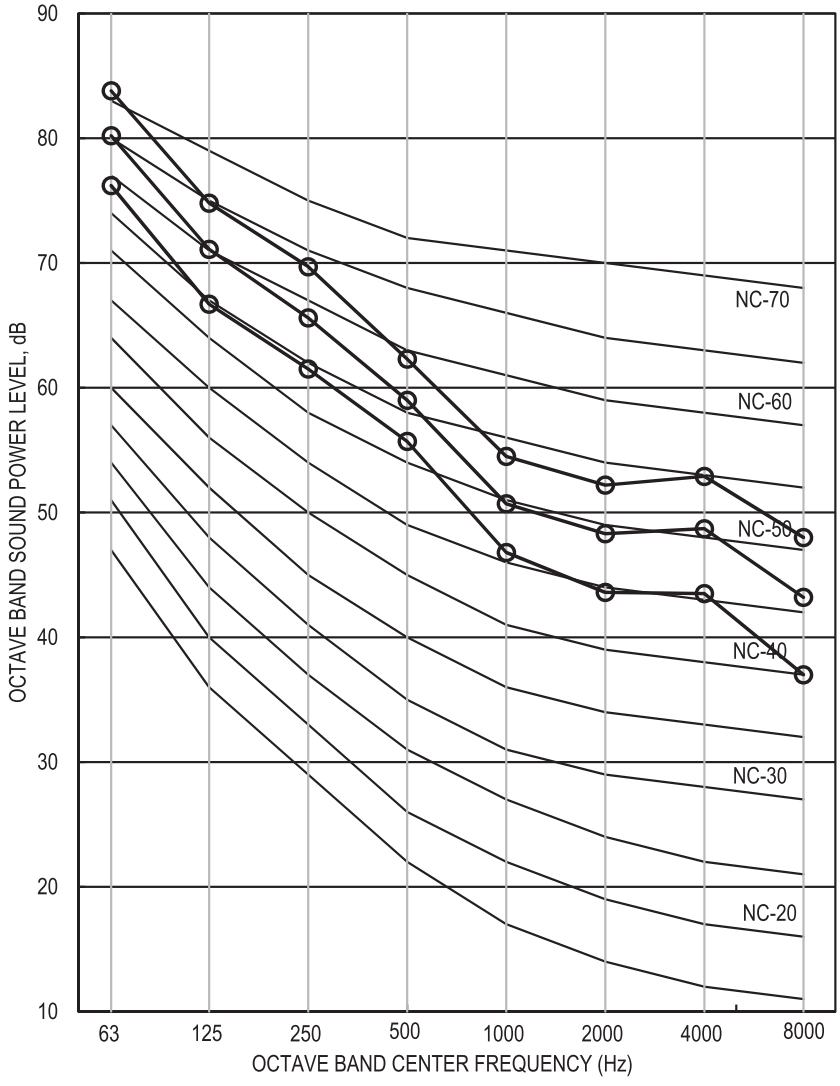
OVER ALL (dB)

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

FTQ42TAVJUD
FTQ42TAVJUA

Sound levels tested in accordance with AHRI 260.

Ducted Inlet



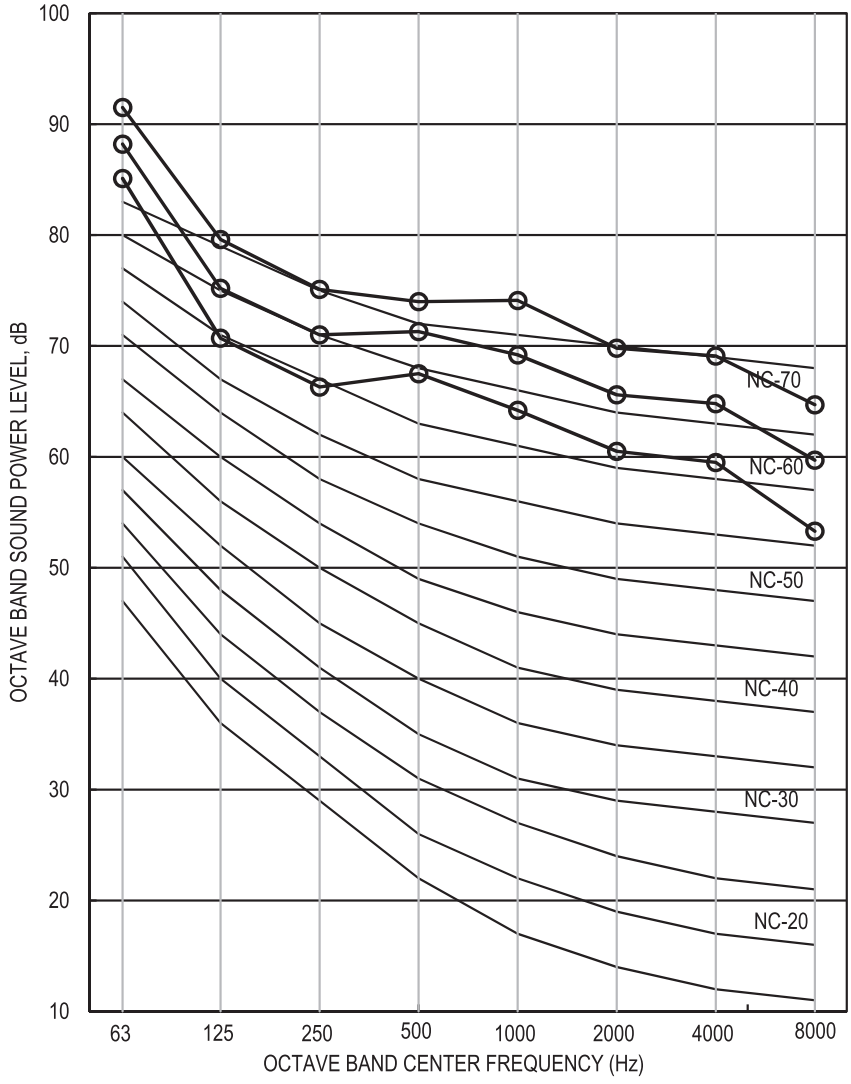
OVER ALL (dB)

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

FTQ42TAVJUD
FTQ42TAVJUA

Sound levels tested in accordance with AHRI 260.

Ducted Discharge



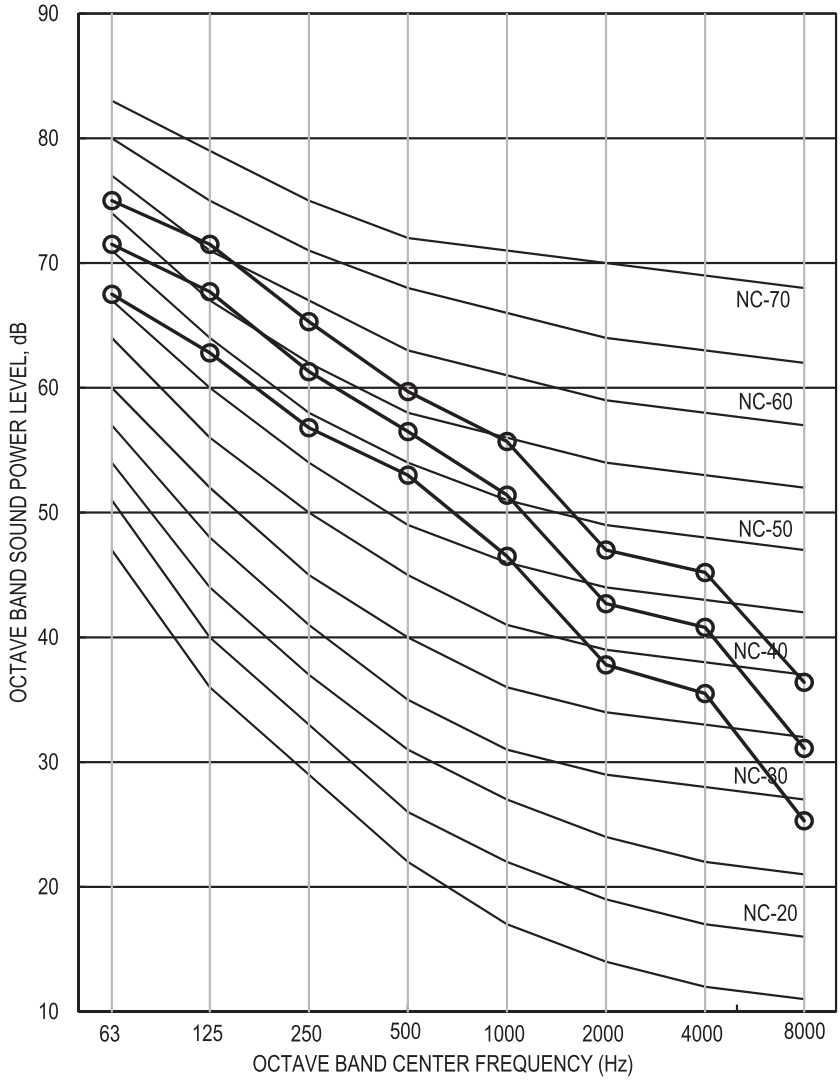
OVER ALL (dB)

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

FTQ42TAVJUD
FTQ42TAVJUA

Sound levels tested in accordance with AHRI 260.

Casing Radiated



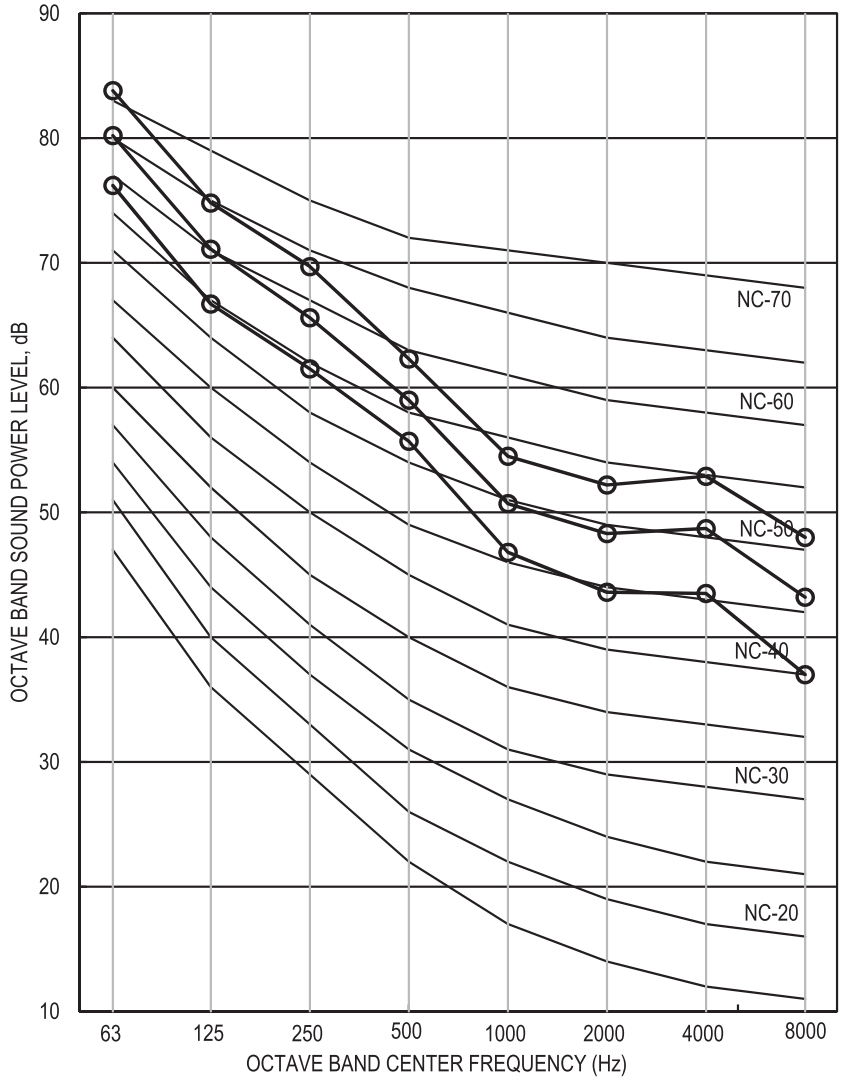
OVER ALL (dB)

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

FTQ48TAVJUD
FTQ48TAVJUA

Sound levels tested in accordance with AHRI 260.

Ducted Inlet



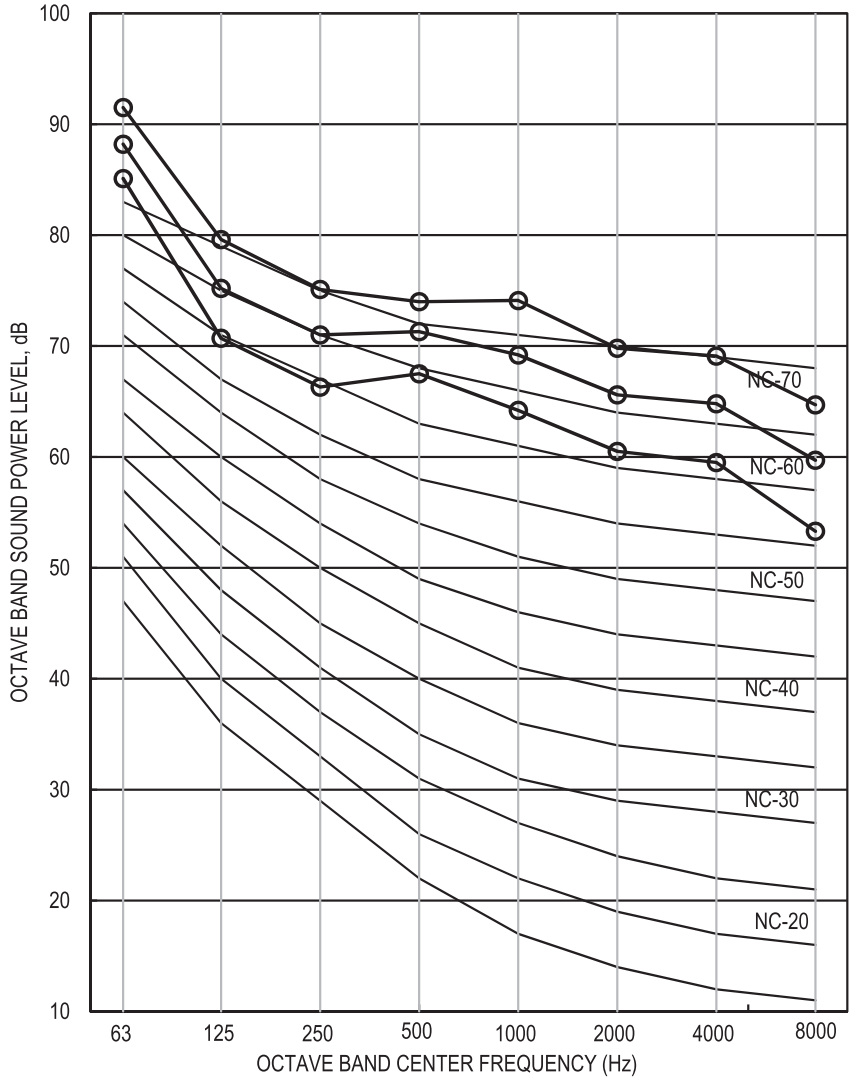
OVER ALL (dB)

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

FTQ48TAVJUD
FTQ48TAVJUA

Sound levels tested in accordance with AHRI 260.

Ducted Discharge



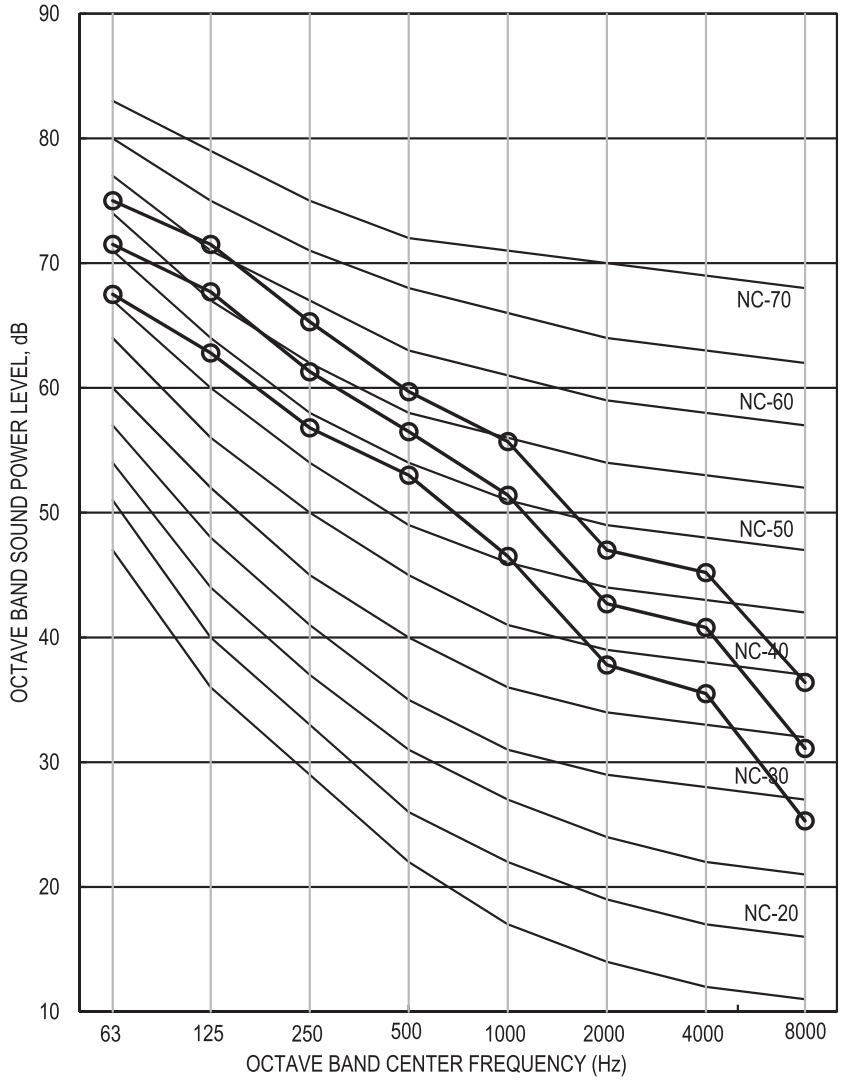
OVER ALL (dB)

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

FTQ48TAVJUD
FTQ48TAVJUA

Sound levels tested in accordance with AHRI 260.

Casing Radiated

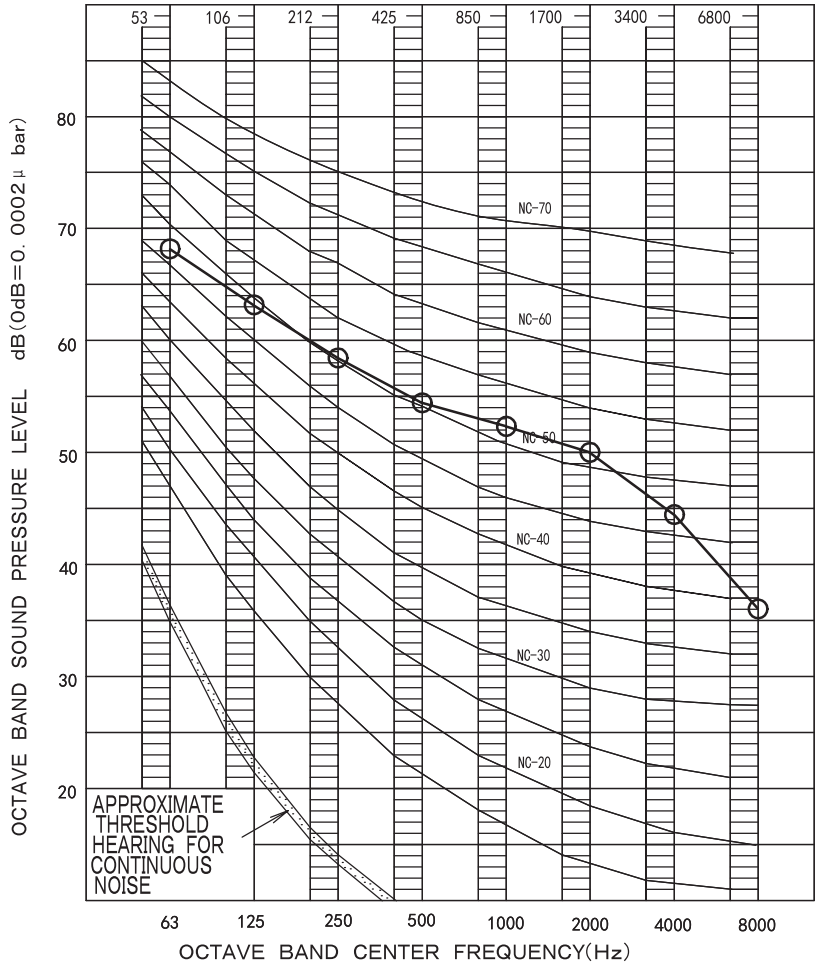


OVER ALL (dB)

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

10.2 Outdoor Unit (Cooling Only)

RZR18 - 24TAVJUA



OVER ALL (dB)

SCALE A	58

(B. G. N IS ALREADY RECTIFIED)

OPERATING CONDITIONS

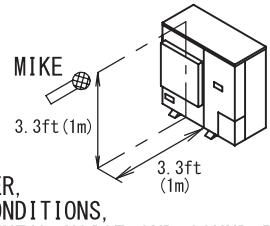
POWER SOURCE 208/230V 60Hz

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

MEASURING PLACE

ANECHOIC CHAMBER

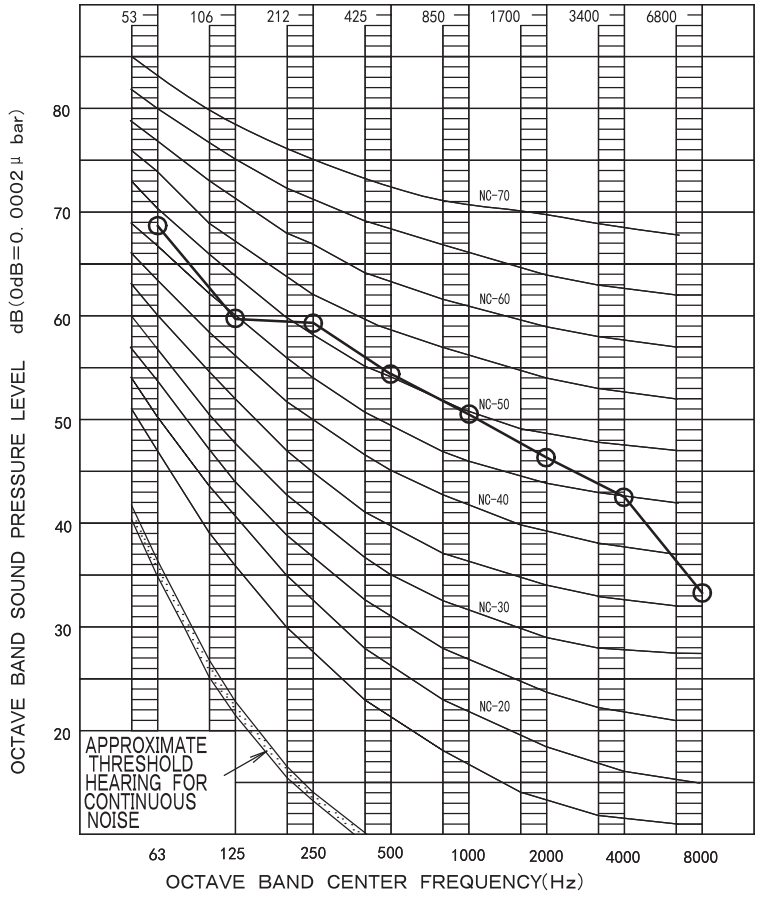
LOCATION OF MICROPHONE



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.

4D101947D

RZR30 - 48TAVJUA



OVER ALL (dB)

SCALE A	57

(B.G.N IS ALREADY RECTIFIED)

OPERATING CONDITIONS

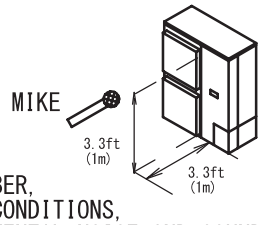
POWER SOURCE 208/230V 60Hz

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

MEASURING PLACE

ANECHOIC CHAMBER

LOCATION OF MICROPHONE

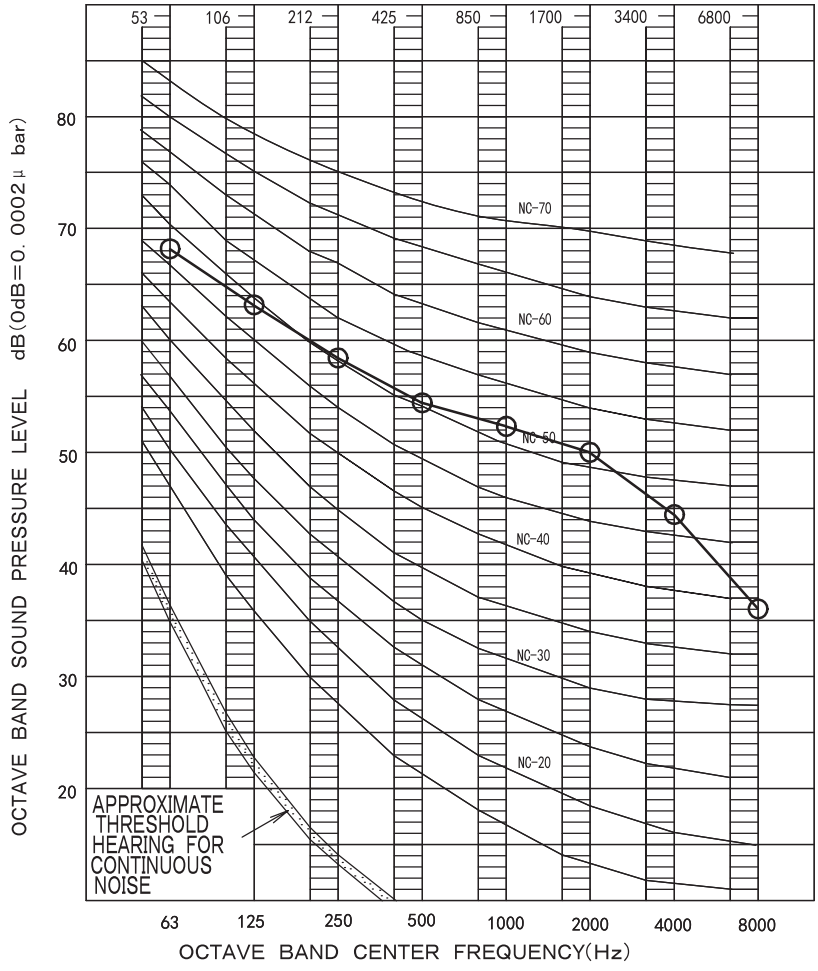


NOTE:THE OPERATING SOUND IS MEASURED IN ANECHOIC CHAMBER,
IF IT IS MEASURED UNDER THE ACTUAL INSTALLATION CONDITIONS,
IT IS NORMALLY OVER THE SET VALUE DUE TO ENVIRONMENTAL NOISE AND SOUND REFLECTION.

4D101949D

10.3 Outdoor Unit (Heat Pump)

RZQ18 - 24TAVJUA (cooling)



OVER ALL (dB)

SCALE A	58

(B. G. N IS ALREADY RECTIFIED)

OPERATING CONDITIONS

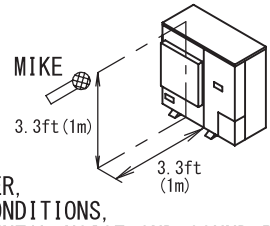
POWER SOURCE 208/230V 60Hz

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

MEASURING PLACE

ANECHOIC CHAMBER

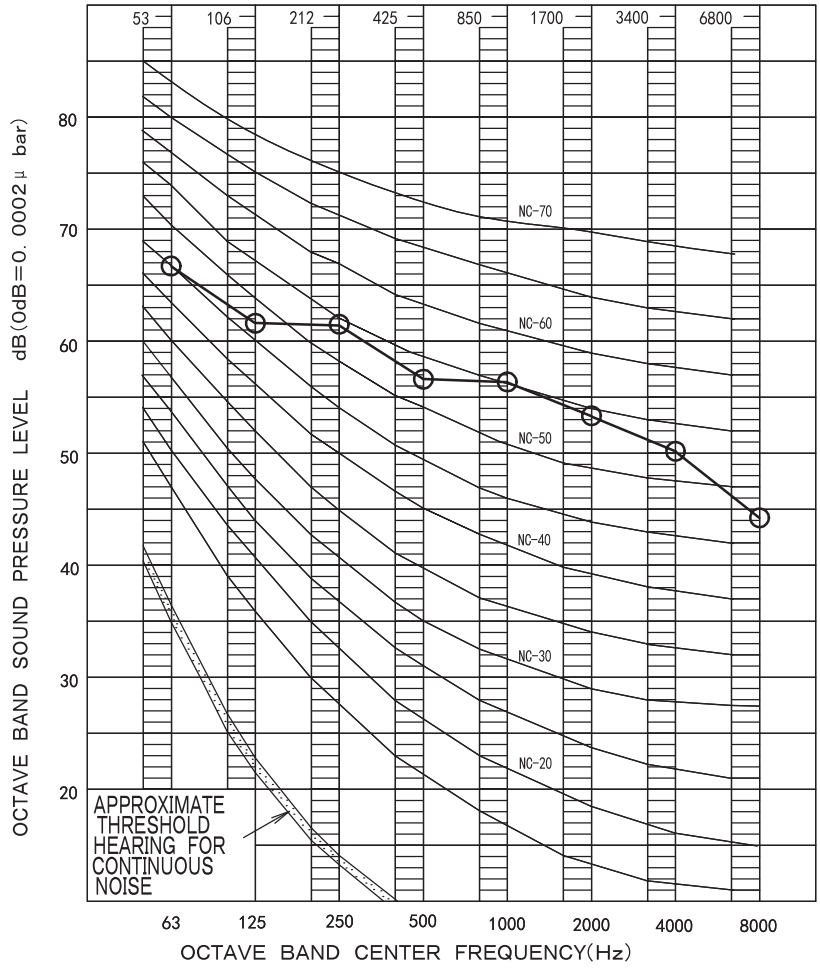
LOCATION OF MICROPHONE



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.

4D101947D

RZQ18 - 24TAVJUA (heating)



OVER ALL (dB)

SCALE A	61

(B. G. N IS ALREADY RECTIFIED)

OPERATING CONDITIONS

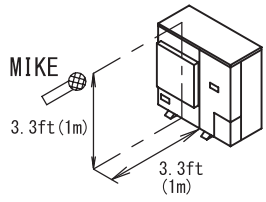
POWER SOURCE 208/230V 60Hz

HEATING RETURN AIR TEMPERATURE:70.0°FDB(21.1°CDB)
OUTDOOR TEMPEARATURE:47.0°FDB(8.3°CDB), 43.0°FWB(6.1°CWB)

MEASURING PLACE

ANECHOIC CHAMBER

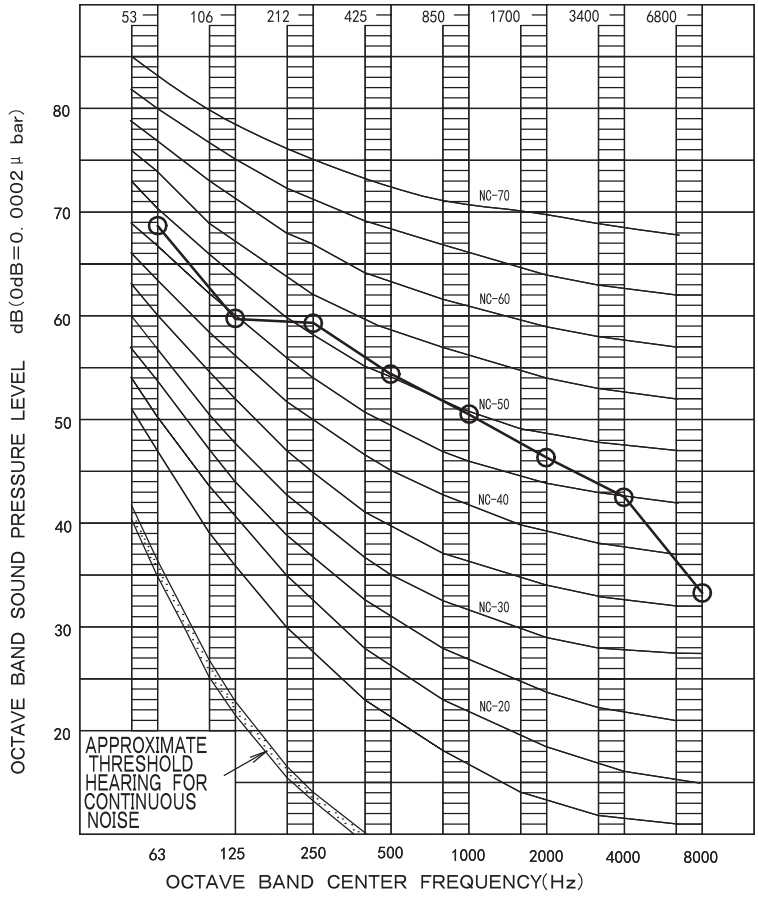
LOCATION OF MICROPHONE



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.
WHEN FROSTING ON COIL, OPERATING SOUND MAY BECOME LARGER THAN THE ABOVE VALUE.

4D101948E

RZQ30 - 48TAVJUA (cooling)



OVER ALL (dB)

SCALE A	57

(B.G.N IS ALREADY RECTIFIED)

OPERATING CONDITIONS

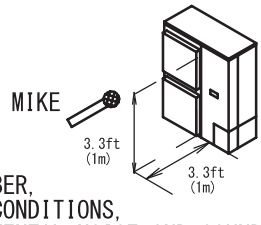
POWER SOURCE 208/230V 60Hz

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

MEASURING PLACE

ANECHOIC CHAMBER

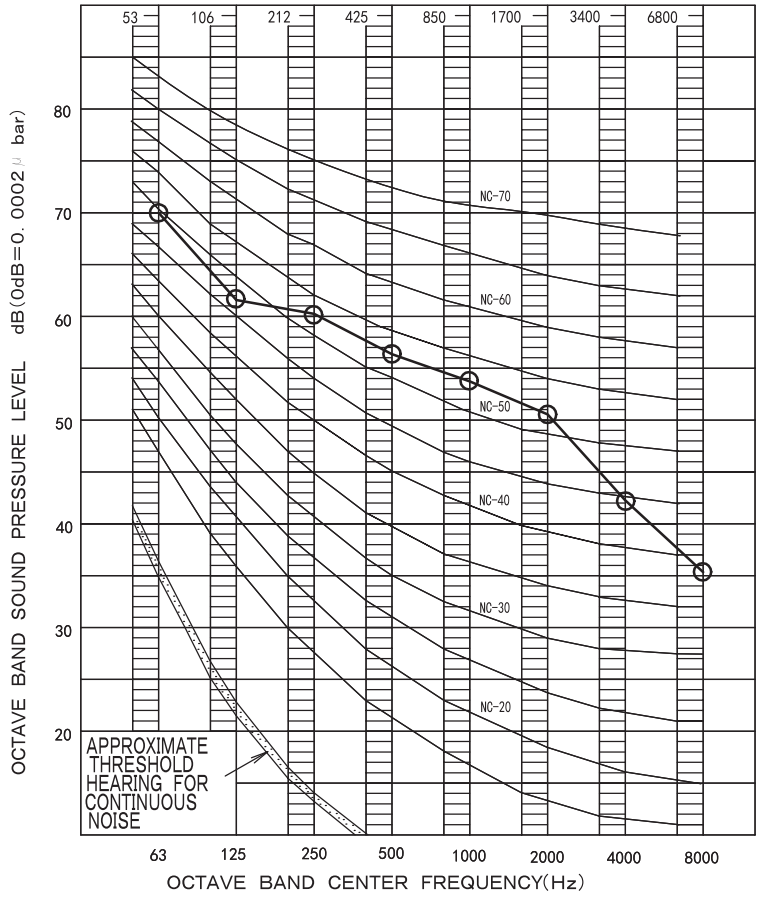
LOCATION OF MICROPHONE



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.

4D101949D

RZQ30 - 48TAVJUA (heating)



OVER ALL (dB)

SCALE A	59

(B.G.N IS ALREADY RECTIFIED)

OPERATING CONDITIONS

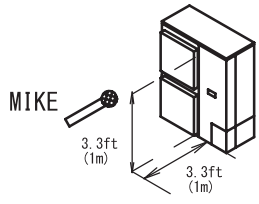
POWER SOURCE 208/230V 60Hz

HEATING RETURN AIR TEMPERATURE:70.0°FDB(21.1°CDB)
OUTDOOR TEMPEARATURE:47.0°FDB(8.3°CDB), 43.0°FWB(6.1°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.
WHEN FROSTING ON COIL,OPERATING SOUND MAY BECOME LARGER THAN THE ABOVE VALUE.

4D101950E

11.Accessories

11.1 Indoor Unit

11.1.1 FCQ

Optional accessories (for unit)

Item			Note	FCQ18 - 24TAVJU	FCQ30 - 48TAVJU	FCQ18 - 24TAVJU	FCQ30 - 48TAVJU
Type of decoration panel				WHEN USING SELF CLEANING DECO PANEL		WHEN USING STANDARD DECO PANEL	
Self cleaning decoration panel				BYCQ125BGW1		—	
Connection pipe (Nozzle for dust recovery)				KKHAP55B160		—	
L-shape extension pipe				KKHAP55A160		—	
Decoration panel				—		BYCQ125B—W1	
Sealing material of air discharge outlet				KDBH55K160F		KDBHQ55B140	
Panel spacer				KDB55J160F		KDB55J160F	
Fresh air intake kit	Chamber type	Without T-duct joint	1	—		KDDQ55B140 [Components: KDDP55C160-1, KDDQ55B140-2]	
		With T-duct joint	1	—		KDDP55B160K [Components: KDDP55C160-1, KDDP55B160K2]	
	Direct installation type			—		KDDP55X160A	
Filter chamber				—		KDDFP55C160	
Ultra long life filter unit				—		KAF555D160	
Replacement ultra long life filter				—		KAF550D160	
Replacement filter for self cleaning decoration panel				KAFP554A160		—	
Branch duct chamber				KDJP55B80	KDJP55B160	KDJP55B80	KDJP55B160

C: 3D115505A

Note:

1. Please order using the names of both components instead of set name.

Optional accessories (for controls)

Item			Note	FCQ18 - 24TAVJU	FCQ30 - 48TAVJU	FCQ18 - 24TAVJU	FCQ30 - 48TAVJU
Remote controller	Wired type	Simplified		BRC2A71		BRC2A71	
		Navigation		BRC1E73		BRC1E73	
	Wireless type			—		—	
Central remote controller				DCS302C71		DCS302C71	
Electrical box				KJB311AA		KJB311AA	
Unified ON/OFF controller				DCS301C71		DCS301C71	
Electrical box				KJB212AA		KJB212AA	
Schedule timer				DST301BA61		DST301BA61	
intelligent Touch controller				DCS601C71		DCS601C71	
Wiring adaptor printed circuit board			1	KRP1C75		KRP1C75	
Group control adaptor printed circuit board			1	KRP4A74		KRP4A74	
External control adaptor for outdoor unit			1	DTA104A62		DTA104A62	
DIII-NET expander adaptor				DTA109A51		DTA109A51	
Remote sensor				KRCS01-4B		KRCS01-4B	
Installation box for adaptor printed circuit board			2, 3	KRP1J98A		KRP1H98A	
Adaptor for multi tenant			1	DTA114A61		DTA114A61	

C: 3D115505A

Note:

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

11.1.2 FHQ
Optional accessories (for unit)

No.	Item		Model				
			FHQ18PVJU	FHQ24PVJU	FHQ30PVJU	FHQ36MVJU	FHQ42MVJU
1	Replacement long life filter	Resin net	KAFJ501D160				

C: 3D049335C

Optional accessories (for controls)

No.	Item			Model				
				FHQ18PVJU	FHQ24PVJU	FHQ30PVJU	FHQ36MVJU	FHQ42MVJU
1	Remote controller	Wired type	Simplified	BRC2A71				
2			Navigation	BRC1E73				
3		Wireless type		BRC7E83				
4	Remote sensor			KRCS01-1B				
5	Installation box for adaptor printed circuit board			KRP1C93				
6	Central remote controller			DCS302C71				
6-1	Electrical box			KJB311AA				
7	Unified ON/OFF controller			DCS301C71				
7-1	Electrical box			KJB212AA				
8	Schedule timer			DST301BA61				
9	intelligent Touch Controller			DCS601C71				
10	External control adaptor for outdoor unit			★ DTA104A62				
11	DIII-NET expander adaptor			★ DTA109A51				

C: 3D049198D

Note:

1. Installation box (No.5) is necessary for each adaptor marked ★.
2. Electrical box (No.6-1/7-1) is required for (No.6/7).

11.1.3 FAQ
Optional accessories (for controls)

No.	Item			Model	
				FAQ18TAVJU	FAQ24TAVJU
1	Remote controller	Wired type	Simplified	BRC2A71	
2			Navigation	BRC1E73	
3		Wireless type		BRC7E818	
4	Remote sensor (for wireless remote controller)			KRCS01-1B	
5	Unified ON/OFF controller			DCS301C71	
5-1	Electrical box			KJB212AA	
6	Central remote controller			DCS302C71	
6-1	Electrical box			KJB311AA	
7	Schedule timer			DST301BA61	
8	intelligent Touch Controller			DCS601C71	
9	DIII-NET expander adaptor			DTA109A51	
10	Wiring adapter printed circuit board			KRP1B71	
11	Group control adaptor printed circuit board			KRP4A71	

C: 3D155535

Note:

1. Electrical box (No.5-1/6-1) is required for (No.5/6).

11.1.4 FBQ
Optional accessories (for controls)

No.	Item			Model				
				FBQ18PVJU	FBQ24PVJU	FBQ30PVJU	FBQ36PVJU	FBQ42PVJU
1	Remote controller	Wired type	Simplified	BRC2A71				
2			Navigation	BRC1E73				
3		Wireless type		BRC4C82 (Note 3)				
4				BRC082A43 (Note 3)				
5	Remote sensor (for wireless remote controller)			KRCS01-4B				
6	Unified ON/OFF controller			DCS301C71				
6-1	Electrical box			KJB212AA				
7	Central remote controller			DCS302C71				
7-1	Electrical box			KJB311AA				
8	Schedule timer			DST301BA61				
9	intelligent Touch Controller			DCS601C71				
10	DIII-NET expander adaptor			DTA109A51				
11	Wiring adaptor printed circuit board			★ KRP1C74				
12	External control adaptor printed circuit board for outdoor unit			★ DTA104A61				
13	Group control adaptor printed circuit board			★ KRP4A71				
14	Fixing plate			KRP4A96 (Note 4,5)				
15	Adaptor printed circuit board for multi tenant			★ DTA114A61				

C: 3D074109D

Note:

1. Fixing plate (No.14) is necessary for each adaptor marked ★.
2. Electrical box (No.6-1/7-1) is required for controller (No.6/7).
3. BRC4C82 for 2 speeds and BRC082A43 for 3 speeds.
4. Up to 2 adaptor printed circuit boards can be installed in the fixing plate.
5. Only 1 fixing plate can be installed for each indoor unit.

11.1.5 FTQ

Optional accessories (for unit)

Model	Electric heater capacity						
	HKS*03XC*	HKS*05XC*	HKS*06XC*	HKS*08XC*	HKS*10XC*	HKS*15*#* (Note 1)	HKSC19C*#* (Note 1)
FTQ18TAVJUD FTQ18TAVJUA	✓	✓	✓	✓	✓	×	×
FTQ24TAVJUD FTQ24TAVJUA	✓	✓	✓	✓	✓	×	×
FTQ30TAVJUD FTQ30TAVJUA	✓	✓	✓	✓	✓	×	×
FTQ36TAVJUD FTQ36TAVJUA	✓	✓	✓	✓	✓	×	×
FTQ42TAVJUD FTQ42TAVJUA	×	✓	✓	✓	✓	✓	✓
FTQ48TAVJUD FTQ48TAVJUA	×	✓	✓	✓	✓	✓	✓

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					
				FTQ18TAVJUD FTQ18TAVJUA	FTQ24TAVJUD FTQ24TAVJUA	FTQ30TAVJUD FTQ30TAVJUA	FTQ36TAVJUD FTQ36TAVJUA	FTQ42TAVJUD FTQ42TAVJUA	FTQ48TAVJUD FTQ48TAVJUA
1	Remote controller	Wired type	Simplified	BRC2A71 (Note 1)					
2			Navigation	BRC1E73					
3		Wireless type		BRC4C82					
4	Remote sensor			KRCS01-2UA					
5	Group control adaptor			KRP4A74 (Note 2)					
6	Installation box for adaptor printed circuit board			KRP1BA101					
7	Central remote controller (Note 3)			DCS302C71					
7-1	Electrical box with ground terminal (3 blocks)			KJB311AA					
8	Unified ON/OFF controller (Note 3)			DCS301C71					
8-1	Electrical box with ground terminal (2 blocks)			KJB212AA					
9	External control adaptor for outdoor unit (Must be installed on indoor units)			DTA104A53 (Note 2)					
10	Wiring adaptor printed circuit board			KRP1C75 (Note 2)					
11	DIII-NET expander adaptor			DTA109A51					
12	Schedule timer			DST301BA61					
13	intelligent Touch Controller			DCS601C71					
14	Adaptor printed circuit board for multi tenant			DTA114A61 (Note 2)					
15	Downflow kit			DFK-B				DFK-C	
16	Washable air filter			ALFH16201E				ALFH1912201E	

Note:

1. When using the remote controller not to have temperature sensor in it as simplified remote controller: BRC2A71, the remote sensor: KRCS01-2UA must be needed.
   In the case that the temperature sensor in remote controller can not sense the accuracy temperature of the room, the remote sensor: KRCS01-2UA is also recommended.
2. Installation box (No.6) is required for adaptor (No.5/9/10/14).
3. Electrical box (No.7-1, 8-1) is required for installation.

11.2 Outdoor Unit

Optional accessories (for unit)

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

4D115454A

12. Caution Label

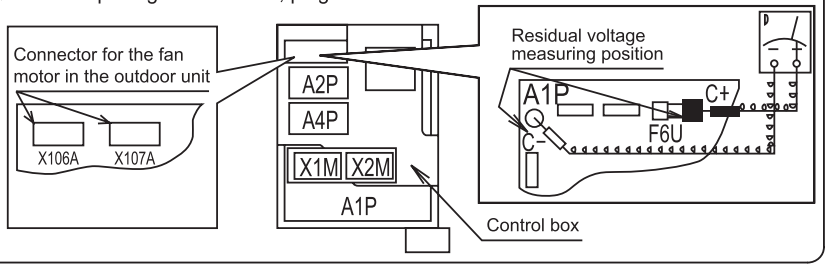
12.1 RZR18 - 24TAVJUA, RZQ18 - 24TAVJUA

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.)

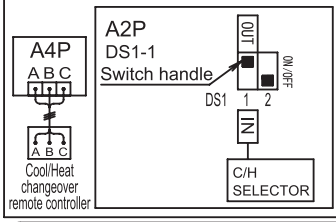
※ After completing service work, plug in the connector for the fan motor in the outdoor unit.



Precautions to Cool/Heat remote controller wiring

- The setting should be carried out only when the changeover of Cool/Heat is set by the remote controller installed in the outdoor unit.

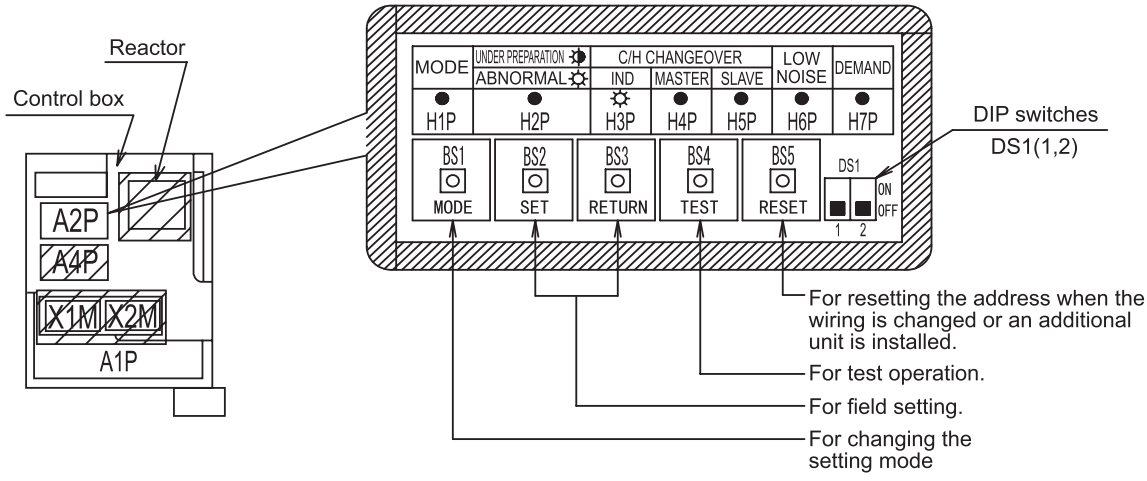
① Wire the Cool/Heat changeover remote controller (optional accessory) to the terminals (A, B and C) on the PC board (A4P) of the outdoor unit.
② Set the Cool/Heat changeover setting switch DSI-1 on the PC board (A2P) of the outdoor unit from IN (factory setting) to OUT.



If you get confused in the setting process, push the MODE button (BS1) to return to the SETTING MODE 1 (H1P: Light OFF).

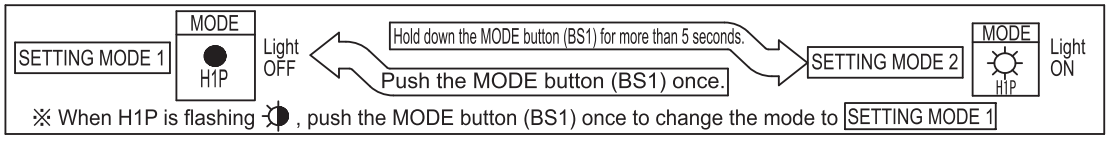
LED display ● : Light OFF ☼ : Light ON ◑ : Flashing ✳ : Light ON or Light OFF

(The LED display on the left side shows the factory setting state)



⚠ When performing the operations such as inspection, to prevent electric shocks, protect the shaded area of the electrical components using the insulating tape.

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



〈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.

2P539015-1A

Make settings (Cool/Heat selection setting) in the SETTING MODE 1 (H1P: Light OFF)

Setting procedure	Description	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.	When setting Cool/Heat selection for each outdoor system individually (factory setting)	
	For the master unit, when setting Cool/Heat selection for multiple outdoor systems together ※	
	For the slave unit, when setting Cool/Heat selection for multiple outdoor systems together ※	
② Push the RETURN button (BS3) to define the setting.		

Items marked "※" mean the external control adapter (optional accessory) for the outdoor unit should be configured separately. See the operation manual of the adapter for details.

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	
Cool/Heat selection setting	When setting Cool/Heat selection for each outdoor system individually (factory setting)	
	For the master unit, when setting Cool/Heat selection for multiple outdoor systems together	
	For the slave unit, when setting Cool/Heat selection for multiple outdoor systems together	
Low noise operating state	●Under normal operation (factory setting) ☼:Under low noise operation	
Demand operating state	●Under normal operation (factory setting) ☼:Under demand operation	

2P539015-1A

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 malfunction 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 malfunction 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 malfunction code.
4. Carry out the test operation again and confirm the abnormality is properly corrected.

※ If there is no malfunction 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 service port to the charge hose(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 15 ft. (4.5m) 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 15 ft. (4.5m) or less (lbs)

		Additional refrigerant charging amount [**A**]
Indoor unit type	FAQ, FBQ, FCQ, FHQ	0
	FTQ18・24	0.10

● If the liquid piping length is more than 15 ft. (4.5m)

[**A**] lbs	+	(Liquid piping length−15) ft. × 0.036 lbs	=	Additional refrigerant charging amount lbs

3. Record of indoor unit model name and installation location

Model name	
Installation location	

2P539015-1A

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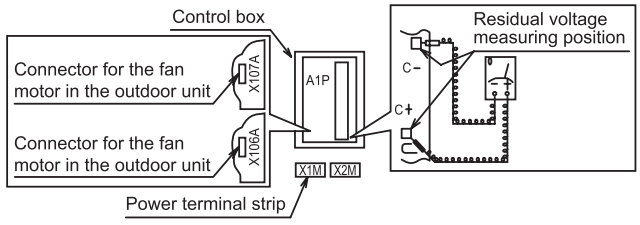
12.2 RZR30 - 48TAVJUA, RZQ30 - 48TAVJUA

Service precautions | ⚠ Warning | ⚠ Caution to electric shock

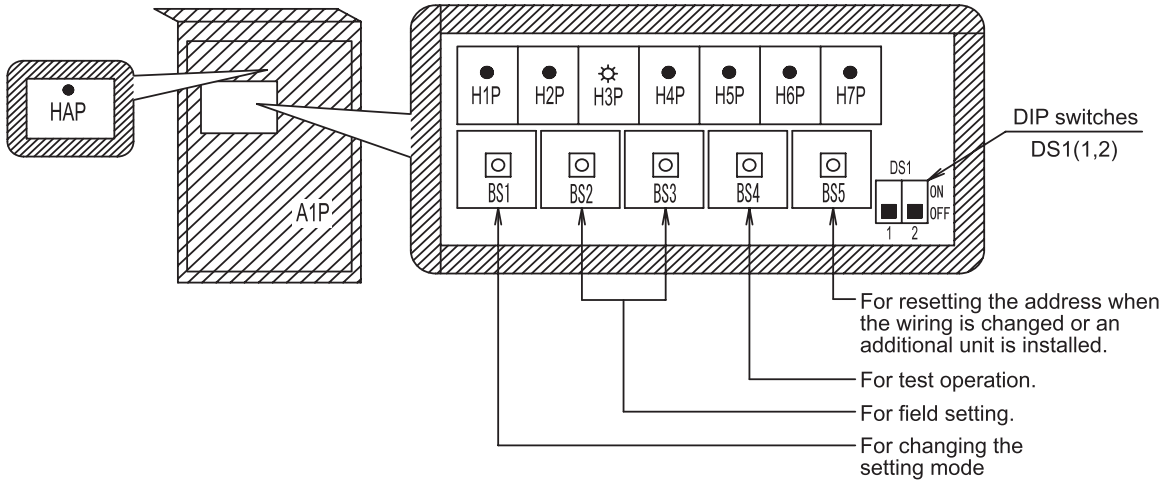
◎ Precautions for servicing control box

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.

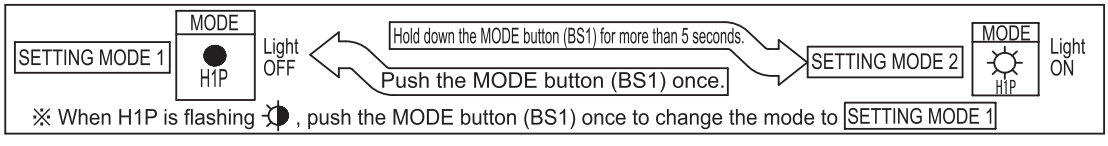


LED display ● : Light OFF ☼ : Light ON ◑ : Flashing ✱ : Light ON or Light OFF



⚠ 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!

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



〈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.

2P539016-1A

Make settings (Cool/Heat selection setting) in the SETTING MODE 1 (H1P: Light OFF)

Setting procedure	Description	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.	When setting Cool/Heat selection for each outdoor system individually (factory setting)	
	For the master unit, when setting Cool/Heat selection for multiple outdoor systems together ※	
	For the slave unit, when setting Cool/Heat selection for multiple outdoor systems together ※	
② Push the RETURN button (BS3) to define the setting.		

Items marked "※" mean the external control adapter (optional accessory) for the outdoor unit should be configured separately. See the operation manual of the adapter for details.

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	
Cool/Heat selection setting	When setting Cool/Heat selection for each outdoor system individually (factory setting)	
	For the master unit, when setting Cool/Heat selection for multiple outdoor systems together	
	For the slave unit, when setting Cool/Heat selection for multiple outdoor systems together	
Low noise operating state	●Under normal operation (factory setting) ☼:Under low noise operation	
Demand operating state	●Under normal operation (factory setting) ☼:Under demand operation	

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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 malfunction 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 malfunction 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 malfunction code.
4. Carry out the test operation again and confirm the abnormality is properly corrected.

※ If there is no malfunction 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**

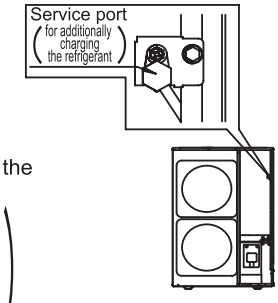
① When the unit is at standstill, set Ⓑ Refrigerant recovery/Evacuation mode to ON in the SETTING MODE 2.
(The expansion valves in the indoor and outdoor units will be opened completely. Some of the solenoid valves are ON.)
(If "Test Operation" and CENTRAL CONTROL are displayed in the remote controller, 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 service port (for additionally charging the refrigerant) to the charge hose.
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 15 ft. (4.5m) 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 15 ft. (4.5m) or less (lbs)

		Additional refrigerant charging amount [**A**]
Indoor unit type	FBQ, FCQ, FHQ	0
	FTQ30•36	0.71
	FTQ42•48	1.05

● If the liquid piping length is more than 15 ft. (4.5m)

[**A**] lbs	+	(Liquid piping length–15) ft. × 0.036 lbs	=	Additional refrigerant charging amount lbs

3. Record of indoor unit model name and installation location

Model name	
Installation location	

2P539016-1A

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13. Caution for Refrigerant Leaks

13.1 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.

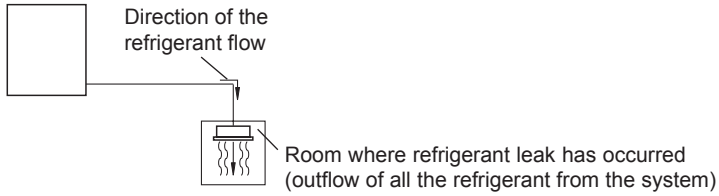
The SPLIT System, like other air conditioning systems, uses R410A as refrigerant. R410A itself is an entirely safe non-toxic, non-combustible refrigerant. Nevertheless care must be taken to ensure that air conditioning facilities are installed in a room which is sufficiently large. This assures that 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.

13.2 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.

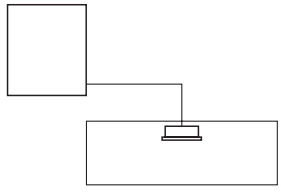
Step1: Calculate the amount of refrigerant (lbs.) charged to each system separately.

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.

14. Safety Devices List

14.1 FCQ

Model		FCQ18TAVJU	FCQ24TAVJU	FCQ30TAVJU	FCQ36TAVJU	FCQ42TAVJU	FCQ48TAVJU
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
Drain pump thermal fuse	°F (°C)	—	—	—	—	—	—
Fan motor thermal protector	°F (°C)	—	—	—	—	—	—
Fan motor thermal fuse	°F (°C)	—	—	—	—	—	—

C: 3D086932C

14.2 FHQ

Model		FHQ18PVJU	FHQ24PVJU	FHQ30PVJU
Printed circuit board fuse		250 V, 5 A	250 V, 5 A	250 V, 5 A
Fan motor thermal fuse	°F	—	—	—
Fan motor thermal protector	°F	OFF: 266±9 ON: 176±36	OFF: 266±9 ON: 176±36	OFF: 266±9 ON: 176±36

C: 3D049334A

Model		FHQ36MVJU	FHQ42MVJU
Printed circuit board fuse		250 V, 5 A	250 V, 5 A
Fan motor thermal fuse	°F	—	—
Fan motor thermal protector	°F	OFF: 266±9 ON: 176±36	OFF: 266±9 ON: 176±36

C: 3D049334A

14.3 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

14.4 FBQ

Model		FBQ18PVJU	FBQ24PVJU	FBQ30PVJU	FBQ36PVJU	FBQ42PVJU	FBQ48PVJU
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)	293 (145)	293 (145)	293 (145)	293 (145)	293 (145)	293 (145)

C: 3D074108A

14.5 FTQ

Model	FTQ18TAVJUD FTQ18TAVJUA	FTQ24TAVJUD FTQ24TAVJUA	FTQ30TAVJUD FTQ30TAVJUA	FTQ36TAVJUD FTQ36TAVJUA
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

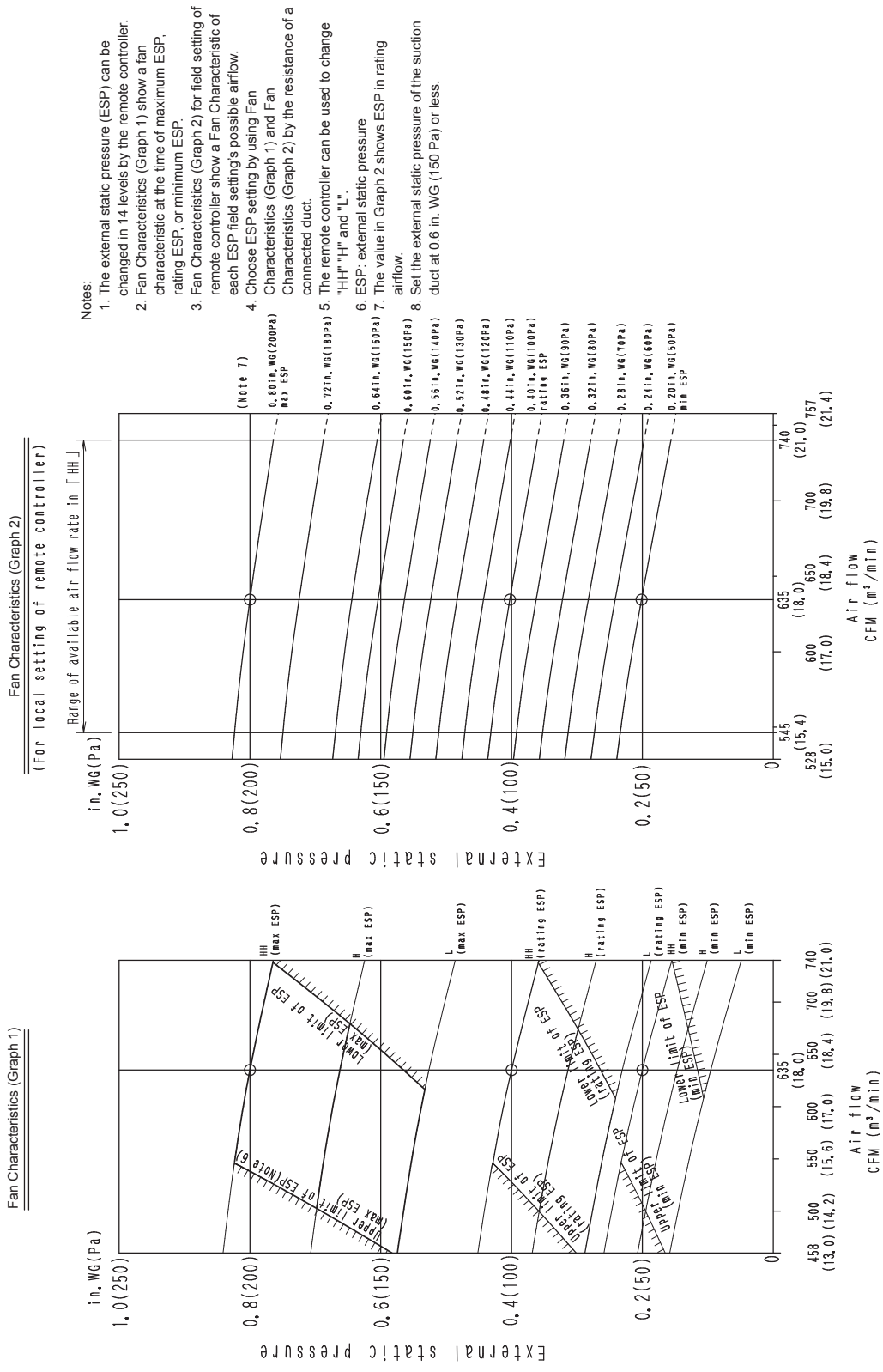
Model	FTQ42TAVJUD FTQ42TAVJUA	FTQ48TAVJUD FTQ48TAVJUA
Printed circuit board fuse (Main)	T, 3.15 A, 250 V	T, 3.15 A, 250 V
Printed circuit board fuse (Fan)	T, 6.3 A, 250 V	T, 6.3 A, 250 V
Printed circuit board fuse (Option)	T, 3.15 A, 250 V	T, 3.15 A, 250 V

C: 3D075604

15.Fan Performances

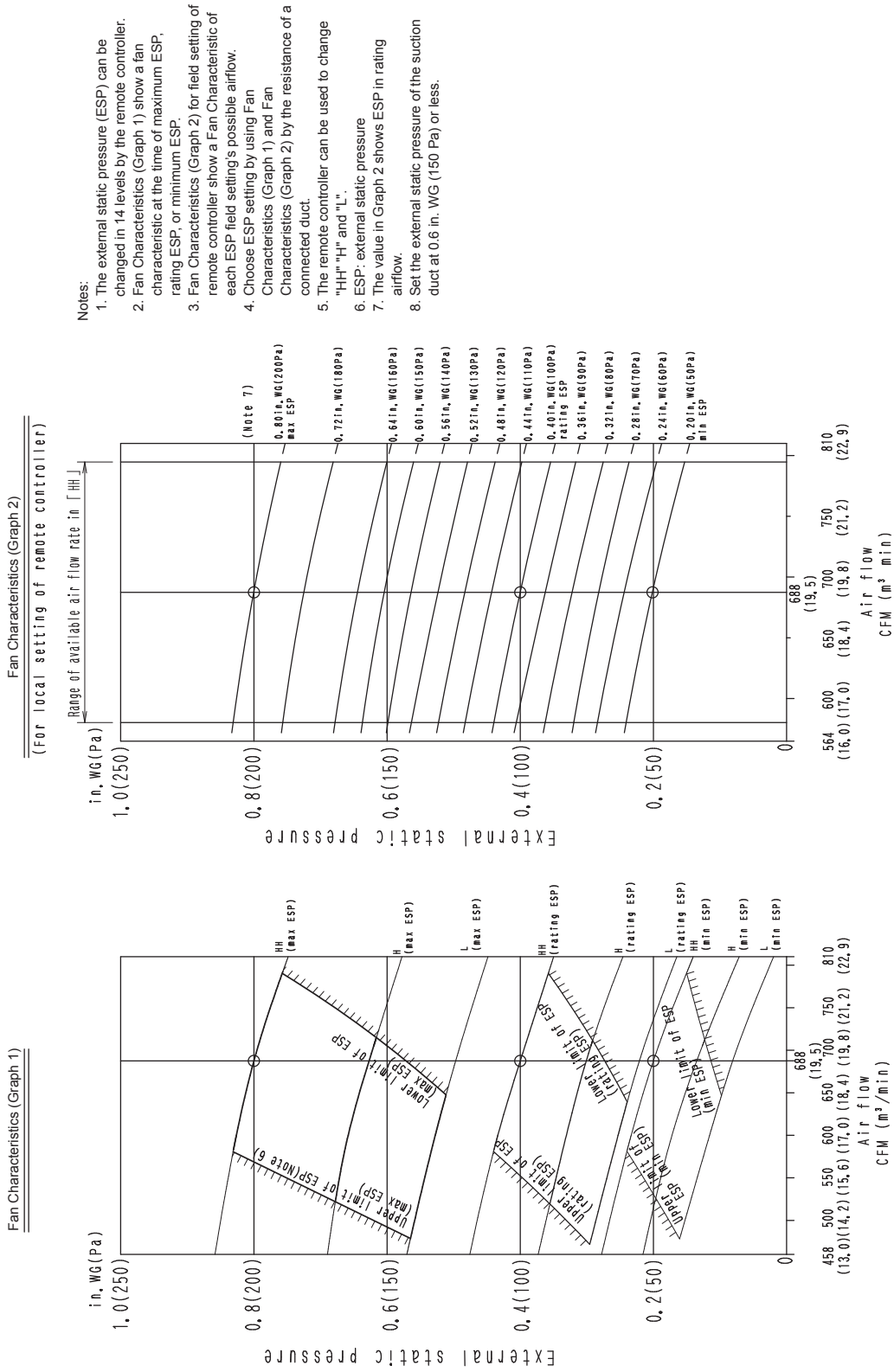
15.1 FBQ

FBQ18PVJU



C: 3D066120F

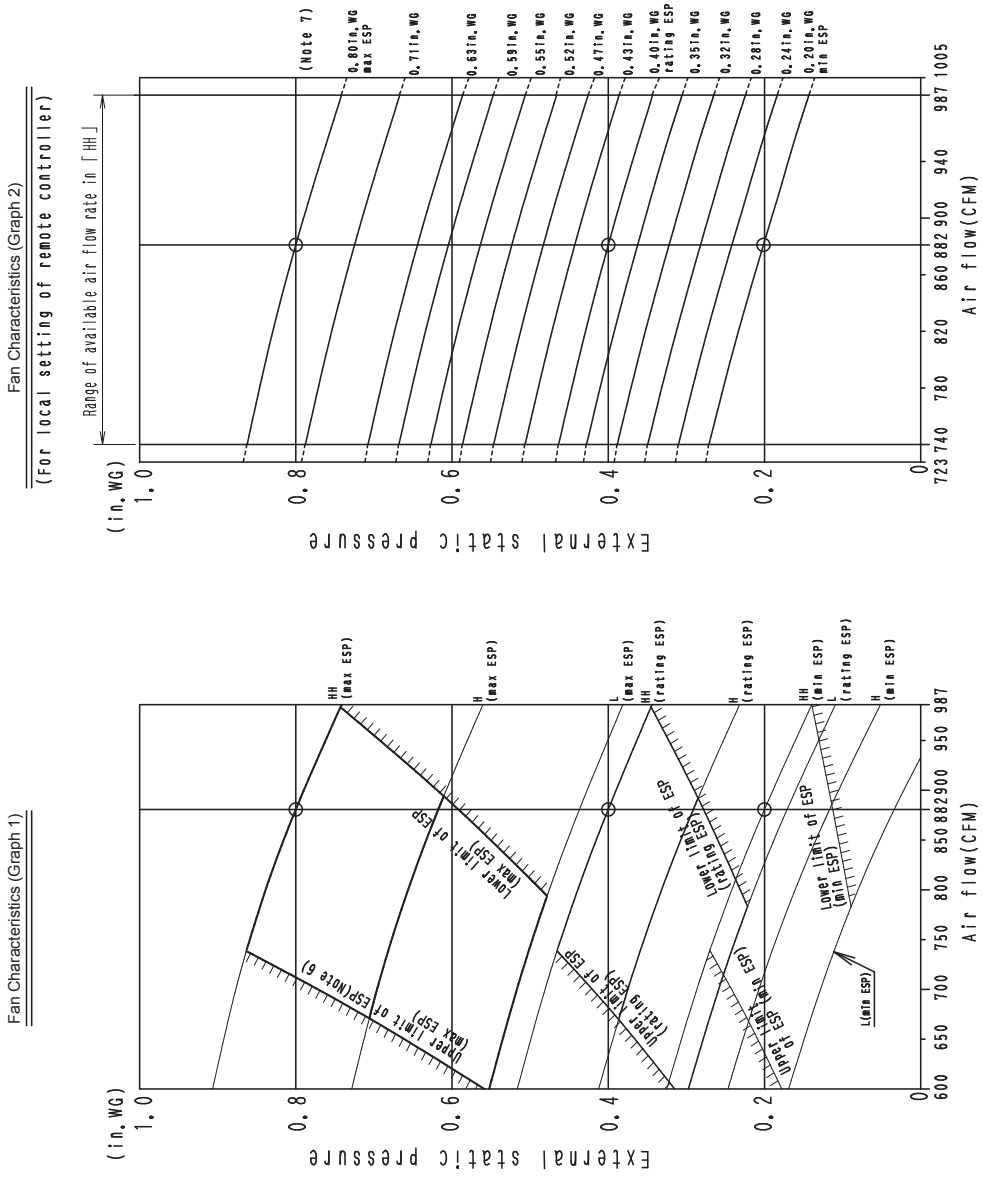
FBQ24PVJU



Notes:
1. The external static pressure (ESP) can be changed in 14 levels by the remote controller.
2. Fan Characteristics (Graph 1) show a fan characteristic at the time of maximum ESP, rating ESP, or minimum ESP.
3. Fan Characteristics (Graph 2) for field setting of remote controller show a Fan Characteristic of each ESP field setting's possible airflow.
4. Choose ESP setting by using Fan Characteristics (Graph 1) and Fan Characteristics (Graph 2) by the resistance of a connected duct.
5. The remote controller can be used to change "HH" "H" and "L".
6. ESP: external static pressure
7. The value in Graph 2 shows ESP in rating airflow.
8. Set the external static pressure of the suction duct at 0.6 in. WG (150 Pa) or less.

C: 3D066121F

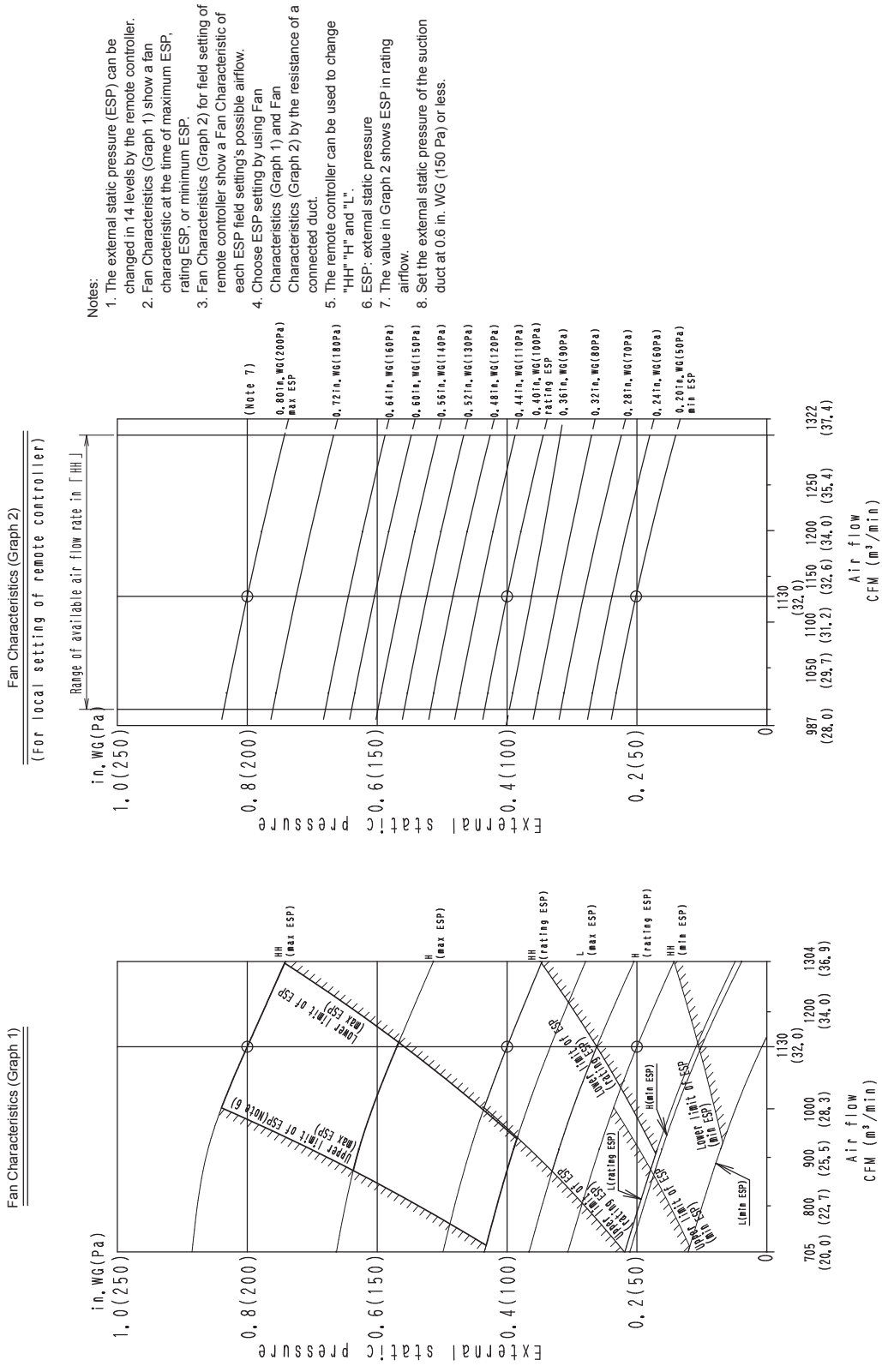
FBQ30PVJU



Notes:
1. The external static pressure (ESP) can be changed in 14 levels by the remote controller.
2. Fan Characteristics (Graph 1) show a fan characteristic at the time of maximum ESP, rating ESP, or minimum ESP.
3. Fan Characteristics (Graph 2) for field setting of remote controller show a Fan Characteristic of each ESP field setting's possible airflow.
4. Choose ESP setting by using Fan Characteristics (Graph 1) and Fan Characteristics (Graph 2) by the resistance of a connected duct.
5. The remote controller can be used to change "HH" "H" and "L".
6. ESP: external static pressure
7. The value in Graph 2 shows ESP in rating airflow.
8. Set the external static pressure of the suction duct at 0.6 in. WG (150 Pa) or less.

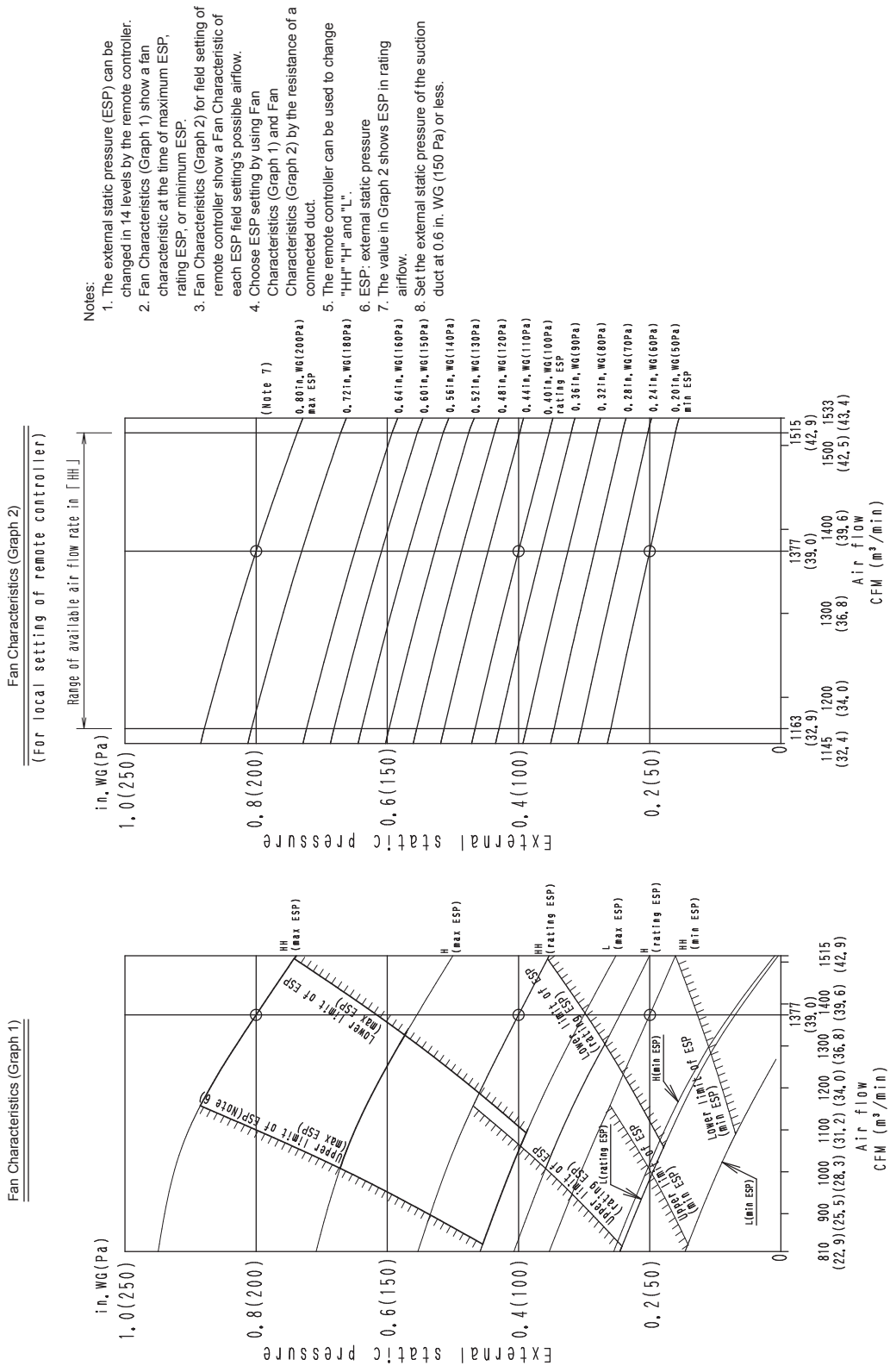
C: 3D066122C

FBQ36PVJU



C: 3D066123F

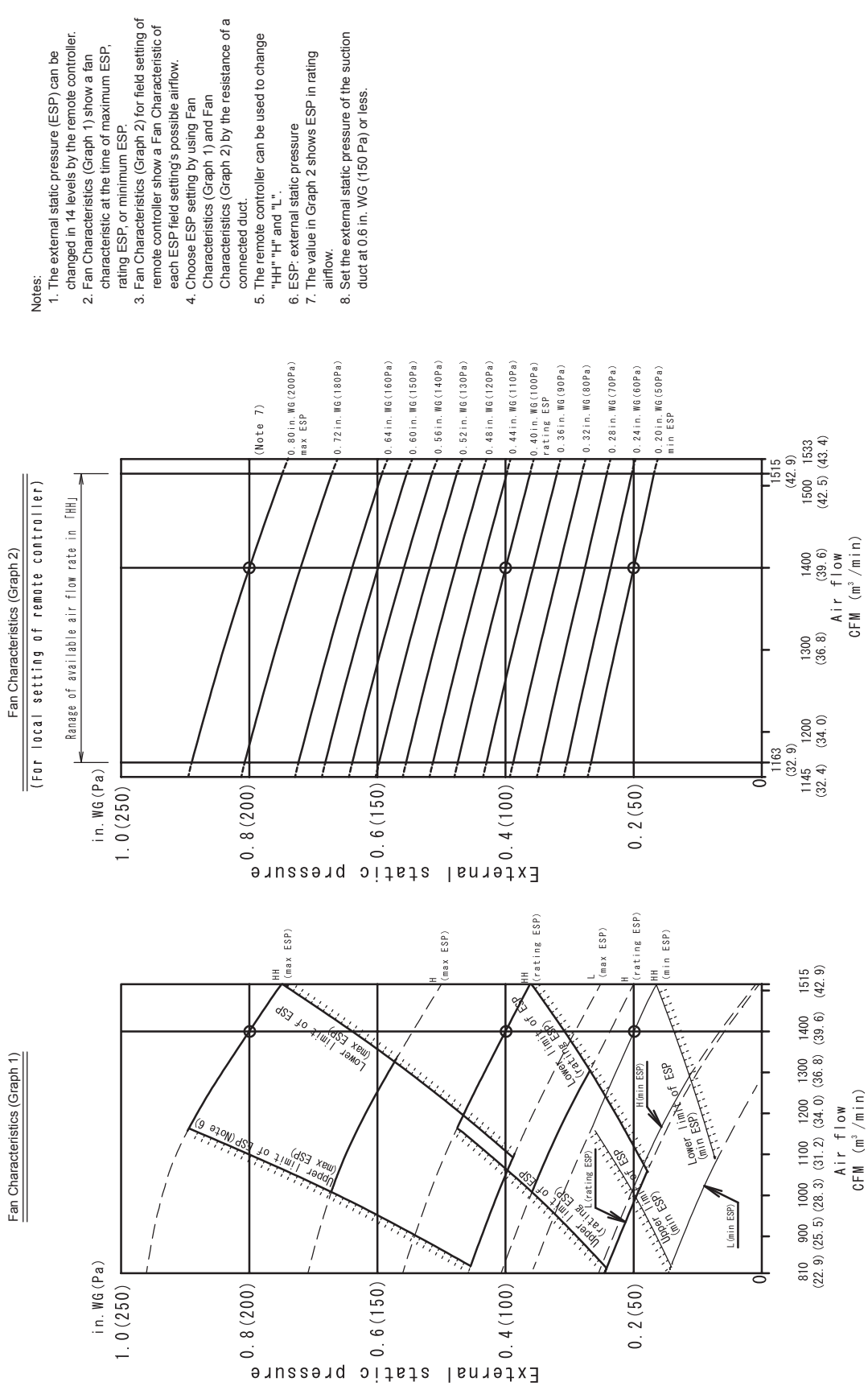
FBQ42PVJU



Notes:
1. The external static pressure (ESP) can be changed in 14 levels by the remote controller.
2. Fan Characteristics (Graph 1) show a fan characteristic at the time of maximum ESP, rating ESP, or minimum ESP.
3. Fan Characteristics (Graph 2) for field setting of remote controller show a Fan Characteristic of each ESP field setting's possible airflow.
4. Choose ESP setting by using Fan Characteristics (Graph 1) and Fan Characteristics (Graph 2) by the resistance of a connected duct.
5. The remote controller can be used to change "HH" "H" and "L".
6. ESP: external static pressure
7. The value in Graph 2 shows ESP in rating airflow.
8. Set the external static pressure of the suction duct at 0.6 in. WG (150 Pa) or less.

C: 3D066449D

FBQ48PVJU



Notes:
1. The external static pressure (ESP) can be changed in 14 levels by the remote controller.
2. Fan Characteristics (Graph 1) show a fan characteristic at the time of maximum ESP, rating ESP, or minimum ESP.
3. Fan Characteristics (Graph 2) for field setting of remote controller show a Fan Characteristic of each ESP field setting's possible airflow.
4. Choose ESP setting by using Fan Characteristics (Graph 1) and Fan Characteristics (Graph 2) by the resistance of a connected duct.
5. The remote controller can be used to change "HH" "H" and "L".
6. ESP: external static pressure
7. The value in Graph 2 shows ESP in rating airflow.
8. Set the external static pressure of the suction duct at 0.6 in. WG (150 Pa) or less.

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16.Airflow Auto Adjustment Characteristics

16.1 FBQ

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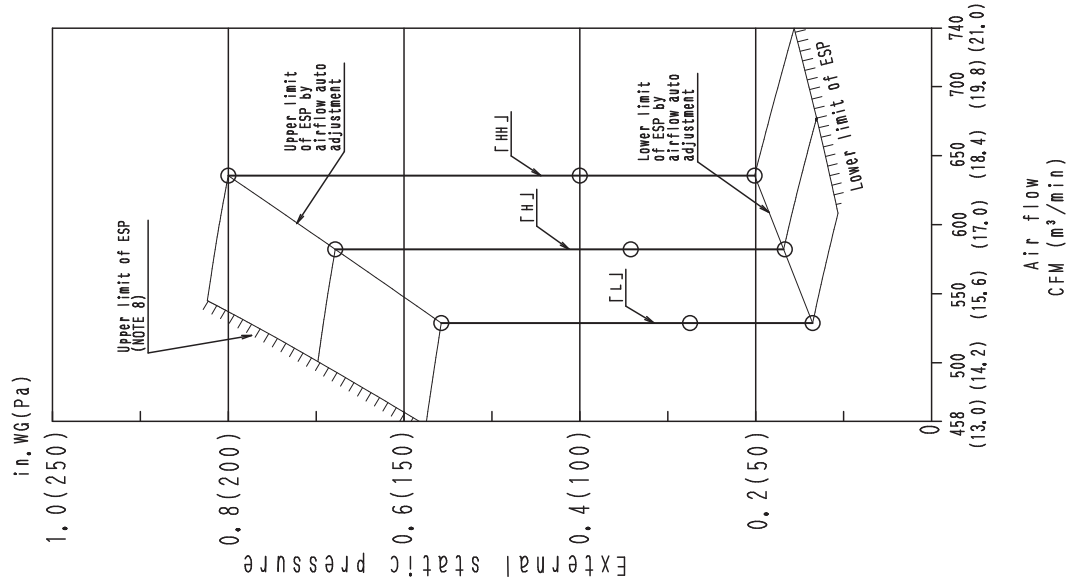
Notes:
1. This indoor unit has the "Automatic air flow rate adjustment" function, which automatically adjusts the air flow rate so as to be approximately in the range of ±10% of the rated value, at the time of installation.
2. After completing the installation of the indoor unit ductwork, use the remote controller to set the airflow auto-adjustment.
3. For instructions on how to set the Airflow Auto-Adjustment, refer to the Installation Manual attached to the indoor unit.
4. External static pressure of 0.2 in. Wg (50 Pa) to 0.8 in. Wg (200 Pa) can be adjusted by the Airflow Auto-Adjustment function if airflow is HH.
5. If the unit is used beyond the range of the above-mentioned external static pressure, the air flow rate can not be well-adjusted automatically, and the unit will operate with the air flow rate different from the rated value.
6. This figure shows a fan characteristics at the time of HH and H's and L.
7. The remote controller can be used to change HH, H and L.
8. ESP: external static pressure.
9. Set the external static pressure of the suction duct at 0.6 in. WG (150 Pa) or less.



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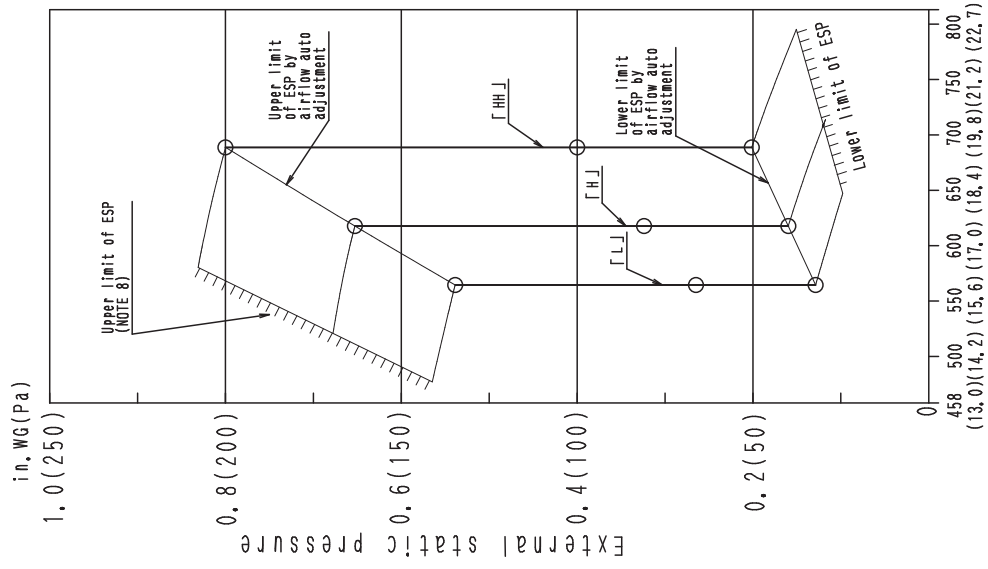

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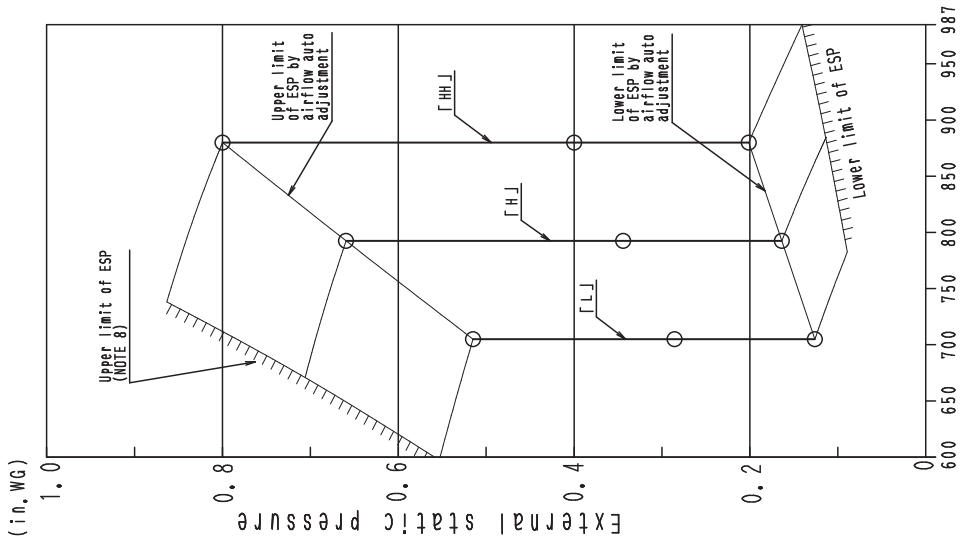

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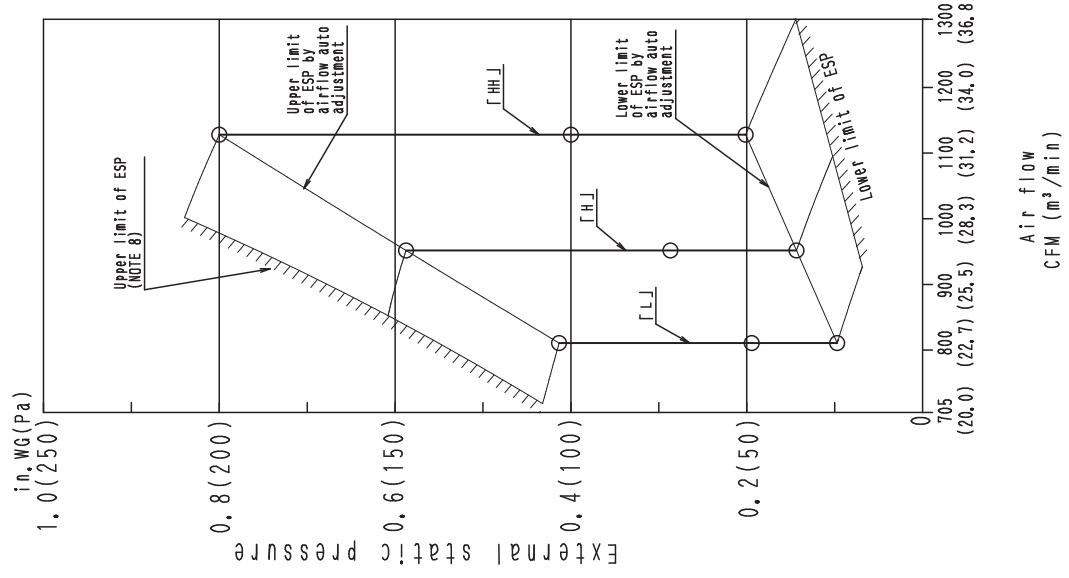

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7. The remote controller can be used to change HH, H and L.
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9. Set the external static pressure of the suction duct at 0.6 in. WG (150 Pa) or less.

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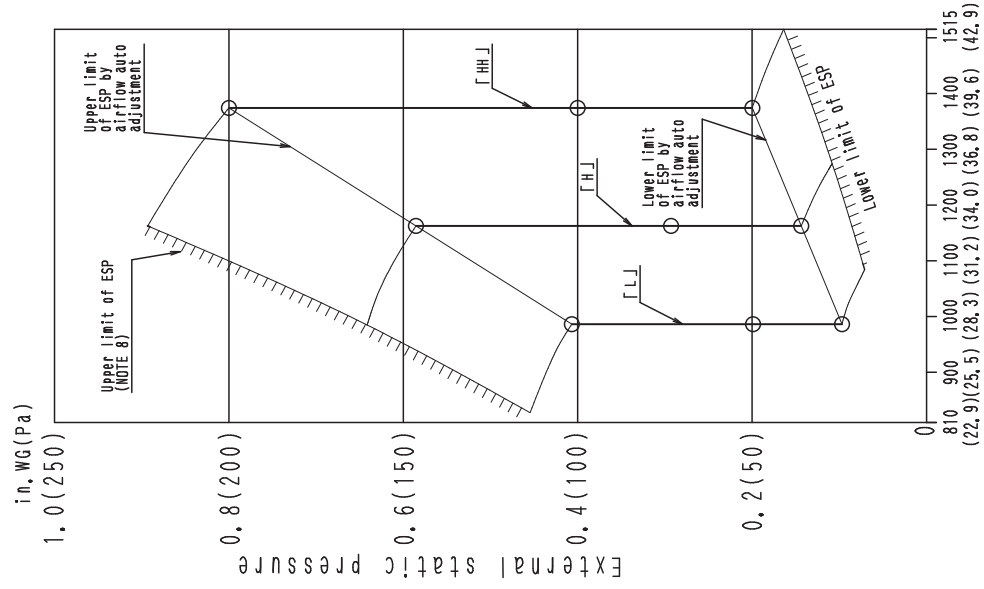

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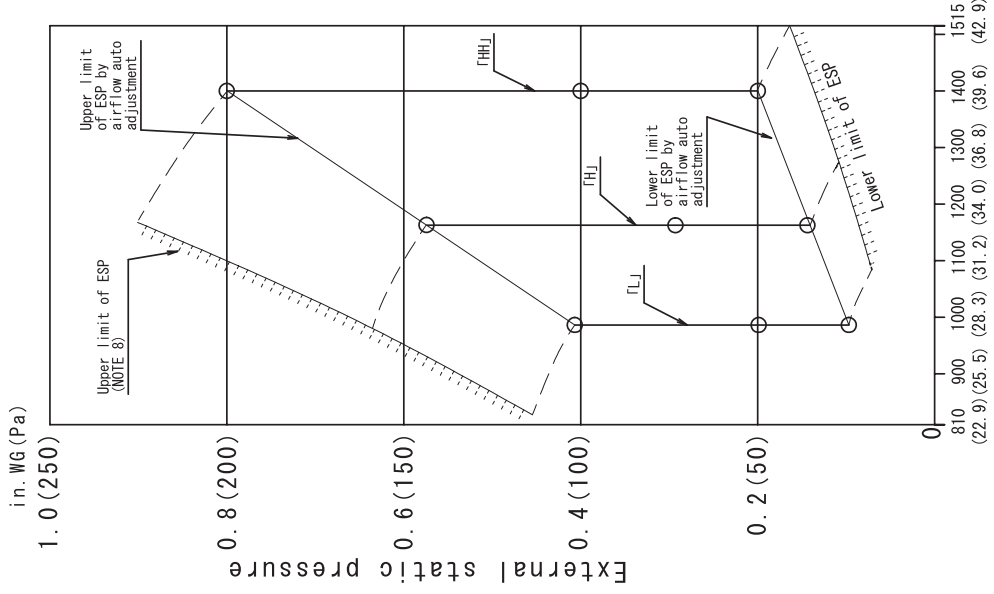

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16.2 FTQ

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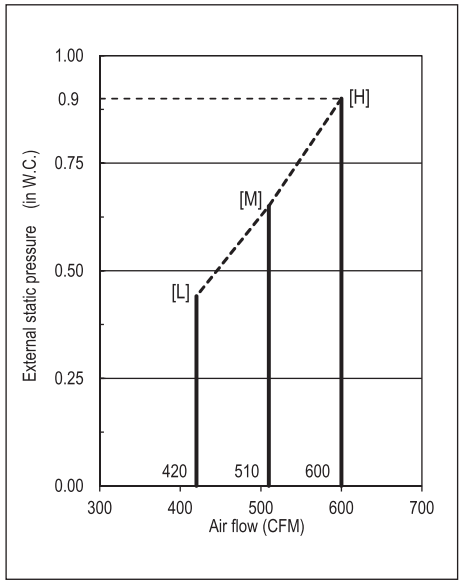

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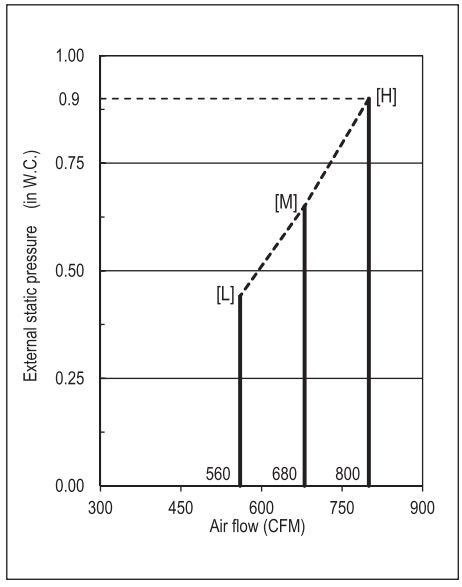

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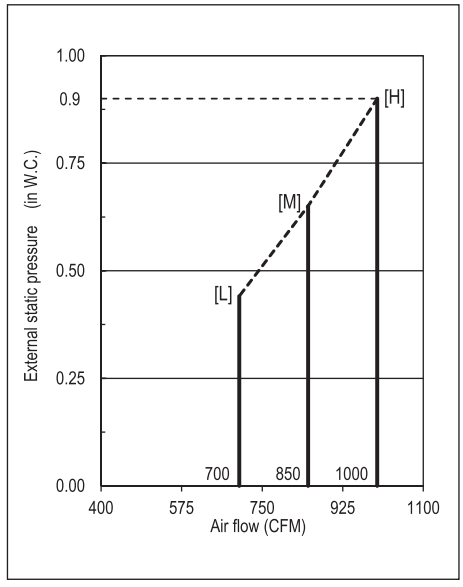

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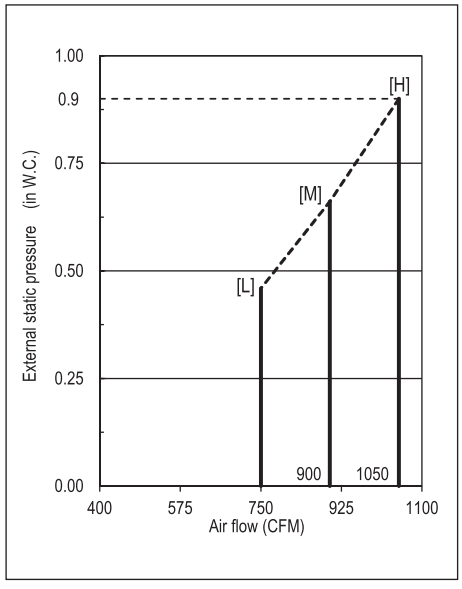

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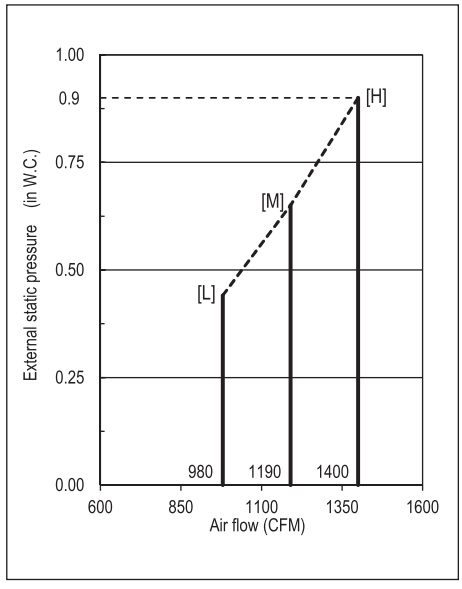

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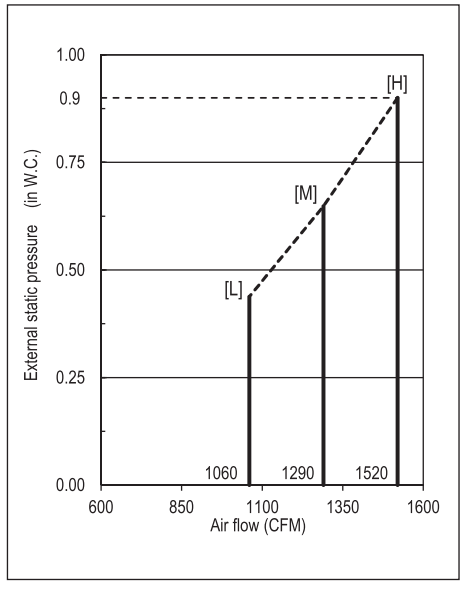

Note:

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 February 2020 but subject to change without notice.