DAIKIN

EDUS282502A-D

R-32

Engineering Data

SkyAir

Heat Pump 60 Hz
Design Manual

RZA-AAVJU

INVERTER

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Ceiling Mounted Cassette (Round Flow with Sensing)

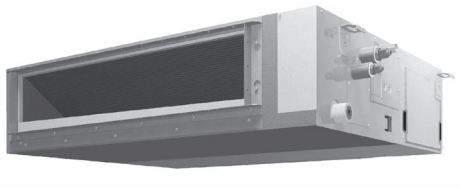
FCA18AAVJU
FCA24AAVJU
FCA30AAVJU
FCA36AAVJU
FCA42AAVJU
FCA48AAVJU

Wall mounted type

FAA18AAVJU
FAA24AAVJU

HSP Concealed Ducted Unit

FBA18AAVJU
FBA24AAVJU
FBA30AAVJU
FBA36AAVJU
FBA42AAVJU
FBA48AAVJU



Air Handling Unit

FTA18AAVJUD FTA18AAVJUA
FTA24AAVJUD FTA24AAVJUA
FTA30AAVJUD FTA30AAVJUA
FTA36AAVJUD FTA36AAVJUA
FTA42AAVJUD FTA42AAVJUA
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1.2 Outdoor Unit

RZA18AAVJU
RZA24AAVJU
RZA30AAVJU
RZA36AAVJU
RZA42AAVJU
RZA48AAVJU

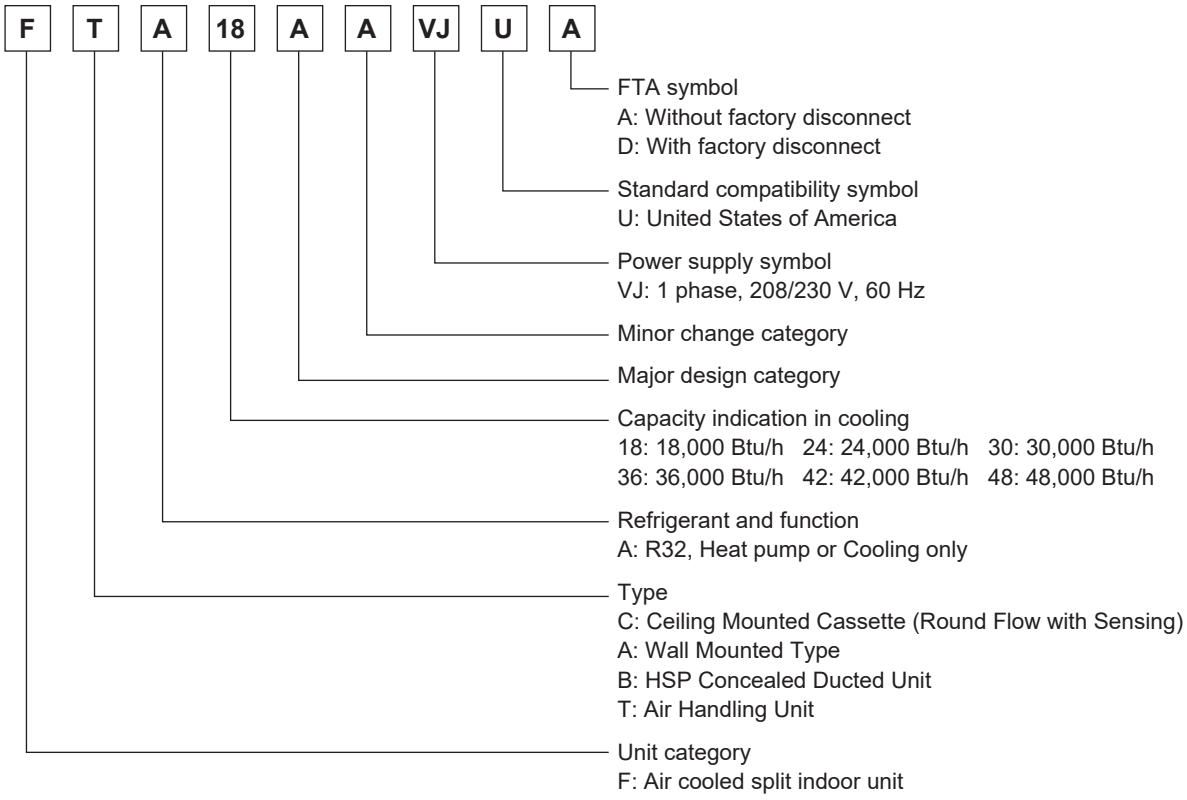
2. Model Name and Power Supply

2.1 Heat Pump

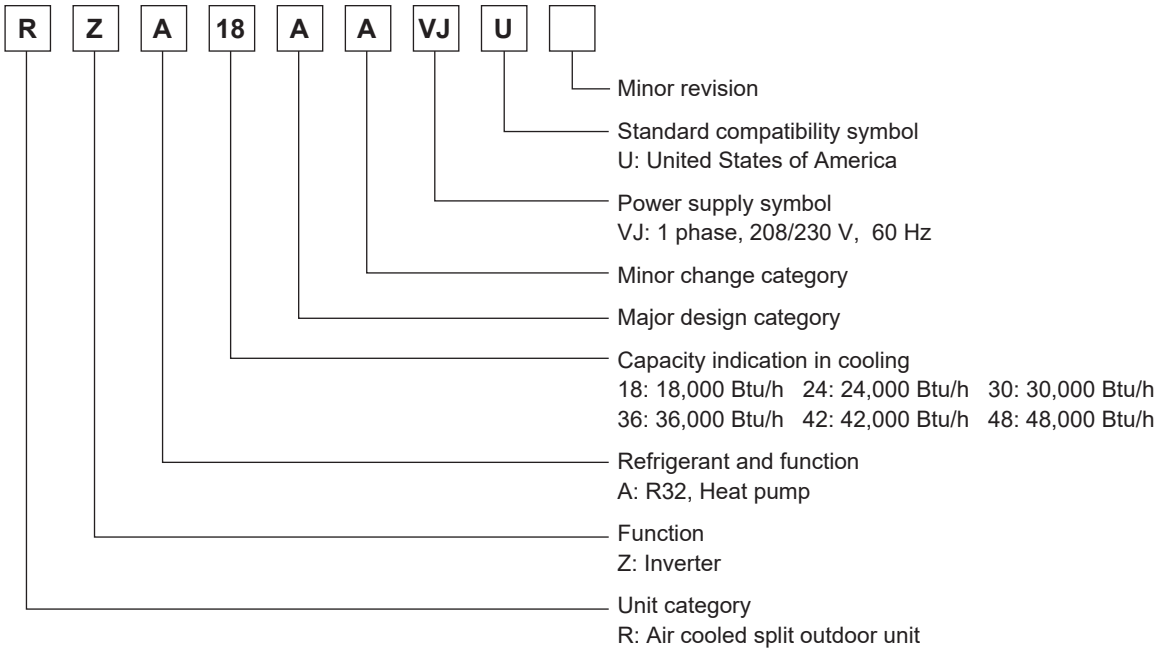
Indoor unit		Outdoor unit	Power supply intake	
Type	Model name	Model name	Indoor unit (Separate-power-supply required)	Outdoor unit
Ceiling Mounted Cassette (Round Flow with Sensing)	FCA18AAVJU	RZA18AAVJU	1 phase, 208/230 V, 60 Hz	1 phase, 208/230 V, 60 Hz
	FCA24AAVJU	RZA24AAVJU		
	FCA30AAVJU	RZA30AAVJU		
	FCA36AAVJU	RZA36AAVJU		
	FCA42AAVJU	RZA42AAVJU		
	FCA48AAVJU	RZA48AAVJU		
Wall mounted type	FAA18AAVJU	RZA18AAVJU	1 phase, 208/230 V, 60 Hz	1 phase, 208/230 V, 60 Hz
	FAA24AAVJU	RZA24AAVJU		
HSP Concealed Ducted Unit	FBA18AAVJU	RZA18AAVJU	1 phase, 208/230 V, 60 Hz	1 phase, 208/230 V, 60 Hz
	FBA24AAVJU	RZA24AAVJU		
	FBA30AAVJU	RZA30AAVJU		
	FBA36AAVJU	RZA36AAVJU		
	FBA42AAVJU	RZA42AAVJU		
	FBA48AAVJU	RZA48AAVJU		
Air Handling Unit	FTA18AAVJUD FTA18AAVJUA	RZA18AAVJU	1 phase, 208/230 V, 60 Hz	1 phase, 208/230 V, 60 Hz
	FTA24AAVJUD FTA24AAVJUA	RZA24AAVJU		
	FTA30AAVJUD FTA30AAVJUA	RZA30AAVJU		
	FTA36AAVJUD FTA36AAVJUA	RZA36AAVJU		
	FTA42AAVJUD FTA42AAVJUA	RZA42AAVJU		
	FTA48AAVJUD FTA48AAVJUA	RZA48AAVJU		

3. Nomenclature

Indoor unit



Outdoor unit (heat pump)



4. Specifications

4.1 Heat Pump

4.1.1 FCA

Ceiling Mounted Cassette (Round Flow with Sensing)

Model	Indoor unit			FCA18AAVJU	FCA24AAVJU
	Outdoor unit			RZA18AAVJU	RZA24AAVJU
Power supply				1 phase, 208/230 V, 60 Hz	1 phase, 208/230 V, 60 Hz
Cooling capacity ★1, ★4			Btu/h (kW)	18,000 (5.3)	24,000 (7.0)
Heating capacity ★2, ★4			Btu/h (kW)	20,000 (5.9)	27,000 (7.9)
Heating capacity ★3, ★4			Btu/h (kW)	12,300 (3.6)	18,000 (5.3)
EER2 (rated)			Btu/h-W	14.0	13.4
SEER2 (rated)				19.5	19.6
HSPF2 (rated)				9.2	9.1
Indoor unit				**FCA18AAVJU**	**FCA24AAVJU**
Casing/color				Galvanized steel plate	Galvanized steel plate
Dimensions	H × W × D		in. (mm)	9–11/16 × 33–1/16 × 33–1/16 (246 × 840 × 840)	9–11/16 × 33–1/16 × 33–1/16 (246 × 840 × 840)
Coil	Type			Cross fin coil	Cross fin coil
Fan	Type			Turbo fan	Turbo fan
	Motor output		W	53	53
	Airflow rate (H / M / L)		cfm (m^3/min)	742 / 618 / 477 (21.0 / 17.5 / 13.5)	777 / 618 / 477 (22.0 / 17.5 / 13.5)
	External static pressure		in.H_2O (Pa)	—	—
Air filter				—	—
Weight			lbs (kg)	51 (23)	51 (23)
Piping connections		Liquid	in. (mm)	ϕ3/8 (ϕ9.5) (flare connection)	ϕ3/8 (ϕ9.5) (flare connection)
		Gas	in. (mm)	ϕ5/8 (ϕ15.9) (flare connection)	ϕ5/8 (ϕ15.9) (flare connection)
		Drain	in. (mm)	VP25 (external dia. 1–1/4 (32), internal dia. 1 (26))	VP25 (external dia. 1–1/4 (32), internal dia. 1 (26))
Remote controller (accessory)		Wired		BRC1NRV71	BRC1NRV71
		Wireless		—	—
Decoration panel (accessory)	Model			BYCQ54GEFU / BYCQ54GEGFU	BYCQ54GEFU / BYCQ54GEGFU
	Color			Fresh white	Fresh white
	Dimensions	H × W × D	in. (mm)	2 × 37–3/8 × 37–3/8 / 5–1/8 × 37–3/8 × 37–3/8 (50 × 950 × 950 / 130 × 950 × 950)	2 × 37–3/8 × 37–3/8 / 5–1/8 × 37–3/8 × 37–3/8 (50 × 950 × 950 / 130 × 950 × 950)
	Air filter			Resin net (with mold resistance)	Resin net (with mold resistance)
	Weight		lbs (kg)	12 (5.5) / 22 (10.0)	12 (5.5) / 22 (10.0)
Outdoor unit				**RZA18AAVJU**	**RZA24AAVJU**
Casing/color				Ivory white	Ivory white
Dimensions	H × W × D		in. (mm)	34-1/4 × 43-5/16 × 18-1/8 (870 × 1,100 × 460)	34-1/4 × 43-5/16 × 18-1/8 (870 × 1,100 × 460)
Coil	Type			Cross fin coil	Cross fin coil
Compressor	Type			Hermetically sealed swing type	Hermetically sealed swing type
	Motor output		kW	1.9	2.4
Fan	Type			Propeller fan	Propeller fan
	Motor output		W	234	234
	Airflow rate		cfm (m^3/min)	3,000 (85)	3,000 (85)
Weight			lbs (kg)	234 (106)	234 (106)
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, Bimetal thermostat (external overload relay)	High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plug, Fuse, Bimetal thermostat (external overload relay)
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			R32	R32
	Charge		lbs (kg)	7.5 (3.4)	7.5 (3.4)
Ref. oil	Type			DAPHNE FW68DE	DAPHNE FW68DE
	Charge		L	1.52	1.52

Notes:

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

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Ceiling Mounted Cassette (Round Flow with Sensing), continued

Model	Indoor unit			FCA30AAVJU	FCA36AAVJU
	Outdoor unit			RZA30AAVJU	RZA36AAVJU
Power supply				1 phase, 208/230 V, 60 Hz	1 phase, 208/230 V, 60 Hz
Cooling capacity ★1, ★4			Btu/h (kW)	30,000 (8.8)	36,000 (10.6)
Heating capacity ★2, ★4			Btu/h (kW)	34,000 (10.0)	40,000 (11.7)
Heating capacity ★3, ★4			Btu/h (kW)	22,800 (6.7)	26,200 (7.7)
EER2 (rated)			Btu/h-W	13.2	12.2
SEER2 (rated)				21.0	20.0
HSPF2 (rated)				10.1	10.0
Indoor unit				**FCA30AAVJU**	**FCA36AAVJU**
Casing/color				Galvanized steel plate	Galvanized steel plate
Dimensions	H × W × D		in. (mm)	11–11/32 × 33–1/16 × 33–1/16 (288 × 840 × 840)	11–11/32 × 33–1/16 × 33–1/16 (288 × 840 × 840)
Coil	Type			Cross fin coil	Cross fin coil
Fan	Type			Turbo fan	Turbo fan
	Motor output		W	106	106
	Airflow rate (H / M / L)		cfm (m^3/min)	1,059 / 882 / 671 (30.0 / 25.0 / 19.0)	1,253 / 918 / 671 (35.5 / 26.0 / 19.0)
	External static pressure		in.H_2O (Pa)	—	—
Air filter				—	—
Weight			lbs (kg)	58 (26)	58 (26)
Piping connections		Liquid	in. (mm)	ϕ3/8 (ϕ9.5) (flare connection)	ϕ3/8 (ϕ9.5) (flare connection)
		Gas	in. (mm)	ϕ5/8 (ϕ15.9) (flare connection)	ϕ5/8 (ϕ15.9) (flare connection)
		Drain	in. (mm)	VP25 (external dia. 1–1/4 (32), internal dia. 1 (26))	VP25 (external dia. 1–1/4 (32), internal dia. 1 (26))
Remote controller (accessory)		Wired		BRC1NRV71	BRC1NRV71
		Wireless		—	—
Decoration panel (accessory)	Model			BYCQ54GEFU / BYCQ54GEGFU	BYCQ54GEFU / BYCQ54GEGFU
	Color			Fresh white	Fresh white
	Dimensions	H × W × D	in. (mm)	2 × 37–3/8 × 37–3/8 / 5–1/8 × 37–3/8 × 37–3/8 (50 × 950 × 950 / 130 × 950 × 950)	2 × 37–3/8 × 37–3/8 / 5–1/8 × 37–3/8 × 37–3/8 (50 × 950 × 950 / 130 × 950 × 950)
	Air filter			Resin net (with mold resistance)	Resin net (with mold resistance)
	Weight		lbs (kg)	12 (5.5) / 22 (10.0)	12 (5.5) / 22 (10.0)
Outdoor unit				**RZA30AAVJU**	**RZA36AAVJU**
Casing/color				Ivory white	Ivory white
Dimensions	H × W × D		in. (mm)	34-1/4 × 43-5/16 × 18-1/8 (870 × 1,100 × 460)	34-1/4 × 43-5/16 × 18-1/8 (870 × 1,100 × 460)
Coil	Type			Cross fin coil	Cross fin coil
Compressor	Type			Hermetically sealed swing type	Hermetically sealed swing type
	Motor output		kW	3.1	3.7
Fan	Type			Propeller fan	Propeller fan
	Motor output		W	234	234
	Airflow rate		cfm (m^3/min)	3,000 (85)	3,000 (85)
Weight			lbs (kg)	234 (106)	234 (106)
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, Bimetal thermostat (external overload relay)	High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plug, Fuse, Bimetal thermostat (external overload relay)
Capacity step			%	9 - 100	9 - 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			R32	R32
	Charge		lbs (kg)	7.5 (3.4)	7.5 (3.4)
Ref. oil	Type			DAPHNE FW68DE	DAPHNE FW68DE
	Charge		L	1.52	1.52

Notes:

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

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Ceiling Mounted Cassette (Round Flow with Sensing), continued

Model	Indoor unit			FCA42AAVJU	FCA48AAVJU
	Outdoor unit			RZA42AAVJU	RZA48AAVJU
Power supply				1 phase, 208/230 V, 60 Hz	1 phase, 208/230 V, 60 Hz
Cooling capacity ★1, ★4			Btu/h (kW)	42,000 (12.3)	48,000 (14.1)
Heating capacity ★2, ★4			Btu/h (kW)	47,000 (13.8)	54,000 (15.8)
Heating capacity ★3, ★4			Btu/h (kW)	31,200 (9.1)	34,800 (10.2)
EER2 (rated)			Btu/h-W	10.5	8.8
SEER2 (rated)				18.9	18.0
HSPF2 (rated)				10.2	9.7
Indoor unit				**FCA42AAVJU**	**FCA48AAVJU**
Casing/color				Galvanized steel plate	Galvanized steel plate
Dimensions	H × W × D		in. (mm)	11–11/32 × 33–1/16 × 33–1/16 (288 × 840 × 840)	11–11/32 × 33–1/16 × 33–1/16 (288 × 840 × 840)
Coil	Type			Cross fin coil	Cross fin coil
Fan	Type			Turbo fan	Turbo fan
	Motor output		W	106	106
	Airflow rate (H / M / L)		cfm (m^3/min)	1,253 / 971 / 741 (35.5 / 27.5 / 21.0)	1,253 / 971 / 741 (35.5 / 27.5 / 21.0)
	External static pressure		in.H_2O (Pa)	—	—
Air filter				—	—
Weight			lbs (kg)	58 (26)	58 (26)
Piping connections		Liquid	in. (mm)	ϕ3/8 (ϕ9.5) (flare connection)	ϕ3/8 (ϕ9.5) (flare connection)
		Gas	in. (mm)	ϕ5/8 (ϕ15.9) (flare connection)	ϕ5/8 (ϕ15.9) (flare connection)
		Drain	in. (mm)	VP25 (external dia. 1–1/4 (32), internal dia. 1 (26))	VP25 (external dia. 1–1/4 (32), internal dia. 1 (26))
Remote controller (accessory)		Wired		BRC1NRV71	BRC1NRV71
		Wireless		—	—
Decoration panel (accessory)	Model			BYCQ54GEFU / BYCQ54GEGFU	BYCQ54GEFU / BYCQ54GEGFU
	Color			Fresh white	Fresh white
	Dimensions	H × W × D	in. (mm)	2 × 37–3/8 × 37–3/8 / 5–1/8 × 37–3/8 × 37–3/8 (50 × 950 × 950 / 130 × 950 × 950)	2 × 37–3/8 × 37–3/8 / 5–1/8 × 37–3/8 × 37–3/8 (50 × 950 × 950 / 130 × 950 × 950)
	Air filter			Resin net (with mold resistance)	Resin net (with mold resistance)
	Weight		lbs (kg)	12 (5.5) / 22 (10.0)	12 (5.5) / 22 (10.0)
Outdoor unit				**RZA42AAVJU**	**RZA48AAVJU**
Casing/color				Ivory white	Ivory white
Dimensions	H × W × D		in. (mm)	34-1/4 × 43-5/16 × 18-1/8 (870 × 1,100 × 460)	34-1/4 × 43-5/16 × 18-1/8 (870 × 1,100 × 460)
Coil	Type			Cross fin coil	Cross fin coil
Compressor	Type			Hermetically sealed swing type	Hermetically sealed swing type
	Motor output		kW	4.2	5.1
Fan	Type			Propeller fan	Propeller fan
	Motor output		W	234	234
	Airflow rate		cfm (m^3/min)	3,000 (85)	3,000 (85)
Weight			lbs (kg)	234 (106)	234 (106)
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, Bimetal thermostat (external overload relay)	High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plug, Fuse, Bimetal thermostat (external overload relay)
Capacity step			%	9 - 100	9 - 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			R32	R32
	Charge		lbs (kg)	7.5 (3.4)	7.5 (3.4)
Ref. oil	Type			DAPHNE FW68DE	DAPHNE FW68DE
	Charge		L	1.52	1.52

Notes:

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

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4.1.2 FAA
Wall Mounted Type

Model	Indoor unit			FAA18AAVJU	FAA24AAVJU
	Outdoor unit			RZA18AAVJU	RZA24AAVJU
Power supply				1 phase, 208/230 V, 60 Hz	1 phase, 208/230 V, 60 Hz
Cooling capacity ★1, ★4			Btu/h (kW)	18,000 (5.3)	24,000 (7.0)
Heating capacity ★2, ★4			Btu/h (kW)	20,000 (5.9)	27,000 (7.9)
Heating capacity ★3, ★4			Btu/h (kW)	13,800 (4.0)	20,000 (5.9)
EER2 (rated)			Btu/h-W	12.8	11.4
SEER2 (rated)				17.8	18.2
HSPF2 (rated)				7.6	7.8
Indoor unit				**FAA18AAVJU**	**FAA24AAVJU**
Casing/Color				Fresh white (6.5Y9.5/0.5)	Fresh white (6.5Y9.5/0.5)
Dimensions	H × W × D		in. (mm)	11-5/8 × 44-1/8 × 9-3/4 (295 × 1,120 × 247)	11-5/8 × 44-1/8 × 9-3/4 (295 × 1,120 × 247)
Coil	Type			Cross fin coil	Cross fin coil
Fan	Type			Cross flow fan	Cross flow fan
	Motor output		W	58	58
	Airflow rate (H / M / L)	Cooling	cfm (m³/min)	512 / 423 / 353 (14.5 / 12.0 / 10.0)	670 / 565 / 476 (19.0 / 16.0 / 13.5)
		Heating	cfm (m³/min)	512 / 476 / 423 (14.5 / 13.5 / 12.0)	670 / 565 / 476 (19.0 / 16.0 / 13.5)
	External static pressure		in. H_2O	—	—
Air filter				Resin net (washable)	Resin net (washable)
Weight			lbs (kg)	35.3 (16)	35.3 (16)
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)	External Dia. ϕ5/8 (ϕ16)	External Dia. ϕ5/8 (ϕ16)
Remote controller (accessory)		Wired		BRC1NRV71	BRC1NRV71
		Wireless		—	—
Outdoor unit				**RZA18AAVJU**	**RZA24AAVJU**
Casing/color				Ivory white	Ivory white
Dimensions	H × W × D		in. (mm)	34-1/4 × 43-5/16 × 18-1/8 (870 × 1,100 × 460)	34-1/4 × 43-5/16 × 18-1/8 (870 × 1,100 × 460)
Coil	Type			Cross fin coil	Cross fin coil
Compressor	Type			Hermetically sealed swing type	Hermetically sealed swing type
	Motor output		kW	1.9	2.4
Fan	Type			Propeller fan	Propeller fan
	Motor output		W	234	234
	Airflow rate		cfm (m³/min)	3,000 (85)	3,000 (85)
Weight			lbs (kg)	234 (106)	234 (106)
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, Bimetal thermostat (external overload relay)	High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plug, Fuse, Bimetal thermostat (external overload relay)
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			R32	R32
	Charge		lbs (kg)	7.5 (3.4)	7.5 (3.4)
Ref. oil	Type			DAPHNE FW68DE	DAPHNE FW68DE
	Charge		L	1.52	1.52

Notes:

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

C: 4D158359

4.1.3 FBA

HSP Concealed Ducted Unit

Model	Indoor unit			FBA18AAVJU	FBA24AAVJU
	Outdoor unit			RZA18AAVJU	RZA24AAVJU
Power supply				1 phase, 208/230 V, 60 Hz	1 phase, 208/230 V, 60 Hz
Cooling capacity ★1, ★4			Btu/h (kW)	18,000 (5.3)	24,000 (7.0)
Heating capacity ★2, ★4			Btu/h (kW)	20,000 (5.9)	27,000 (7.9)
Heating capacity ★3, ★4			Btu/h (kW)	14,000 (4.1)	19,000 (5.6)
EER2 (rated)			Btu/h-W	13.5	11.7
SEER2 (rated)				16.3	16.2
HSPF2 (rated)				8.5	9.3
Indoor unit				**FBA18AAVJU**	**FBA24AAVJU**
Casing/color				Galvanized steel plate	Galvanized steel plate
Dimensions	H × W × D		in. (mm)	9–11/16 × 39–3/8 × 31–1/2 (245 × 1,000 × 800)	9–11/16 × 39–3/8 × 31–1/2 (245 × 1,000 × 800)
Coil	Type			Cross fin coil	Cross fin coil
Fan	Type			Sirocco fan	Sirocco fan
	Motor output		W	163	163
	Airflow rate (H / M / L)		cfm (m^3/min)	635 / 565 / 512 (18.0 / 16.0 / 14.5)	742 / 635 / 565 (21.0 / 18.0 / 16.0)
	External static pressure		in.H_2O (Pa)	Standard 0.40 <0.80-0.20> (100 <200-50>) ★5	Standard 0.40 <0.80-0.20> (100 <200-50>) ★5
Air filter				— ★6	— ★6
Weight			lbs (kg)	82 (37)	84 (38)
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		BRC1NRV71	BRC1NRV71
		Wireless		—	—
Outdoor unit				**RZA18AAVJU**	**RZA24AAVJU**
Casing/color				Ivory white	Ivory white
Dimensions	H × W × D		in. (mm)	34-1/4 × 43-5/16 × 18-1/8 (870 × 1,100 × 460)	34-1/4 × 43-5/16 × 18-1/8 (870 × 1,100 × 460)
Coil	Type			Cross fin coil	Cross fin coil
Compressor	Type			Hermetically sealed swing type	Hermetically sealed swing type
	Motor output		kW	1.9	2.4
Fan	Type			Propeller fan	Propeller fan
	Motor output		W	234	234
	Airflow rate		cfm (m^3/min)	3,000 (85)	3,000 (85)
Weight			lbs (kg)	234 (106)	234 (106)
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, Bimetal thermostat (external overload relay)	High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plug, Fuse, Bimetal thermostat (external overload relay)
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			R32	R32
	Charge		lbs (kg)	7.5 (3.4)	7.5 (3.4)
Ref. oil	Type			DAPHNE FW68DE	DAPHNE FW68DE
	Charge		L	1.52	1.52

Notes:

★1. Indoor temp.: 80°FDB (26.7°CDB), 67°FWB (19.4°CWB) / Outdoor temp.: 95°FDB (35.0°CDB) / Equivalent piping length: 25 ft. (7.6 m), height difference: 0 ft. (0 m).
★2. Indoor temp.: 70°FDB (21.1°CDB) / Outdoor temp.: 47°FDB (8.3°CDB), 43°FWB (6.1°CWB) / Equivalent piping length: 25 ft. (7.6 m), height difference: 0 ft. (0 m).
★3. Indoor temp.: 70°FDB (21.1°CDB) / Outdoor temp.: 17°FDB (−8.3°CDB), 15°FWB (−9.4°CWB) / Equivalent piping length: 25 ft. (7.6 m), height difference: 0 ft. (0 m).
★4. Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.
★5. External static pressure is changeable in 14 stages within the range in parentheses 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: 4D154510B

HSP Concealed Ducted Unit, continued

Model	Indoor unit			FBA30AAVJU	FBA36AAVJU
	Outdoor unit			RZA30AAVJU	RZA36AAVJU
Power supply				1 phase, 208/230 V, 60 Hz	1 phase, 208/230 V, 60 Hz
Cooling capacity ★1, ★4			Btu/h (kW)	30,000 (8.8)	36,000 (10.6)
Heating capacity ★2, ★4			Btu/h (kW)	34,000 (10.0)	40,000 (11.7)
Heating capacity ★3, ★4			Btu/h (kW)	24,000 (7.0)	28,000 (8.2)
EER2 (rated)			Btu/h-W	12.4	11.8
SEER2 (rated)				16.5	16.9
HSPF2 (rated)				8.9	8.8
Indoor unit				**FBA30AAVJU**	**FBA36AAVJU**
Casing/color				Galvanized steel plate	Galvanized steel plate
Dimensions	H × W × D		in. (mm)	9-11/16 × 55-1/8 × 31-1/2 (245 × 1,400 × 800)	9-11/16 × 55-1/8 × 31-1/2 (245 × 1,400 × 800)
Coil	Type			Cross fin coil	Cross fin coil
Fan	Type			Sirocco fan	Sirocco fan
	Motor output		W	390	390
	Airflow rate (H / M / L)		cfm (m^3/min)	1,094 / 936 / 795 (31.0 / 26.5 / 22.5)	1,130 / 953 / 795 (32.0 / 27.0 / 22.5)
	External static pressure		in.H_2O (Pa)	Standard 0.40 <0.80-0.20> (100 <200-50>) ★5	Standard 0.40 <0.80-0.20> (100 <200-50>) ★5
Air filter				— ★6	— ★6
Weight			lbs (kg)	101 (46)	101 (46)
Piping connections		Liquid	in. (mm)	ϕ3/8 (ϕ9.5) (flare connection)	ϕ3/8 (ϕ9.5) (flare connection)
		Gas	in. (mm)	ϕ5/8 (ϕ15.9) (flare connection)	ϕ5/8 (ϕ15.9) (flare connection)
		Drain	in. (mm)	VP25 (external dia. 1–1/4 (32), internal dia. 1 (26))	VP25 (external dia. 1–1/4 (32), internal dia. 1 (26))
Remote controller (accessory)		Wired		BRC1NRV71	BRC1NRV71
		Wireless		—	—
Outdoor unit				**RZA30AAVJU**	**RZA36AAVJU**
Casing/color				Ivory white	Ivory white
Dimensions	H × W × D		in. (mm)	34-1/4 × 43-5/16 × 18-1/8 (870 × 1,100 × 460)	34-1/4 × 43-5/16 × 18-1/8 (870 × 1,100 × 460)
Coil	Type			Cross fin coil	Cross fin coil
Compressor	Type			Hermetically sealed swing type	Hermetically sealed swing type
	Motor output		kW	3.1	3.7
Fan	Type			Propeller fan	Propeller fan
	Motor output		W	234	234
	Airflow rate		cfm (m^3/min)	3,000 (85)	3,000 (85)
Weight			lbs (kg)	234 (106)	234 (106)
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, Bimetal thermostat (external overload relay)	High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plug, Fuse, Bimetal thermostat (external overload relay)
Capacity step			%	9 - 100	9 - 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			R32	R32
	Charge		lbs (kg)	7.5 (3.4)	7.5 (3.4)
Ref. oil	Type			DAPHNE FW68DE	DAPHNE FW68DE
	Charge		L	1.52	1.52

Notes:

★1. Indoor temp.: 80°FDB (26.7°CDB), 67°FWB (19.4°CWB) / Outdoor temp.: 95°FDB (35.0°CDB) / Equivalent piping length: 25 ft. (7.6 m), height difference: 0 ft. (0 m).
★2. Indoor temp.: 70°FDB (21.1°CDB) / Outdoor temp.: 47°FDB (8.3°CDB), 43°FWB (6.1°CWB) / Equivalent piping length: 25 ft. (7.6 m), height difference: 0 ft. (0 m).
★3. Indoor temp.: 70°FDB (21.1°CDB) / Outdoor temp.: 17°FDB (−8.3°CDB), 15°FWB (−9.4°CWB) / Equivalent piping length: 25 ft. (7.6 m), height difference: 0 ft. (0 m).
★4. Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.
★5. External static pressure is changeable in 14 stages within the range in parentheses 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: 4D154511B

HSP Concealed Ducted Unit, continued

Model	Indoor unit			FBA42AAVJU	FBA48AAVJU
	Outdoor unit			RZA42AAVJU	RZA48AAVJU
Power supply				1 phase, 208/230 V, 60 Hz	1 phase, 208/230 V, 60 Hz
Cooling capacity ★1, ★4			Btu/h (kW)	40,500 (11.9)	48,000 (14.1)
Heating capacity ★2, ★4			Btu/h (kW)	47,000 (13.8)	54,000 (15.8)
Heating capacity ★3, ★4			Btu/h (kW)	32,400 (9.5)	38,000 (11.1)
EER2 (rated)			Btu/h-W	10.5	8.9
SEER2 (rated)				15.6	15.3
HSPF2 (rated)				9.5	9.3
Indoor unit				**FBA42AAVJU**	**FBA48AAVJU**
Casing/color				Galvanized steel plate	Galvanized steel plate
Dimensions	H × W × D		in. (mm)	9-11/16 × 55-1/8 × 31-1/2 (245 × 1,400 × 800)	9-11/16 × 55-1/8 × 31-1/2 (245 × 1,400 × 800)
Coil	Type			Cross fin coil	Cross fin coil
Fan	Type			Sirocco fan	Sirocco fan
	Motor output		W	390	390
	Airflow rate (H / M / L)		cfm (m^3/min)	1,377 / 1,130 / 918 (39.0 / 32.0 / 26.0)	1,377 / 1,130 / 918 (39.0 / 32.0 / 26.0)
	External static pressure		in.H_2O (Pa)	Standard 0.40 <0.80-0.20> (100 <200-50>) ★5	Standard 0.40 <0.80-0.20> (100 <200-50>) ★5
Air filter				— ★6	— ★6
Weight			lbs (kg)	106 (48)	106 (48)
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		BRC1NRV71	BRC1NRV71
		Wireless		—	—
Outdoor unit				**RZA42AAVJU**	**RZA48AAVJU**
Casing/color				Ivory white	Ivory white
Dimensions	H × W × D		in. (mm)	34-1/4 × 43-5/16 × 18-1/8 (870 × 1,100 × 460)	34-1/4 × 43-5/16 × 18-1/8 (870 × 1,100 × 460)
Coil	Type			Cross fin coil	Cross fin coil
Compressor	Type			Hermetically sealed swing type	Hermetically sealed swing type
	Motor output		kW	4.2	5.1
Fan	Type			Propeller fan	Propeller fan
	Motor output		W	234	234
	Airflow rate		cfm (m^3/min)	3,000 (85)	3,000 (85)
Weight			lbs (kg)	234 (106)	234 (106)
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, Bimetal thermostat (external overload relay)	High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plug, Fuse, Bimetal thermostat (external overload relay)
Capacity step			%	9 - 100	9 - 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			R32	R32
	Charge		lbs (kg)	7.5 (3.4)	7.5 (3.4)
Ref. oil	Type			DAPHNE FW68DE	DAPHNE FW68DE
	Charge		L	1.52	1.52

Notes:

★1. Indoor temp.: 80°FDB (26.7°CDB), 67°FWB (19.4°CWB) / Outdoor temp.: 95°FDB (35.0°CDB) / Equivalent piping length: 25 ft. (7.6 m), height difference: 0 ft. (0 m).
★2. Indoor temp.: 70°FDB (21.1°CDB) / Outdoor temp.: 47°FDB (8.3°CDB), 43°FWB (6.1°CWB) / Equivalent piping length: 25 ft. (7.6 m), height difference: 0 ft. (0 m).
★3. Indoor temp.: 70°FDB (21.1°CDB) / Outdoor temp.: 17°FDB (−8.3°CDB), 15°FWB (−9.4°CWB) / Equivalent piping length: 25 ft. (7.6 m), height difference: 0 ft. (0 m).
★4. Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.
★5. External static pressure is changeable in 14 stages within the range in parentheses 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: 4D154511B

4.1.4 FTA

Air Handling Unit

Model	Indoor unit	with factory disconnect		FTA18AAVJUD	FTA24AAVJUD
		without factory disconnect		FTA18AAVJUA	FTA24AAVJUA
	Outdoor unit			RZA18AAVJU	RZA24AAVJU
Power supply				1 phase, 208/230 V, 60 Hz	1 phase, 208/230 V, 60 Hz
Cooling capacity ★1, ★4			Btu/h (kW)	17,200 (5.0)	24,000 (7.0)
Heating capacity ★2, ★4			Btu/h (kW)	21,000 (6.2)	27,000 (7.9)
Heating capacity ★3, ★4			Btu/h (kW)	13,700 (4.0)	19,400 (5.7)
EER2 (rated)			Btu/h-W	11.7	11.7
SEER2 (rated)				17.5	17.0
HSPF2 (rated)				9.0	9.0
Indoor unit		**with factory disconnect**		**FTA18AAVJUD**	**FTA24AAVJUD**
		without factory disconnect		**FTA18AAVJUA**	**FTA24AAVJUA**
Casing/color				Daikin Slate Gray	Daikin Slate Gray
Dimensions	H × W × D		in. (mm)	45 × 17.5 × 21 (1,143 × 445 × 533)	45 × 17.5 × 21 (1,143 × 445 × 533)
Coil	Type			Cross fin coil	Cross fin coil
Fan	Type			Sirocco FC Centrifugal	Sirocco FC Centrifugal
	Motor output		HP	1/2	1/2
	Airflow rate (H / M / L)		cfm (m^3/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		BRC1NRV71	BRC1NRV71
		Wireless		—	—
Outdoor unit				**RZA18AAVJU**	**RZA24AAVJU**
Casing/color				Ivory white	Ivory white
Dimensions	H × W × D		in. (mm)	34-1/4 × 43-5/16 × 18-1/8 (870 × 1,100 × 460)	34-1/4 × 43-5/16 × 18-1/8 (870 × 1,100 × 460)
Coil	Type			Cross fin coil	Cross fin coil
Compressor	Type			Hermetically sealed swing type	Hermetically sealed swing type
	Motor output		kW	1.9	2.4
Fan	Type			Propeller fan	Propeller fan
	Motor output		W	234	234
	Airflow rate		cfm (m^3/min)	3,000 (85)	3,000 (85)
Weight			lbs (kg)	234 (106)	234 (106)
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, Bimetal thermostat (external overload relay)	High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plug, Fuse, Bimetal thermostat (external overload relay)
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			R32	R32
	Charge		lbs (kg)	7.5 (3.4)	7.5 (3.4)
Ref. oil	Type			DAPHNE FW68DE	DAPHNE FW68DE
	Charge		L	1.52	1.52

Notes:

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

Air Handling Unit, continued

Model	Indoor unit	with factory disconnect		FTA30AAVJUD	FTA36AAVJUD
		without factory disconnect		FTA30AAVJUA	FTA36AAVJUA
	Outdoor unit			RZA30AAVJU	RZA36AAVJU
Power supply				1 phase, 208/230 V, 60 Hz	1 phase, 208/230 V, 60 Hz
Cooling capacity ★1, ★4			Btu/h (kW)	29,400 (8.6)	35,000 (10.3)
Heating capacity ★2, ★4			Btu/h (kW)	35,000 (10.3)	40,500 (11.9)
Heating capacity ★3, ★4			Btu/h (kW)	23,800 (7.0)	27,600 (8.1)
EER2 (rated)			Btu/h-W	11.0	10.0
SEER2 (rated)				16.8	16.8
HSPF2 (rated)				9.0	9.0
Indoor unit		**with factory disconnect**		**FTA30AAVJUD**	**FTA36AAVJUD**
		without factory disconnect		**FTA30AAVJUA**	**FTA36AAVJUA**
Casing/color				Daikin Slate Gray	Daikin Slate Gray
Dimensions	H × W × D		in. (mm)	45 × 17.5 × 21 (1,143 × 445 × 533)	45 × 17.5 × 21 (1,143 × 445 × 533)
Coil	Type			Cross fin coil	Cross fin coil
Fan	Type			Sirocco FC Centrifugal	Sirocco FC Centrifugal
	Motor output		HP	1/2	1/2
	Airflow rate (H / M / L)		cfm (m³/min)	1,000 / 850 / 700 (28.3 / 24.1 / 19.8)	1,050 / 900 / 750 (29.7 / 25.5 / 21.2)
	External static pressure		in. w.g.	0.1” - 0.9”	0.1” - 0.9”
Air filter				— ★5	— ★5
Weight			lbs (kg)	118 (53.5)	118 (53.5)
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		BRC1NRV71	BRC1NRV71
		Wireless		—	—
Outdoor unit				**RZA30AAVJU**	**RZA36AAVJU**
Casing/color				Ivory white	Ivory white
Dimensions	H × W × D		in. (mm)	34-1/4 × 43-5/16 × 18-1/8 (870 × 1,100 × 460)	34-1/4 × 43-5/16 × 18-1/8 (870 × 1,100 × 460)
Coil	Type			Cross fin coil	Cross fin coil
Compressor	Type			Hermetically sealed swing type	Hermetically sealed swing type
	Motor output		kW	3.1	3.7
Fan	Type			Propeller fan	Propeller fan
	Motor output		W	234	234
	Airflow rate		cfm (m³/min)	3,000 (85)	3,000 (85)
Weight			lbs (kg)	234 (106)	234 (106)
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, Bimetal thermostat (external overload relay)	High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plug, Fuse, Bimetal thermostat (external overload relay)
Capacity step			%	9 - 100	9 - 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			R32	R32
	Charge		lbs (kg)	7.5 (3.4)	7.5 (3.4)
Ref. oil	Type			DAPHNE FW68DE	DAPHNE FW68DE
	Charge		L	1.52	1.52

Notes:

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

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

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

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

★5. Air filter is not standard accessory (field supply parts), but please mount it in the duct system of the suction side.

Air Handling Unit, continued

Model	Indoor unit	with factory disconnect		FTA42AAVJUD	FTA48AAVJUD
		without factory disconnect		FTA42AAVJUA	FTA48AAVJUA
	Outdoor unit			RZA42AAVJU	RZA48AAVJU
Power supply				1 phase, 208/230 V, 60 Hz	1 phase, 208/230 V, 60 Hz
Cooling capacity ★1, ★4			Btu/h (kW)	40,500 (11.9)	47,000 (13.8)
Heating capacity ★2, ★4			Btu/h (kW)	48,000 (14.1)	55,000 (16.1)
Heating capacity ★3, ★4			Btu/h (kW)	32,500 (9.5)	36,800 (10.8)
EER2 (rated)			Btu/h-W	10.0	8.9
SEER2 (rated)				16.0	15.2
HSPF2 (rated)				9.0	9.0
Indoor unit		**with factory disconnect**		**FTA42AAVJUD**	**FTA48AAVJUD**
		without factory disconnect		**FTA42AAVJUA**	**FTA48AAVJUA**
Casing/color				Daikin Slate Gray	Daikin Slate Gray
Dimensions	H × W × D		in. (mm)	53.43 × 21 × 21 (1,357 × 533 × 533)	53.43 × 21 × 21 (1,357 × 533 × 533)
Coil	Type			Cross fin coil	Cross fin coil
Fan	Type			Sirocco FC Centrifugal	Sirocco FC Centrifugal
	Motor output		HP	3/4	3/4
	Airflow rate (H / M / L)		cfm (m^3/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)	143 (64.9)	143 (64.9)
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		BRC1NRV71	BRC1NRV71
		Wireless		—	—
Outdoor unit				**RZA42AAVJU**	**RZA48AAVJU**
Casing/color				Ivory white	Ivory white
Dimensions	H × W × D		in. (mm)	34-1/4 × 43-5/16 × 18-1/8 (870 × 1,100 × 460)	34-1/4 × 43-5/16 × 18-1/8 (870 × 1,100 × 460)
Coil	Type			Cross fin coil	Cross fin coil
Compressor	Type			Hermetically sealed swing type	Hermetically sealed swing type
	Motor output		kW	4.2	5.1
Fan	Type			Propeller fan	Propeller fan
	Motor output		W	234	234
	Airflow rate		cfm (m^3/min)	3,000 (85)	3,000 (85)
Weight			lbs (kg)	234 (106)	234 (106)
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, Bimetal thermostat (external overload relay)	High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plug, Fuse, Bimetal thermostat (external overload relay)
Capacity step			%	9 - 100	9 - 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			R32	R32
	Charge		lbs (kg)	7.5 (3.4)	7.5 (3.4)
Ref. oil	Type			DAPHNE FW68DE	DAPHNE FW68DE
	Charge		L	1.52	1.52

Notes:

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

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

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

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

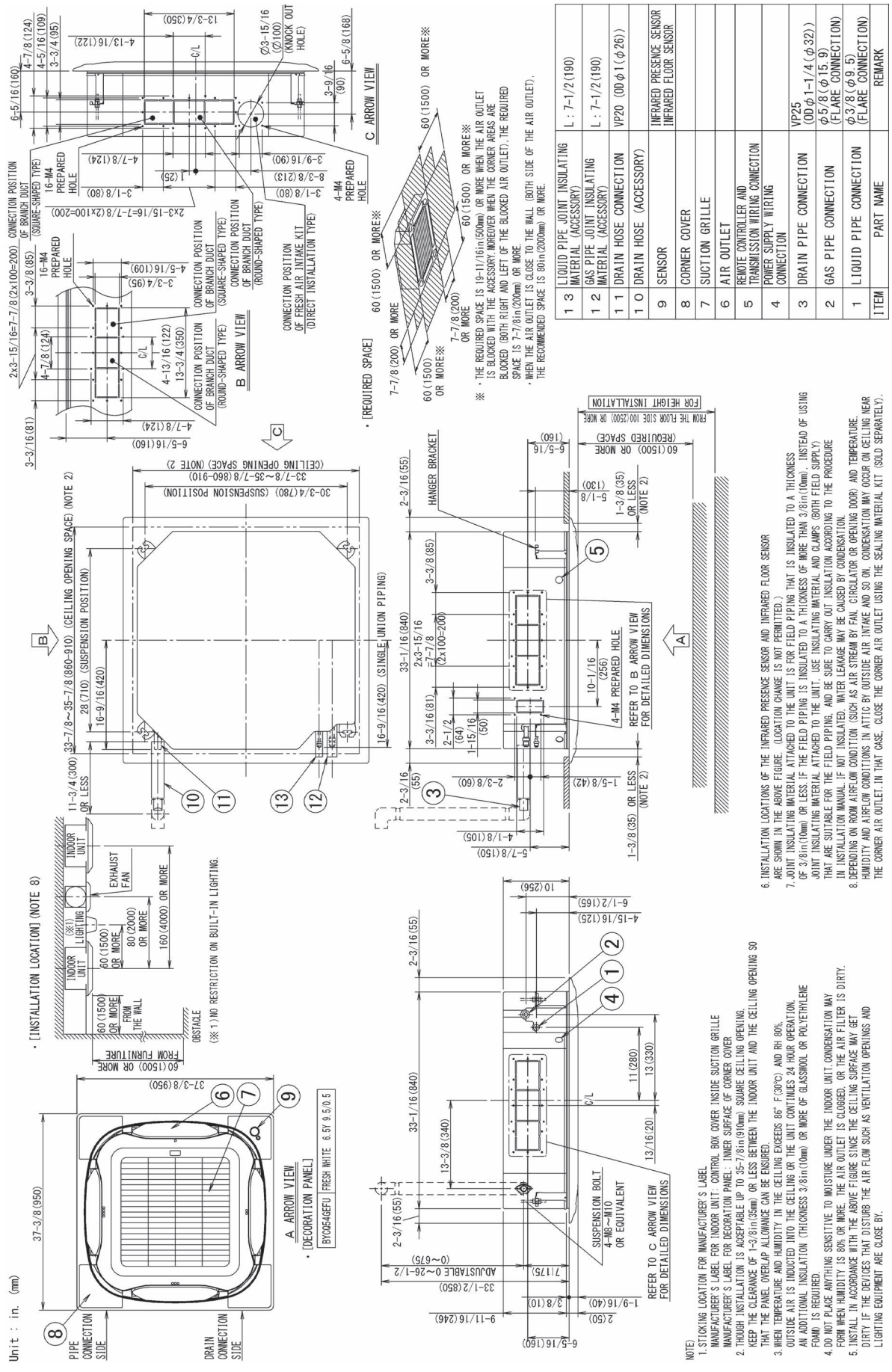
★5. Air filter is not standard accessory (field supply parts), but please mount it in the duct system of the suction side.

5. Dimensions

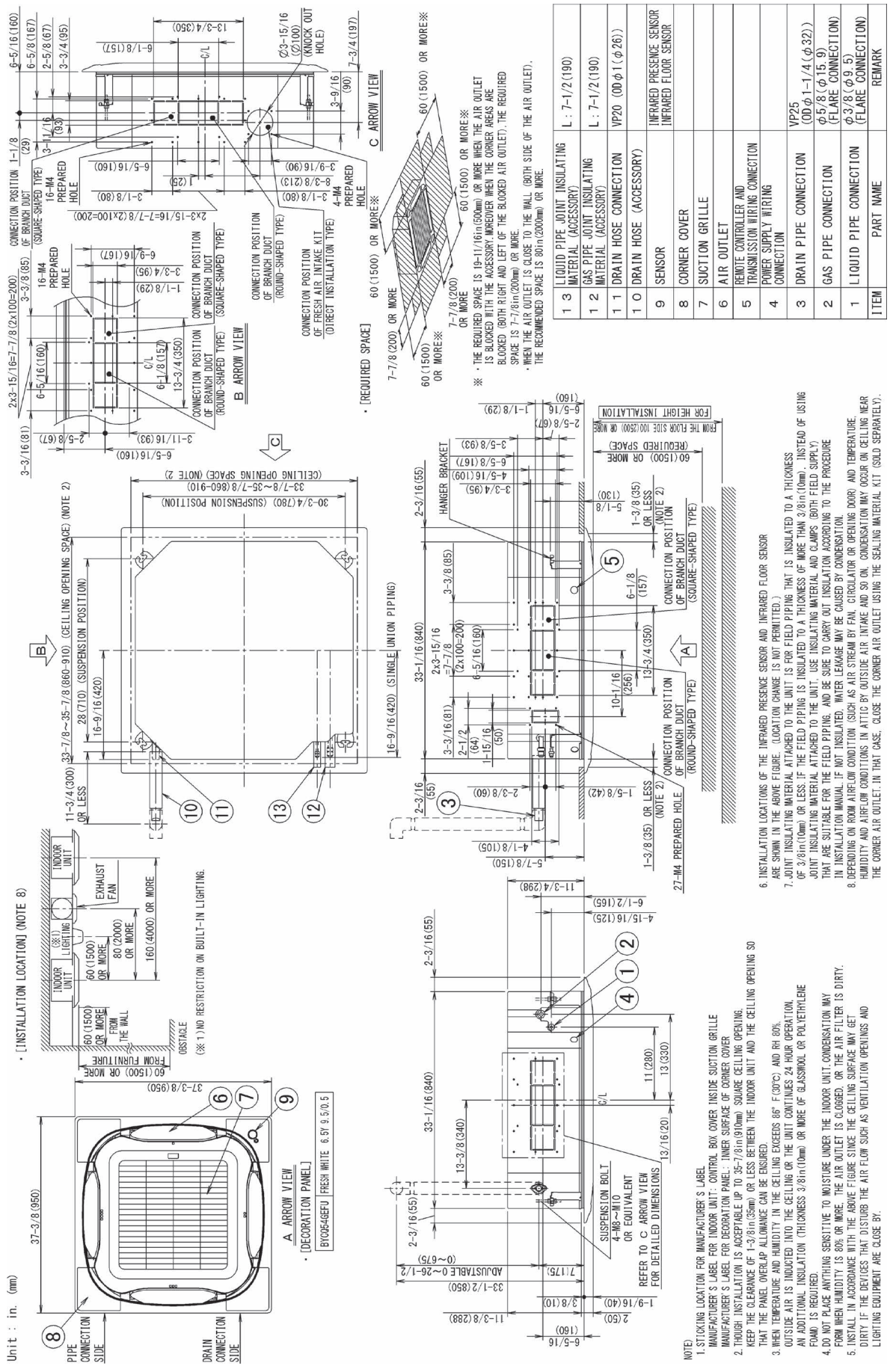
5.1 Indoor Unit

5.1.1 FCA (with Standard Sensing Decoration Panel)

FCA18 - 24AAVJU (with standard sensing decoration panel)

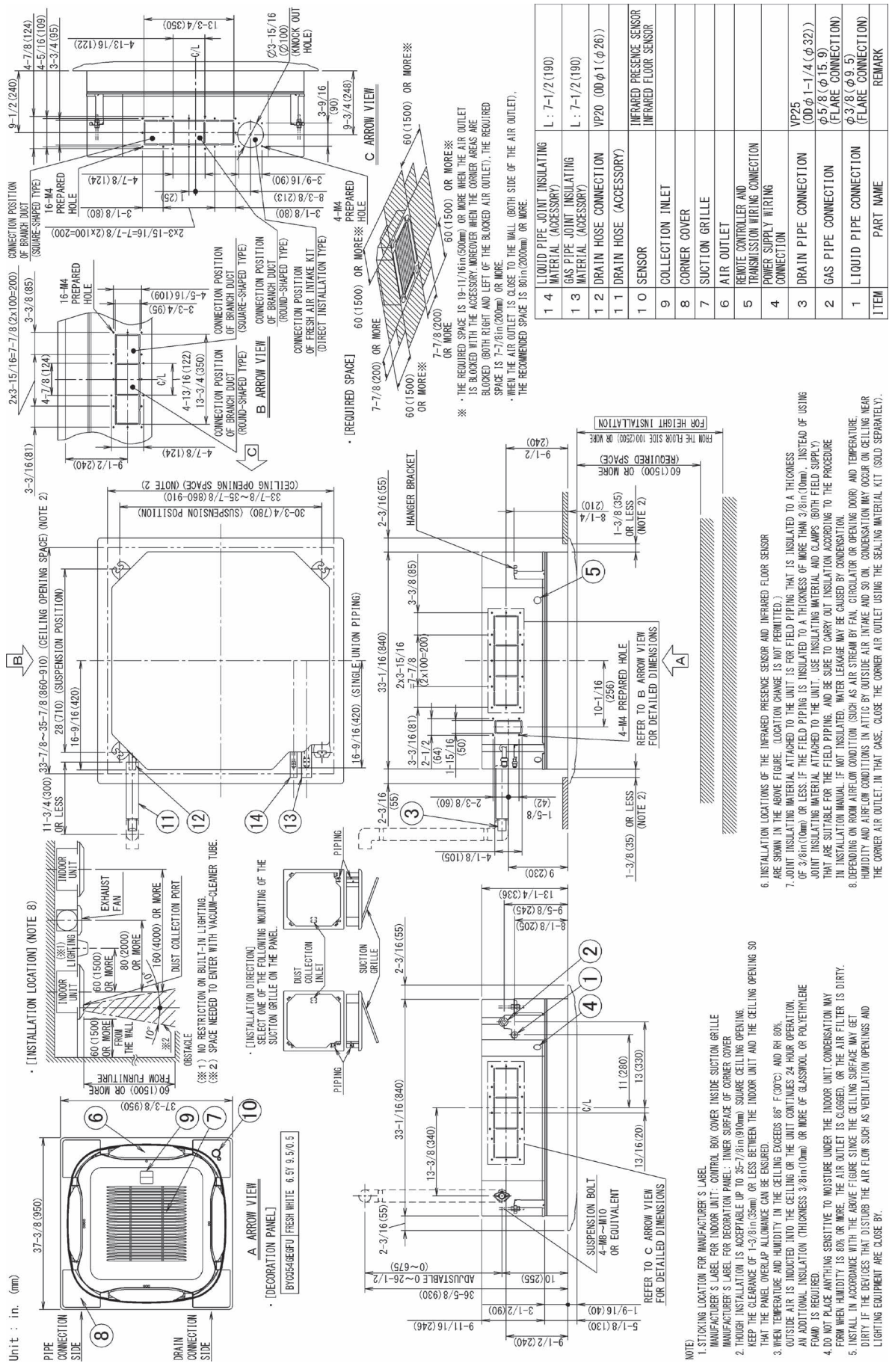


FCA30 - 48AAVJU (with standard sensing decoration panel)



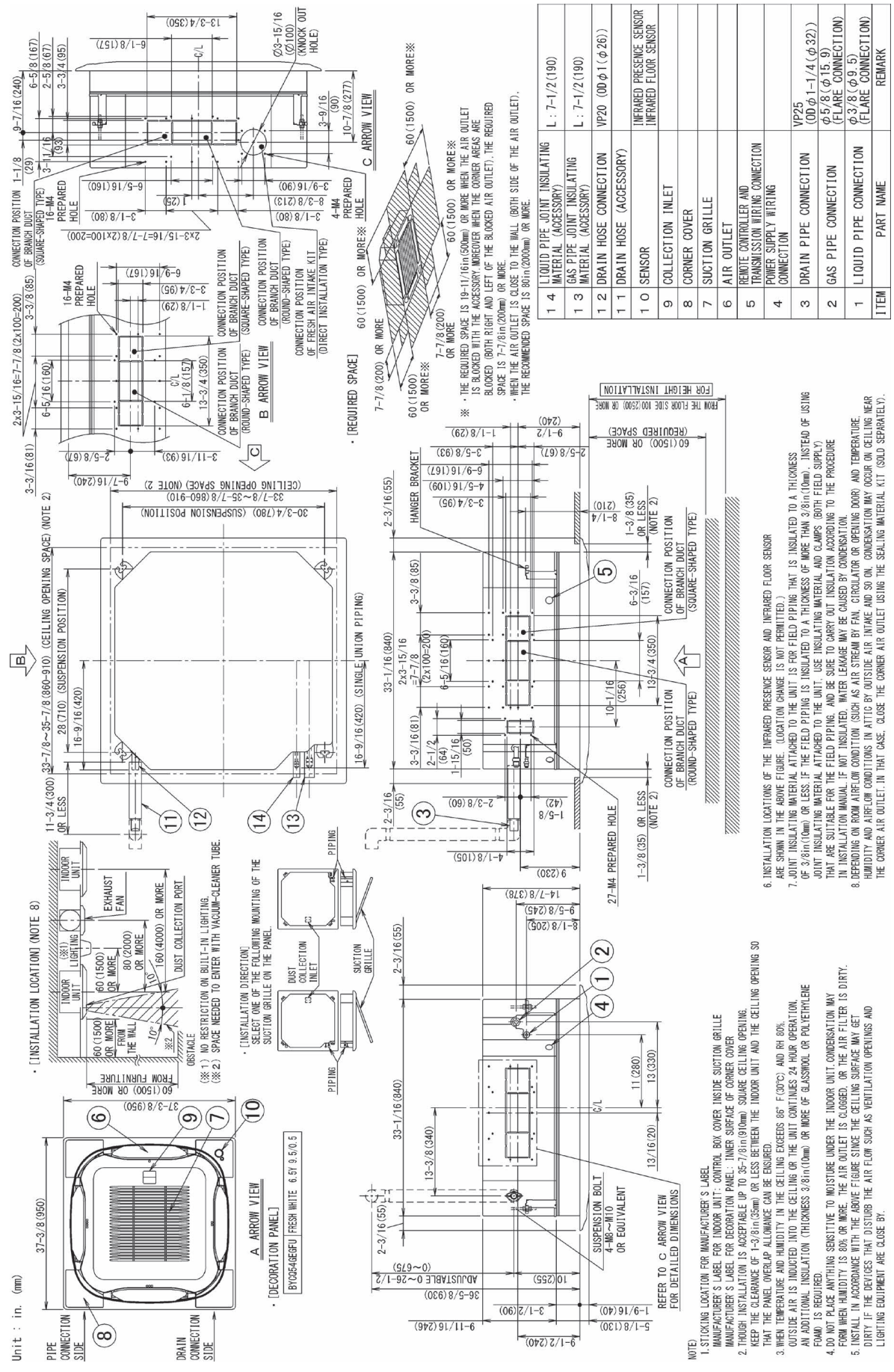
5.1.2 FCA (with Self-Cleaning Filter Panel)

FCA18 - 24AAVJU (with self-cleaning filter panel)



3D151711

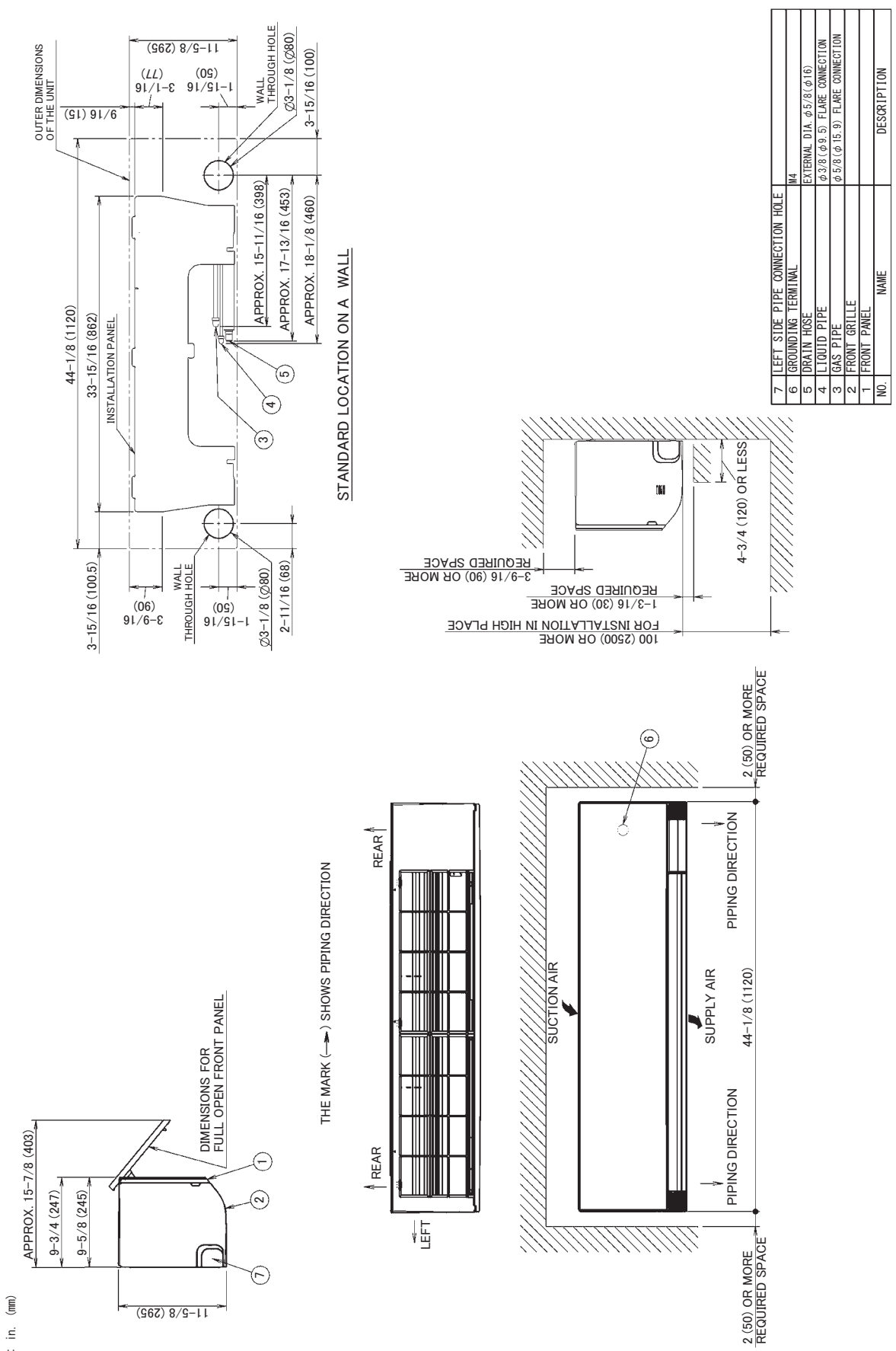
FCA30 - 48AAVJU (with self-cleaning filter panel)



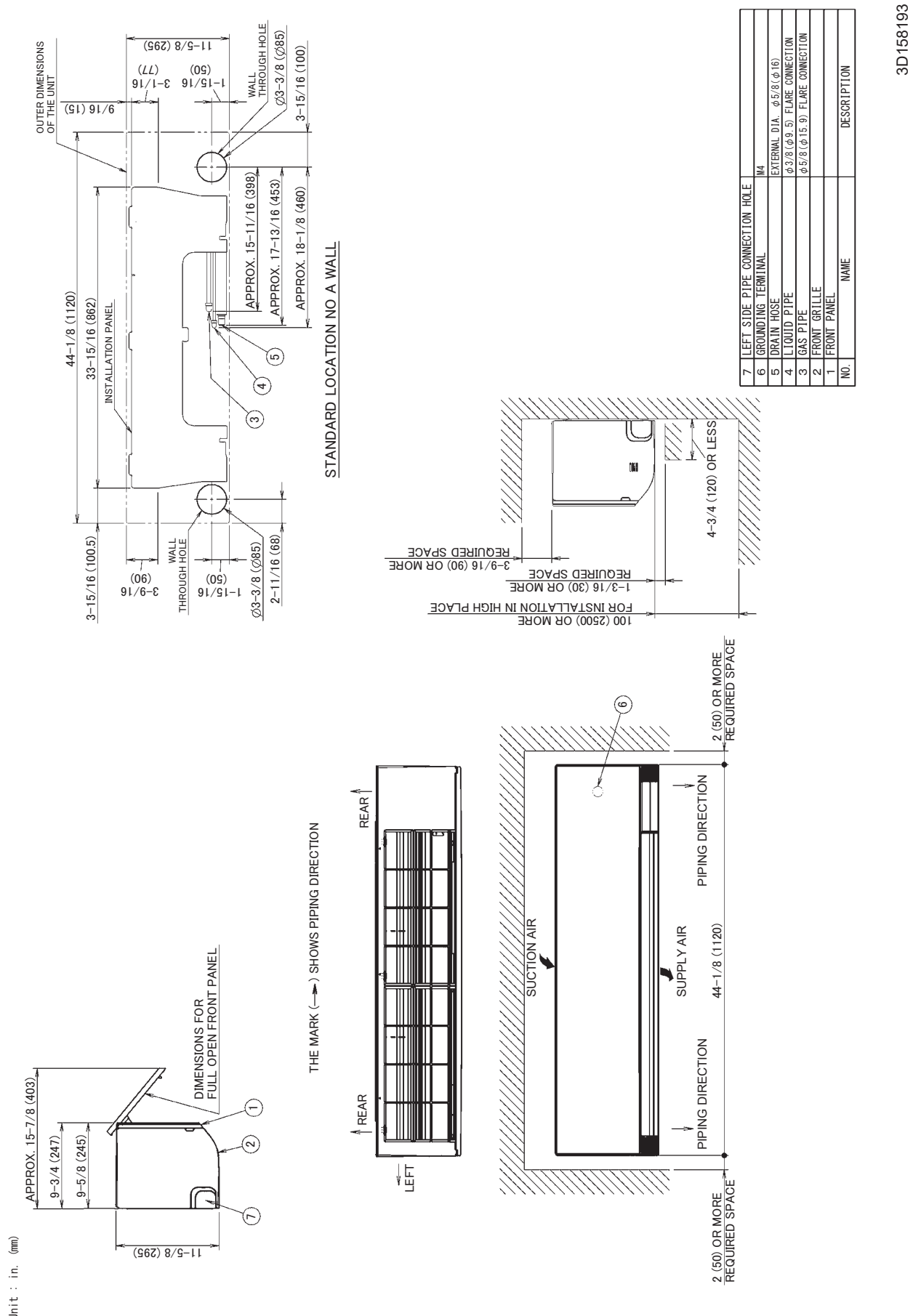
ITEM	PART NAME	REMARK
1	LIQUID PIPE CONNECTION	φ3/8(φ9.5) (FLARE CONNECTION)
2	GAS PIPE CONNECTION	φ5/8(φ15.9) (FLARE CONNECTION)
3	DRAIN PIPE CONNECTION	VP25 (OD φ1-1/4(φ32))
4	POWER SUPPLY WIRING CONNECTION	
5	REMOTE CONTROLLER AND TRANSMISSION WIRING CONNECTION	
6	AIR OUTLET	
7	SUCTION GRILLE	
8	CORNER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

3D151712

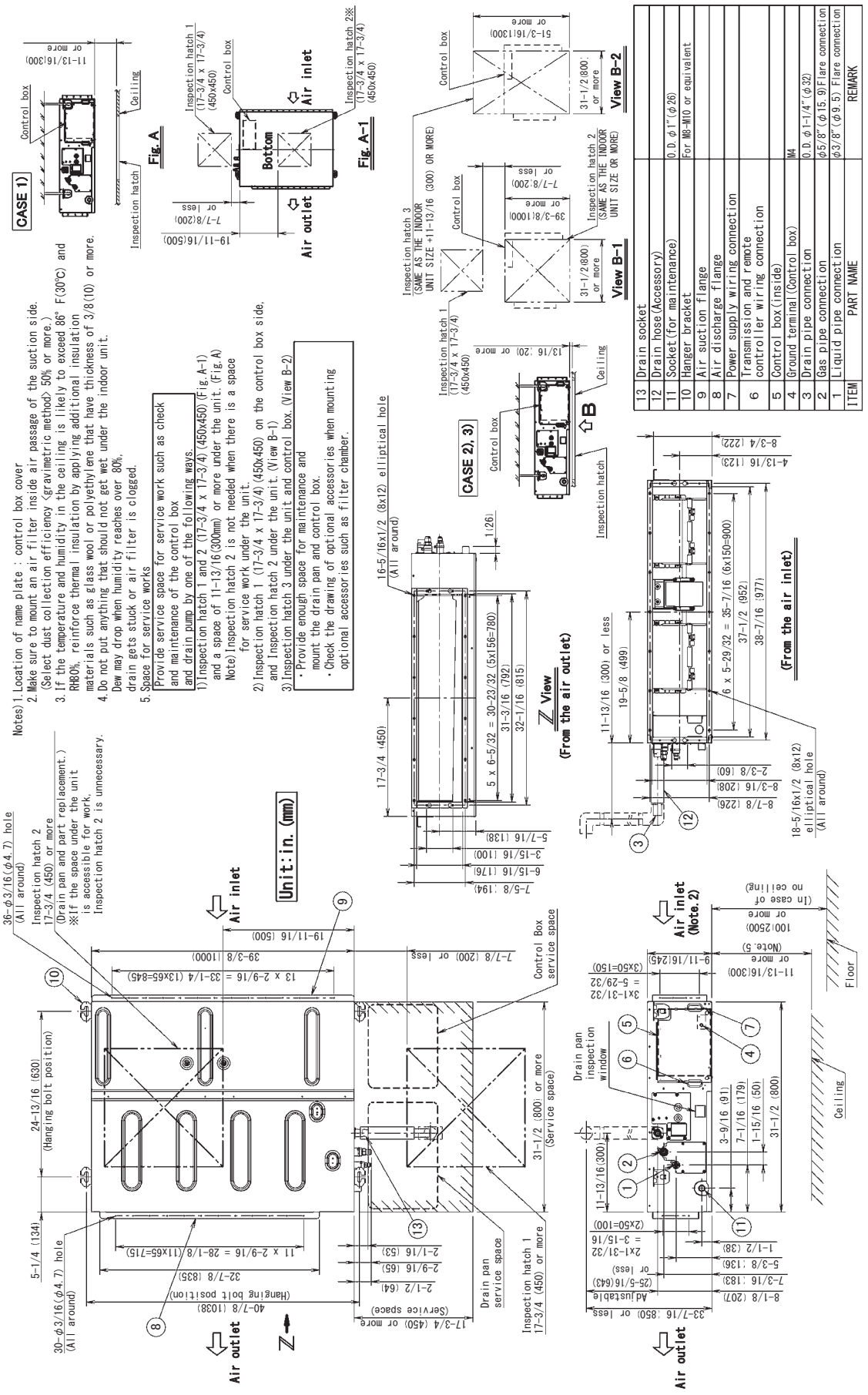
5.1.3 FAA
FAA18AAVJU



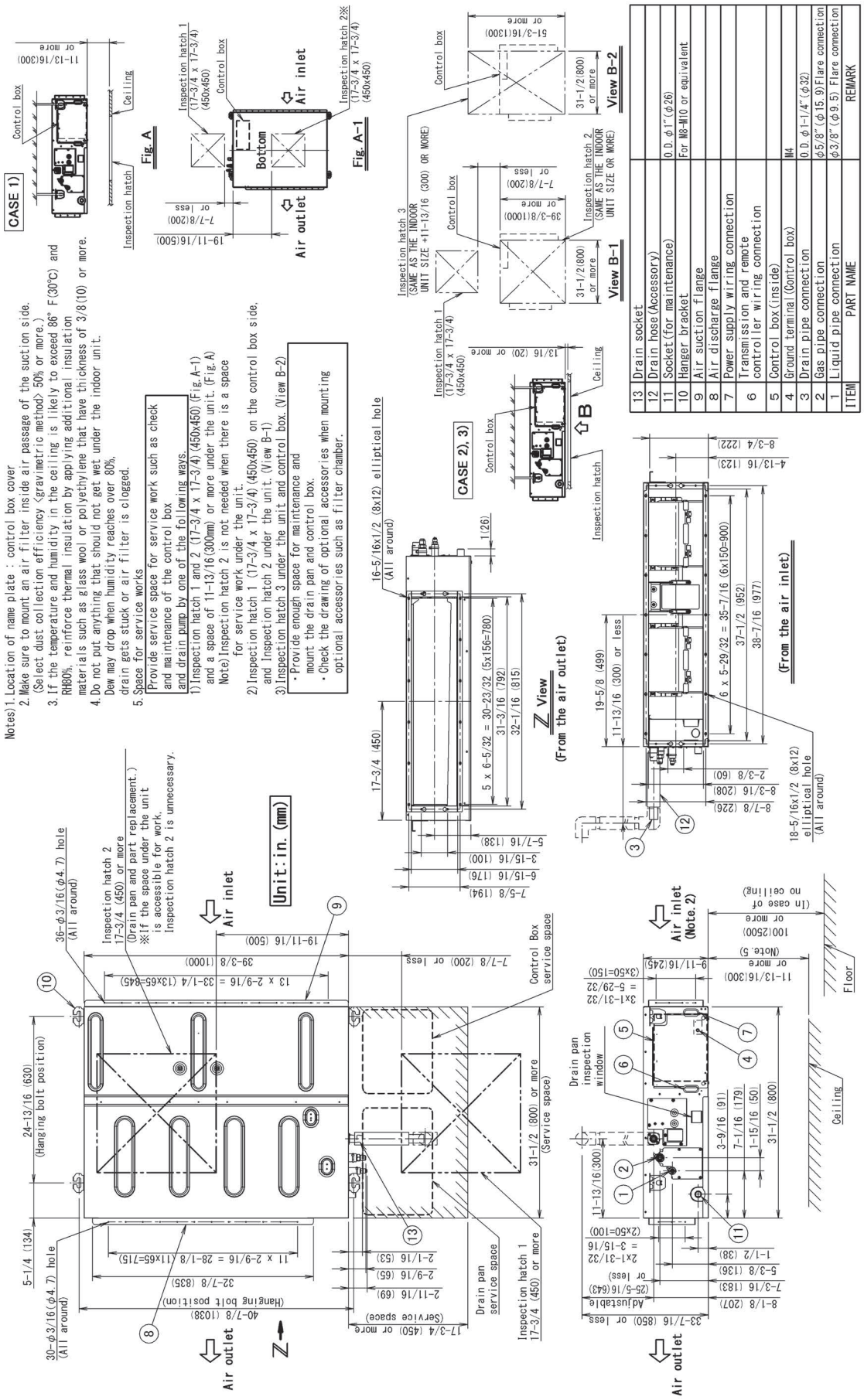
FAA24AAVJU


OUTER DIMENSIONS OF THE UNIT
11-5/8 (295)
3-1/16 (77)
1-15/16 (50)
WALL THROUGH HOLE
Ø3-3/8 (Ø85)
3-15/16 (100)
9/16 (15)
44-1/8 (1120)
33-15/16 (862)
INSTALLATION PANEL
APPROX. 15-11/16 (398)
APPROX. 17-13/16 (453)
APPROX. 18-1/8 (460)
STANDARD LOCATION NO A WALL
3-15/16 (100.5)
3-9/16 (90)
WALL THROUGH HOLE
1-15/16 (50)
Ø3-3/8 (Ø85)
2-11/16 (68)
3D158193
7 LEFT SIDE PIPE CONNECTION HOLE
6 GROUNDING TERMINAL M4
5 DRAIN HOSE EXTERNAL DIA. φ5/8(φ16)
4 LIQUID PIPE φ3/8(φ9.5) FLARE CONNECTION
3 GAS PIPE φ5/8(φ15.9) FLARE CONNECTION
2 FRONT GRILLE
1 FRONT PANEL
NO. NAME DESCRIPTION
3-9/16 (90) OR MORE REQUIRED SPACE
1-3/16 (30) OR MORE REQUIRED SPACE
100 (2500) OR MORE FOR INSTALLATION IN HIGH PLACE
4-3/4 (120) OR LESS
THE MARK (→) SHOWS PIPING DIRECTION
REAR
REAR
LEFT
SUCTION AIR
SUPPLY AIR
PIPING DIRECTION
PIPING DIRECTION
44-1/8 (1120)
2 (50) OR MORE REQUIRED SPACE
2 (50) OR MORE REQUIRED SPACE
DIMENSIONS FOR FULL OPEN FRONT PANEL
APPROX. 15-7/8 (403)
9-3/4 (247)
9-5/8 (245)
11-5/8 (295)
Unit : in. (mm)

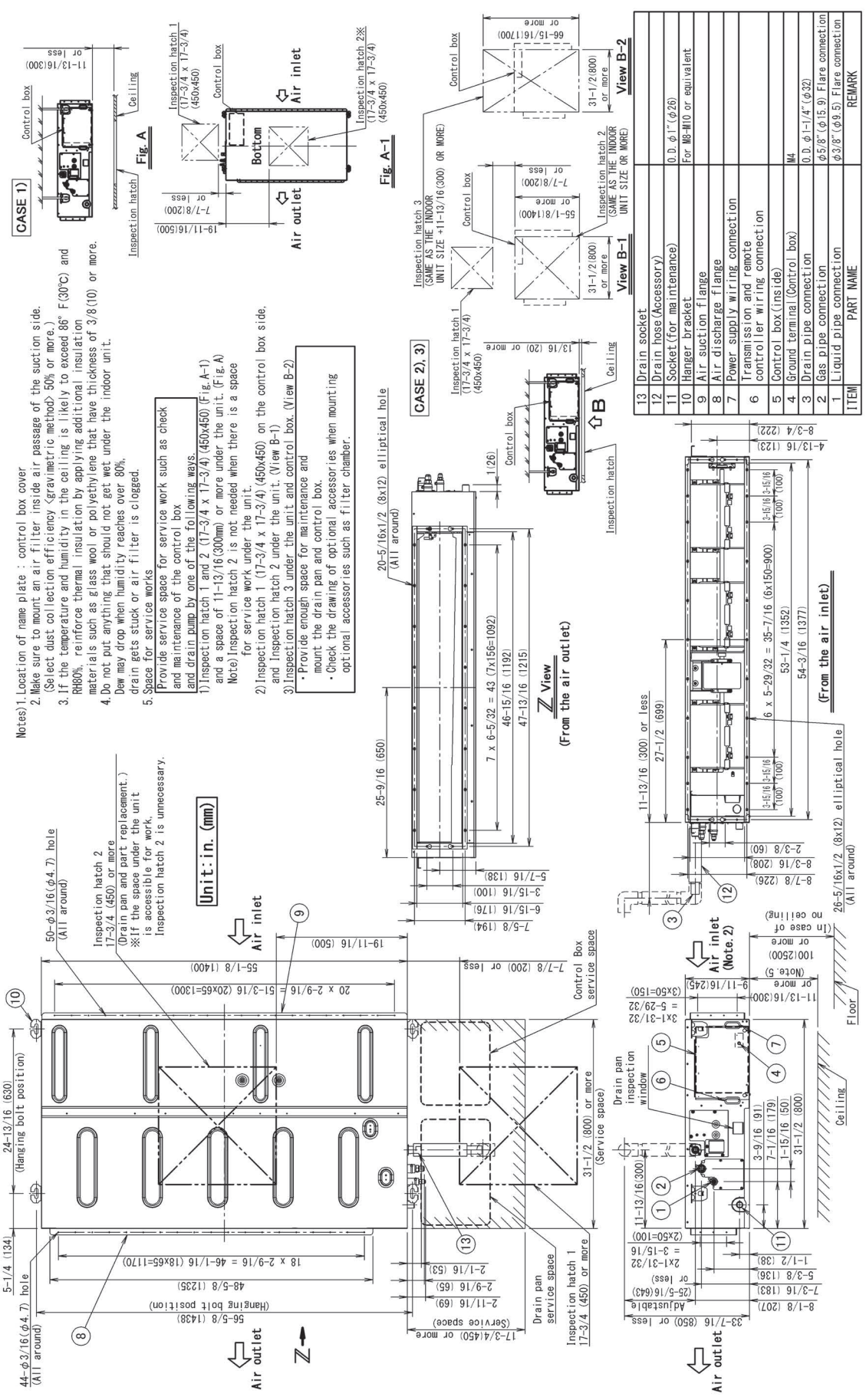
5.1.4 FBA
FBA18AAVJU



FBA24AAVJU

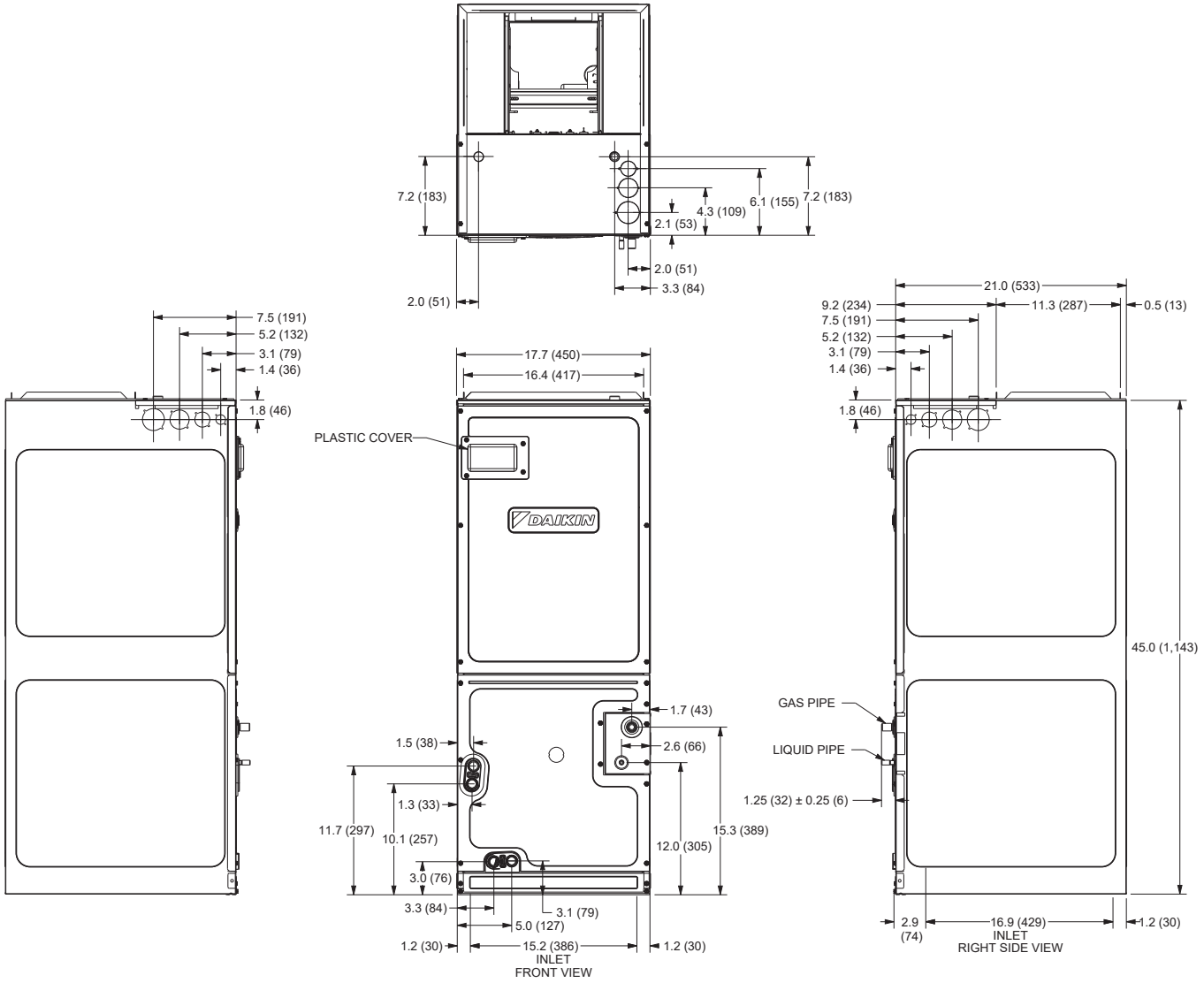

Notes) 1. Location of name plate : control box cover
2. Make sure to mount an air filter inside air passage of the suction side. (Select dust collection efficiency <gravimetric method> 50% or more.)
3. If the temperature and humidity in the ceiling is likely to exceed 86° F(30°C) and RH80%, reinforce thermal insulation by applying additional insulation materials such as glass wool or polyethylene that have thickness of 3/8(10) or more.
4. Do not put anything that should not get wet under the indoor unit. Dew may drop when humidity reaches over 80%, drain gets stuck or air filter is clogged.
5. Space for service works
Provide service space for service work such as check and maintenance of the control box and drain pump by one of the following ways.
1) Inspection hatch 1 and 2 (17-3/4 x 17-3/4) (450x450) (Fig.A-1) and a space of 11-13/16(300mm) or more under the unit. (Fig.A) Note) Inspection hatch 2 is not needed when there is a space for service work under the unit.
2) Inspection hatch 1 (17-3/4 x 17-3/4) (450x450) on the control box side. and Inspection hatch 2 under the unit. (View B-1)
3) Inspection hatch 3 under the unit and control box. (View B-2)
・Provide enough space for maintenance and mount the drain pan and control box.
・Check the drawing of optional accessories when mounting optional accessories such as filter chamber.
CASE 1)
Control box
Ceiling
Inspection hatch
11-13/16(300) or more
Fig. A
Inspection hatch 1 (17-3/4 x 17-3/4) (450x450)
Control box
Bottom
Air inlet
Air outlet
Inspection hatch 2※ (17-3/4 x 17-3/4) (450x450)
Fig. A-1
19-11/16(500)
7-1/8(200) or less
Inspection hatch 3 (SAME AS THE INDOOR UNIT SIZE +11-13/16 (300) OR MORE)
Inspection hatch 1 (17-3/4 x 17-3/4) (450x450)
Inspection hatch 2 (SAME AS THE INDOOR UNIT SIZE OR MORE)
31-1/2(800) or more
39-3/8(1000) or more
51-3/16(1300) or more
View B-1
View B-2
CASE 2), 3)
13/16 (20) or more
B
Inspection hatch
13 Drain socket
12 Drain hose(Accessory)
11 Socket(for maintenance) O.D. φ1"(φ26)
10 Hanger bracket For MO-M10 or equivalent
9 Air suction flange
8 Air discharge flange
7 Power supply wiring connection
6 Transmission and remote controller wiring connection
5 Control box(inside)
4 Ground terminal(Control box) M4
3 Drain pipe connection O.D. φ1-1/4"(φ32)
2 Gas pipe connection φ5/8"(φ15.9)Flare connection
1 Liquid pipe connection φ3/8"(φ9.5) Flare connection
ITEM PART NAME REMARK
3D151629
Unit:in.(mm)
Air inlet
Inspection hatch 2 17-3/4 (450) or more
(Drain pan and part replacement.)
※If the space under the unit is accessible for work, Inspection hatch 2 is unnecessary.
36-φ3/16(φ4.7) hole (All around)
19-11/16 (500)
39-3/8 (1000)
13 x 2-9/16 = 33-1/4 (13x65=845)
7-1/8 (200) or less
Control Box service space
24-13/16 (630) (Hanging bolt position)
5-1/4 (134)
30-φ3/16(φ4.7) hole (All around)
11 x 2-9/16 = 28-1/8 (11x65=715)
32-7/8 (835)
40-7/8 (1038) (Hanging bolt position)
2-1/16 (53)
2-9/16 (65)
2-11/16 (69)
17-3/4 (450) or more (Service space)
Drain pan service space
Inspection hatch 1 17-3/4 (450) or more
31-1/2 (800) or more (Service space)
Air outlet
Z
Z View (From the air outlet)
16-5/16x1/2 (8x12) elliptical hole (All around)
1(26)
17-3/4 (450)
5 x 6-5/32 = 30-23/32 (5x156=780)
31-3/16 (792)
32-1/16 (815)
5-7/16 (138)
3-15/16 (100)
6-15/16 (176)
7-5/8 (194)
Air inlet (Note. 2)
100(2500) or more (Note. 5)
(In case of no ceiling)
Floor
11-13/16(300) or more
9-11/16(245)
(3x50=150)
3x1-31/32 = 5-29/32
Drain pan inspection window
11-13/16(300)
2x1-31/32 = 3-15/16 (2x50=100)
3-9/16 (91)
7-1/16 (179)
1-15/16 (50)
31-1/2 (800)
Adjustable (25-5/16(643) or less)
1-1/2 (38)
5-3/8 (136)
7-3/16 (183)
8-1/8 (207)
33-7/16 (850) or less
Air outlet
(From the air inlet)
19-5/8 (499)
11-13/16 (300) or less
6 x 5-29/32 = 35-7/16 (6x150=900)
37-1/2 (952)
38-7/16 (977)
4-13/16 (122)
8-3/4 (222)
2-3/8 (60)
8-3/16 (208)
8-7/8 (226)
18-5/16x1/2 (8x12) elliptical hole (All around)

FBA30 - 48AAVJU



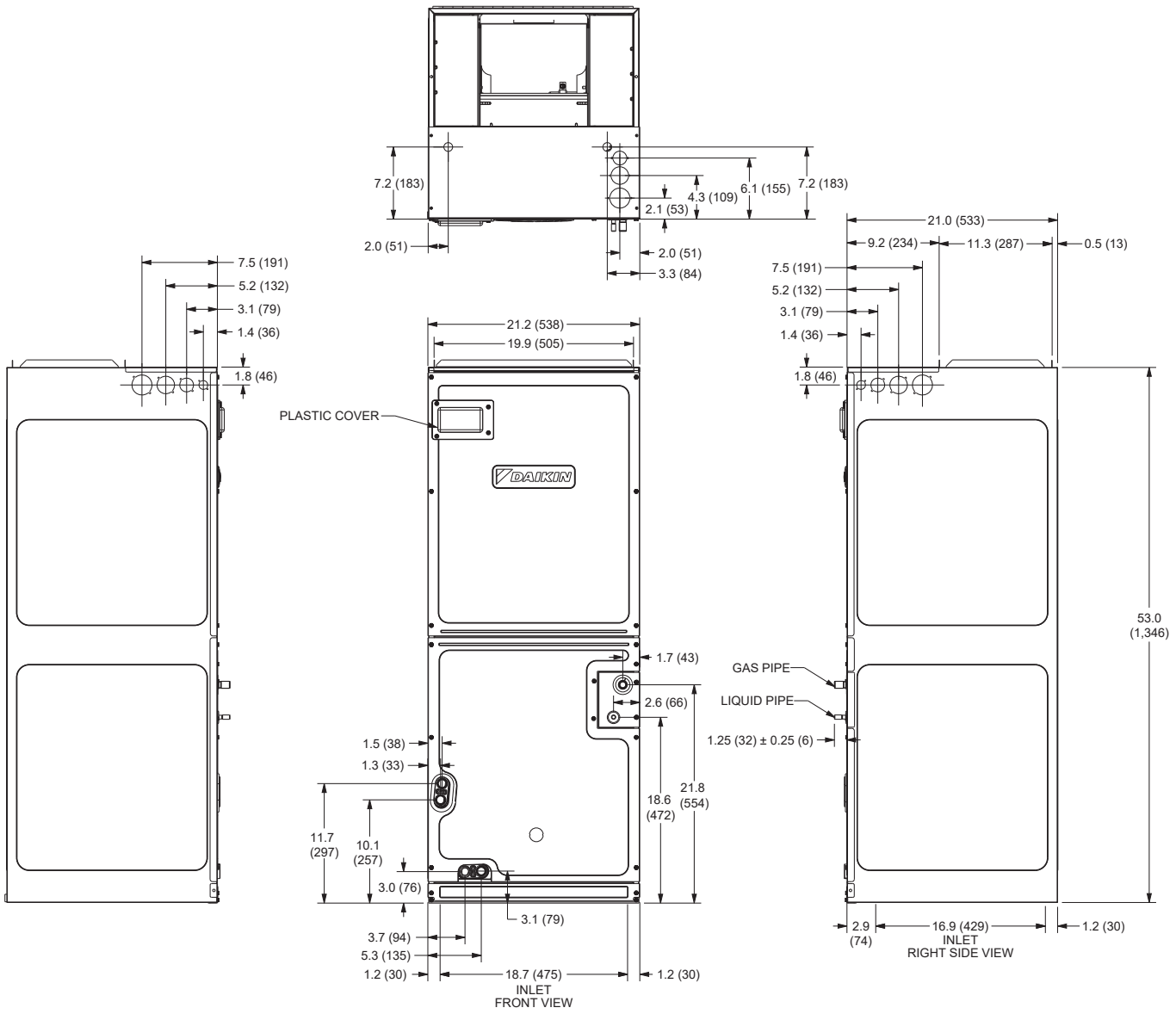
5.1.5 FTA
FTA18 - 36AAVJUD
FTA18 - 36AAVJUA

Unit : in. (mm)



FTA42 - 48AAVJUD
FTA42 - 48AAVJUA

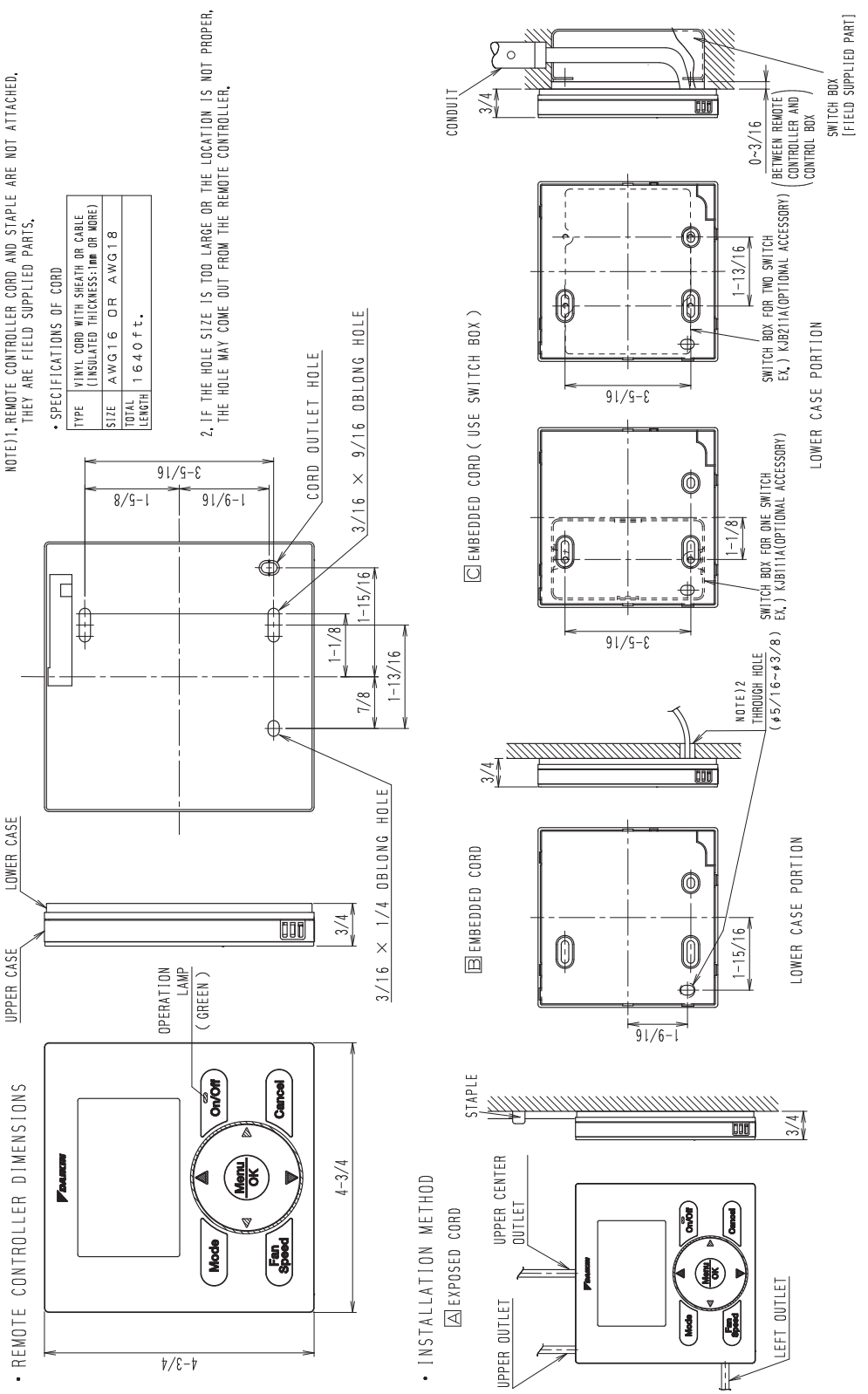
Unit : in. (mm)



5.2 Wired Remote Controller (Accessory)

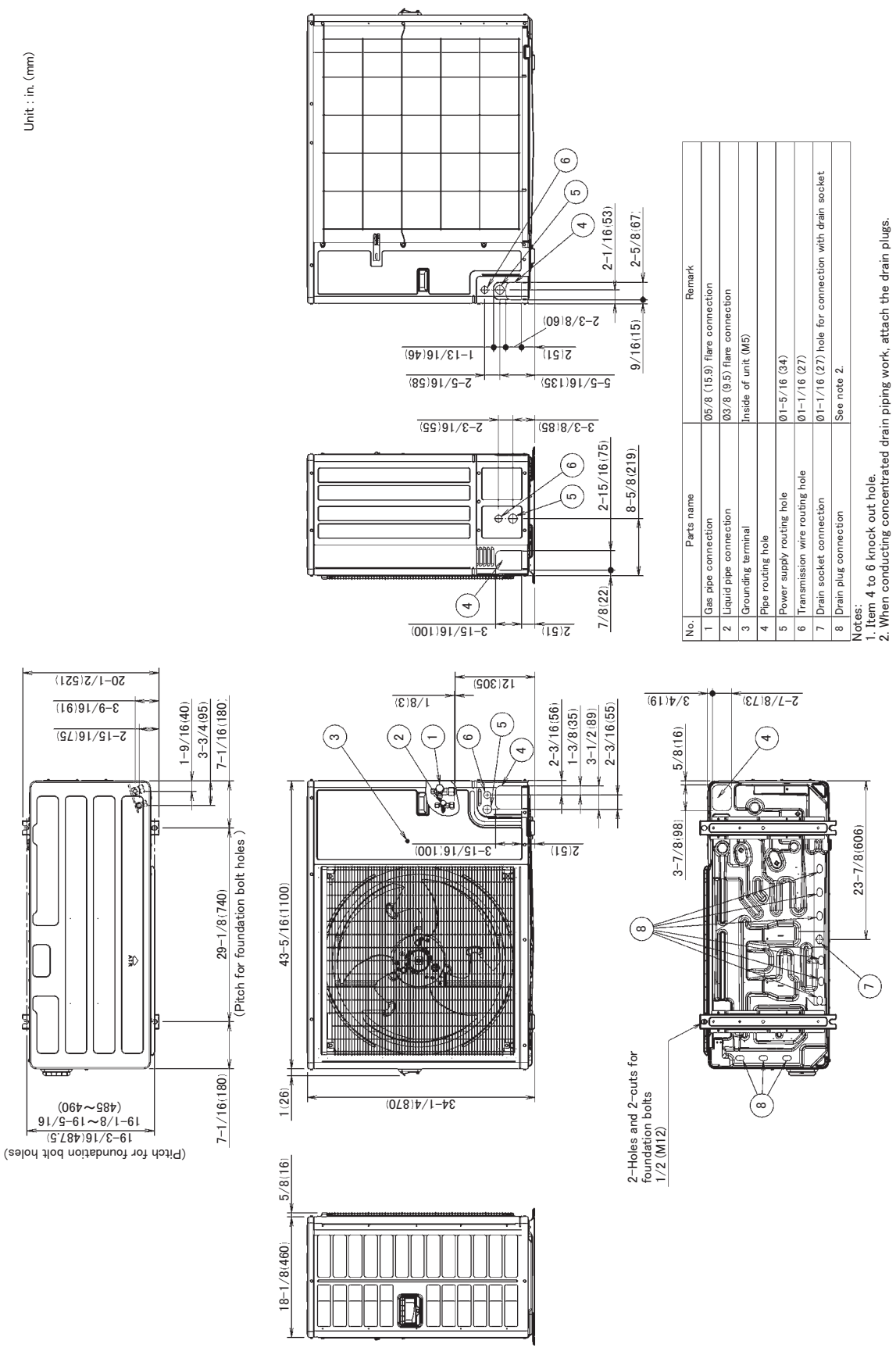
BRC1NRV71

Unit: in.



C: 3D091305A

5.3 Outdoor Unit
RZA18 - 48AAVJU



No.	Parts name	Remark
1	Gas pipe connection	Ø5/8 (15.9) flare connection
2	Liquid pipe connection	Ø3/8 (9.5) flare connection
3	Grounding terminal	Inside of unit (M5)
4	Pipe routing hole	
5	Power supply routing hole	Ø1-5/16 (34)
6	Transmission wire routing hole	Ø1-1/16 (27)
7	Drain socket connection	Ø1-1/16 (27) hole for connection with drain socket
8	Drain plug connection	See note 2.

6. Installation Service Space

RZA18 - 48AAVJU

REQUIRED INSTALLATION SPACE

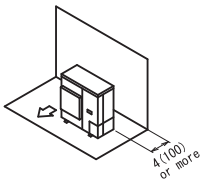
The unit of the values is in.(mm).

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

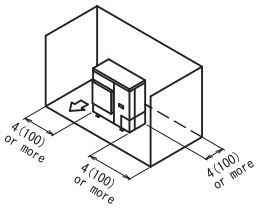
(a) No obstacle above

(1) Stand-alone installation

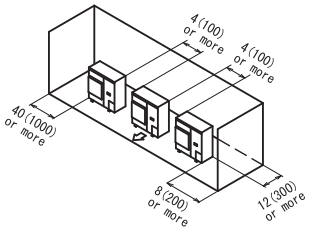
・Obstacle on the suction side only



・Obstacle on both sides

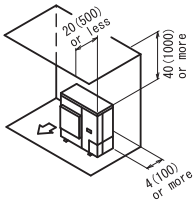


(2) Series installation
(2 or more)
・Obstacle on both sides

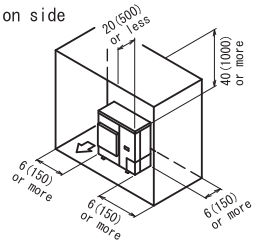


(b) Obstacle above, too

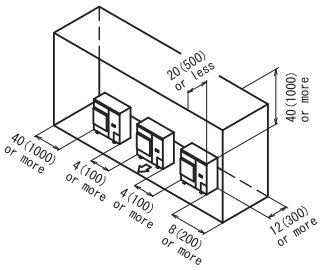
(1) Stand-alone installation
・Obstacle on the suction side, too



・Obstacle on the suction side and both sides



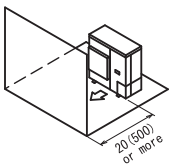
(2) Series installation
(2 or more)
・Obstacle on the suction side and both sides



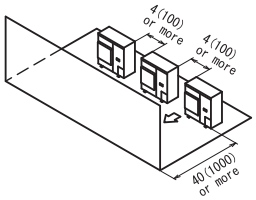
2. Where there is an obstacle on the discharge side:

(a) No obstacle above

(1) Stand-alone installation

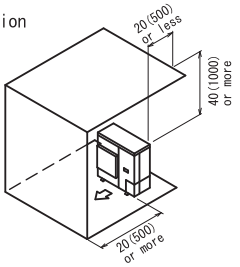


(2) Series installation
(2 or more)

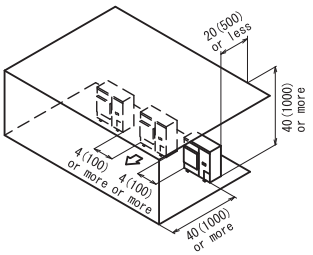


(b) Obstacle above, too

(1) Stand-alone installation



(2) Series installation
(2 or more)



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

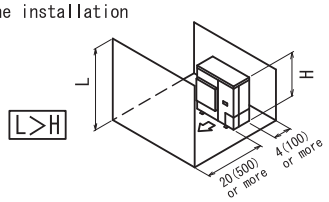
Pattern 1

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

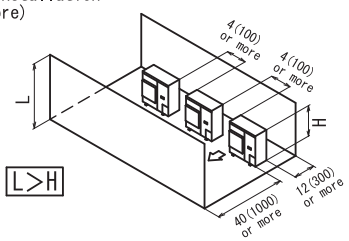
(There is no height limit for obstructions on the intake side.)

(a) No obstacle above

(1) Stand-alone installation



(2) Series installation
(2 or more)



3D148253

RZA18 - 48AAVJU, continued

Unit: in. (mm)

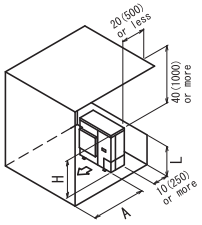
(b) Obstacle above, too

(1) Stand-alone installation

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

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

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



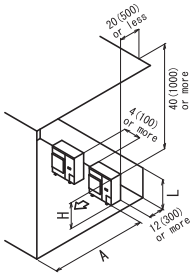
(2) Series installation
(up to two units)

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

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

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

Only two units can be installed for this series.



Pattern 2

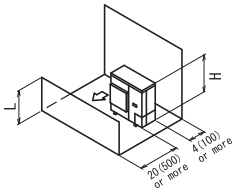
Where the obstacles on the discharge side is lower than the unit:

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

(a) No obstacle above

(1) Stand-alone installation

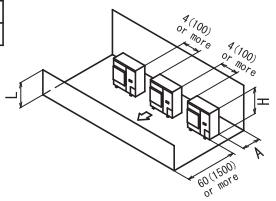
L≦H



(2) Series installation
(2 or more)

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

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



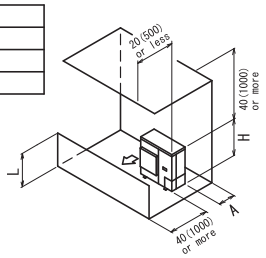
(b) Obstacle above, too

(1) Stand-alone installation

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

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

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



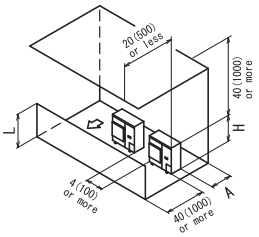
(2) Series installation
(up to two units)

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

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

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

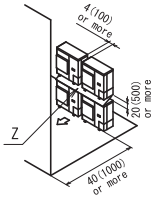
Only two units can be installed for this series.



4. Double-decker installation

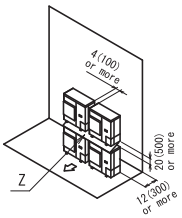
(a) Obstacle on the discharge side

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



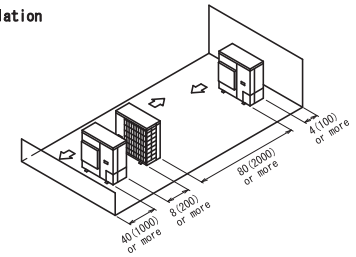
(b) Obstacle on the suction side

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



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

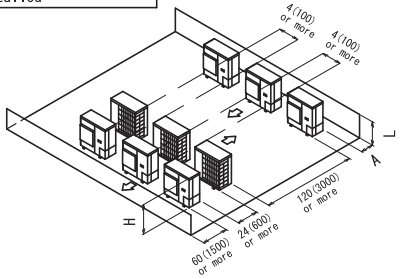
(a) Stand-alone installation



(b) Series installation (2 or more)

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

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



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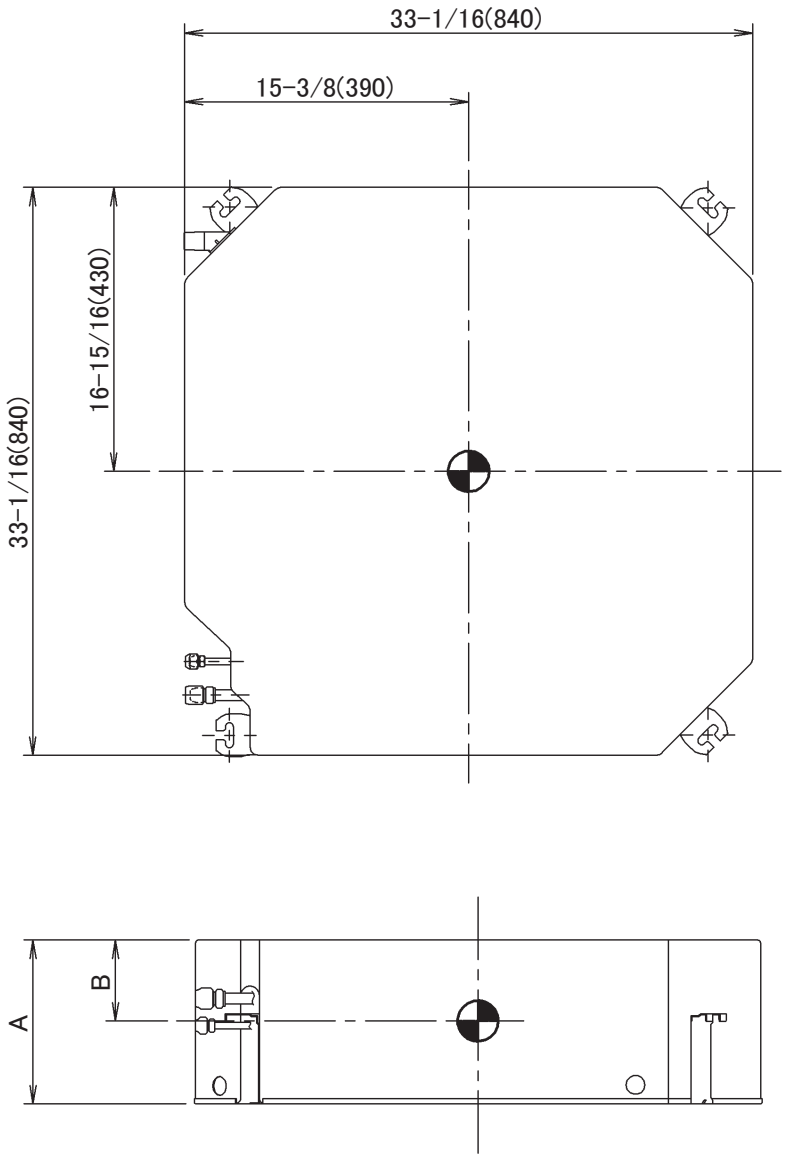
7. Center of Gravity

7.1 Indoor Unit

FCA18 - 48AAVJU

Unit : in. (mm)

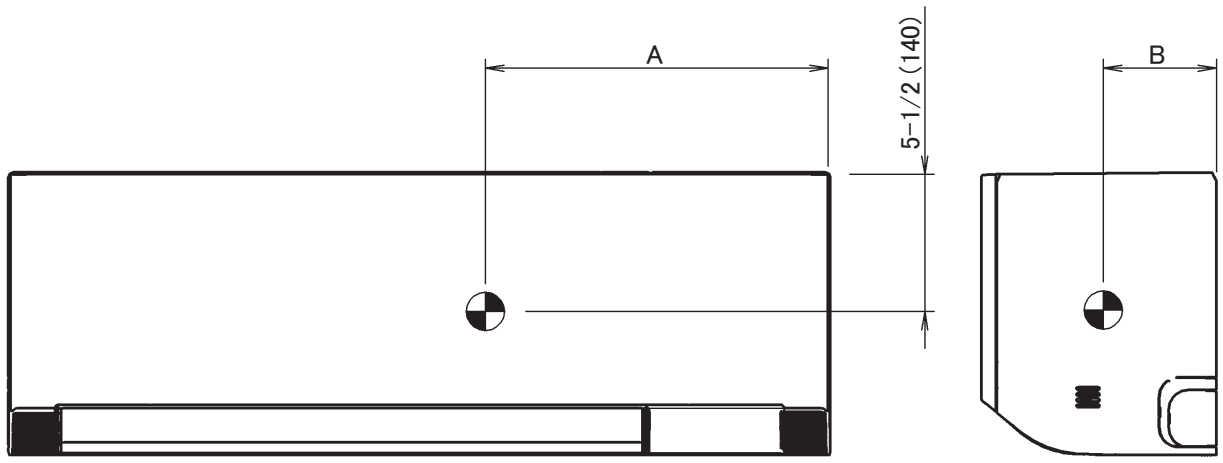


MODEL NAME	A	B
FCA18・24AAVJU	9-11/16 (246)	3-9/16 (90)
FCA30～48AAVJU	11-5/16 (288)	4-3/4 (120)

C: 4D151721

FAA18 - 24AAVJU

Unit : in. (mm)

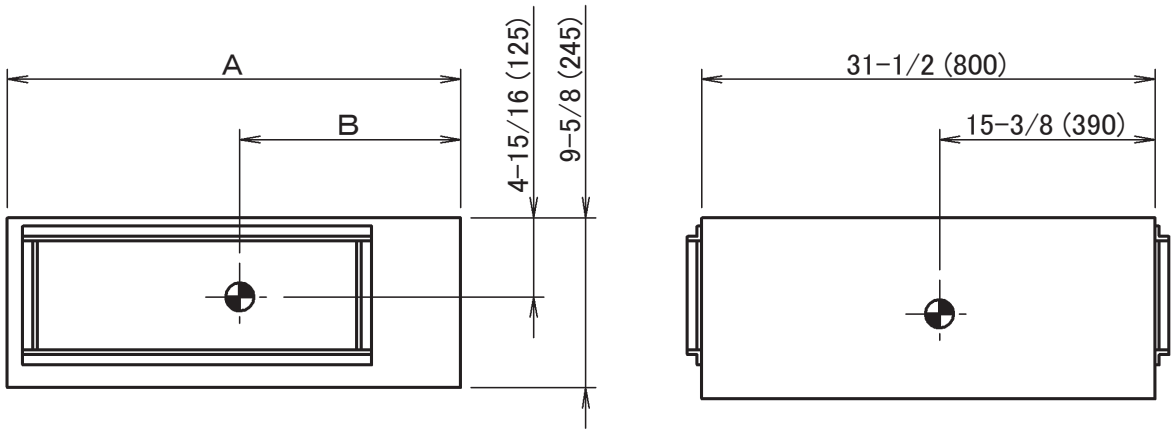


MODEL NAME	A	B
FAA18・24AAVJU	18-5/16 (465)	5-1/8 (130)

C: 4D158242

FBA18 - 48AAVJU

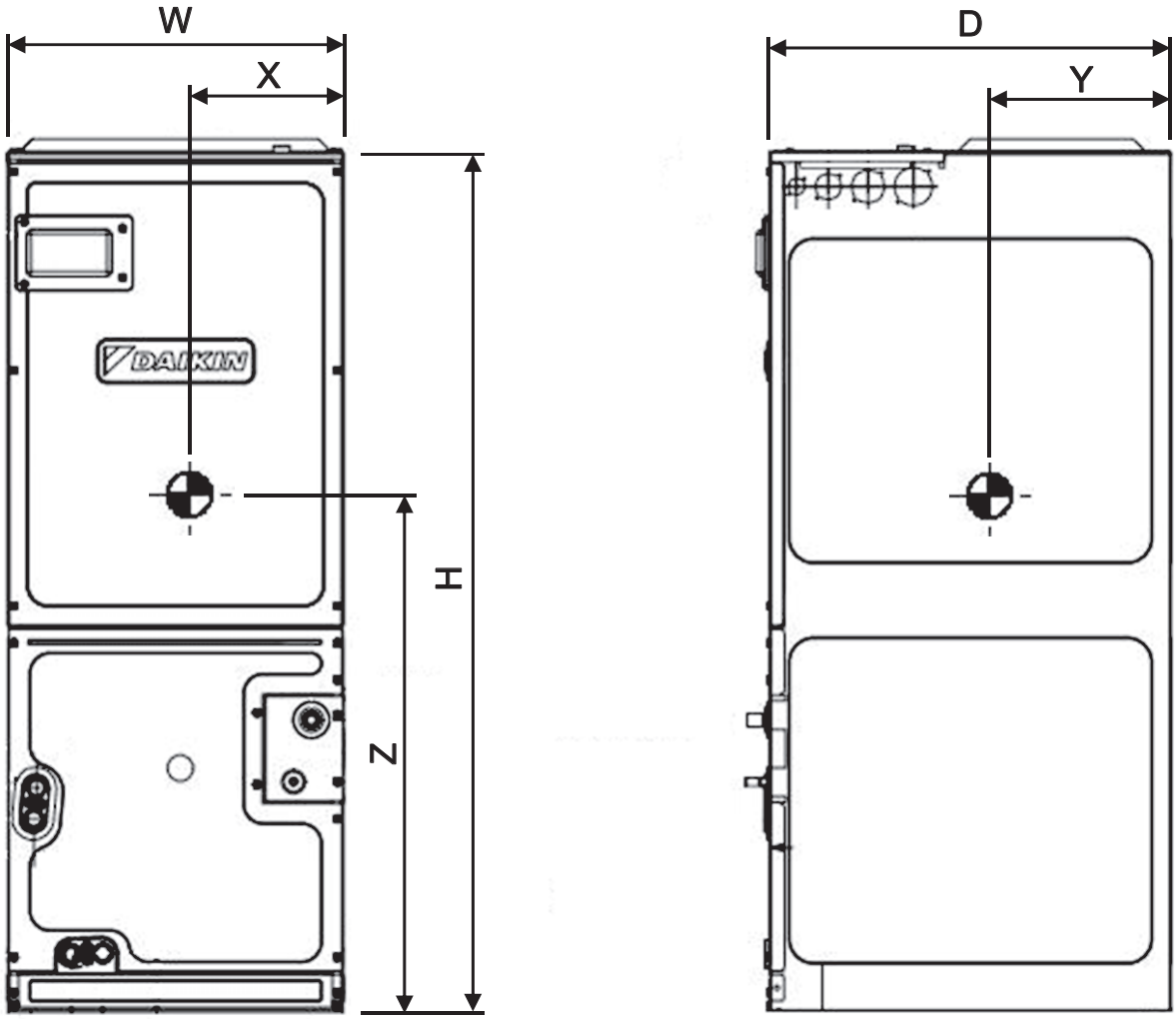
in. (mm)



MODEL NAME	A	B
FBA18・24AAVJU	39-3/8 (1000)	18-11/16 (475)
FBA30・36・42・48AAVJU	55-1/8 (1400)	24-7/16 (620)

4D151594

FTA18 - 48AAVJUD
FTA18 - 48AAVJUA



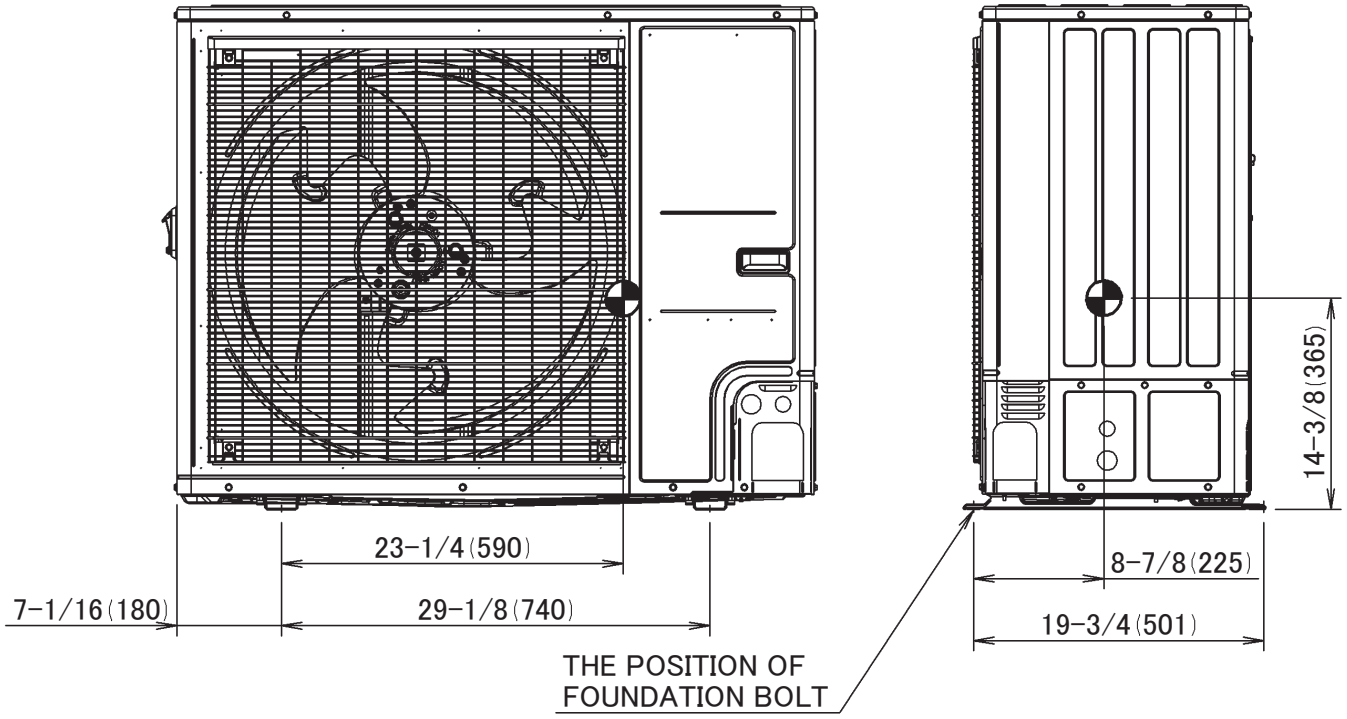
Unit: in. (mm)

MODEL NAME	W	D	H	X	Y	Z
FTA18 • 24AAVJUA(D)	17.7 (450)	21.0 (533)	45.0 (1143)	9.07 (230)	9.36 (238)	24.67 (627)
FTA30 • 36AAVJUA(D)	21.2 (538)	21.0 (533)	45.0 (1143)	8.72 (221)	9.58 (243)	21.68 (551)
FTA42 • 48AAVJUA(D)	21.2 (538)	21.0 (533)	53.0 (1346)	11.01 (280)	10.09 (256)	25.29 (642)

7.2 Outdoor Unit

RZA18 - 48AAVJU

Unit : in. (mm)

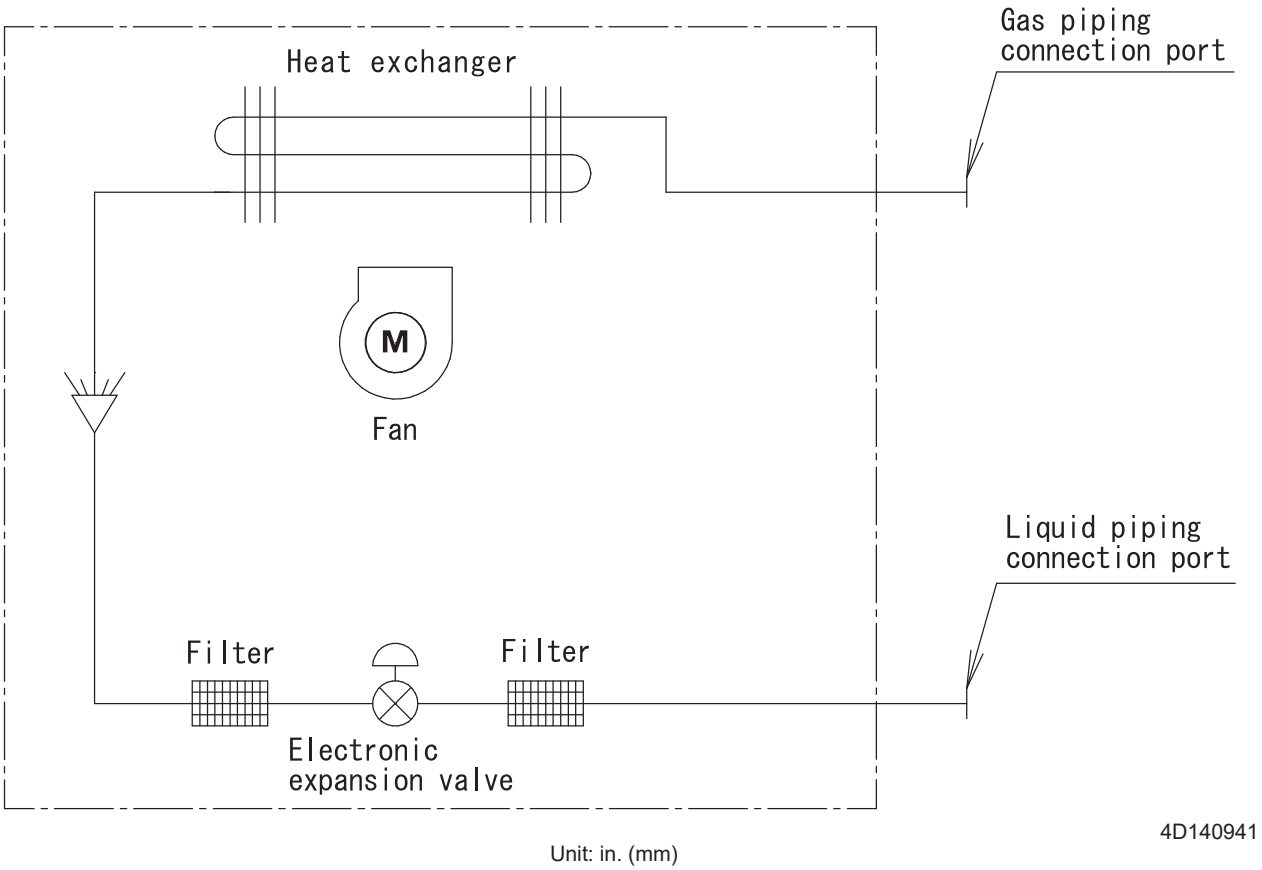


4D153967

8. Piping Diagrams

8.1 Indoor Unit

FCA18 - 48AAVJU

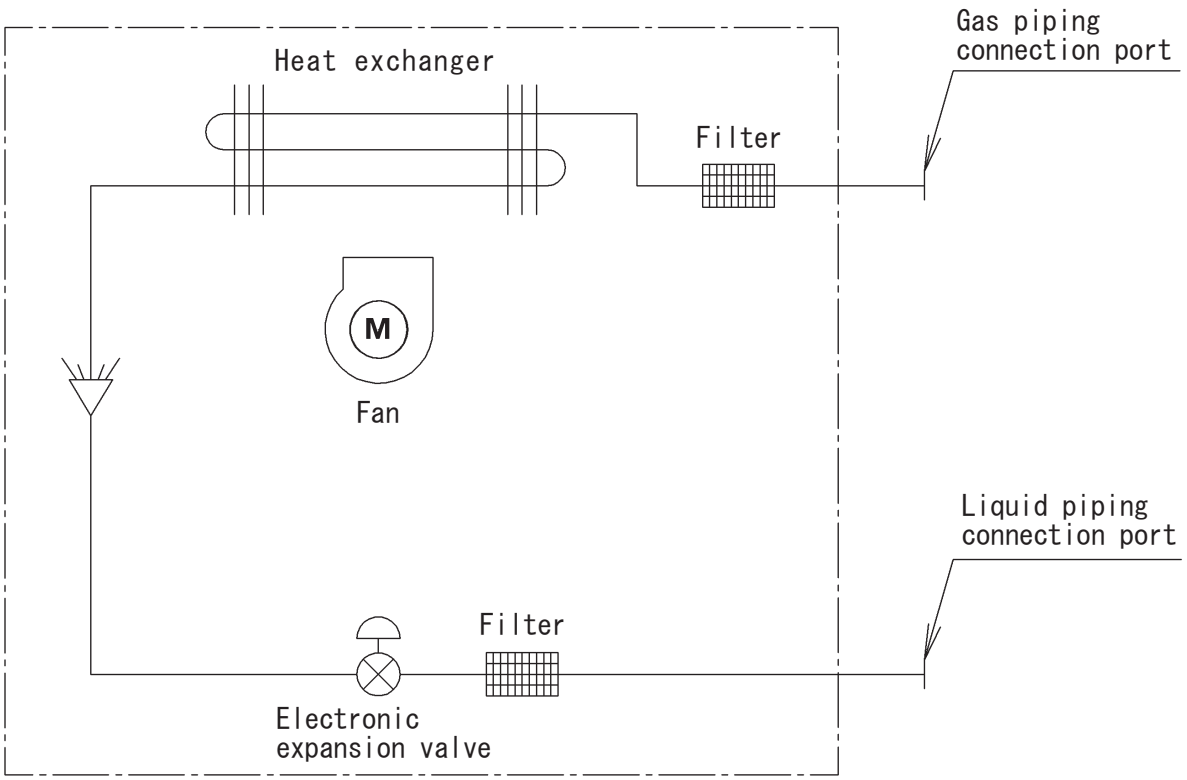


4D140941

Unit: in. (mm)

Model	Gas	Liquid
FCA18 - 48AAVJU	ϕ5/8 (ϕ15.9)	ϕ3/8 (ϕ9.5)

FAA18 - 24AAVJU

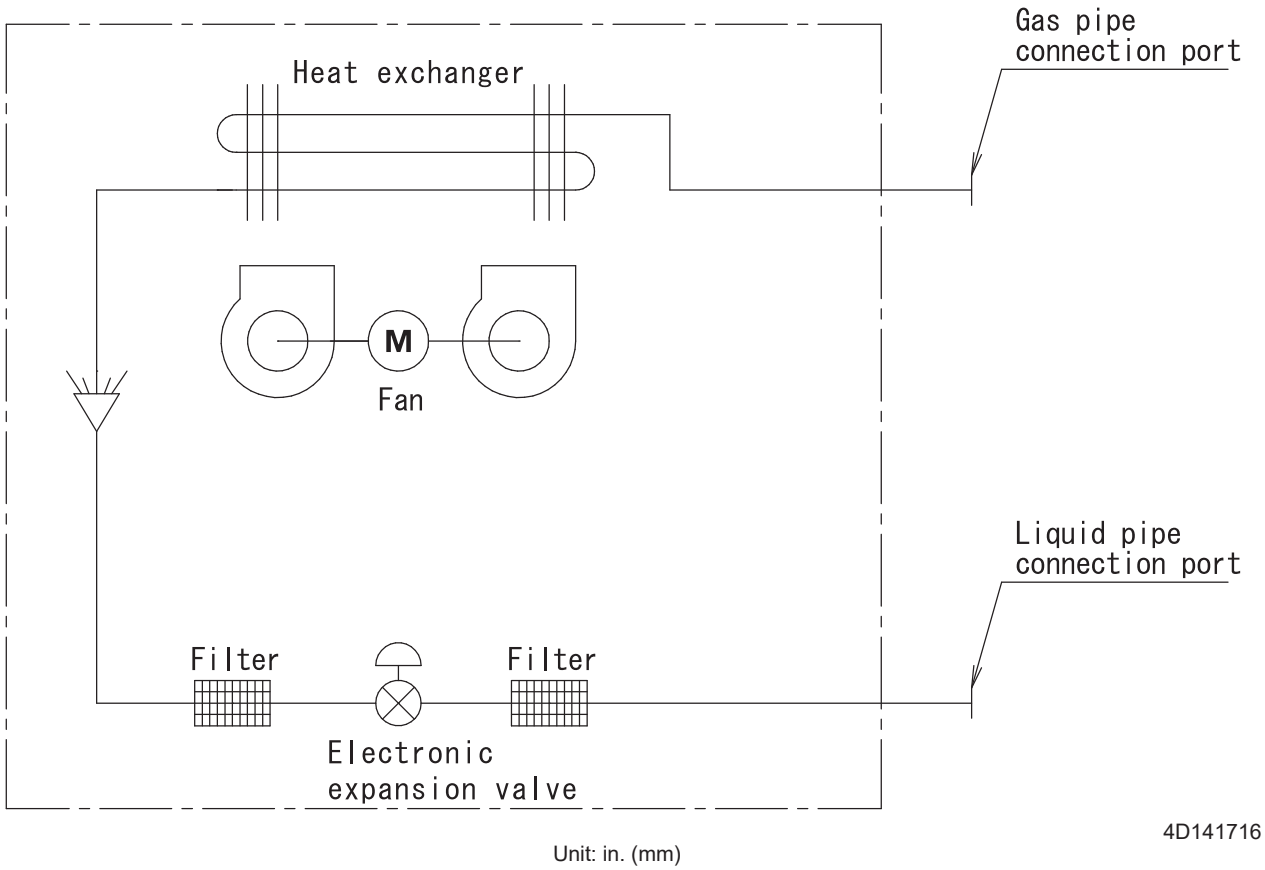


4D158189

Unit: in. (mm)

Model	Gas	Liquid
FAA18 - 24AAVJU	ϕ5/8 (ϕ15.9)	ϕ3/8 (ϕ9.5)

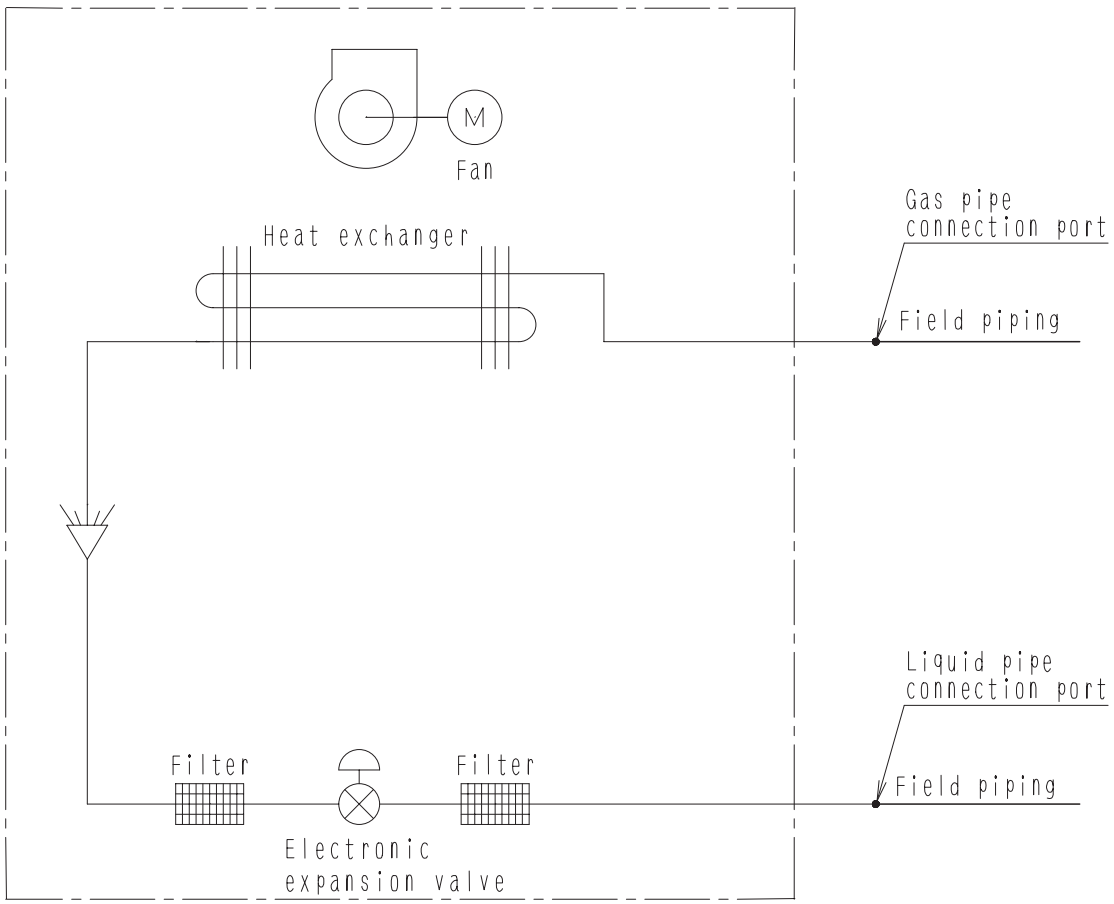
FBA18 - 48AAVJU



Unit: in. (mm)

Model	Gas	Liquid
FBA18 - 48AAVJU	ϕ5/8 (ϕ15.9)	ϕ3/8 (ϕ9.5)

FTA18 - 48AAVJUD
FTA18 - 48AAVJUA

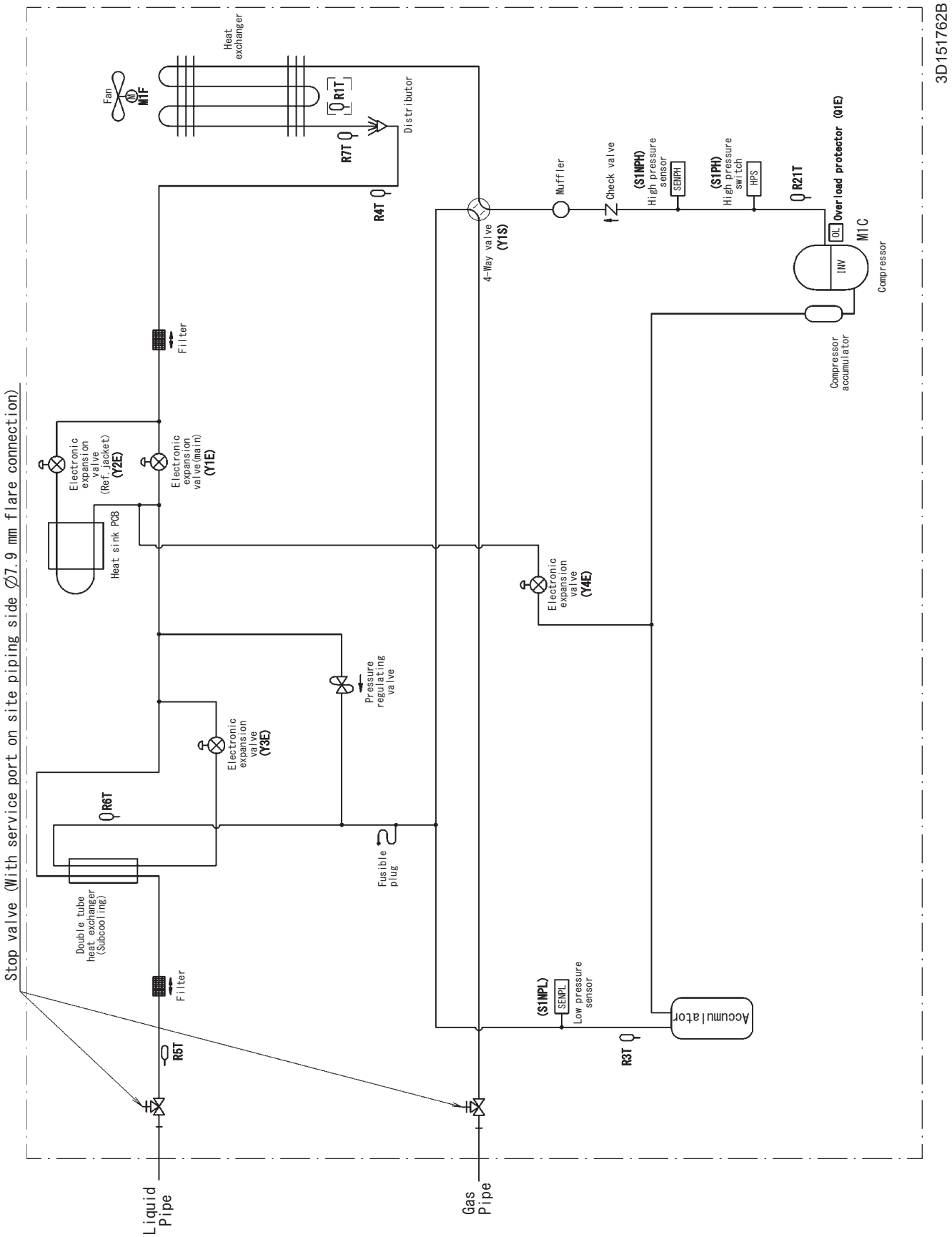


Unit: in. (mm)

Model	Gas	Liquid
FTA18 - 48AAVJUD FTA18 - 48AAVJUA	ϕ5.8 (ϕ15.9)	ϕ3.8 (ϕ9.5)

8.2 Outdoor Unit

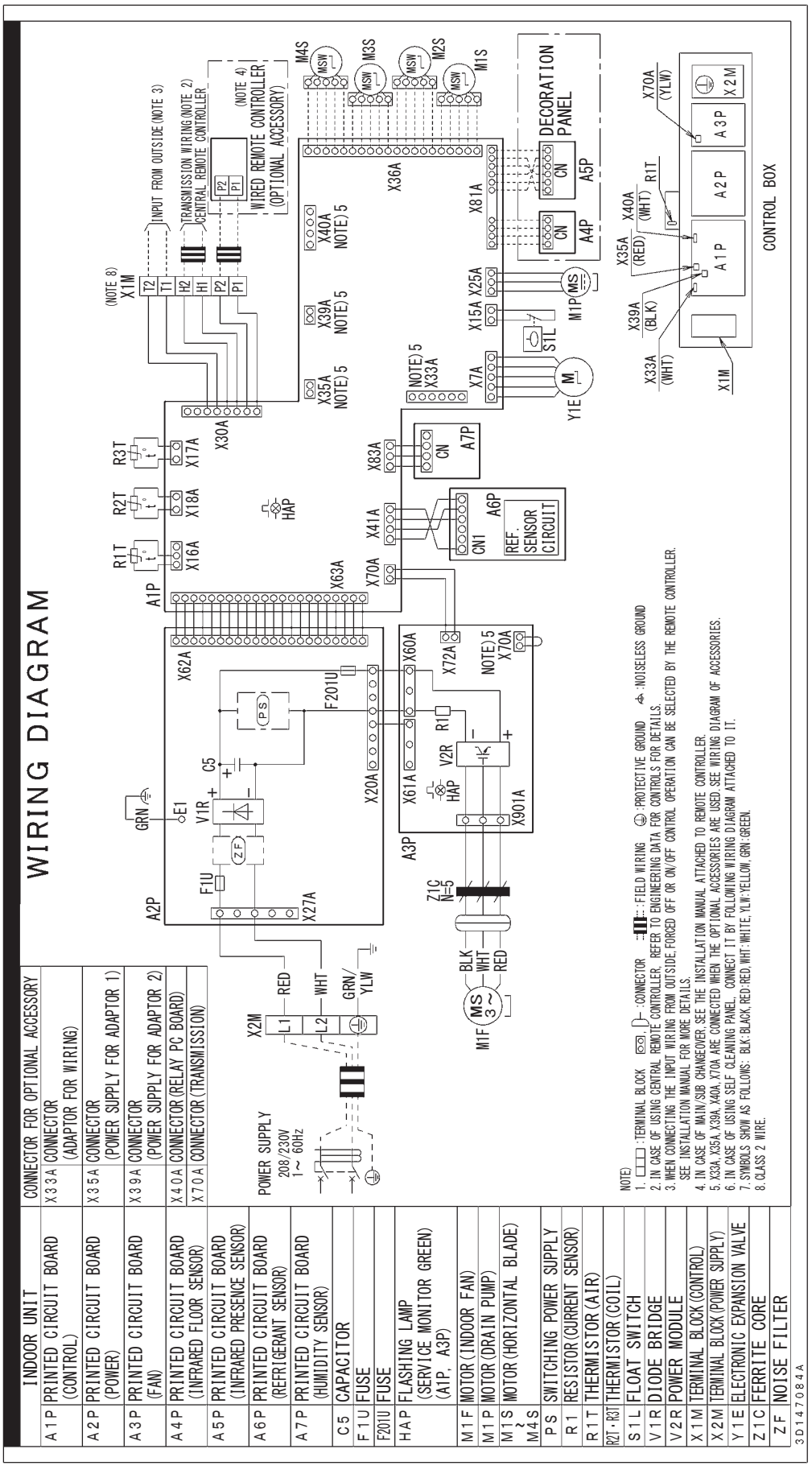
RZA18 - 48AAVJU



9. Wiring Diagrams

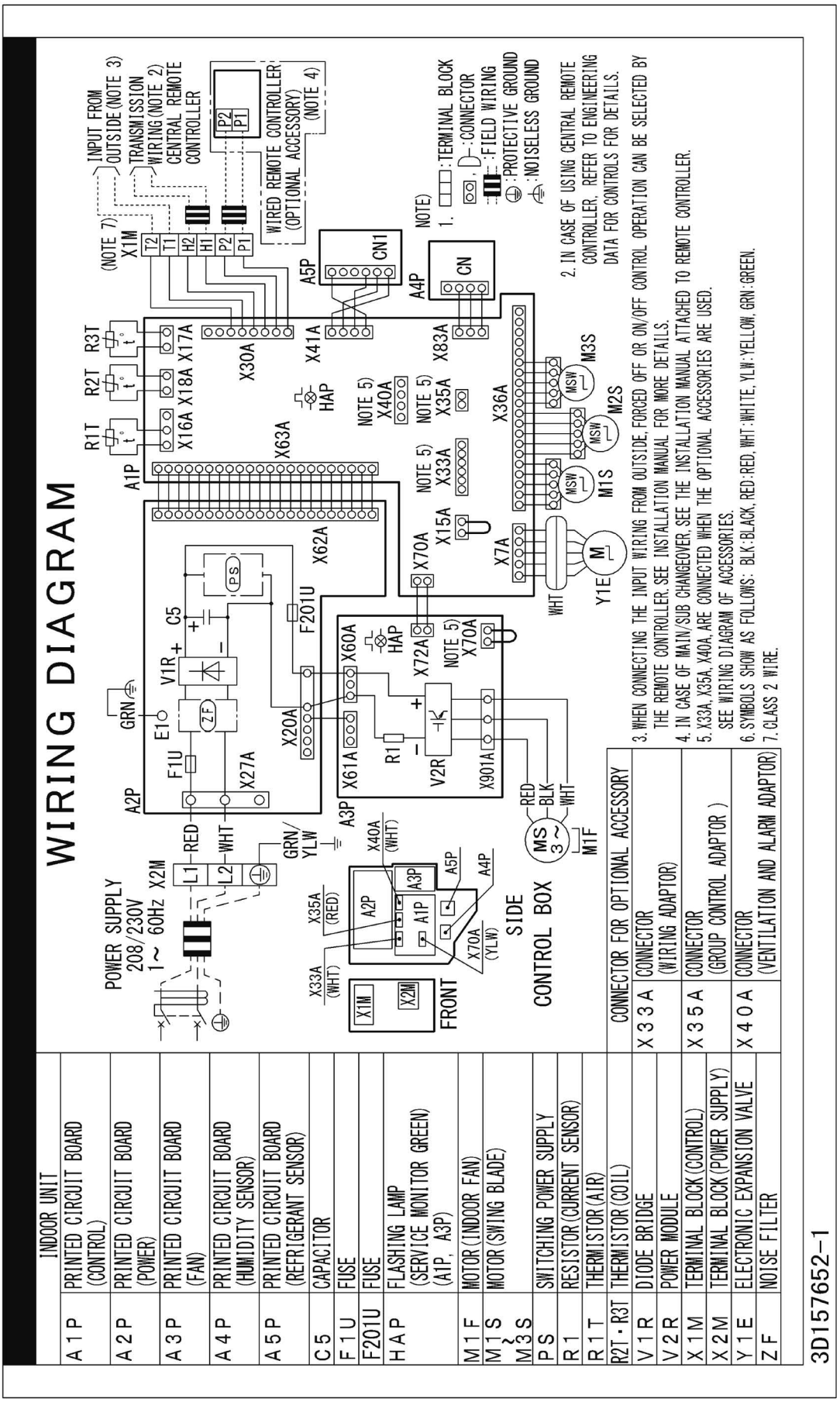
9.1 Indoor Unit

FCA18 - 48AAVJU

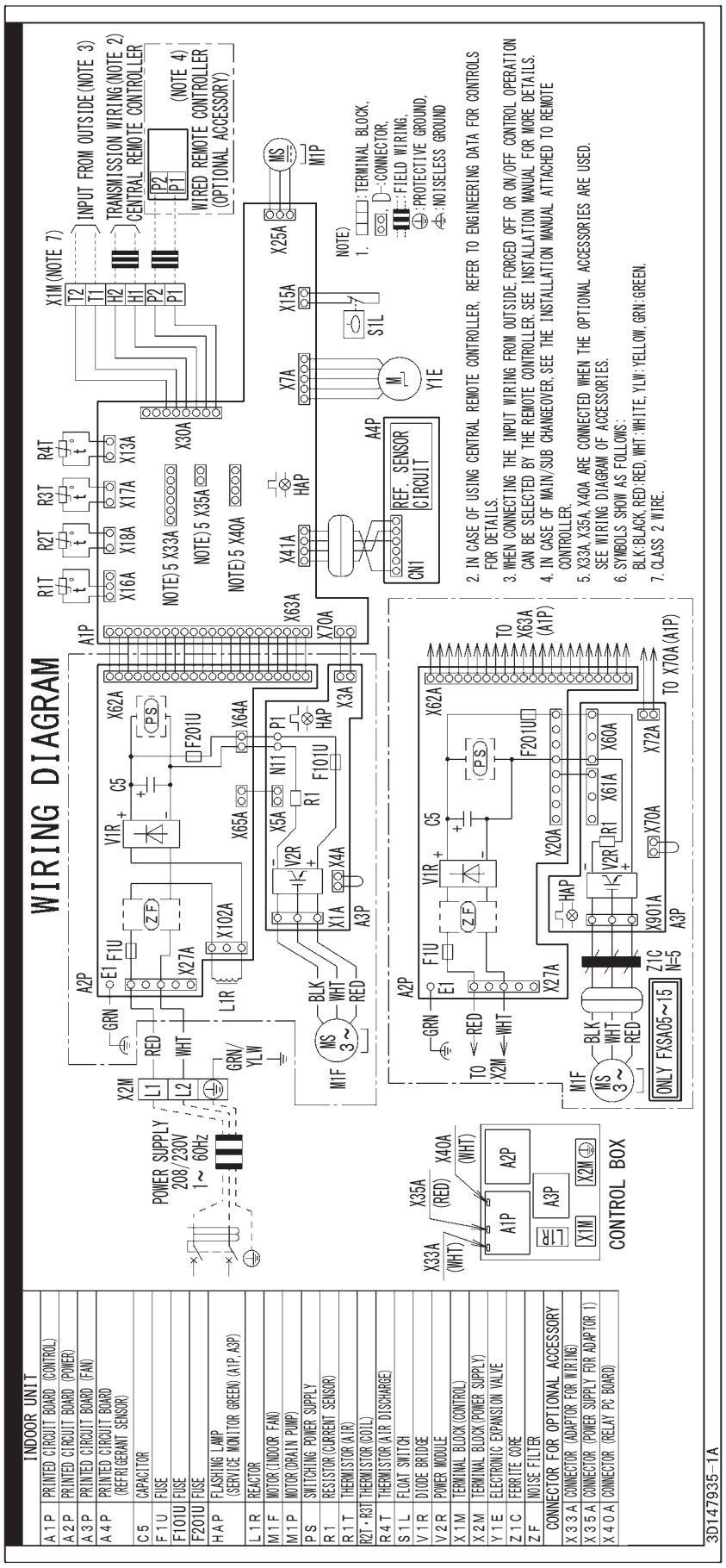


3D147084A

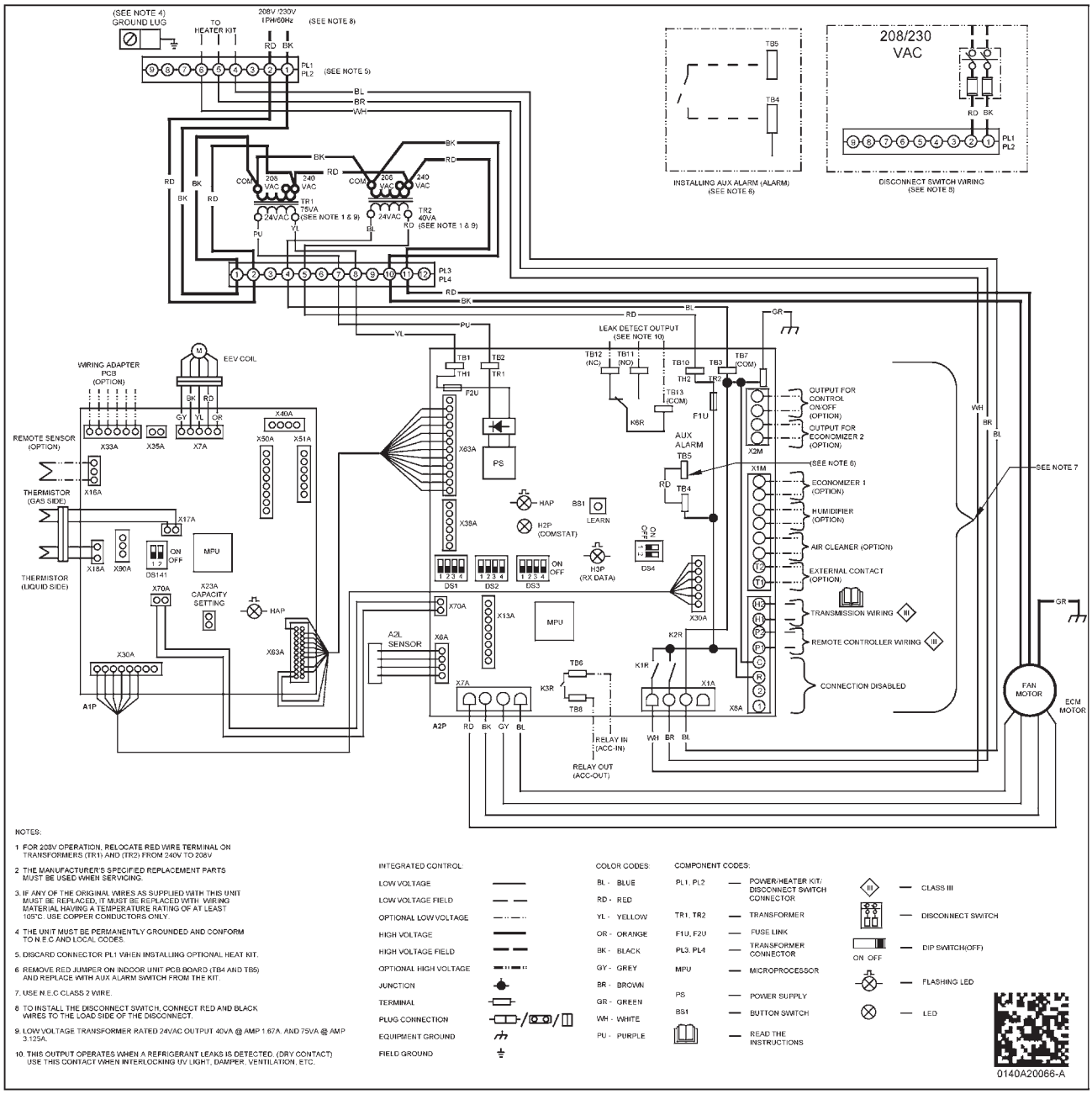
FAA18 - 24AAVJU



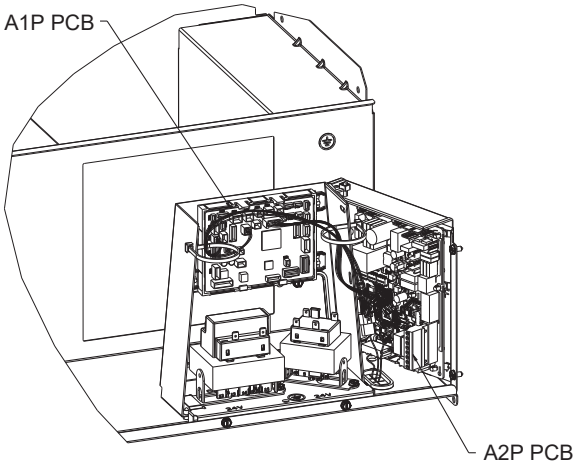
FBA18 - 48AAVJU



FTA18 - 48AAVJUD
FTA18 - 48AAVJUA



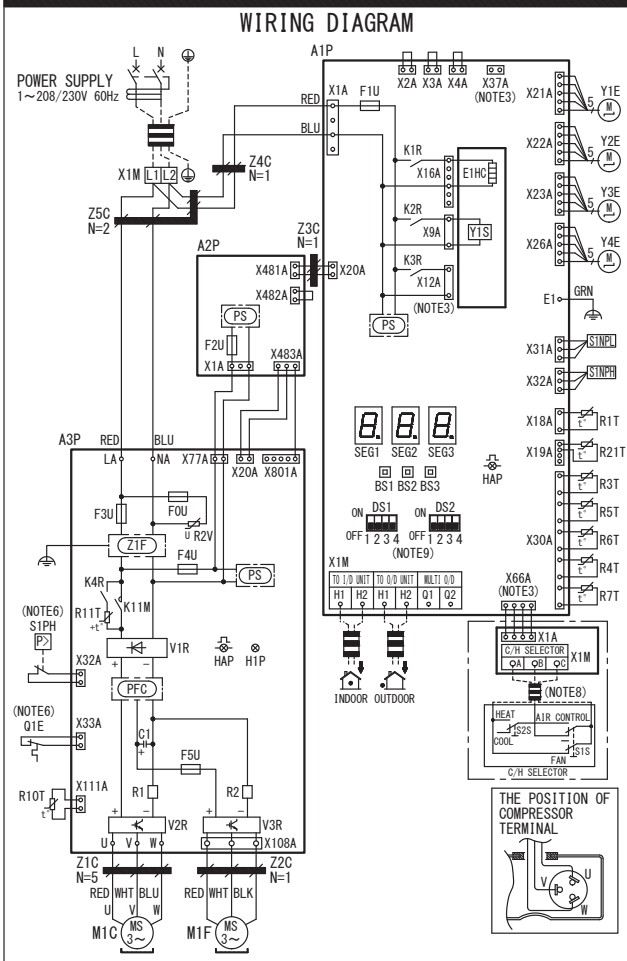
PCB ASSY PICTURE



C: 3D151135C

9.2 Outdoor Unit

RZA18 - 48AAVJU



NOTES)

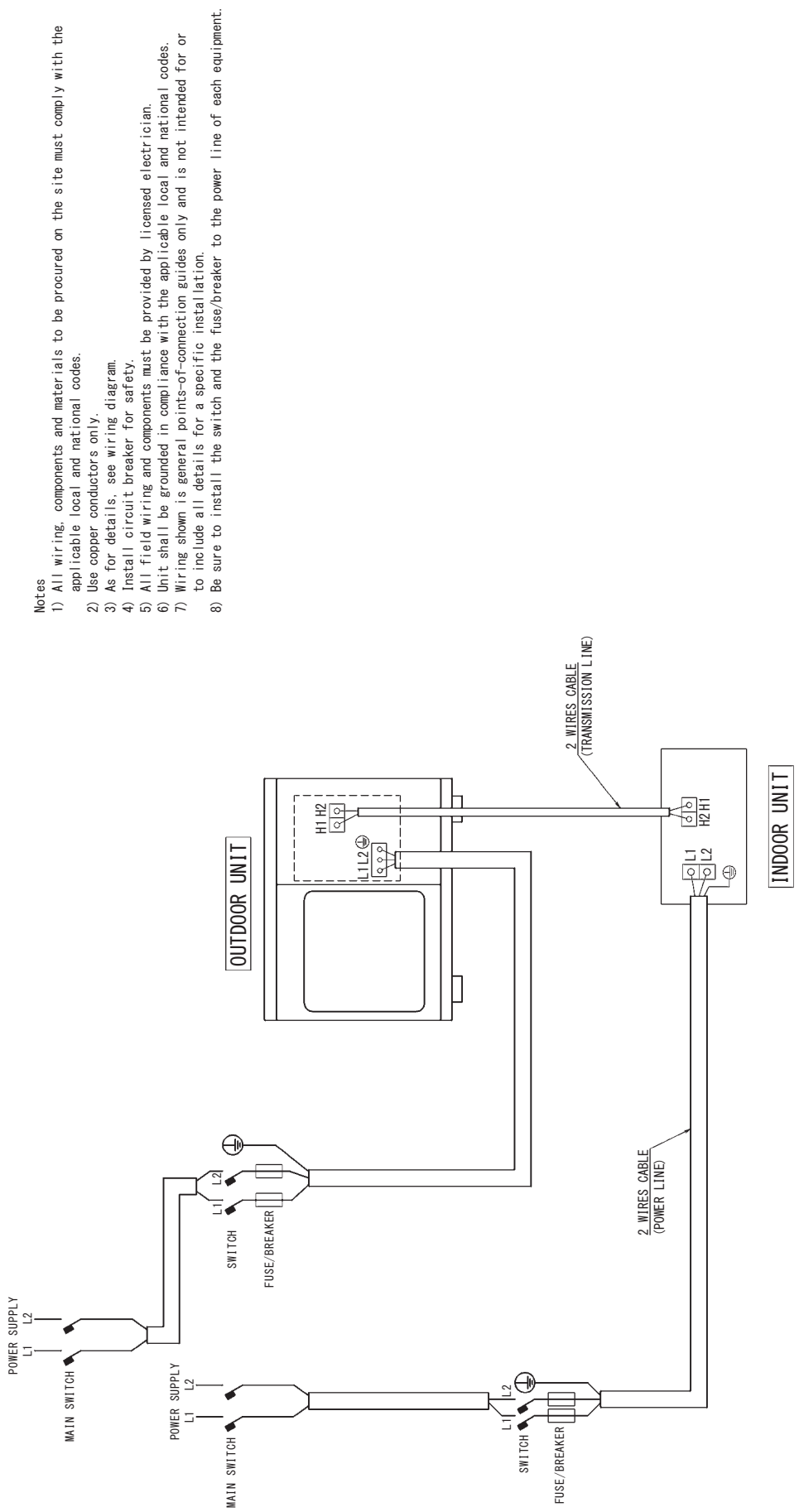
1. THIS WIRING DIAGRAM APPLIES ONLY TO THE OUTDOOR UNIT.
2. ≡: FIELD WIRING ⏚: PROTECTIVE GROUND (SCREW) □□: TERMINAL BLOCK ⏚: NOISELESS GROUND
   ○: TERMINAL ●: CONNECTION ⊡: CONNECTOR
3. WHEN USING THE OPTIONAL ACCESSORIES, REFER TO THE INSTALLATION MANUAL OF THE OPTIONAL ACCESSORIES.
4. FOR CONNECTION WIRING FROM OUTDOOR-INDOOR TRANSMISSION H1・H2, OUTDOOR-OUTDOOR TRANSMISSION H1・H2 REFER TO INSTALLATION MANUAL.
5. HOW TO USE BS1～BS3 SWITCH, REFER TO "SERVICE PRECAUTIONS" LABEL ON BACK SIDE OF FRONT PLATE.
6. WHEN OPERATING, DO NOT SHORT-CIRCUIT PROTECTION DEVICES (S1PH AND Q1E).
7. COLOR: BLK: BLACK; RED: RED; BLU: BLUE; WHT: WHITE; GRN: GREEN.
8. CLASS 2 WIRE.
9. THE POSITIONS OF THE SELECTOR SWITCHES (DS1, DS2) INDICATE FACTORY SETTING. REFER TO THE SERVICE MANUAL IN DETAIL.

A1P	PRINTED CIRCUIT BOARD (MAIN)	R10T	THERMISTOR (FIN)
A2P	PRINTED CIRCUIT BOARD (ACS)	R11T	PTC THERMISTOR
A3P	PRINTED CIRCUIT BOARD (COMP. INV.)	R21T	THERMISTOR (DISCHARGE PIPE)
C1	CAPACITOR	R2V	VARISTOR
BS1～BS3	PUSH BUTTON SWITCH (A1P) (MODE, SET, RETURN)	SEG1～SEG3	7-SEGMENT DISPLAY (A1P)
DS1, DS2	DIP SWITCH	S1NPH	PRESSURE SENSOR (HIGH)
E1HC	CRANKCASE HEATER	S1NPL	PRESSURE SENSOR (LOW)
F0U～F5U	FUSE	S1PH	PRESSURE SWITCH (HIGH)
H1P	PILOT LAMP (SERVICE MONITOR-RED)	V1R	DIODE BRIDGE
HAP	FLASHING LAMP (SERVICE MONITOR-GREEN)	V2R, V3R	IGBT POWER MODULE
K1R～K4R	MAGNETIC RELAY	X1M	TERMINAL BLOCK (POWER SUPPLY)
K11M	MAGNETIC CONTACTOR	X1M	TERMINAL BLOCK (CONTROL) (A1P)
M1C	MOTOR (COMPRESSOR)	Y1E	ELECTRONIC EXPANSION VALVE (MAIN)
M1F	MOTOR (FAN)	Y2E	ELECTRONIC EXPANSION VALVE (INVERTER COOLING)
PFC	POWER FACTOR CORRECTION	Y3E	ELECTRONIC EXPANSION VALVE (SUBCOOL HEAT EXC.)
PS	SWITCHING POWER SUPPLY	Y4E	ELECTRONIC EXPANSION VALVE (INJECTION)
Q1E	OVERLOAD PROTECTOR	Y1S	SOLENOID VALVE (4 WAY VALVE)
R1, R2	RESISTOR (CURRENT SENSOR)	Z1C～Z5C	FERRITE CORE
R1T	THERMISTOR (AIR)	Z1F	NOISE FILTER
R3T	THERMISTOR (SUCTION PIPE)		
R4T	THERMISTOR (HEAT EXC. LIQUID PIPE)	CONNECTOR FOR OPTIONAL ACCESSORIES	
R5T	THERMISTOR (SUBCOOLED LIQUID PIPE)	X12A	CONNECTOR (DRAIN PAN HEATER)
R6T	THERMISTOR (SUBCOOLED GAS PIPE)	X37A	CONNECTOR (OPTION ADAPTOR)
R7T	THERMISTOR (DEICER)	X66A	CONNECTOR (C/H SELECTOR)

3D151135-1C

10.Field Wiring

RZA18 - 48AAVJU



11. Electrical Characteristics

11.1 Indoor Unit

FCA18 - 48AAVJU

Model	Power supply					IFM		Input (W)		SCCR
	Hz	Voltage	Voltage range	MCA	MOP	HP (W)	IDI	Cooling	Heating	
FCA18AAVJU	60	208/230 V	Max. 253 V Min. 187 V	0.5	15	0.07 (53)	0.4	72	68	SCCR kA rms, Symmetrical @600V MAX: 5
FCA24AAVJU				0.5	15	0.07 (53)	0.4	72	68	
FCA30AAVJU				1.0	15	0.14 (106)	0.8	128	110	
FCA36AAVJU				1.6	15	0.14 (106)	1.3	217	207	
FCA42AAVJU				1.6	15	0.14 (106)	1.3	217	207	
FCA48AAVJU				1.6	15	0.14 (106)	1.3	217	207	

Symbols:
MCA: Minimum Circuit Ampacity (A)
MOP: Maximum Overcurrent Protective Device (A)
HP (W): Fan Motor Rated Output (HP (W))
IDI: Inverter Drive Input (A)
IFM: Indoor Fan Motor
SCCR: Short-Circuit Current Rating

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

4D151716

Model		FCA18AAVJU		FCA24AAVJU		FCA30AAVJU		FCA36AAVJU		FCA42AAVJU		FCA48AAVJU	
Operation mode		Cooling	Heating	Cooling	Heating	Cooling	Heating	Cooling	Heating	Cooling	Heating	Cooling	Heating
Input power (W)	H	70	66	72	68	128	110	217	207	217	207	217	207
	M	44	42	44	42	89	83	101	91	115	103	115	103
	L	25	24	25	24	51	46	51	46	64	59	64	59

3D151718

FAA18 - 24AAVJU

Model	Power supply					IFM		Input (W)		SCCR
	Hz	Voltage	Voltage range	MCA	MOP	HP (W)	IDI	Cooling	Heating	
FAA18AAVJU	60	208/230 V	Max. 253 V Min. 187 V	0.5	15	0.08 (58)	0.4	25	25	SCCR kA rms, Symmetrical @600V MAX:5
FAA24AAVJU				0.6	15	0.08 (58)	0.5	44	44	

Symbols:
MCA: Minimum Circuit Ampacity (A)
MOP: Maximum Overcurrent Protective Device (A)
HP (W): Fan Motor Rated Output (HP (W))
IDI: Inverter Drive Input (A)
IFM: Indoor Fan Motor
SCCR: Short-Circuit Current Rating

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

4D158245

Model		FAA18AAVJU		FAA24AAVJU	
Operation mode		Cooling	Heating	Cooling	Heating
Input power (W)	H	25	25	44	44
	M	20	24	32	32
	L	15	20	24	24

3D158701

FBA18 - 48AAVJU

Model	Power supply					IFM		Input (W)		SCCR
	Hz	Voltage	Voltage range	MCA	MOP	HP (W)	IDI	Cooling	Heating	
FBA18AAVJU	60	208/230 V	Max. 253 V Min. 187 V	1.9	15	0.22 (163)	1.5	262	256	SCCR kA rms, Symmetrical @600V MAX: 5
FBA24AAVJU				1.9	15	0.22 (163)	1.5	257	251	
FBA30AAVJU				3.0	15	0.52 (390)	2.4	397	391	
FBA36AAVJU				3.1	15	0.52 (390)	2.5	401	395	
FBA42AAVJU				3.6	15	0.52 (390)	2.9	464	458	
FBA48AAVJU				3.6	15	0.52 (390)	2.9	464	458	

Symbols:

MCA: Minimum Circuit Ampacity (A)
MOP: Maximum Overcurrent Protective Device (A)
HP (W): Fan Motor Rated Output (HP (W))
IDI: Inverter Drive Input (A)
IFM: Indoor Fan Motor
SCCR: Short-Circuit Current Rating

Note:

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

C: 4D151581

Model		FBA18AAVJU		FBA24AAVJU		FBA30AAVJU		FBA36AAVJU		FBA42AAVJU		FBA48AAVJU	
Operation mode		Cooling	Heating	Cooling	Heating	Cooling	Heating	Cooling	Heating	Cooling	Heating	Cooling	Heating
Input power (W)	H	262	256	257	251	397	391	401	395	464	458	464	458
	M	211	207	198	194	298	295	293	290	331	327	331	327
	L	178	175	167	163	224	222	214	212	237	234	237	234

3D151584

FTA18 - 48AAVJUD
FTA18 - 48AAVJUA

Model	Power supply					IFM		Input (W)	
	Hz	Voltage	Voltage range	MCA	MOP	HP	IDI	Cooling	Heating
FTA18AAVJUD	60	208/230 V	Max. 253 V Min. 197 V	4.9	15	1/2	3.9	182	162
FTA24AAVJUD	60	208/230 V		4.9	15	1/2	3.9	258	232
FTA30AAVJUD	60	208/230 V		4.9	15	1/2	3.9	369	348
FTA36AAVJUD	60	208/230 V		4.9	15	1/2	3.9	404	381
FTA42AAVJUD	60	208/230 V		6.5	15	3/4	5.2	509	477
FTA48AAVJUD	60	208/230 V		6.5	15	3/4	5.2	620	591
FTA18AAVJUA	60	208/230 V	Max. 253 V Min. 197 V	4.9	15	1/2	3.9	182	162
FTA24AAVJUA	60	208/230 V		4.9	15	1/2	3.9	258	232
FTA30AAVJUA	60	208/230 V		4.9	15	1/2	3.9	369	348
FTA36AAVJUA	60	208/230 V		4.9	15	1/2	3.9	404	381
FTA42AAVJUA	60	208/230 V		6.5	15	3/4	5.2	509	477
FTA48AAVJUA	60	208/230 V		6.5	15	3/4	5.2	620	591

Symbols:
MCA : Minimum Circuit Ampacity (A)
MOP : Maximum Overcurrent Protective Device (A)
IFM : Indoor Fan Motor
HP : Fan Motor Rated Output (HP)
IDI: Inverter Drive Input (A)

Note:
1. Voltage range
   Units are suitable for use on electrical systems where voltage supplied to unit terminals is not below or above listed range limits.
2. Maximum allowable voltage imbalance between phases is 2%.
3. Select wiring size based on the MCA.
4. Indoor power consumption (Input) values given are rated values on standard condition and not maximum values.

11.2 Electric Heater

FTA18 - 36AAVJUD
FTA18 - 36AAVJUA

MODEL	CIRCUIT 1			CIRCUIT 2			SINGLE E-POINT KIT	
	AMPS	MCA	MOP	AMPS	MCA	MOP	MCA	MOP
FTA18AAVJUD FTA18AAVJUA	0/0	4.9/4.9	15/15	—	—	—	—	—
HKTSN03X1	10.8/12.5	18.4/20.5	20/25	—	—	—	—	—
HKTS*05X1	17.3/20.0	26.5/29.9	30/30	—	—	—	—	—
HKTSN06X1	21.7/25.0	32.0/36.1	35/40	—	—	—	—	—
HKTS*08X1	28.9/33.3	41.0/46.5	45/50	—	—	—	—	—
HKTS*10X1	34.7/40.0	48.2/54.9	50/60	—	—	—	—	—
FTA24AAVJUD FTA24AAVJUA	0/0	4.9/4.9	15/15	—	—	—	—	—
HKTSN03X1	10.8/12.5	18.4/20.5	20/25	—	—	—	—	—
HKTS*05X1	17.3/20.0	26.5/29.9	30/30	—	—	—	—	—
HKTSN06X1	21.7/25.0	32.0/36.1	35/40	—	—	—	—	—
HKTS*08X1	28.9/33.3	41.0/46.5	45/50	—	—	—	—	—
HKTS*10X1	34.7/40.0	48.2/54.9	50/60	—	—	—	—	—
FTA30AAVJUD FTA30AAVJUA	0/0	4.9/4.9	15/15	—	—	—	—	—
HKTSN03X1	10.8/12.5	18.4/20.5	20/25	—	—	—	—	—
HKTS*05X1	17.3/20.0	26.5/29.9	30/30	—	—	—	—	—
HKTSN06X1	21.7/25.0	32.0/36.1	35/40	—	—	—	—	—
HKTS*08X1	28.9/33.3	41.0/46.5	45/50	—	—	—	—	—
HKTS*10X1	34.7/40.0	48.2/54.9	50/60	—	—	—	—	—
FTA36AAVJUD FTA36AAVJUA	0/0	4.9/4.9	15/15	—	—	—	—	—
HKTSN03X1	10.8/12.5	18.4/20.5	20/25	—	—	—	—	—
HKTS*05X1	17.3/20.0	26.5/29.9	30/30	—	—	—	—	—
HKTSN06X1	21.7/25.0	32.0/36.1	35/40	—	—	—	—	—
HKTS*08X1	28.9/33.3	41.0/46.5	45/50	—	—	—	—	—
HKTS*10X1	34.7/40.0	48.2/54.9	50/60	—	—	—	—	—

Note:

1. AMPS indicates heater amp draw.
2. Circuit 1 indicates single point power connection requirements when using a single stage electric heater. Circuit 1 powers both the FTA 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 FTA18 - 36AAVJUD models.

FTA42 - 48AAVJUD
FTA42 - 48AAVJUA

MODEL	CIRCUIT 1			CIRCUIT 2			SINGLE E-POINT KIT	
	AMPS	MCA	MOP	AMPS	MCA	MOP	MCA	MOP
FTA42AAVJUD FTA42AAVJUA	0/0	6.5/6.5	15/15	—	—	—	—	—
HKTS*05X1	17.3/20.0	28.2/31.5	30/35	—	—	—	—	—
HKTSN06X1	21.7/25.0	33.6/37.8	35/40	—	—	—	—	—
HKTS*08X1	28.9/33.3	42.6/48.2	45/50	—	—	—	—	—
HKTS*10X1	34.7/40.0	49.8/56.5	50/60	—	—	—	—	—
HKTSD15XA/B	34.7/40.0	49.8/56.5	50/60	17.3/20.0	21.6/25.0	25/25	71.5/81.5	80/90
HKTSD19CA/B	34.7/40.0	49.8/56.5	50/60	34.7/40.0	43.4/50.0	45/50	93.2/107	100/110
FTA48AAVJUD FTA48AAVJUA	0/0	6.5/6.5	15/15	—	—	—	—	—
HKTS*05X1	17.3/20.0	28.2/31.5	30/35	—	—	—	—	—
HKTSN06X1	21.7/25.0	33.6/37.8	35/40	—	—	—	—	—
HKTS*08X1	28.9/33.3	42.6/48.2	45/50	—	—	—	—	—
HKTS*10X1	34.7/40.0	49.8/56.5	50/60	—	—	—	—	—
HKTSD15XA/B	34.7/40.0	49.8/56.5	50/60	17.3/20.0	21.6/25.0	25/25	71.5/81.5	80/90
HKTSD19CA/B	34.7/40.0	49.8/56.5	50/60	34.7/40.0	43.4/50.0	45/50	93.2/107	100/110

Note:

1. AMPS indicates heater amp draw.
2. Circuit 1 indicates single point power connection requirements when using a single stage electric heater. Circuit 1 powers both the FTA 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 FTA42 - 48AAVJUD models.

11.3 Outdoor Unit

RZA18 - 48AAVJU

Model	Power Supply						Fan/Compressor Inverter Drive Input	Fan Motor Output		SCCR
	Hz	Volts	Min.	Max.	MCA	MOP	A	Hp	W	
RZA18AAVJU	60	208/230	187	253	19.8	20	15.1	0.31	234	SCCR kA rms, Symmetrical @600V MAX: 5
RZA24AAVJU	60	208/230	187	253	19.8	20	15.1	0.31	234	
RZA30AAVJU	60	208/230	187	253	34.6	35	27.0	0.31	234	
RZA36AAVJU	60	208/230	187	253	34.6	35	27.0	0.31	234	
RZA42AAVJU	60	208/230	187	253	34.6	35	27.0	0.31	234	
RZA48AAVJU	60	208/230	187	253	34.6	35	27.0	0.31	234	

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

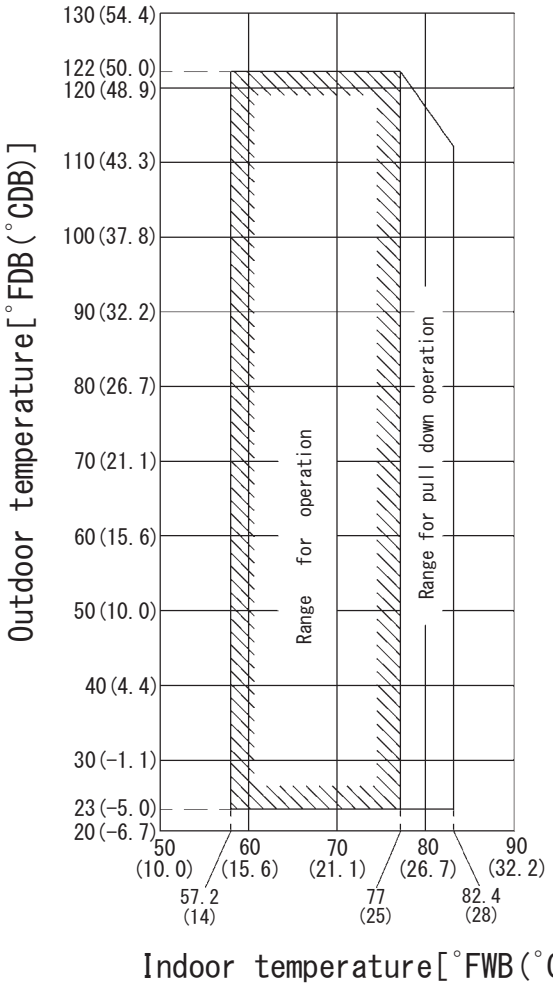
Notes:
1. Voltage range
   Units are suitable for use on electrical systems where voltage supplied to unit terminal is not below or above listed range limits.
2. Maximum allowable voltage unbalance between phases is 2%.
3. Select wiring size based on the MCA.
4. MOP is used to select the circuit breaker.

3D153892

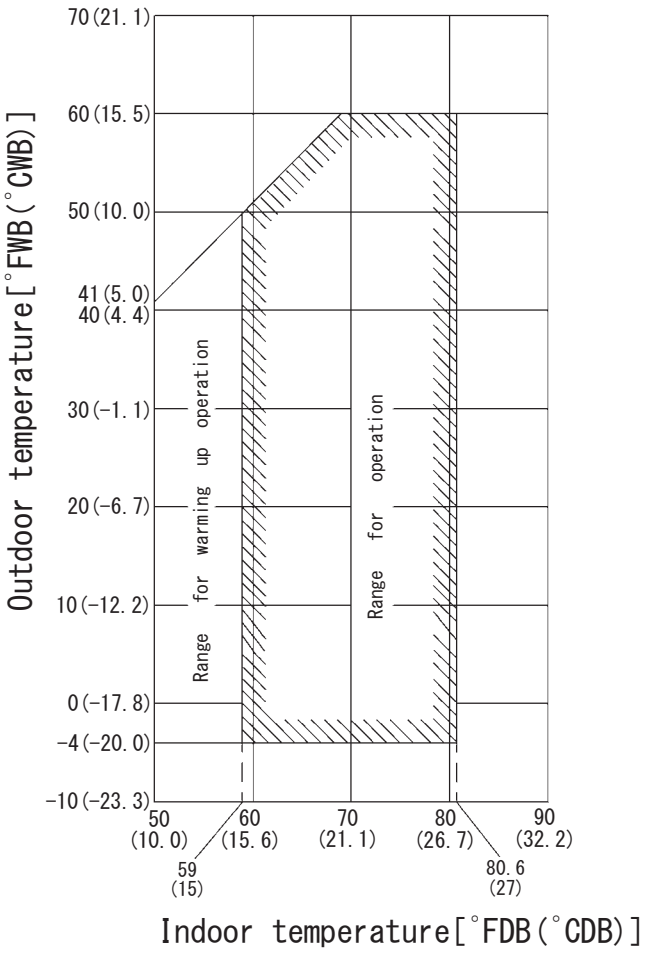
12.Operation Limits

RZA18 - 48AAVJU

Cooling



Heating



Note) This chart shows the range in which the outdoor unit can operate and be used.
It does not indicate the range of guaranteed capacity. Refer to performance characteristics for capacity.

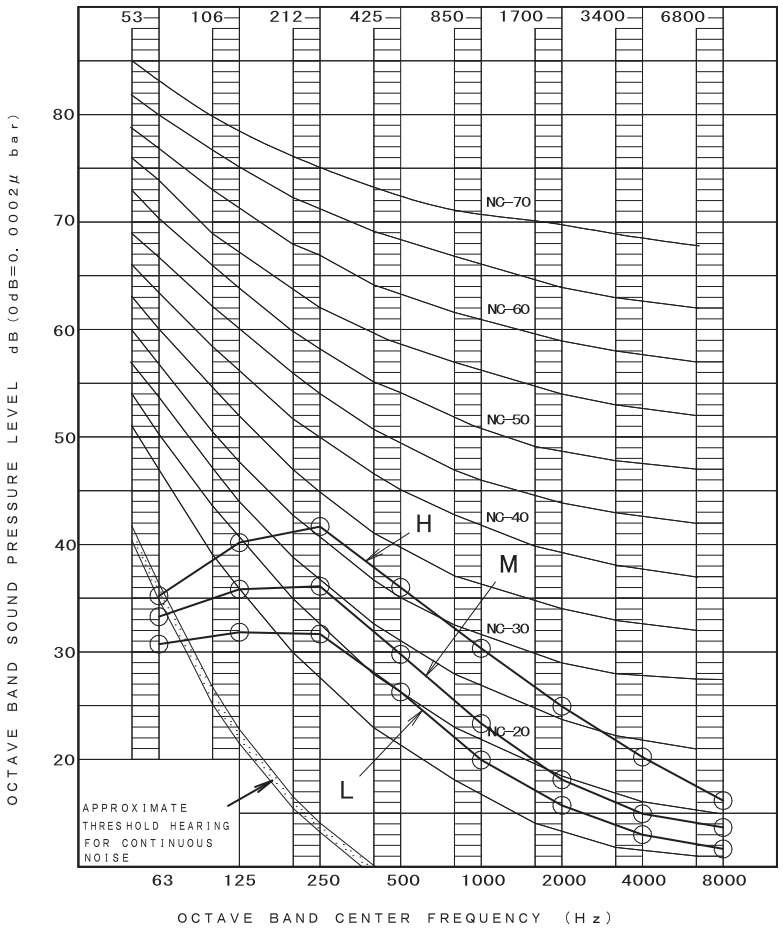
3D154692

13.Sound Levels (Reference Data)

13.1 Indoor Unit

13.1.1 FCA

FCA18 - 24AAVJU



OVER ALL (dB)

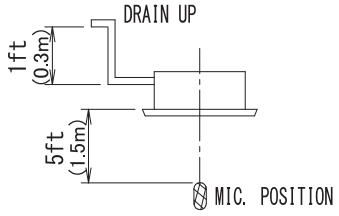
SCALE	H	M	L
A	38.0	32.0	28.0

(B.G.N IS ALREADY RECTIFIED)

OPERATING CONDITIONS

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

LOCATION OF MICROPHONE



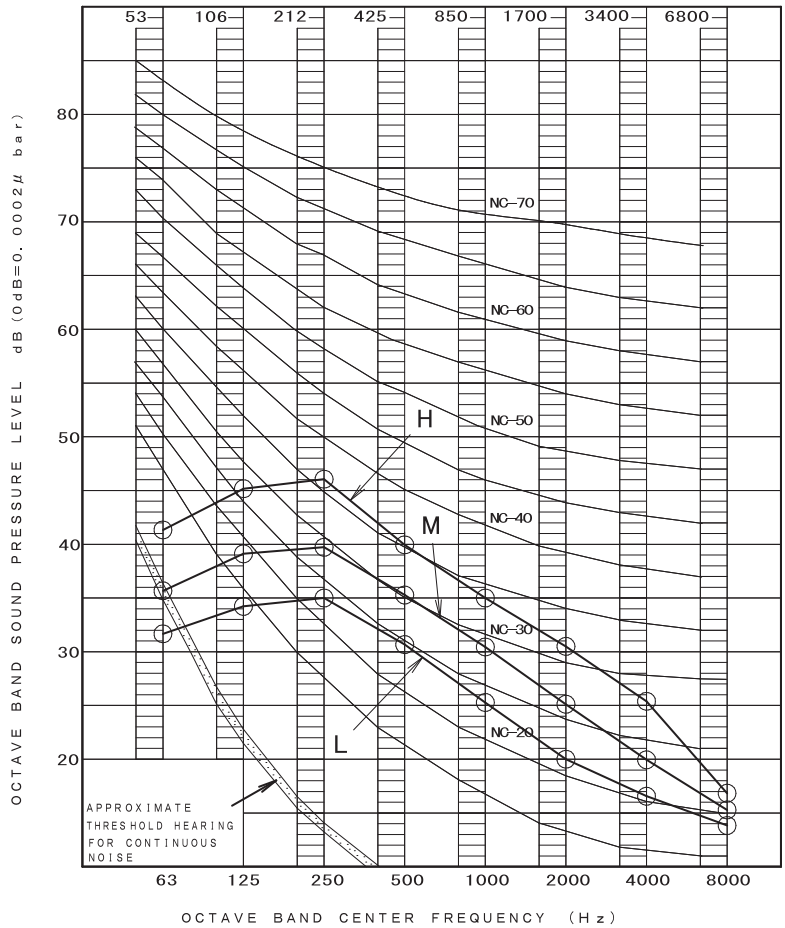
MEASURING PLACE

ANECHOIC CHAMBER

NOTE: OPERATION NOISE DIFFERS WITH OPERATION AND AMBIENT CONDITIONS.

4D140998

FCA30AAVJU



OVER ALL (dB)

SCALE	H	M	L
A	42.0	37.0	32.0

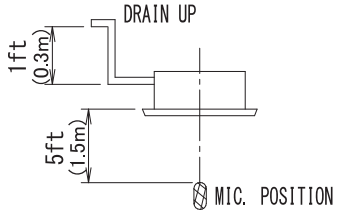
(B.G.N IS ALREADY RECTIFIED)

OPERATING CONDITIONS

POWER SOURCE 208/230V 60Hz

COOLING	RETURN AIR TEMPERATURE:80.0°F(26.7°C)DB,67.0°F(19.4°C)WB OUTDOOR TEMPERATURE:95.0°F(35.0°C)DB,75.0°F(23.9°C)WB
HEATING	RETURN AIR TEMPERATURE:70.0°F(21.1°C)DB,60.0°F(15.6°C)WB OUTDOOR TEMPERATURE:47.0°F(8.3°C)DB,43.0°F(6.1°C)WB

LOCATION OF MICROPHONE



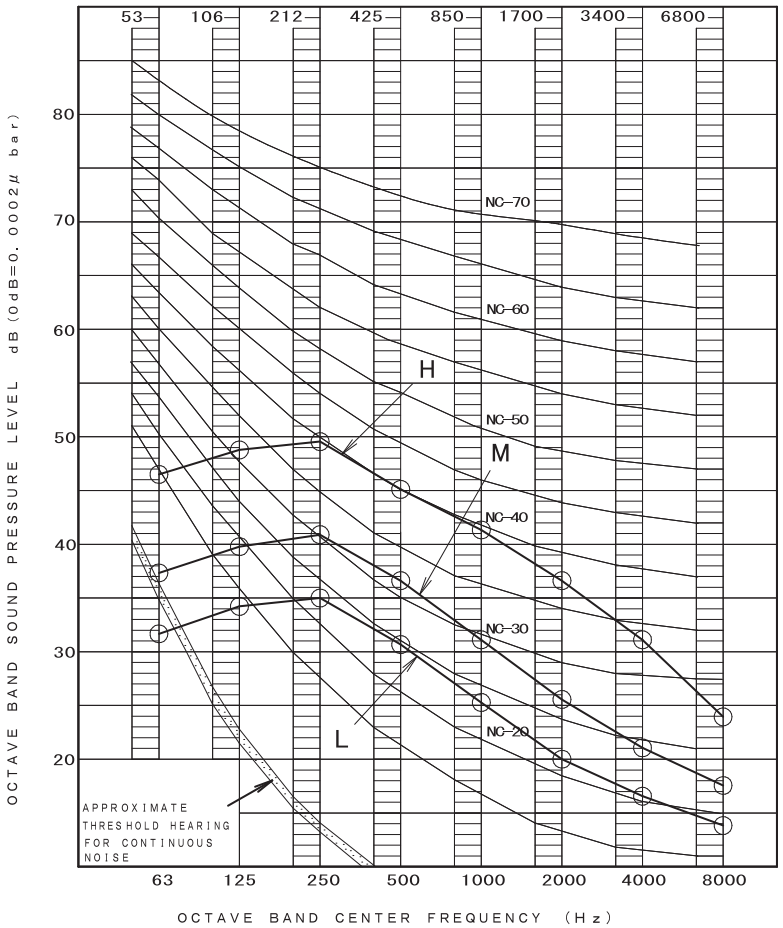
MEASURING PLACE

ANECHOIC CHAMBER

NOTE: OPERATION NOISE DIFFERS WITH OPERATION AND AMBIENT CONDITIONS.

4D140999

FCA36AAVJU



OVER ALL (dB)

SCALE	H	M	L
A	47.0	38.0	32.0

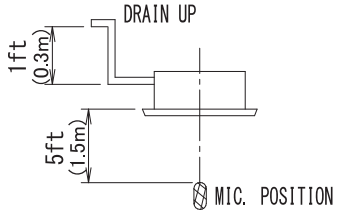
(B.G.N IS ALREADY RECTIFIED)

OPERATING CONDITIONS

POWER SOURCE 208/230V 60Hz

COOLING	RETURN AIR TEMPERATURE: 80.0°F (26.7°C) DB, 67.0°F (19.4°C) WB OUTDOOR TEMPERATURE: 95.0°F (35.0°C) DB, 75.0°F (23.9°C) WB
HEATING	RETURN AIR TEMPERATURE: 70.0°F (21.1°C) DB, 60.0°F (15.6°C) WB OUTDOOR TEMPERATURE: 47.0°F (8.3°C) DB, 43.0°F (6.1°C) WB

LOCATION OF MICROPHONE



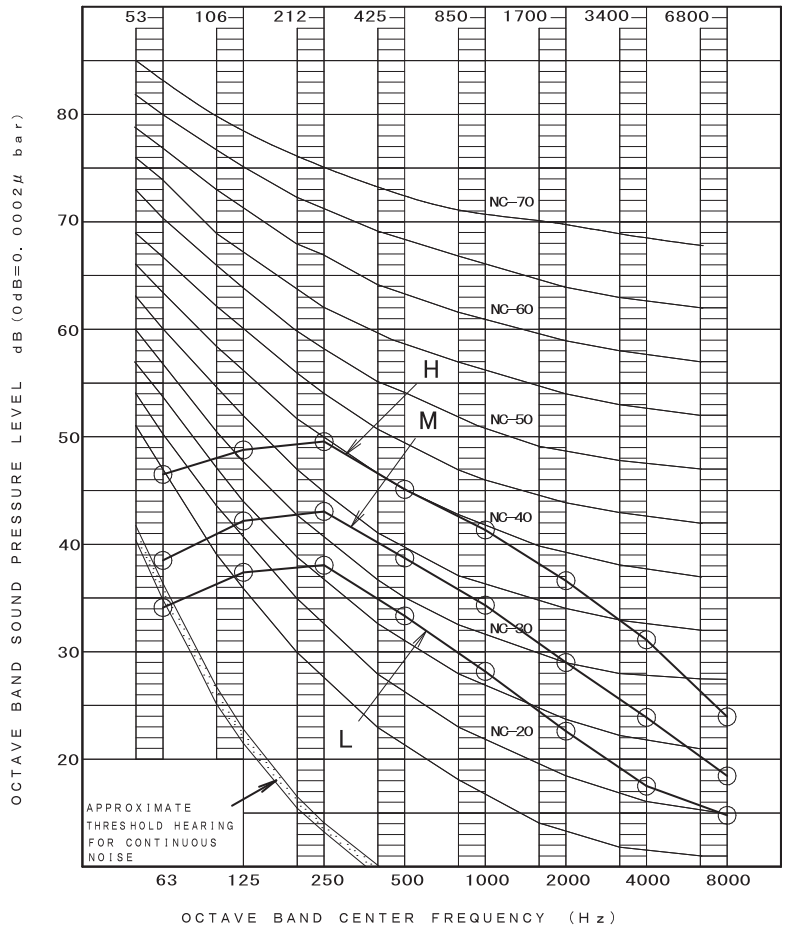
MEASURING PLACE

ANECHOIC CHAMBER

NOTE: OPERATION NOISE DIFFERS WITH OPERATION AND AMBIENT CONDITIONS.

4D141000

FCA42 - 48AAVJU



OVER ALL (dB)

SCALE	H	M	L
A	47.0	40.0	35.0

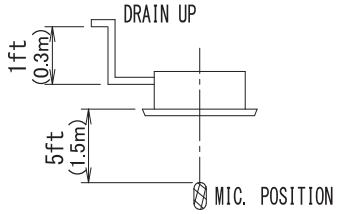
(B.G.N IS ALREADY RECTIFIED)

OPERATING CONDITIONS

POWER SOURCE 208/230V 60Hz

COOLING	RETURN AIR TEMPERATURE: 80.0°F (26.7°C) DB, 67.0°F (19.4°C) WB OUTDOOR TEMPERATURE: 95.0°F (35.0°C) DB, 75.0°F (23.9°C) WB
HEATING	RETURN AIR TEMPERATURE: 70.0°F (21.1°C) DB, 60.0°F (15.6°C) WB OUTDOOR TEMPERATURE: 47.0°F (8.3°C) DB, 43.0°F (6.1°C) WB

LOCATION OF MICROPHONE



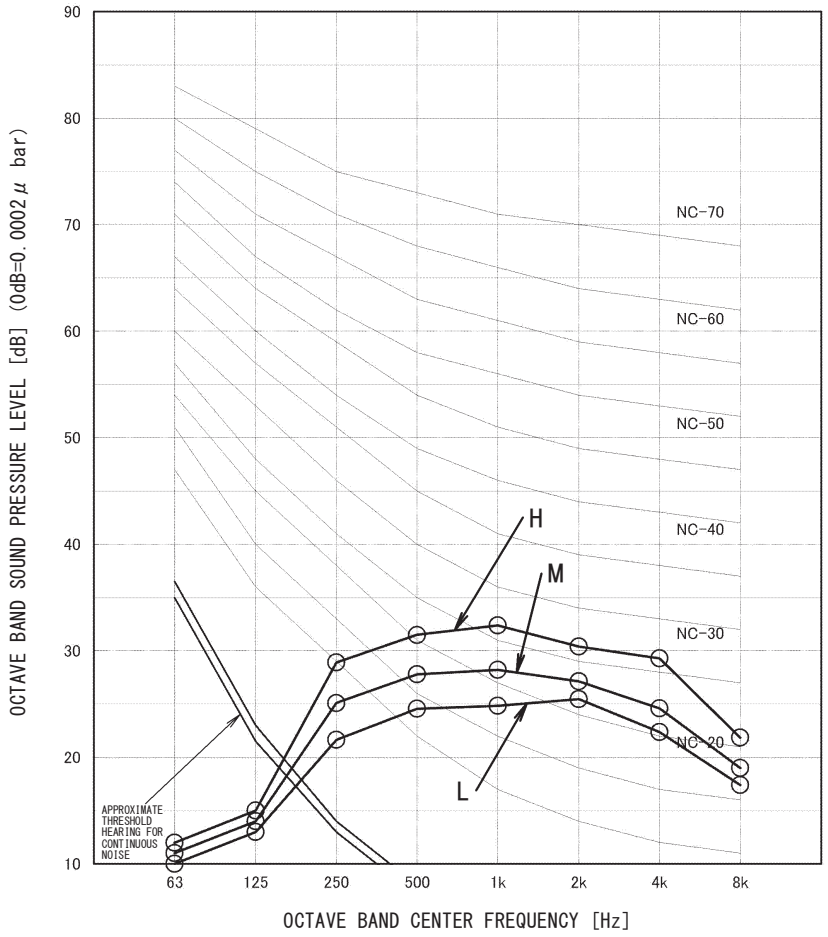
MEASURING PLACE

ANECHOIC CHAMBER

NOTE: OPERATION NOISE DIFFERS WITH OPERATION AND AMBIENT CONDITIONS.

4D141001

13.1.2 FAA
FAA18AAVJU



OVER ALL (dB)

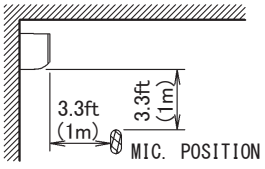
SCALE	MODE		
	H	M	L
A	38.0	34.0	31.0

(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

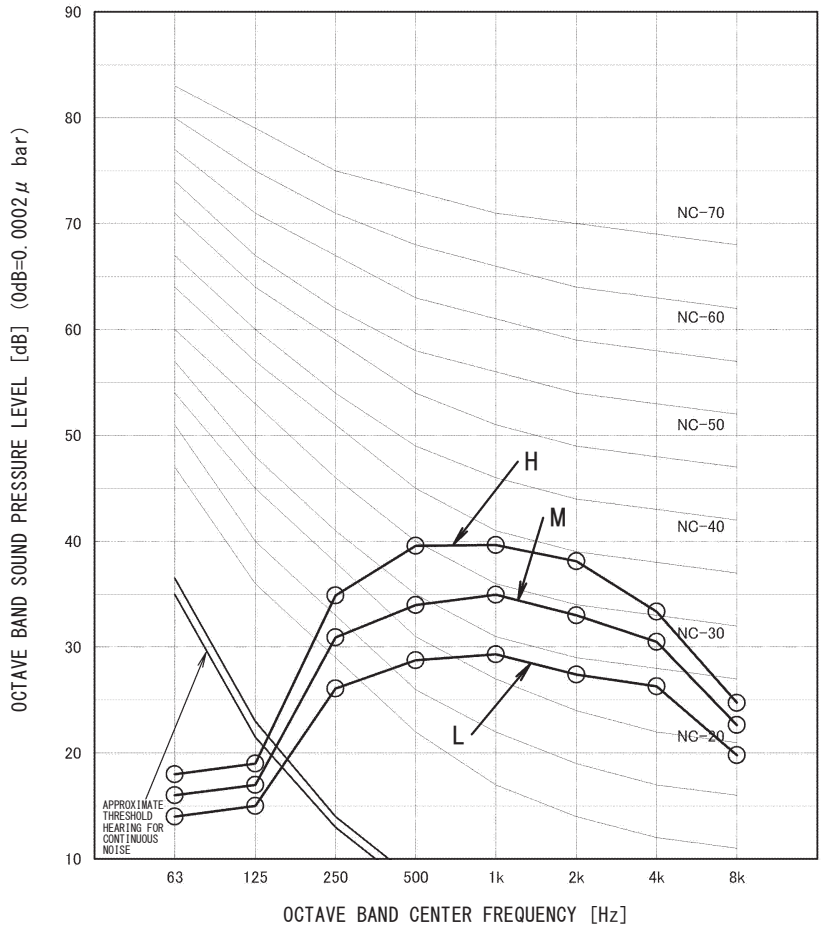


MEASURING PLACE

MEASURE IN ANECHOIC ROOM

NOTE: Operation noise differs with operation and ambient conditions.

FAA24AAVJU



OVER ALL (dB)

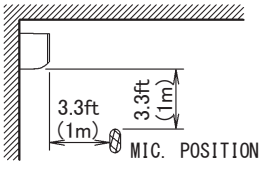
SCALE	MODE		
	H	M	L
A	45.0	40.0	35.0

(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



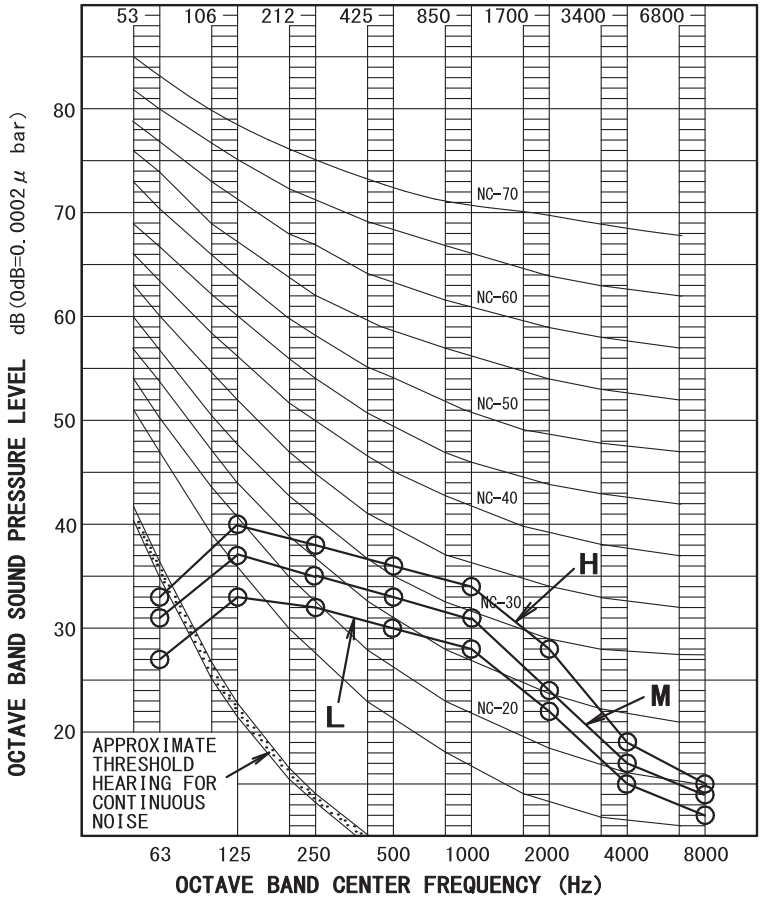
MEASURING PLACE

MEASURE IN ANECHOIC ROOM

NOTE: Operation noise differs with operation and ambient conditions.

4D158331

13.1.3 FBA
FBA18AAVJU



OVER ALL (dB)

SCALE	AIRFLOW RATE		
	H	M	L
A	38.0	35.0	32.0

(B.G.N IS ALREADY RECTIFIED)

MEASURING PLACE

ANECHOIC CHAMBER

OPERATING CONDITIONS

POWER SOURCE 208 / 230V 60Hz

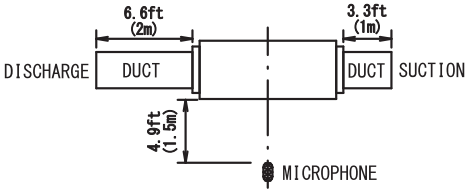
COOLING

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

HEATING

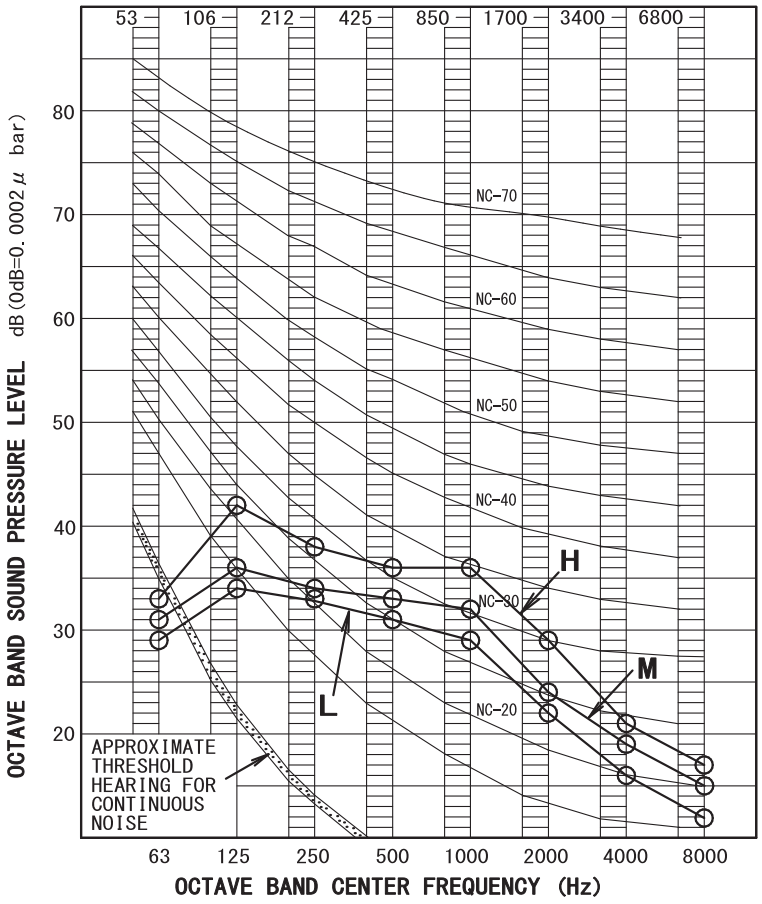
RETURN AIR TEMPERATURE: 70.0° F(21.1℃)DB, 60.0° F(15.6℃)WB
OUTDOOR TEMPERATURE : 47.0° F(8.3℃)DB, 43.0° F(6.1℃)WB

EXTERNAL STATIC PRESSURE 0.4in.WG(100Pa)



NOTE: OPERATION NOISE DIFFERS WITH OPERATION AND AMBIENT CONDITIONS.

FBA24AAVJU



OVER ALL (dB)

SCALE	AIRFLOW RATE		
	H	M	L
A	39.0	35.0	33.0

(B.G.N IS ALREADY RECTIFIED)

MEASURING PLACE

ANECHOIC CHAMBER

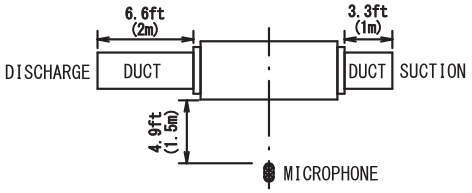
OPERATING CONDITIONS

POWER SOURCE 208 / 230V 60Hz

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

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

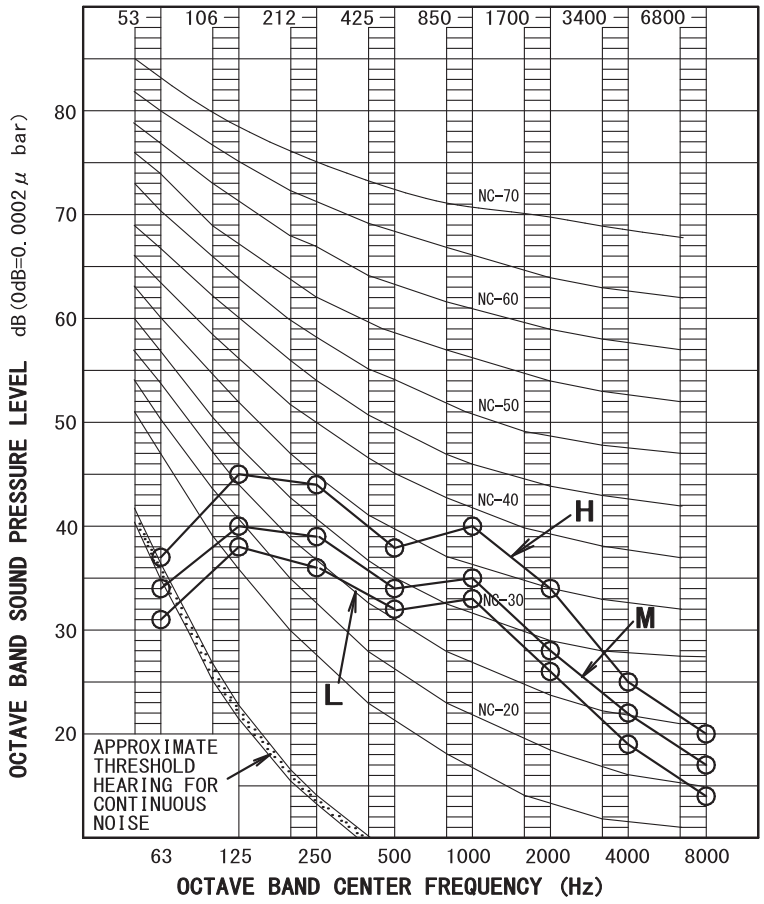
EXTERNAL STATIC PRESSURE 0.4in.WG(100Pa)



NOTE: OPERATION NOISE DIFFERS WITH OPERATION AND AMBIENT CONDITIONS.

4D143355

FBA30AAVJU



OVER ALL (dB)

SCALE	AIRFLOW RATE		
	H	M	L
A	43.0	38.0	36.0

(B.G.N IS ALREADY RECTIFIED)

MEASURING PLACE

ANECHOIC CHAMBER

OPERATING CONDITIONS

POWER SOURCE 208 / 230V 60Hz

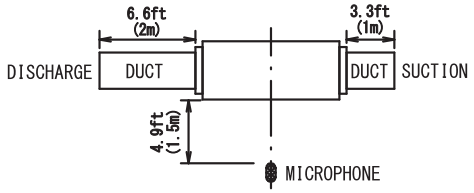
COOLING

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

HEATING

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

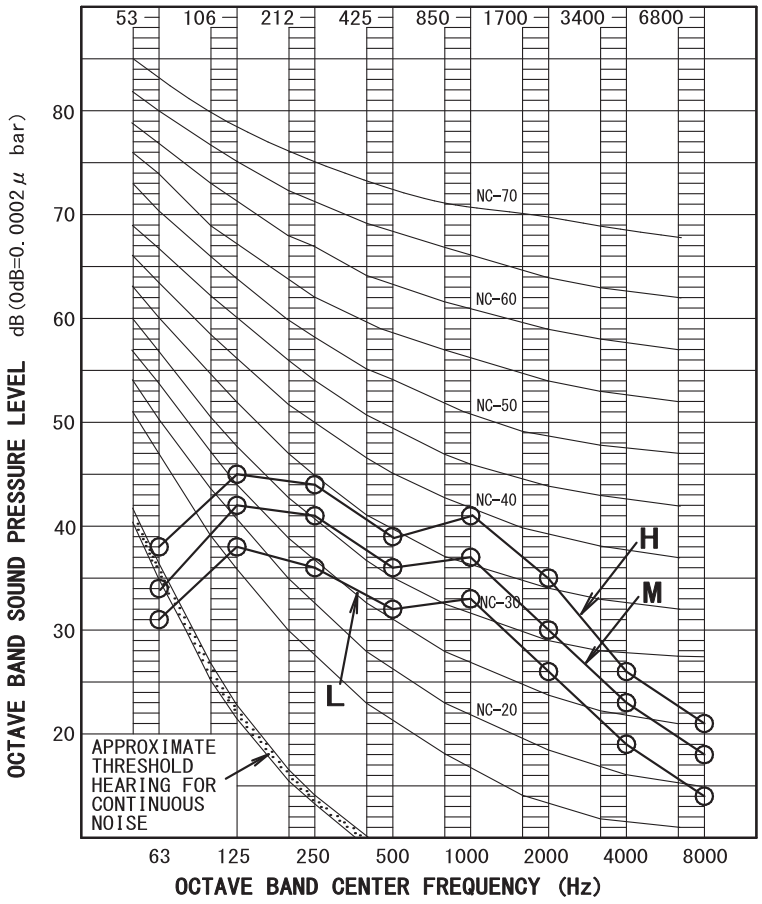
EXTERNAL STATIC PRESSURE 0.4in.WG(100Pa)



NOTE: OPERATION NOISE DIFFERS WITH OPERATION AND AMBIENT CONDITIONS.

4D143356

FBA36AAVJU



OVER ALL (dB)

SCALE	AIRFLOW RATE		
	H	M	L
A	44.0	40.0	36.0

(B.G.N IS ALREADY RECTIFIED)

MEASURING PLACE

ANECHOIC CHAMBER

OPERATING CONDITIONS

POWER SOURCE 208 / 230V 60Hz

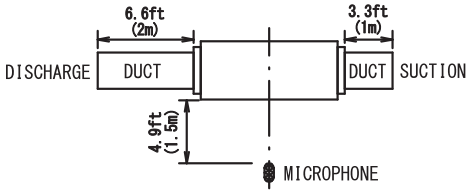
COOLING

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

HEATING

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

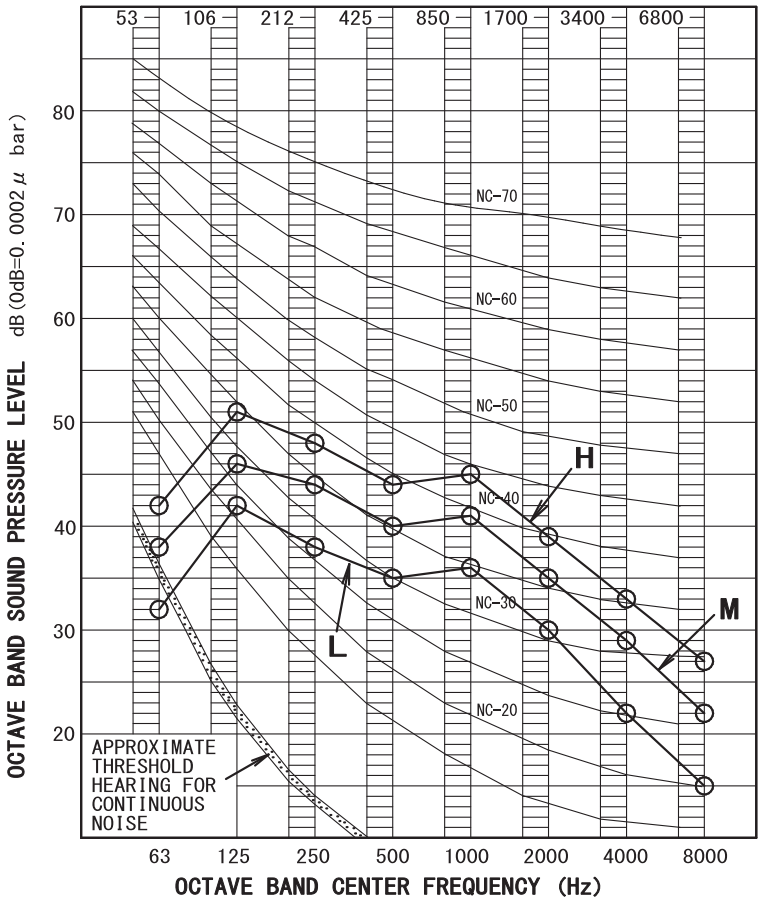
EXTERNAL STATIC PRESSURE 0.4in.WG(100Pa)



NOTE: OPERATION NOISE DIFFERS WITH OPERATION AND AMBIENT CONDITIONS.

4D143357

FBA42AAVJU



OVER ALL (dB)

SCALE	AIRFLOW RATE		
	H	M	L
A	48.0	44.0	39.0

(B.G.N IS ALREADY RECTIFIED)

MEASURING PLACE

ANECHOIC CHAMBER

OPERATING CONDITIONS

POWER SOURCE 208 / 230V 60Hz

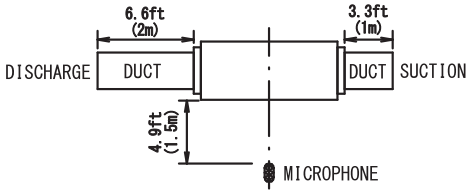
COOLING

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

HEATING

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

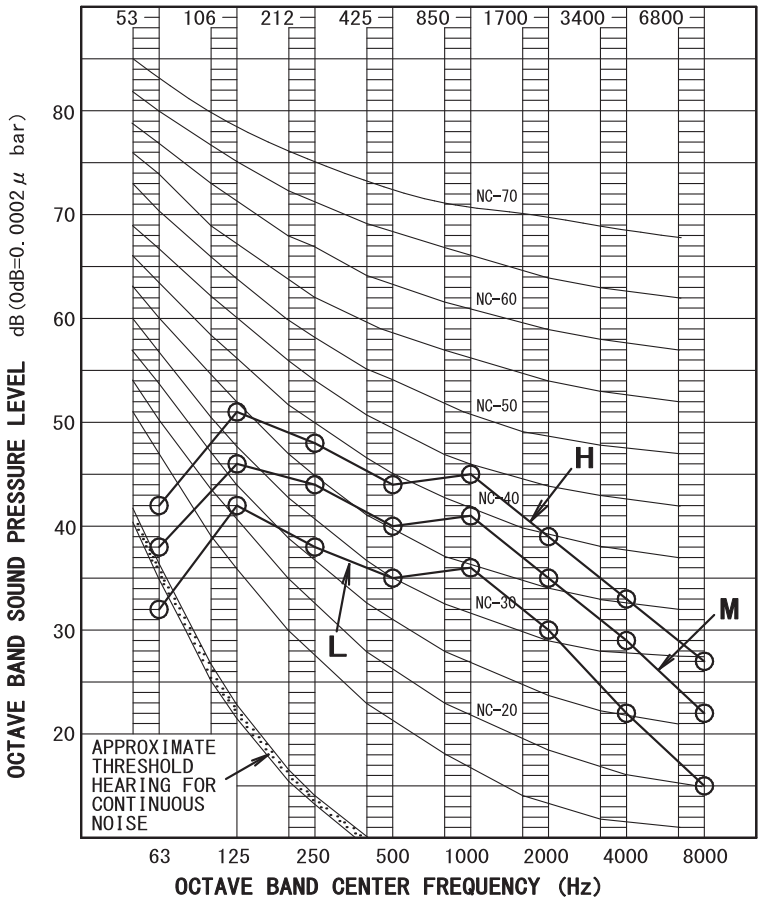
EXTERNAL STATIC PRESSURE 0.4in.WG(100Pa)



NOTE: OPERATION NOISE DIFFERS WITH OPERATION AND AMBIENT CONDITIONS.

4D143359

FBA48AAVJU



OVER ALL (dB)

SCALE	AIRFLOW RATE		
	H	M	L
A	48.0	44.0	39.0

(B.G.N IS ALREADY RECTIFIED)

MEASURING PLACE

ANECHOIC CHAMBER

OPERATING CONDITIONS

POWER SOURCE 208 / 230V 60Hz

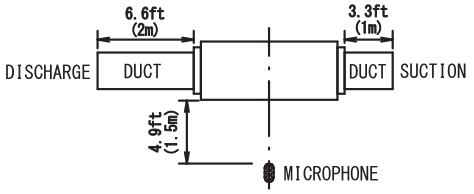
COOLING

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

HEATING

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

EXTERNAL STATIC PRESSURE 0.4in.WG(100Pa)



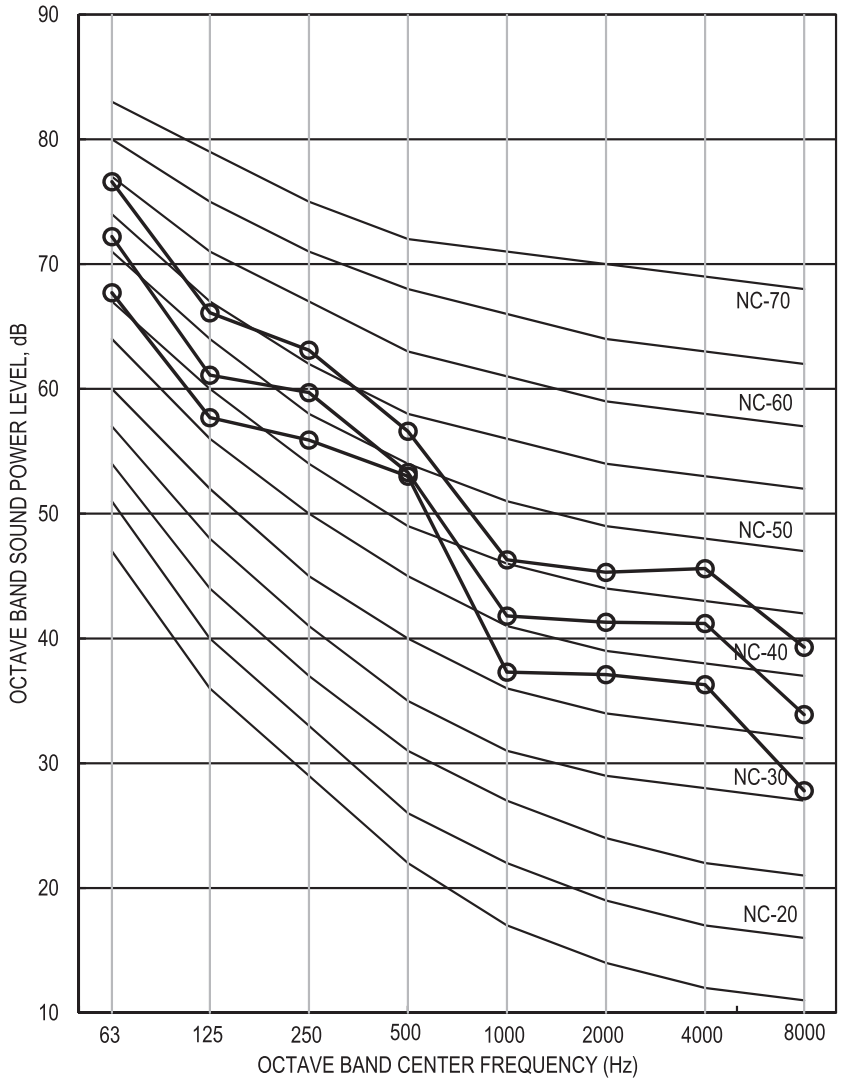
NOTE: OPERATION NOISE DIFFERS WITH OPERATION AND AMBIENT CONDITIONS.

4D143360

13.1.4 FTA
FTA18AAVJUD
FTA18AAVJUA

Sound levels tested in accordance with AHRI 260.

Ducted Inlet



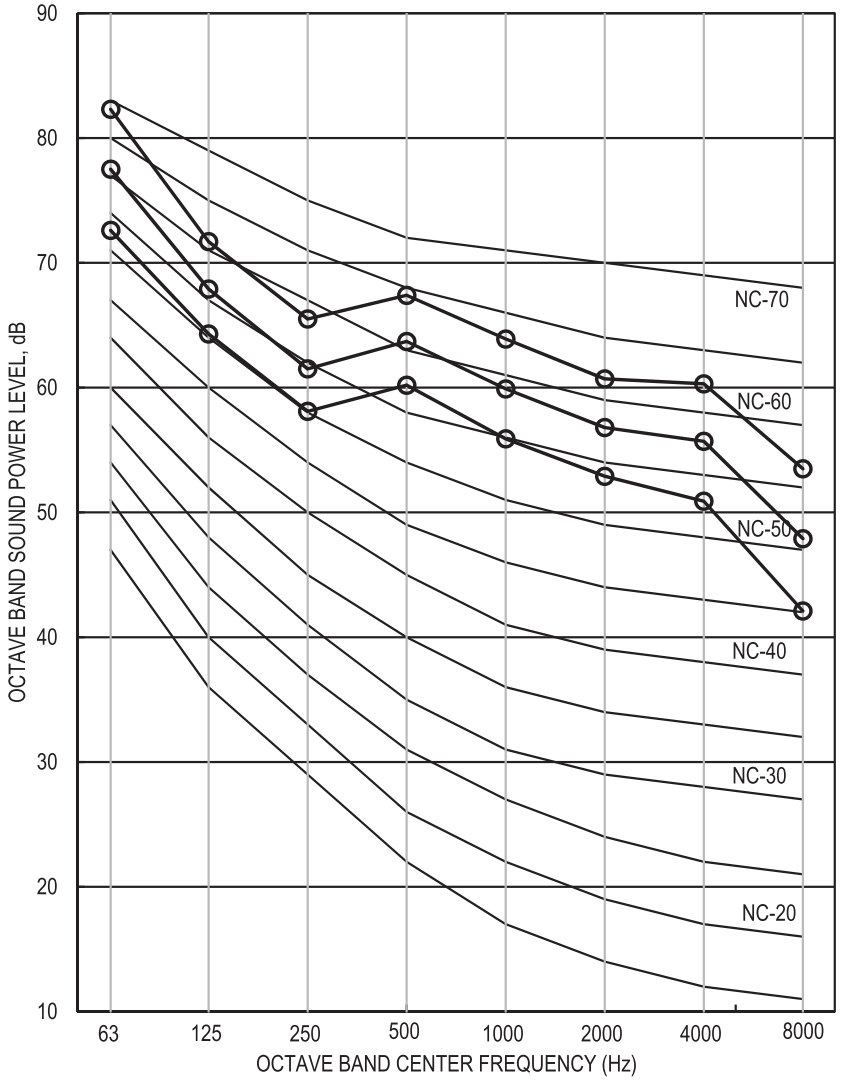
OVER ALL (dB)

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

FTA18AAVJUD
FTA18AAVJUA

Sound levels tested in accordance with AHRI 260.

Ducted Discharge



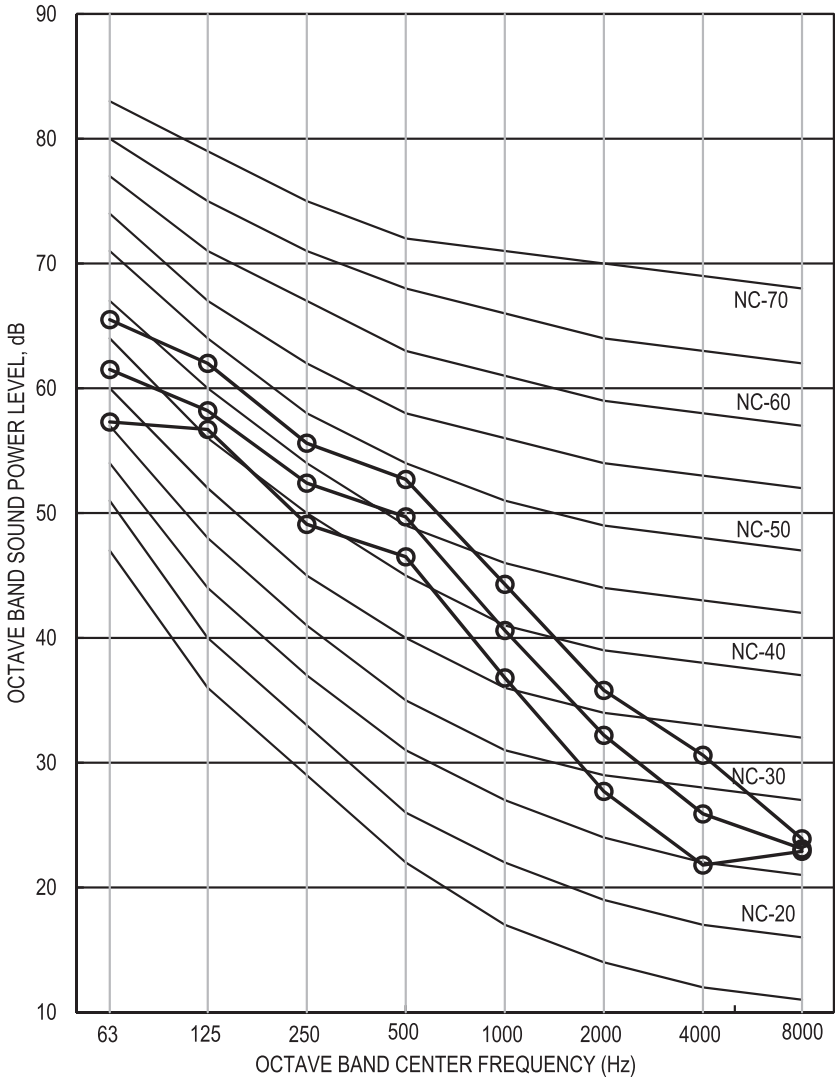
OVER ALL (dB)

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

FTA18AAVJUD
FTA18AAVJUA

Sound levels tested in accordance with AHRI 260.

Casing Radiated



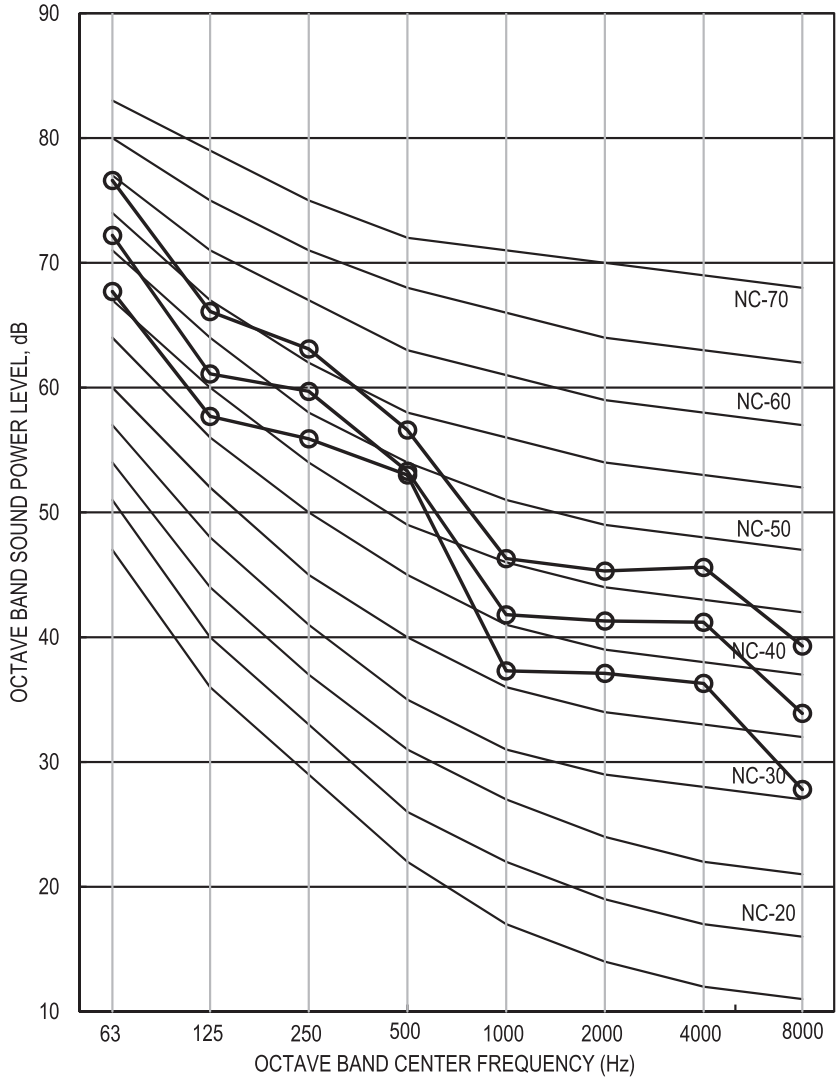
OVER ALL (dB)

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

FTA24AAVJUD
FTA24AAVJUA

Sound levels tested in accordance with AHRI 260.

Ducted Inlet



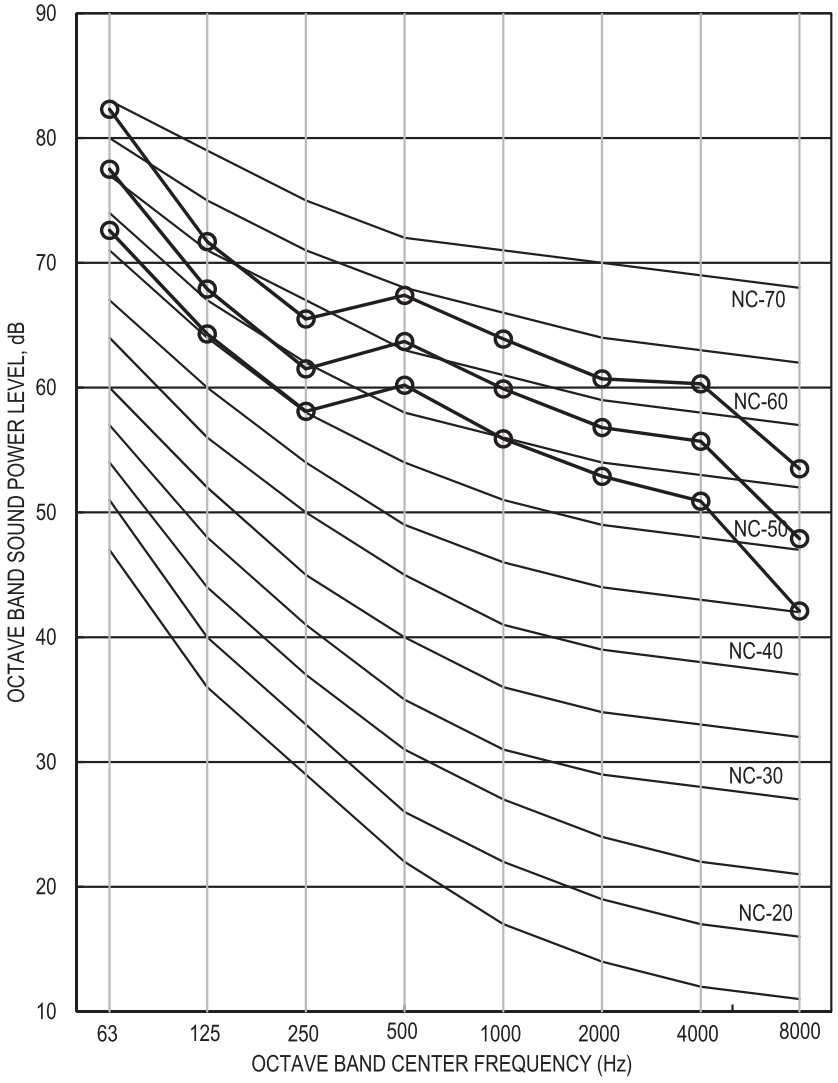
OVER ALL (dB)

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

FTA24AAVJUD
FTA24AAVJUA

Sound levels tested in accordance with AHRI 260.

Ducted Discharge



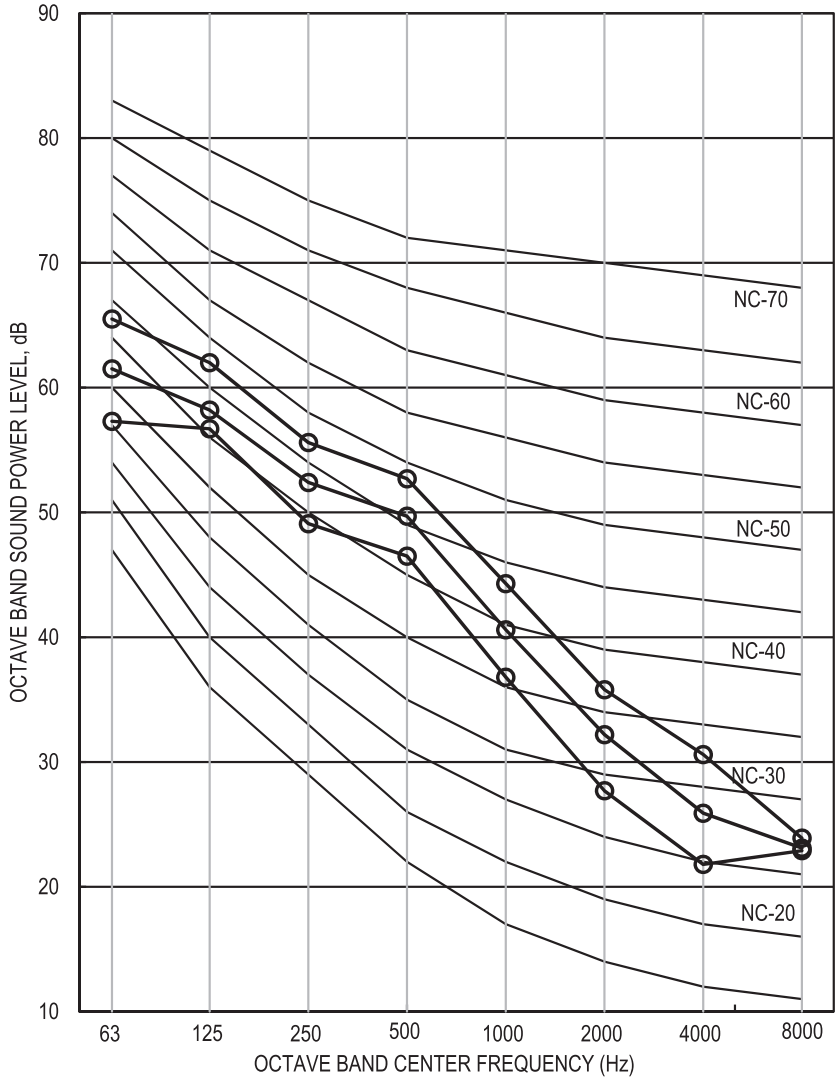
OVER ALL (dB)

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

FTA24AAVJUD
FTA24AAVJUA

Sound levels tested in accordance with AHRI 260.

Casing Radiated



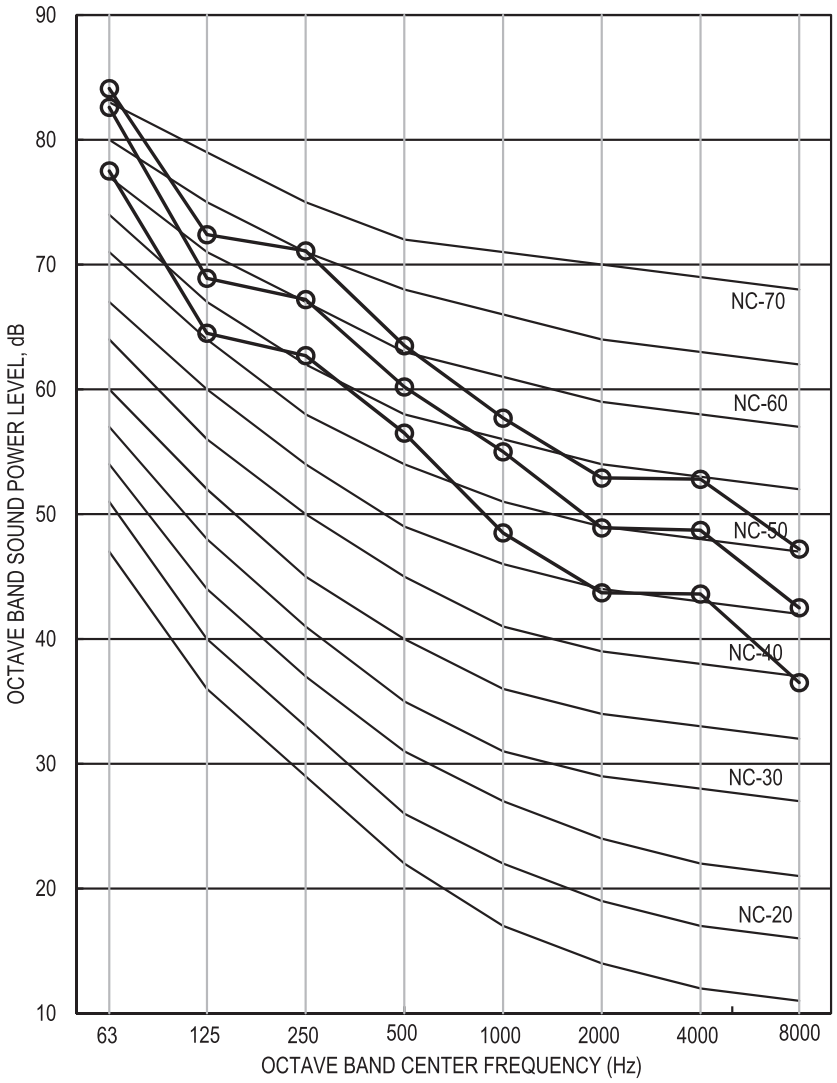
OVER ALL (dB)

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

FTA30AAVJUD
FTA30AAVJUA

Sound levels tested in accordance with AHRI 260.

Ducted Inlet



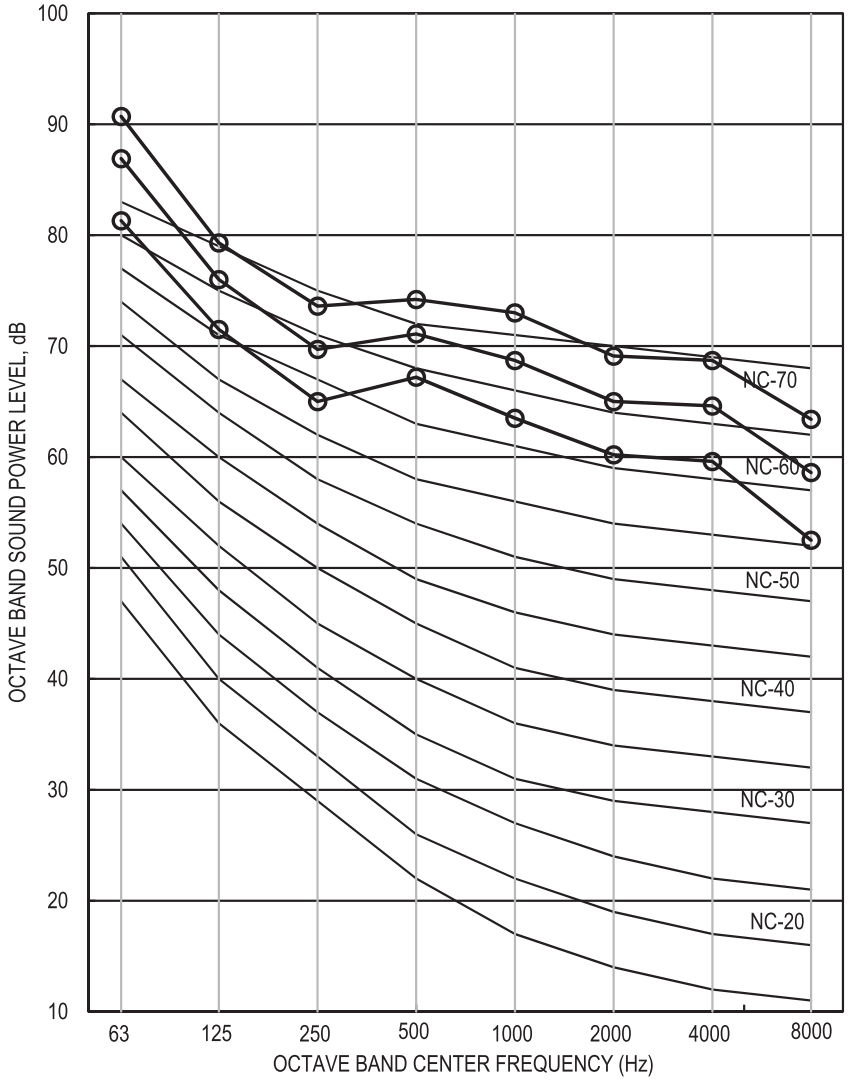
OVER ALL (dB)

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

FTA30AAVJUD
FTA30AAVJUA

Sound levels tested in accordance with AHRI 260.

Ducted Discharge



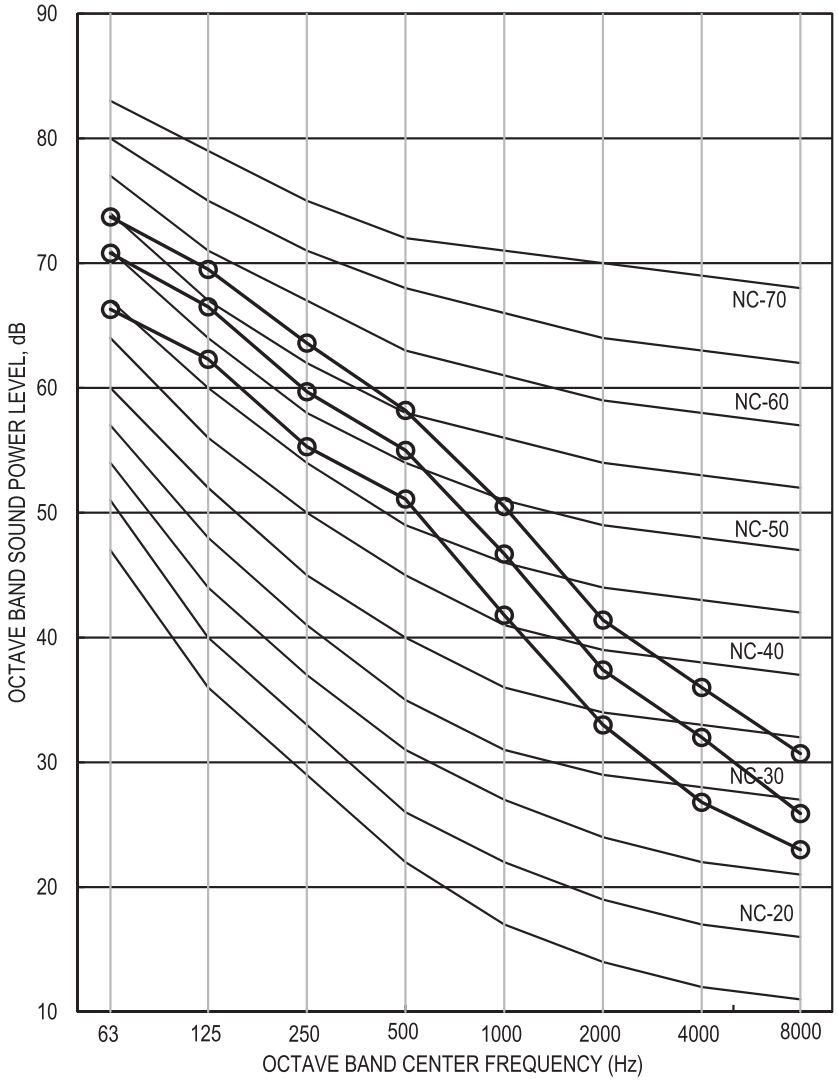
OVER ALL (dB)

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

FTA30AAVJUD
FTA30AAVJUA

Sound levels tested in accordance with AHRI 260.

Casing Radiated



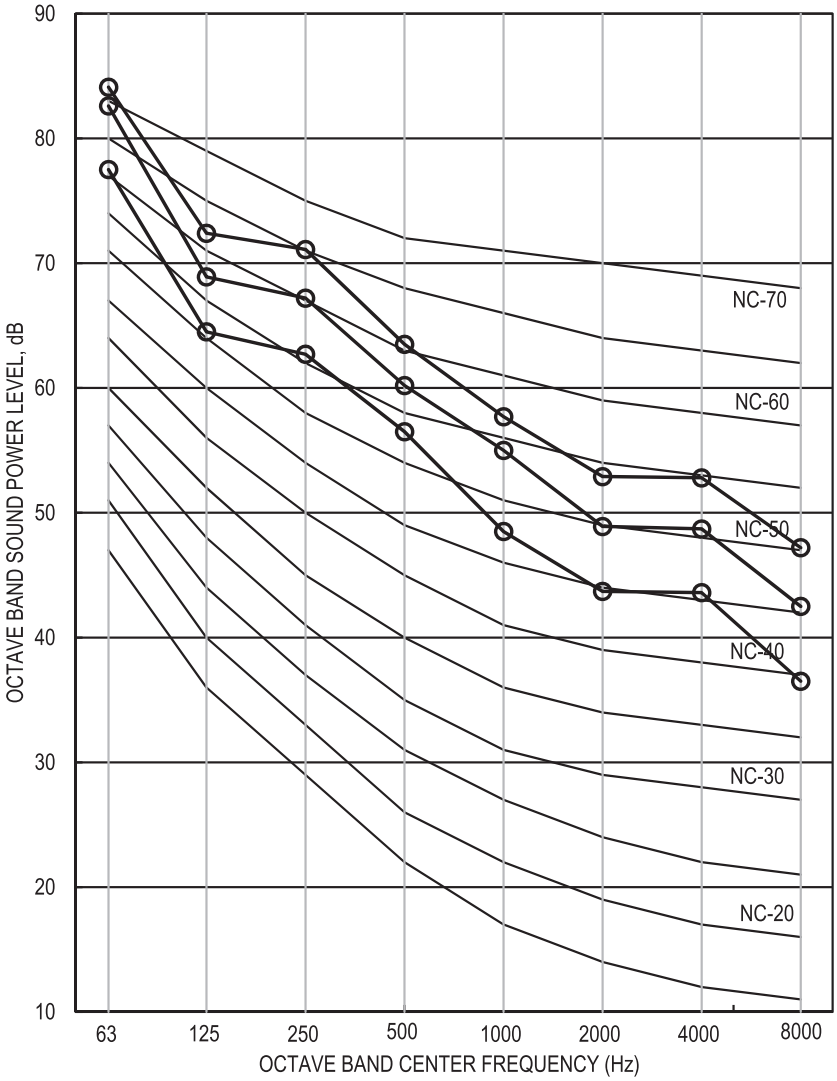
OVER ALL (dB)

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

FTA36AAVJUD
FTA36AAVJUA

Sound levels tested in accordance with AHRI 260.

Ducted Inlet



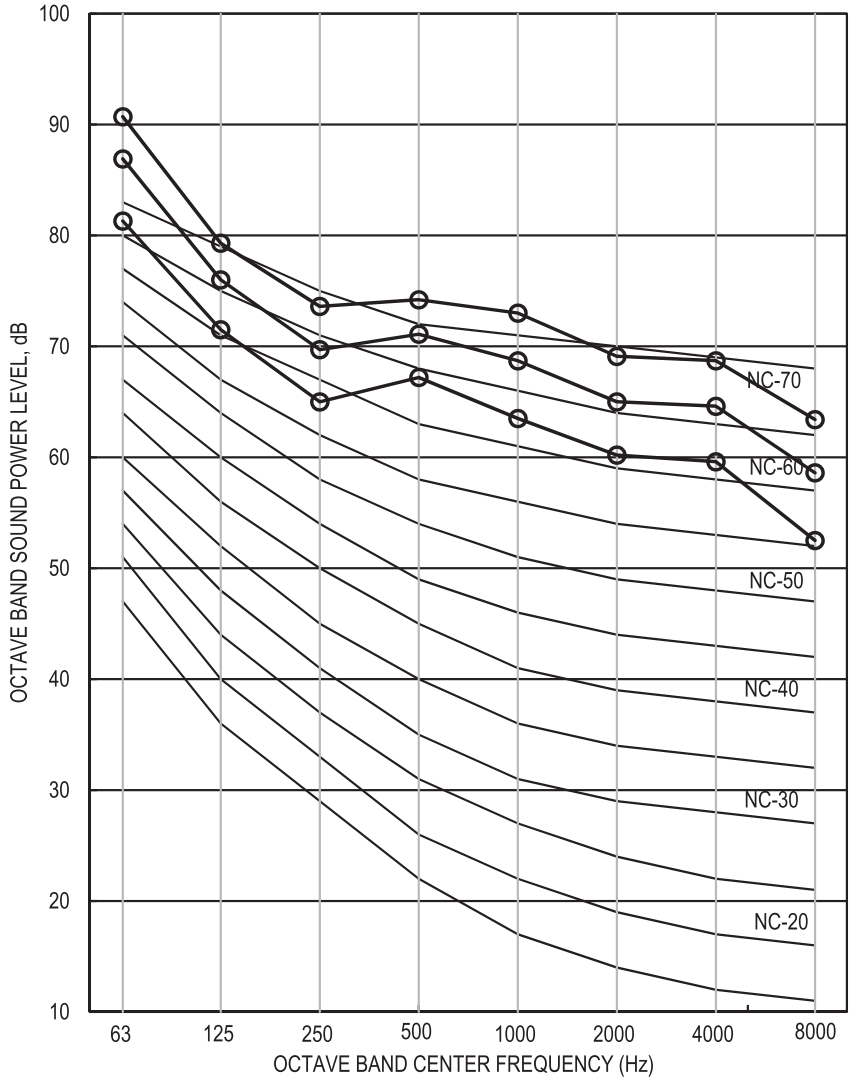
OVER ALL (dB)

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

FTA36AAVJUD
FTA36AAVJUA

Sound levels tested in accordance with AHRI 260.

Ducted Discharge



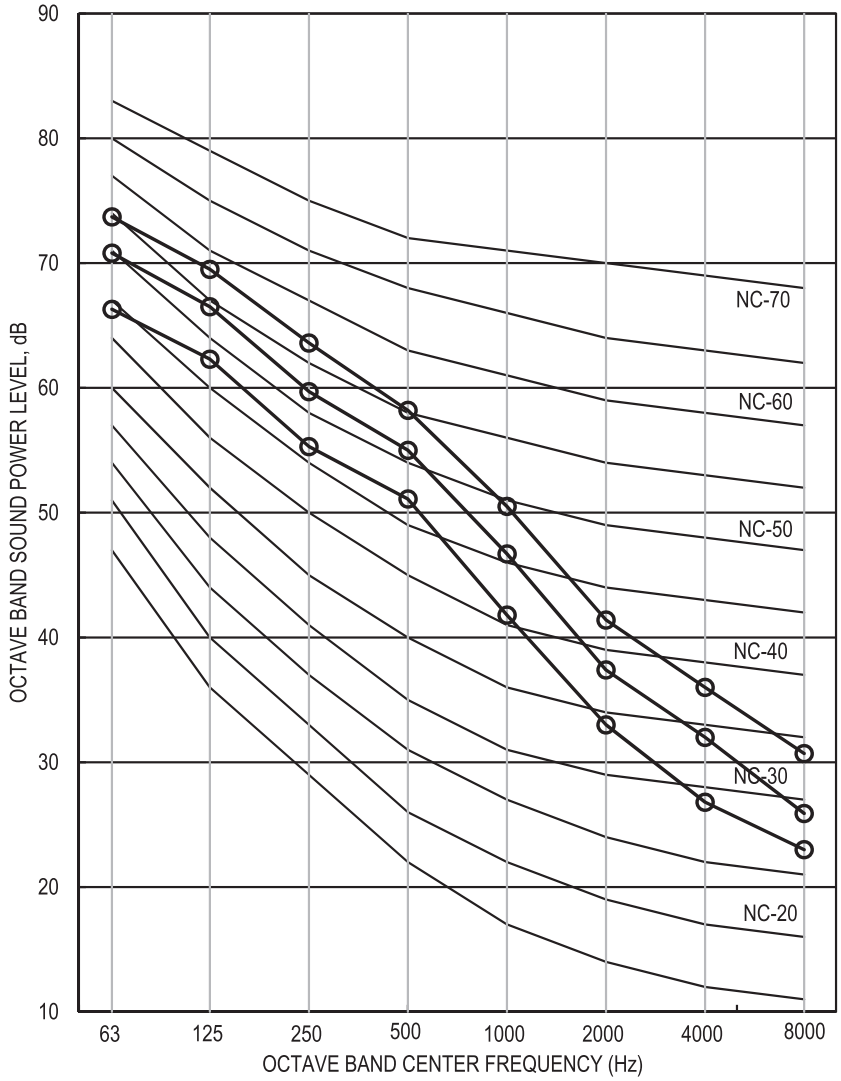
OVER ALL (dB)

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

FTA36AAVJUD
FTA36AAVJUA

Sound levels tested in accordance with AHRI 260.

Casing Radiated



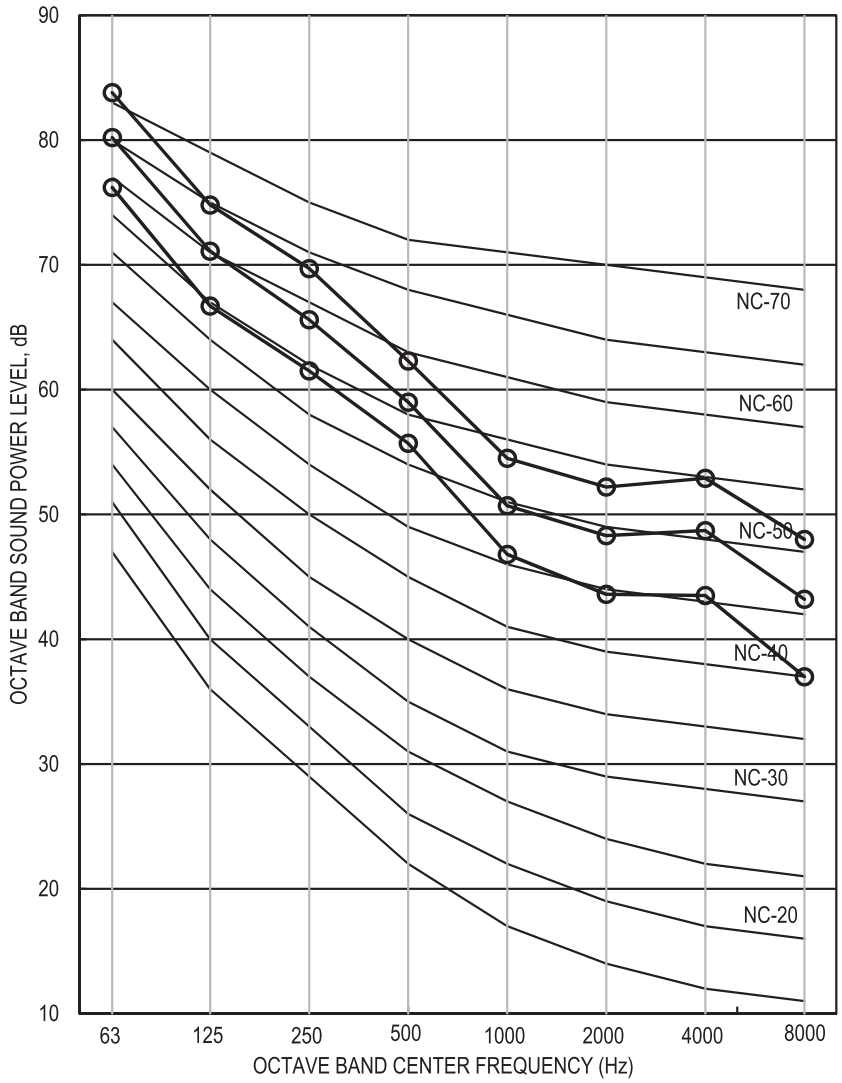
OVER ALL (dB)

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

FTA42AAVJUD
FTA42AAVJUA

Sound levels tested in accordance with AHRI 260.

Ducted Inlet



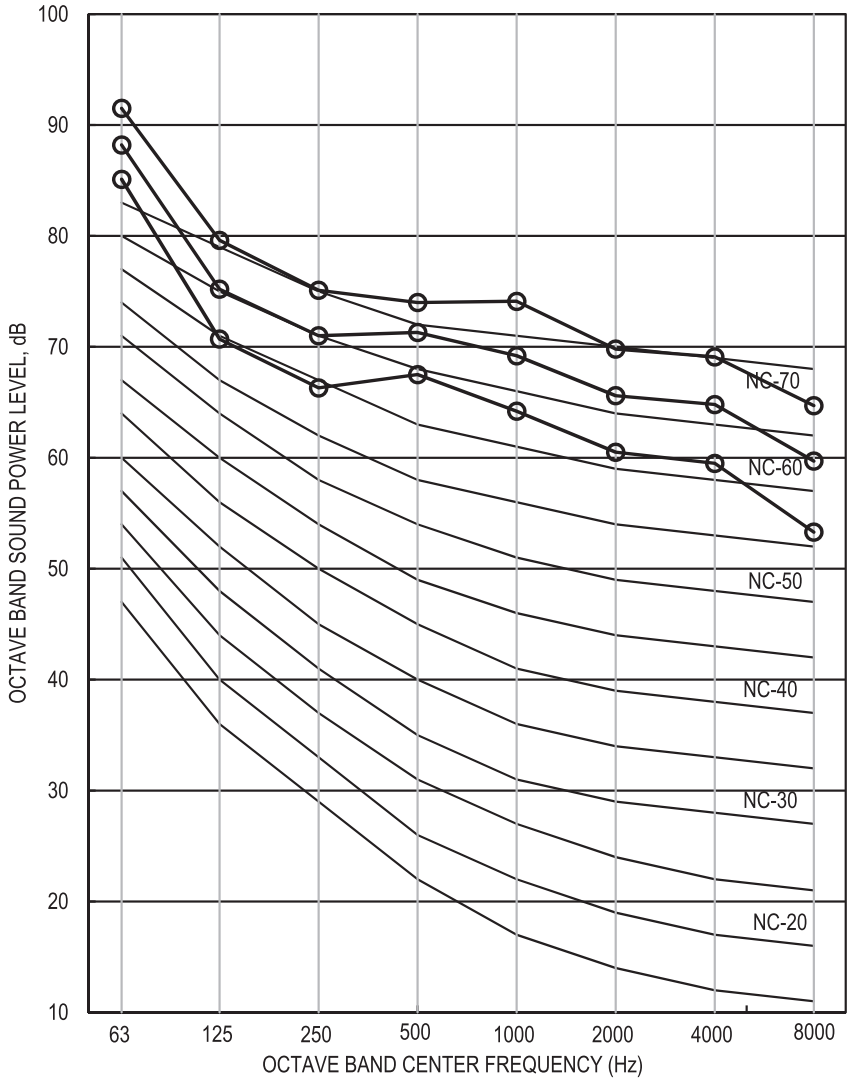
OVER ALL (dB)

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

FTA42AAVJUD
FTA42AAVJUA

Sound levels tested in accordance with AHRI 260.

Ducted Discharge



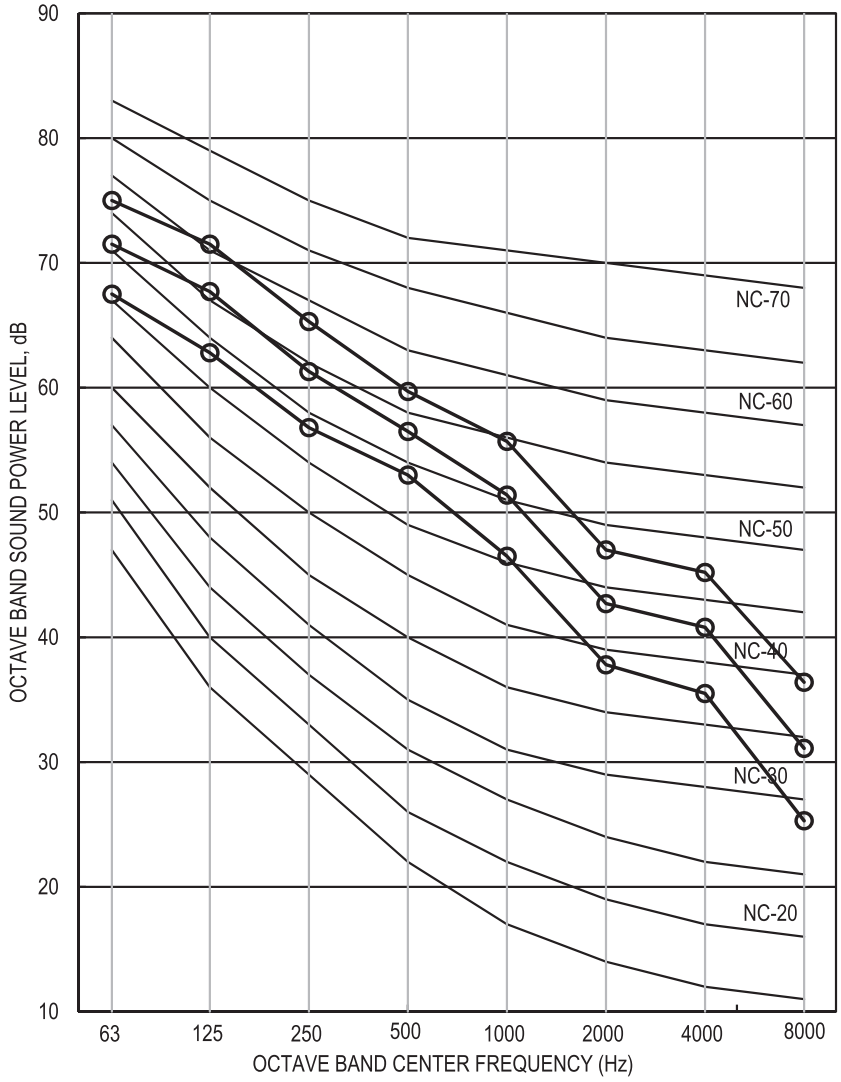
OVER ALL (dB)

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

FTA42AAVJUD
FTA42AAVJUA

Sound levels tested in accordance with AHRI 260.

Casing Radiated



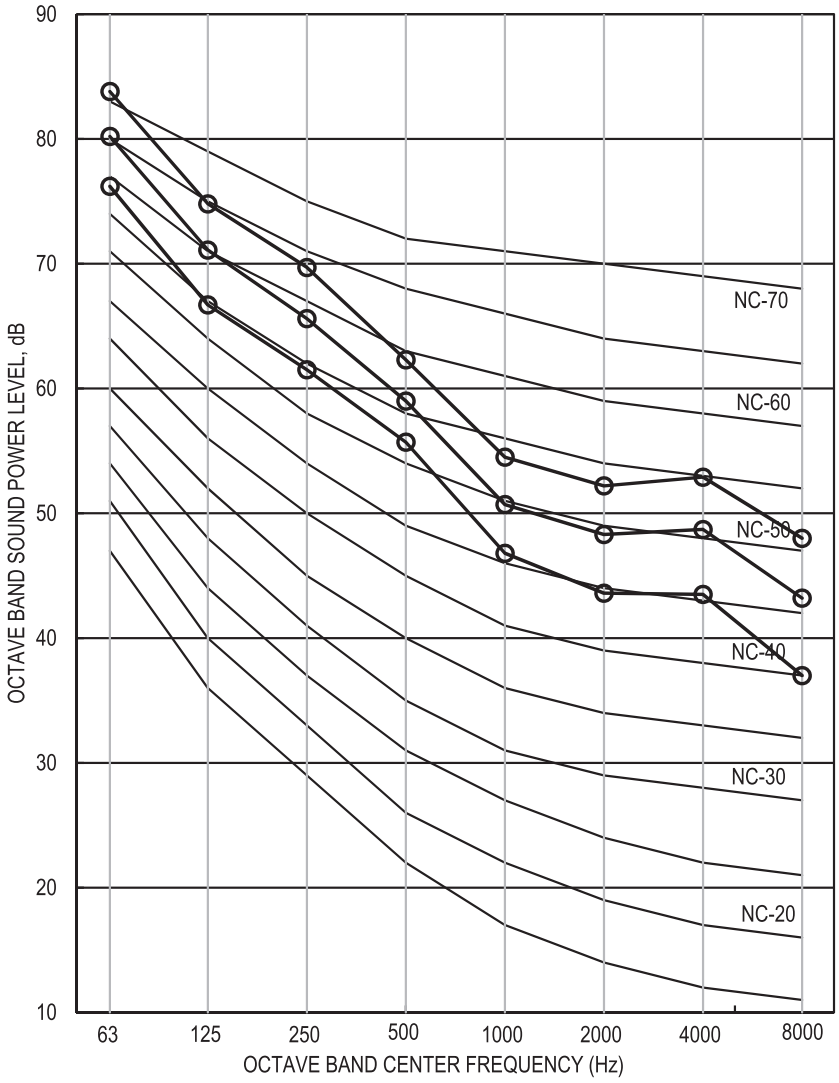
OVER ALL (dB)

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

FTA48AAVJUD
FTA48AAVJUA

Sound levels tested in accordance with AHRI 260.

Ducted Inlet



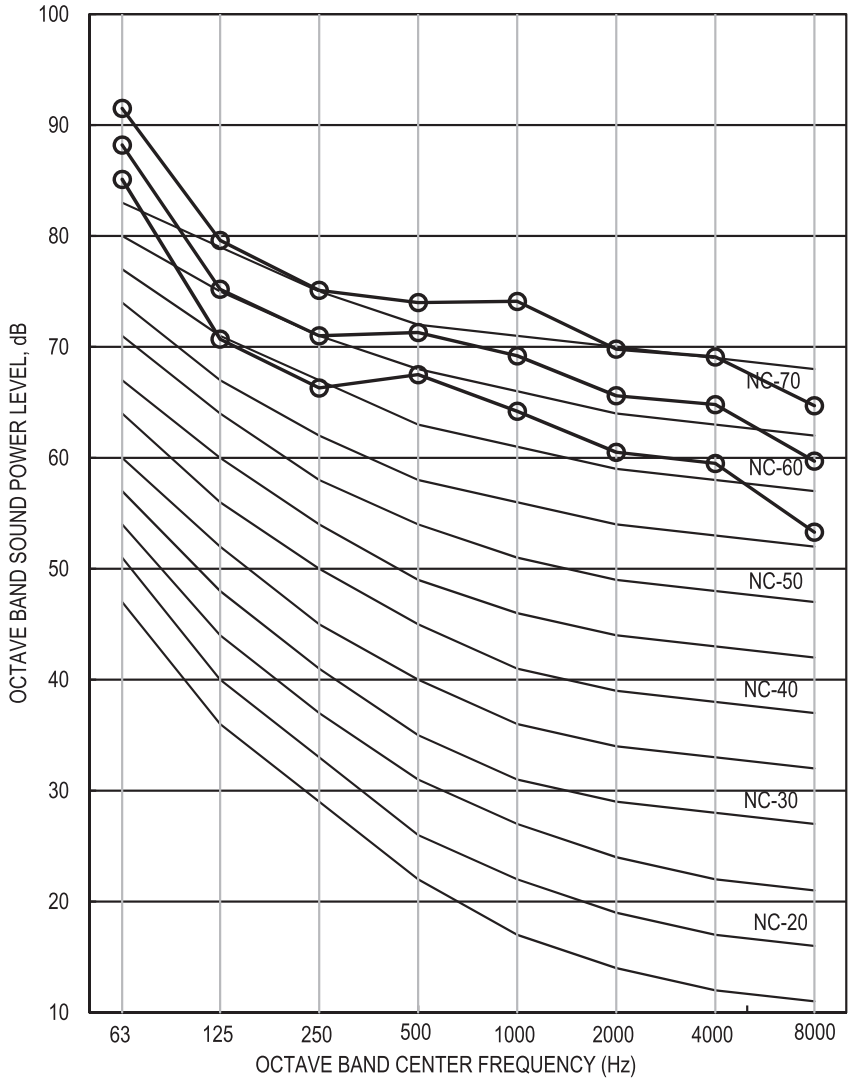
OVER ALL (dB)

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

FTA48AAVJUD
FTA48AAVJUA

Sound levels tested in accordance with AHRI 260.

Ducted Discharge



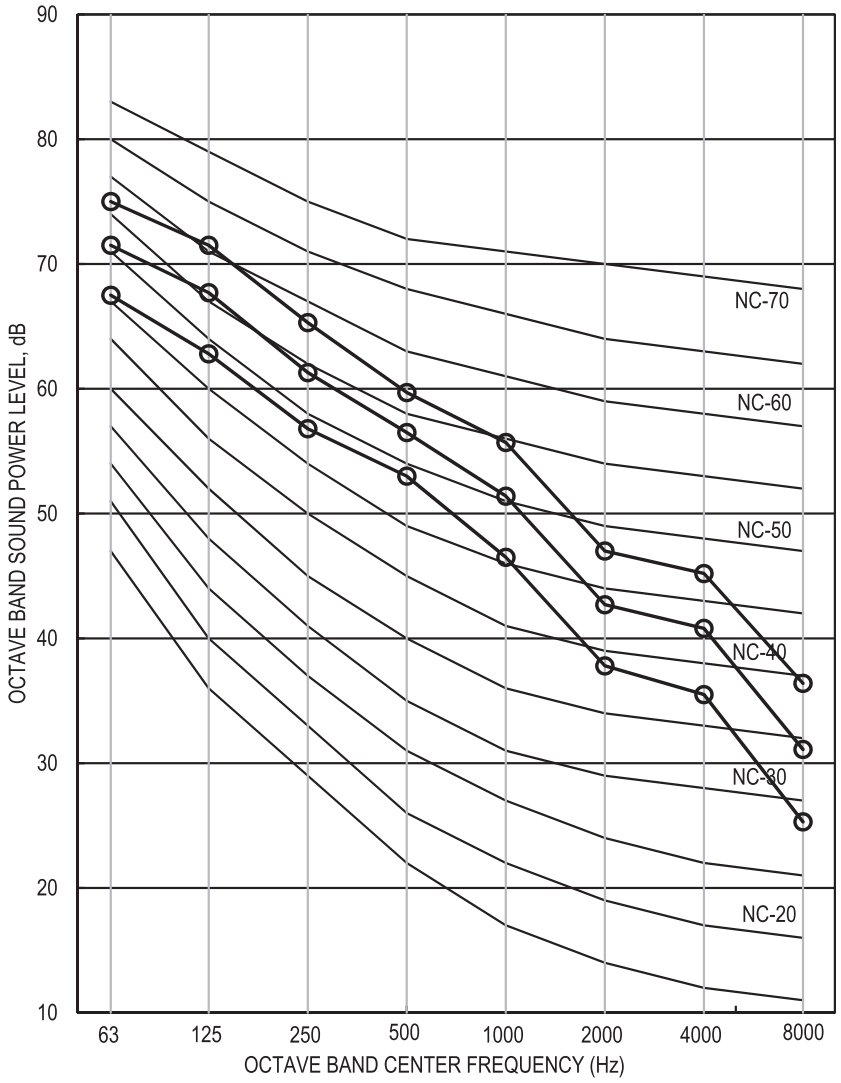
OVER ALL (dB)

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

FTA48AAVJUD
FTA48AAVJUA

Sound levels tested in accordance with AHRI 260.

Casing Radiated

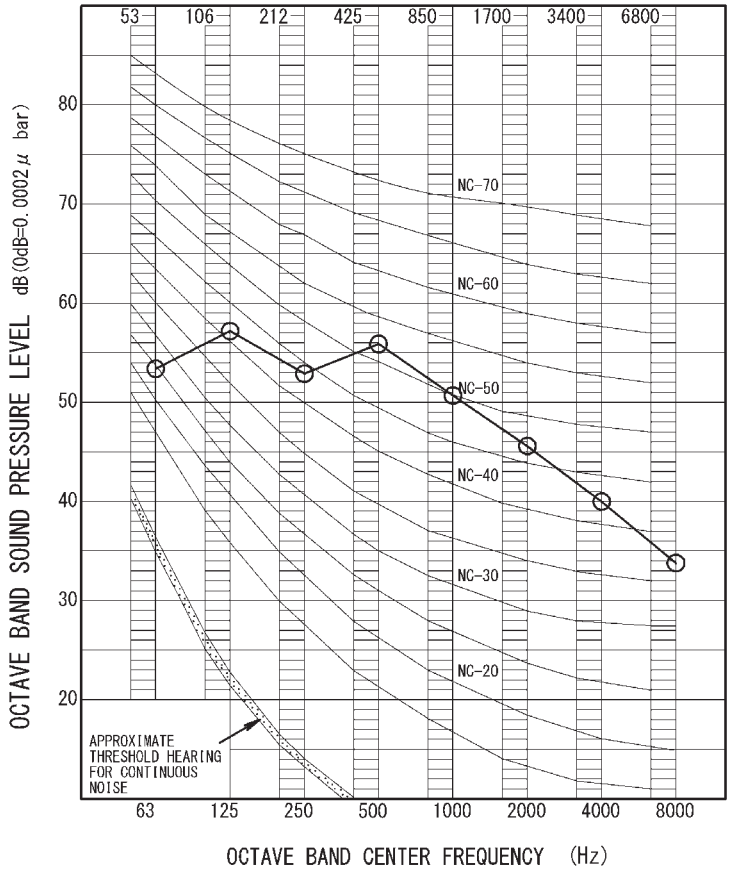


OVER ALL (dB)

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

13.2 Outdoor Unit (Heat Pump)

RZA18 - 48AAVJU (cooling)



OVER ALL(dB)

SCALE A	56

(B.G.N IS ALREADY RECTIFIED)

OPERATING CONDITIONS

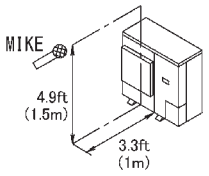
POWER SOURCE 208/230V 60Hz

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

MEASURING PLACE

ANECHOIC CHAMBER

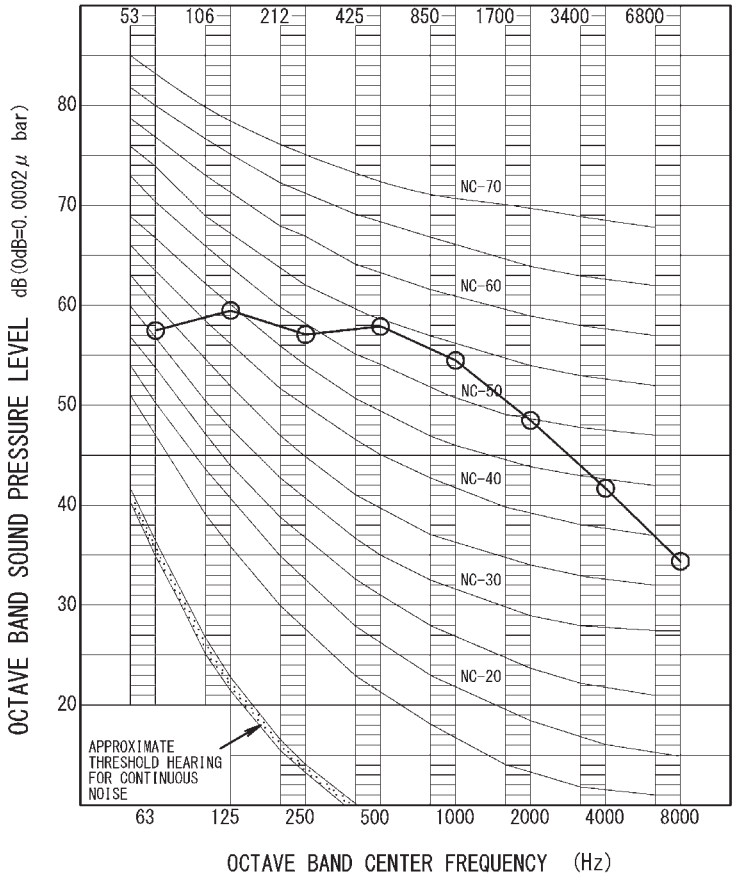
LOCATION OF MICROPHONE



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.

4D154513

RZA18 - 48AAVJU (heating)



OVER ALL(dB)

SCALE A	59

(B.G.N IS ALREADY RECTIFIED)

OPERATING CONDITIONS

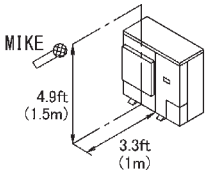
POWER SOURCE 208/230V 60Hz

HEATING RETURN AIR TEMPERATURE : 70.0TDB(21.1°CDB)
OUTDOOR TEMPERATURE : 47.0TDB(8.3°CDB),43.0TWB(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.

4D154515

14. Optional Accessories

14.1 Indoor Unit

14.1.1 FCA

Optional accessories (for unit)

Item			Note	FCA18AAVJU FCA24AAVJU	FCA30AAVJU FCA36AAVJU FCA42AAVJU FCA48AAVJU	FCA18AAVJU FCA24AAVJU	FCA30AAVJU FCA36AAVJU FCA42AAVJU FCA48AAVJU
Type of panel				Self-cleaning filter panel		Standard sensing decoration panel	
Self-cleaning filter panel				BYCQ54GEGFU		—	
Connecting pipe (for dust recovery)				KKHAP55B160		—	
L-shape extension pipe				KKHAP55A160		—	
Standard sensing decoration panel				—		BYCQ54GEFU	
Sealing material for air discharge outlet		For 1 outlet		KDBH551C160			
		For 2 outlets		—		KDBH552C160	
Panel spacer				KDB55J160F			
Fresh air intake kit	Chamber type	Without T-shape pipe		—		KDDP55C160	
		With T-shape pipe		—		KDDP55C160K	
	Direct installation type			—		KDDP55X160A	
Filter chamber				—		KDDFP55C160	
Replacement long life filter				—		KAF5511D160	
Ultra long life filter unit				—		KAF555D160	
Replacement ultra long life filter				—		KAF550D160	
Self-cleaning filter panel replacement filter				KAF554D160		—	
Branch duct chamber				KDJP55C80	KDJP55C160	KDJP55C80	KDJP55C160

C: 3D151731

Optional accessories (for controls)

Item	Note	FCA18AAVJU FCA24AAVJU	FCA30AAVJU FCA36AAVJU FCA42AAVJU FCA48AAVJU	FCA18AAVJU FCA24AAVJU	FCA30AAVJU FCA36AAVJU FCA42AAVJU FCA48AAVJU
Wired remote controller		BRC1NRV71			
Wiring adaptor PCB	1	KRP1C77			
Group control adaptor PCB	1, 4	KRP4A74			
Remote sensor		KRCS01-6B			
Installation box for adaptor	2, 3	KRP1J98A		KRP1H98A	
Ventilation and alarm adaptor	1	BRP9A71			

C: 3D151731

Notes:

1. Installation box for adaptor (KRP1J98A / KRP1H98A) is necessary.
2. Up to two adaptors can be installed in installation box.
3. Only one installation box can be installed to each indoor unit.
4. Optional relay harness is required for connection.
5. Refer to latest controls documentation available in Daikin City for most up to date accessories information.

14.1.2 FAA

Optional Accessories (for Controls)

Item	Note	FAA18AAVJU FAA24AAVJU
Wired remote controller		BRC1NRV71
Wiring adaptor PCB	1	KRP1C77
Group control adaptor PCB	1, 3	KRP4A74
Installation box for adaptor PCB	2	KRP4A93
Ventilation and alarm adaptor	1	BRP9A72

C: 3D158194A

Notes:

1. Installation box for adaptor PCB (KRP4A93) is necessary.
   (Box is installed to external of a unit.)
2. Only one adaptor can be installed in installation box for adaptor PCB.
3. Optional relay harness is required for connection.
4. Refer to latest controls documentation available in Daikin City for most up to date accessories information.

14.1.3 FBA

Optional accessories (for unit)

Item		Note	FBA18AAVJU FBA24AAVJU	FBA30AAVJU FBA36AAVJU FBA42AAVJU FBA48AAVJU
High efficiency filter	65%	1	KAF632C80	KAF632C160
	90%	1	KAF633C80	KAF633C160
Filter chamber (for rear suction)		1	KDDFP63B80	KDDFP63B160
Long life replacement filter		1	KAF631C80	KAF631C160
Service panel	White		KTBJ25K80W	KTBJ25K160W
	Fresh white		KTBJ25K80F	KTBJ25K160F
	Brown		KTBJ25K80T	KTBJ25K160T
Air discharge adaptor			KDAP25A71A	KDAP25A140A
Shield plate for side plate			KDBD63A160	

C: 3D151625

Notes:

1. Filter chamber is required for installing high efficiency filter or long life replacement filter.

Optional accessories (for controls)

Item	Note	FBA18AAVJU FBA24AAVJU	FBA30AAVJU FBA36AAVJU FBA42AAVJU FBA48AAVJU
Wired remote controller		BRC1NRV71	
Wiring adaptor PCB	1	KRP1C76	
Group control adaptor PCB	1, 4	KRP4A71	
Remote sensor		KRCS01-6B	
Installation box for adaptor PCB	2, 3	KRP4A98	
Ventilation and alarm adaptor	1	BRP9A73	

C: 3D151622

Notes:

1. Installation box for adaptor PCB (KRP4A98) is necessary.
2. Up to two adaptors can be installed on installation box for adaptor PCB.
3. Only one installation box for adaptor PCB can be installed to each indoor unit.
4. Optional relay harness is required for connection.
5. Refer to latest controls documentation available in Daikin City for most up to date accessories information.

14.1.4 FTA

Optional accessories (for unit)

No.	Model	Electric heater capacity						
		HKTSN03X1	HKTS*05X1	HKTSN06X1	HKTS*08X1	HKTS*10X1	HKTSD15XA/B (Note 1)	HKTSD19CA/B (Note 1)
1	FTA18AAVJUD FTA18AAVJUA	✓	✓	✓	✓	✓		
	FTA24AAVJUD FTA24AAVJUA	✓	✓	✓	✓	✓		
	FTA30AAVJUD FTA30AAVJUA	✓	✓	✓	✓	✓		
	FTA36AAVJUD FTA36AAVJUA	✓	✓	✓	✓	✓		
	FTA42AAVJUD FTA42AAVJUA		✓	✓	✓	✓	✓	✓
	FTA48AAVJUD FTA48AAVJUA		✓	✓	✓	✓	✓	✓

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.

No.	Item	Note	FTA18AAVJUD FTA18AAVJUA	FTA24AAVJUD FTA24AAVJUA	FTA30AAVJUD FTA30AAVJUA	FTA36AAVJUD FTA36AAVJUA	FTA42AAVJUD FTA42AAVJUA	FTA48AAVJUD FTA48AAVJUA
2	High humidity / Downflow kit	1	HHK0012				HHK0014	
3	UV Kit		UVPK12				UVPK13	
4	Washable air filter		ALFH16201E				ALFH1912201E	

Note:

1. This kit includes insulation for drain pan, insulation for fan blower housing and block-off plate. This kit should be used for high humidity regions / downflow installation / horizontal right installation.

Optional accessories (for controls)

No.	Item	Note	FTA18AAVJUD FTA18AAVJUA	FTA24AAVJUD FTA24AAVJUA	FTA30AAVJUD FTA30AAVJUA	FTA36AAVJUD FTA36AAVJUA	FTA42AAVJUD FTA42AAVJUA	FTA48AAVJUD FTA48AAVJUA
1	Wired remote controller		BRC1NRV71					
2	Remote sensor		KRCS01-6B					
3	Group control adaptor PCB	1, 3	KRP4A74					
4	Installation box for adaptor PCB		KRP1BB101					
5	Wiring adaptor PCB	1	KRP1C77					
6	Installation box for Relay PCB		KRP4A93					
7	Ventilation and alarm adaptor	2, 4	BRP9A71, BRP9A72					

Note:

1. Installation box (No. 4) is required for adaptor (No. 3/5).
2. Installation box (No. 6) is required for adaptor (No. 7).
3. Optional relay harness is required for connection.
4. The harness length to connect this kit to the indoor unit PCB is different. BRP9A71: approx. 4.9 ft. (1.5 m), BRP9A72: approx. 7.8 ft. (2.4 m)
5. Refer to latest controls documentation available in Daikin City for most up to date accessories information.

14.2 Outdoor Unit

Optional accessories (for unit)

Optional accessories		RZA18AAVJU	RZA24AAVJU	RZA30AAVJU	RZA36AAVJU	RZA42AAVJU	RZA48AAVJU
ABC I/P printed circuit board kit		BRP2A82					
Cool / Heat selector		KRC19-26A6					
Wind baffle		KPW082A41					
Base pan heater		KEH042A41A					
D3/D4 conversion adaptor		BRD72A-L					
Drain plug kit		BKP082A41					
Snow protection hood	Side	APS610A01					
	Back	APS610A02					
	Discharge	APS610A03					
	Intake	APS610A04					

4D154566B

15.Caution Label

15.1 RZA18 - 48AAVJU

Service Precautions

⚠ WARNING | ⚠ Caution to ELECTRIC SHOCK

When service with PCB, make sure to close the PCB with insulation sheet.

Caution when performing service with EL.COMPO.BOX

(Touch the non-coating metal part to eliminate static electricity before performing service.)

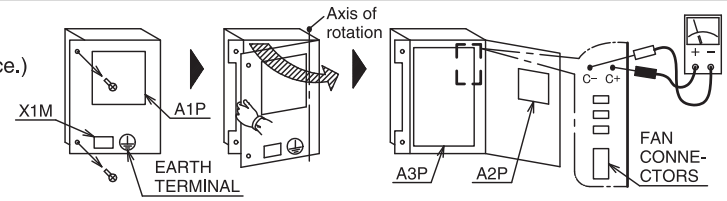
1. Before servicing, always measure the power terminal (X1M) with multimeter to confirm that the power has been switched off.
2. Be careful when touching the high-temperature components.
   There is a possibility that each component box can generate high temperature.
3. Be careful when touching a live part.
   Do not touch any live part until confirming that the residual voltage is lower than 50 V.
   (1) After switching off the power, put the unit aside for 10 minutes.
   (2) Always touch the grounding terminal with your hands to discharge the static electricity on your body (preventing damage to PCB).
   (3) Do not touch any live parts. Always measure the voltage at the measuring point of residual voltage.
   (4) After confirming the residual voltage, immediately unplug the connector of the exterior unit fan motor (when the fan of exterior unit rotates against a strong wind, the capacitor may accumulate electricity resulting in potential electric shock).

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

[How to open and close the door]

1. Remove the 2 screws fixing the door. 2. Open the door (Pull the left side).
3. For closing the door follow the procedures in the reverse order.

Continue



Caution when performing other service

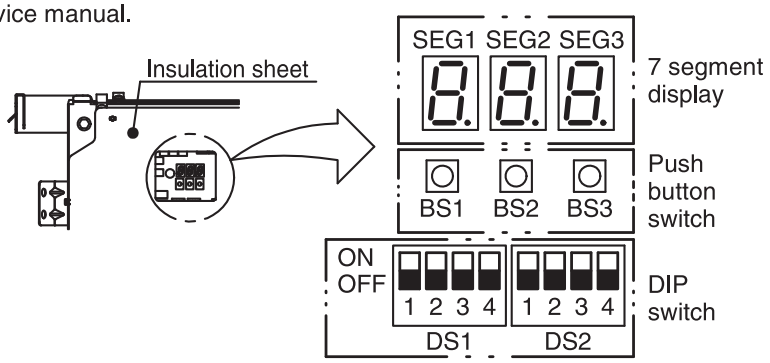
Do never connect power supply cables to compressors (U, V, W) or fan motor directly.
(Failure to connect the power supply to the PCB may cause the compressor or fan motor is burned out.)

Field setting

If required, carry out the field setting according to the following instruction,
For details, see the service manual.

1. How to operate

- For operation the push button switch, perform under covering with insulation sheet as shown in the right figure with the power supply turned on and use a resin ballpoint or non-conducting object.



2.Setting by the push button switch (BS1～3)

- Function of push button

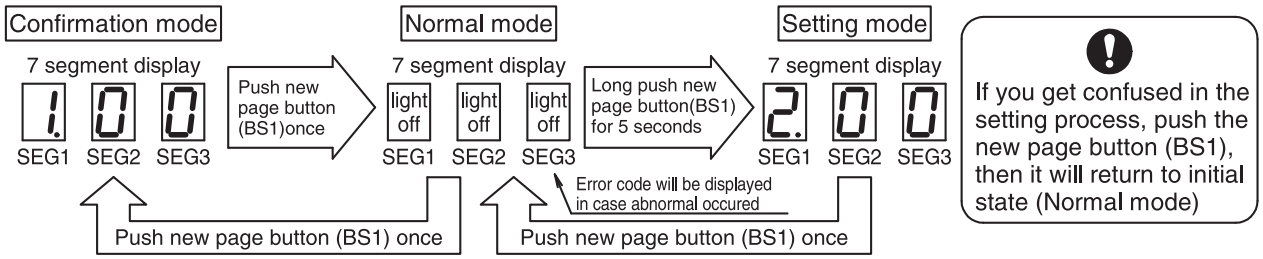
Push button	Button types	Use
BS1	New page button	For changing setting mode
BS2	Operation button	For changing field setting
BS3	Confirm button	
BS2 long push	Operation button	For check operation
BS3 long push	Confirm button	For resetting the address when the wiring is changed or an additional indoor unit is installed

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

- Normal Mode, Setting Mode, Confirmation Mode change method

Push new page button (BS1) it can be switched to as shown below Normal mode, Setting mode, Confirmation mode.

(Setting mode can use for setting Ⓐ～Ⓖ items as shown in the table below.
Confirmation mode can use for confirmation of Ⓗ･Ⓙ items as shown in the table below.
(Note) About other setting and error code, see service manual.)



				7 Segment display		
	Set Setting mode or Confirmation mode first, then perform procedure as below.		Details of setting	SEG1	SEG2	SEG3
Setting procedure	① Push the operation button (BS2) following to setting item (Ⓐ~Ⓖ) and adjust the 7 segment display to require mode shown in the right. (※1) For selecting low noise operation, demand operation by outside order or VRT setting by external control adapter for outdoor unit (optional accessory) is required. For details, see the instruction attached the adapter.		Ⓐ VRT setting (※1)	2	0	7
			Ⓑ External low noise demand operation setting(※1)	2	1	2
			Ⓒ Additional refrigerant charge operation setting	2	2	0
			Ⓓ Refrigerant recovery / Evacuation mode setting	2	2	1
			Ⓔ Night time low noise setting	2	2	2
			Ⓕ External low noise level setting(※1)	2	2	5
			Ⓖ Demand level setting	2	3	0
	② Push the confirmation button (BS3) (The present setting will be indicated).			Either of ③		
	③ Push the operation button (BS2) and adjust the 7 segment display to required mode, shown in the right. (※2) Setting level efficiency For Ⓔ and Ⓕ: Setting value / Noise value → low noise; level 1~3 For Ⓖ: Setting value / Power consumption → Less power ←; level 1~8 For details, see the service manual. (※3) A is a number of 1 ～ 3 (※4) B is a number of 1 ～ 8	For Ⓐ	OFF (Factory setting)	light off	light off	0
			VRT setting by connecting “low noise sound” terminal	light off	light off	1
			VRT setting by connecting “demand input” terminal	light off	light off	2
		For ⒷⒸⒹ	ON	light off	light off	1
			OFF (Factory setting)	light off	light off	0
		For Ⓔ (※2)	OFF (Factory setting)	light off	light off	0
			level A (※3)	light off	light off	A(※3)
		For Ⓕ (※2)	level A (※3) (Factory setting:2)	light off	light off	A(※3)
		For Ⓖ (※2)	level B (※4) (Factory setting:3)	light off	light off	B(※4)
	④ Push confirmation button (BS3)		The setting in ③ is defined	If will turn to light ON.		
	⑤ Push confirmation button again (BS3)		The system start the operation according to the setting	2	0	0
	⑥ Push new page button (BS1)		Return to Normal mode	light off	light off	light off
Confirmation procedure	① Push operation button (BS2) according to confirmation item (Ⓗ, Ⓙ) and adjust the 7 segment display to required mode, shown in the right.		Ⓗ Low noise mode	1	0	1
			Ⓙ Demand operation	1	0	2
	② Push confirmation button (BS3) (The present setting will be indicated)		For during setting operation	light off	light off	1
			For during normal operation	light off	light off	0

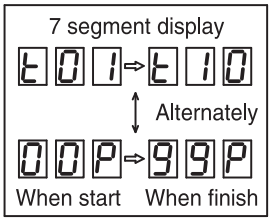
Continue

Check operation method

Make sure to open the gas side and liquid side stop valve before starting operation.

- Make sure to turn on the power supply of all connect units (indoor・outdoor) before operation.
- Make sure to close all outside panels, then operate. If not, the system cannot be checked properly.

- Make sure to carry out the check operation after the first installation. Otherwise,the error code. "U3" will be displayed in the remote controller. Normal operation can be carried out after 5 minutes from check operation.
- The check operation is automatically carried out in a cooling mode. The 7 segment will be indicated as shown in right, and "Test operation" and "Under centralized" will be displayed in the remote controller.
- During the check operation, it is impossible to stop the unit from the remote controller. When discontinue the operation, push the confirmation button (BS3). The system will stop after behind operation for 30 seconds.
- It may takes 5 minutes to bring the state of refrigerant uniform before the compressor starts. Moreover, during the check operation, the refrigerant running sound, the magnetic sound of a solenoid valve may become loud during operation, but these are not malfunctions.
- The abnormality of each indoor unit cannot be checked. After the check operation is finished, check the indoor units individually by normal operation using the remote controller.



[Operation procedure]

① To protect the compressor, make sure to turn the power supply for 6 hours before starting operation.
(After turning on the power supply, the unit can not start the operation until 7 segment goes off. (Maximum 12 minutes))
② In stop condition, set to Normal mode
③ Push the operation button (BS2) for 5 second or more (Then the unit will start the check operation)
④ Close the front panel. (Otherwise, it may cause a misjudgement.)
⑤ When the checks are completed (unit run for 30 - 40 min.), the system will stop automatically.
Check the operation results by the outdoor unit 7 segment display. (see the table shown upward)

Result	7 segment display
Normally finished	Light off
Abnormally finished	Error code

Push new page button (BS1) in case taking a wrong operation, then follow procedure since ② again.

[Measure for error finish]

① Confirm the error code by the remote controller and 7 segment display, and correct the abnormality. (For how to correct abnormality and correction method, see the Installation manual, Operation manual and Service manual.)
② After correcting the abnormality, push the confirmation button (BS3) and reset the error code.
③ Carry out the check operation again and confirm that the abnormality is properly corrected.

Caution for piping work and additional refrigerant charge

- Use the charging hose and gauge mainfold designed exclusive use R32 in order to withstand the pressure and prevent impurities (such as SUNISO oil) from mixing into.
- Carry out a nitrogen blow when brazing.
- Charge the additional refrigerant in liquid state.
- Perform the airtightness and the vacuum drying sertainly.

Additional refrigerant charging operation

- **When installation was finished, make sure to charge the refrigerant by using this procedure. If the refrigerant quantity is insufficient, the unit may malfunction.**

Setting procedure
① Connect the refrigerant charge hose and valve to the stop valve service port on the suction gas side.
② Make sure to completely open stop valve on the suction gas side, liquid side.
③ Turn ON the power of the indoor unit and the outdoor unit. To protect the compressor, make sure to turn on the power supply for 6 hours before starting operation.
④ In the stopped status, set the addition set ON to the additional refrigerant charging operation by Setting mode, and open refrigerant cylinder valve. About valve pulse, make sure to adjust refrigerant charging speed as 1kg/minute. ● The operation is automatically started, 7 segment display will be charged as shown in right (up) and "Test operation" and "Under centralized control" are displayed in the remote controller. ● Low pressure indication may display on 7 segment display (as shown in right (down)), however, operation can be carried out continuously.
⑤ After charging the specified quantity of refrigerant, close refrigerant cylinder valve, push confirmation button (BS3). ● The operation will be stopped. The operation is automatically stopped within 30 minutes. If charging is not completed, set and perform the additional refrigerant charging operation again. ● If the additional refrigerant charging operation is stopped soon, the refrigerant may be overcharged. Stop additional charging, make sure to confirm charged amount again.

Test operation •
Under centralized control
7 segment display
E01 ⇨ E05
When start When finish

Example 7 Segment display
0.17 MPa ⇨ 0.17

1.Record of setting details

After performing settings to Ⓔ～Ⓖ in the Setting mode, make a record by marking ○ in the table below.

Ⓔ Night time low noise setting	Ⓕ External low noise level setting	Ⓖ Demand level setting
OFF Level 1・2・3	Level 1・2・3	Level 1・2・3・4・5・6・7・8

2.Record of additional refrigerant charging amount (Be sure to fill in the table by the after-sales service staff.)

Calculate the refrigerant charging amount based on the following formula. Refer to installation manual for more details.

① Factory charged	Additional ② charging amount	=	(Total length(ft.(m)) of liquid piping size at Φ3/8"(9.5)) × 0.035 (0.053)	+	(Total length(ft.(m)) of liquid piping size at Φ1/4"(6.4)) × 0.013 (0.020)	+	Refrigerant adjustment by connected indoor unit type	①+②= Total
7.5(3.4) lbs(kg)	lbs(kg)		lbs(kg)		lbs(kg)		lbs(kg)	lbs(kg)

3.Record of indoor unit model name and installation lacation

No.	1	2	3	4	5	6	7	8	9
Model name									
Installation location									

Service mode operation method

- After turning on the power supply, the unit can not start until the 7 segment indication goes off for maximum 12 minutes.
- Do not turn off the power and do not reset the Setting mode when evacuating or recovering the refrigerant. (The expansion valves will close and the system can not be evacuated or recovered the refrigerant).

[Evacuation method] (At the first installation this evacuation is not reruied. It is only required for service)

① When the units is in stopping condition and under the Setting mode set the Ⓓ Refrigerant recovery/Evacuation mode (※).
② Evacuate the system with a vaccum pump.
③ Push confirm button (BS3) after finish evacuation and reset the evecuation mode.
④ Push new page button (BS1) and reset Setting mode.
(※)The expansion valves in the indoor and outdoor units will be opened completely 7 segment display will be changed as shown in the below and “Test operation” and “Under centralized control” will be displayed in the remote controller, The operation will be rejected.

7 segment display E01

[Refrigerant recovery operation method] (Make sure to use a refrigerant reclaimer)

① When the unit is at standstill and under the Setting mode set the Ⓓ Refrigerant recovery/Evacuation mode to ON.
② Recovery the refrigerant by a refrigerant reclaimer.
(For details, see the manual attached in refrigerant reclaimer recovery operation method).
③ After completed, push the confirm button (BS3) and reset the refrigerant recovery mode.
④ Push new page button (BS1) and reset Setting mode.

C: 2P780086-1B

16. Caution for Refrigerant Leaks

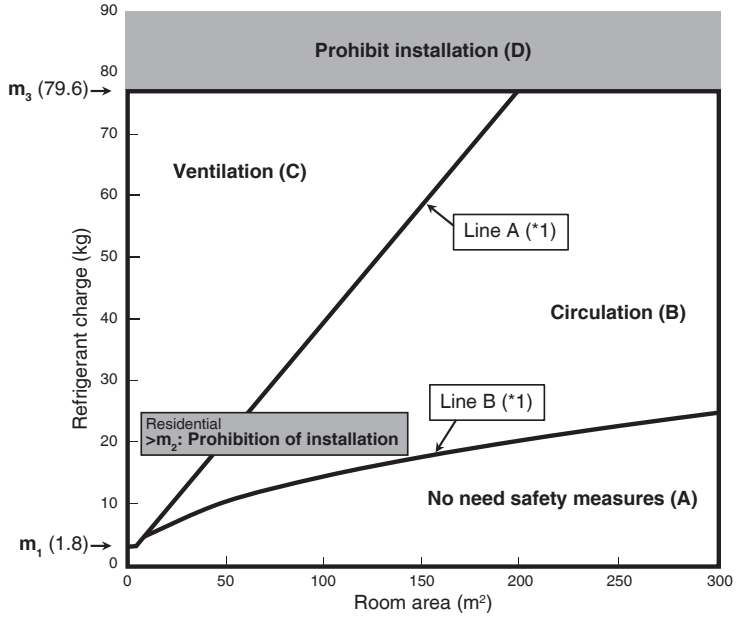
16.1 Introduction

These systems are charged with R32 refrigerant. Please refer to ASHRAE 15 and local standards and building code as applicable when installing this equipment. In the absence of codes, the following guidelines could be considered.

Safety measures at the installation area

Take safety measures according to the following table depending on the installation area.

For refrigerant charge and allowable maximum refrigerant charge room are, definition of room area, refer to the installation manual attached to the outdoor unit.



*1. Line A and B vary depending on the installation height of the indoor unit. For more accurate values, see to the table of Total refrigerant charge limit and the table of Max. refrigerant charge with no safety measures required.

Installation area	Safety measures requirements				Installation requirements for safety measure requirements
	Leak detection	Circulation	Ventilation	Operation when leak is occurred	
(A)	–	–	–	–	Possible to invalidate safety functions (*1)
(B)	○	○	–	Leak detection →Circulation	Not required (*2)
(C)	○	(○)	○	Leak detection →Ventilation	Install external ventilation system linked to leak detection (*3)

*1. Refrigerant leak sensors have a limited life span and are recommended to be disabled for areas where no safety measures are required.
The leak sensor can be disabled by setting Mode No.15 (25)-13 to 1 in the local settings of the remote controller. Though setting of Mode No. is carried out as a group, if you intend to carry out individual setting by each indoor unit or confirmation after setting, carry out setting with the Mode No. shown in the parenthesis ( ). See the instruction manual of the remote control for the local setting method.

*2. Indoor units for R32 are equipped with a refrigerant leak sensor. When leakage is detected, the unit performs circulation operation. There is no need to prepare other safety devices.

*3. The optional relay PC board for providing an output signal from the indoor unit is required to activate external devices such as a ventilation system. For more information, refer to the installation manual of the relay PC board.
The required ventilation airflow shall be calculated using of the formula below.
For (Q × 0.25*LFL)/10 < 1, the airflow of the mechanical ventilation shall be at least the quantity that satisfies the following formula:

$$m_c = -\frac{10 \times V}{Q} In\left(1 - \frac{Q \times 0.25 \times LFL}{10}\right)$$

For (Q × 0.25*LFL)/10 ≥ 1, the airflow shall be determined according the following formula:

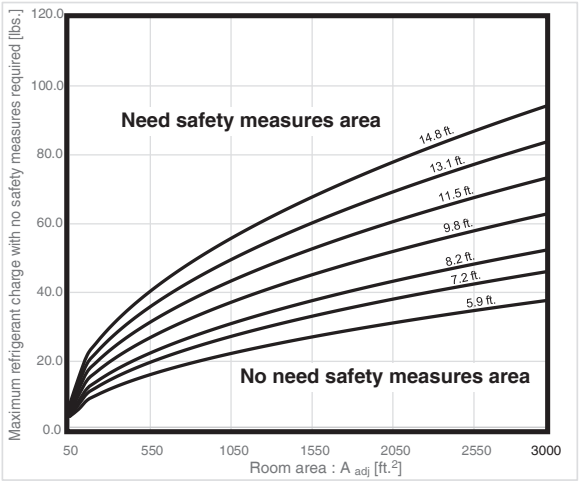
$$Q = \frac{10}{0.25 \times LFL}$$

Where
m_c is the total refrigerant charge in the system in kg, total charge determined by Step 3 of "1-3-4 To determine the charge limit for R32 refrigerant";
V is the room volume in m³;
10 is the expected maximum leak rate in kg/h;
Q is the ventilation airflow in m³/h;
LFL is the LOWER FLAMMABILITY LIMIT of 0.306 kg/m³;
Losses caused by ducts or other components in the air stream shall be considered.

C: 3P755177-1

◆Safety measures required or not (SI unit)

◆Safety measures required or not (FPS unit)



A adj [m²]	Max. refrigerant charge with no safety measures required (kg)						
	Effective installation height (h)						
	1.8 m	2.2 m	2.5 m	3.0 m	3.5 m	4.0 m	4.5 m
5	1.8	1.8	1.9	2.3	2.7	3.1	3.4
10	2.8	3.4	3.8	4.6	5.4	6.1	6.9
15	4.0	4.8	5.5	6.6	7.7	8.8	9.9
20	4.6	5.6	6.4	7.6	8.9	10.2	11.5
25	5.1	6.3	7.1	8.5	10.0	11.4	12.8
30	5.6	6.9	7.8	9.3	10.9	12.5	14.0
35	6.1	7.4	8.4	10.1	11.8	13.5	15.1
40	6.5	7.9	9.0	10.8	12.6	14.4	16.2
45	6.9	8.4	9.5	11.5	13.4	15.3	17.2
50	7.2	8.9	10.1	12.1	14.1	16.1	18.1
55	7.6	9.3	10.5	12.7	14.8	16.9	19.0
60	7.9	9.7	11.0	13.2	15.4	17.6	19.8
65	8.3	10.1	11.5	13.8	16.1	18.3	20.6
70	8.6	10.5	11.9	14.3	16.7	19.0	21.4
75	8.9	10.8	12.3	14.8	17.2	19.7	22.2
80	9.2	11.2	12.7	15.3	17.8	20.4	22.9
85	9.4	11.5	13.1	15.7	18.4	21.0	23.6
90	9.7	11.9	13.5	16.2	18.9	21.6	24.3
95	10.0	12.2	13.9	16.6	19.4	22.2	25.0
100	10.2	12.5	14.2	17.1	19.9	22.8	25.6
105	10.5	12.8	14.6	17.5	20.4	23.3	26.2
110	10.7	13.1	14.9	17.9	20.9	23.9	26.9
115	11.0	13.4	15.3	18.3	21.4	24.4	27.5
120	11.2	13.7	15.6	18.7	21.8	24.9	28.0
125	11.5	14.0	15.9	19.1	22.3	25.4	28.6
130	11.7	14.3	16.2	19.5	22.7	25.9	29.2
135	11.9	14.5	16.5	19.8	23.1	26.4	29.7
140	12.1	14.8	16.8	20.2	23.6	26.9	30.3
145	12.3	15.1	17.1	20.6	24.0	27.4	30.8
150	12.5	15.3	17.4	20.9	24.4	27.9	31.4
155	12.8	15.6	17.7	21.3	24.8	28.3	31.9
160	13.0	15.8	18.0	21.6	25.2	28.8	32.4
165	13.2	16.1	18.3	21.9	25.6	29.2	32.9
170	13.4	16.3	18.5	22.3	26.0	29.7	33.4
175	13.5	16.6	18.8	22.6	26.3	30.1	33.9
180	13.7	16.8	19.1	22.9	26.7	30.5	34.4
185	13.9	17.0	19.3	23.2	27.1	31.0	34.8
190	14.1	17.3	19.6	23.5	27.4	31.4	35.3
195	14.3	17.5	19.9	23.8	27.8	31.8	35.8
200	14.5	17.7	20.1	24.1	28.2	32.2	36.2
205	14.7	17.9	20.4	24.4	28.5	32.6	36.7
210	14.8	18.1	20.6	24.7	28.9	33.0	37.1
215	15.0	18.4	20.9	25.0	29.2	33.4	37.5
220	15.2	18.6	21.1	25.3	29.5	33.8	38.0

A adj [ft.²]	Max. refrigerant charge with no safety measures required (lbs.)						
	Effective installation height (h)						
	5.9 ft.	7.2 ft.	8.2 ft.	9.8 ft.	11.5 ft.	13.1 ft.	14.8 ft.
54	4.0	4.0	4.2	5.1	5.9	6.7	7.6
108	6.1	7.4	8.4	10.1	11.8	13.5	15.2
161	8.7	10.7	12.1	14.6	17.0	19.4	21.9
215	10.1	12.3	14.0	16.8	19.6	22.4	25.2
269	11.3	13.8	15.7	18.8	22.0	25.1	28.2
323	12.4	15.1	17.2	20.6	24.0	27.5	30.9
377	13.4	16.3	18.6	22.3	26.0	29.7	33.4
431	14.3	17.5	19.8	23.8	27.8	31.7	35.7
484	15.1	18.5	21.0	25.2	29.5	33.7	37.9
538	16.0	19.5	22.2	26.6	31.0	35.5	39.9
592	16.7	20.5	23.3	27.9	32.6	37.2	41.9
646	17.5	21.4	24.3	29.1	34.0	38.9	43.7
700	18.2	22.2	25.3	30.3	35.4	40.5	45.5
753	18.9	23.1	26.2	31.5	36.7	42.0	47.2
807	19.6	23.9	27.2	32.6	38.0	43.5	48.9
861	20.2	24.7	28.0	33.7	39.3	44.9	50.5
915	20.8	25.4	28.9	34.7	40.5	46.3	52.0
969	21.4	26.2	29.8	35.7	41.7	47.6	53.6
1023	22.0	26.9	30.6	36.7	42.8	48.9	55.0
1076	22.6	27.6	31.4	37.6	43.9	50.2	56.4
1130	23.1	28.3	32.1	38.6	45.0	51.4	57.8
1184	23.7	28.9	32.9	39.5	46.0	52.6	59.2
1238	24.2	29.6	33.6	40.4	47.1	53.8	60.5
1292	24.7	30.2	34.4	41.2	48.1	55.0	61.8
1345	25.2	30.9	35.1	42.1	49.1	56.1	63.1
1399	25.7	31.5	35.8	42.9	50.1	57.2	64.4
1453	26.2	32.1	36.4	43.7	51.0	58.3	65.6
1507	26.7	32.7	37.1	44.5	51.9	59.4	66.8
1561	27.2	33.2	37.8	45.3	52.9	60.4	68.0
1615	27.7	33.8	38.4	46.1	53.8	61.5	69.1
1668	28.1	34.4	39.0	46.9	54.7	62.5	70.3
1722	28.6	34.9	39.7	47.6	55.5	63.5	71.4
1776	29.0	35.4	40.3	48.3	56.4	64.5	72.5
1830	29.4	36.0	40.9	49.1	57.2	65.4	73.6
1884	29.9	36.5	41.5	49.8	58.1	66.4	74.7
1938	30.3	37.0	42.1	50.5	58.9	67.3	75.7
1991	30.7	37.5	42.7	51.2	59.7	68.2	76.8
2045	31.1	38.0	43.2	51.9	60.5	69.2	77.8
2099	31.5	38.5	43.8	52.5	61.3	70.1	78.8
2153	31.9	39.0	44.3	53.2	62.1	71.0	79.8
2207	32.3	39.5	44.9	53.9	62.9	71.8	80.8
2260	32.7	40.0	45.4	54.5	63.6	72.7	81.8
2314	33.1	40.5	46.0	55.2	64.4	73.6	82.8
2368	33.5	40.9	46.5	55.8	65.1	74.4	83.7

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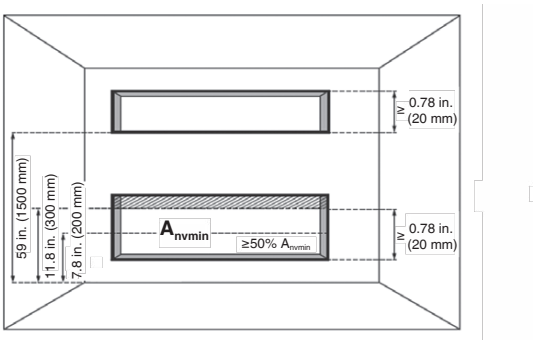
A_{adj} [m^2]	Max. refrigerant charge with no safety measures required (kg)						
	Effective installation height (h)						
	1.8 m	2.2 m	2.5 m	3.0 m	3.5 m	4.0 m	4.5 m
225	15.4	18.8	21.3	25.6	29.9	34.1	38.4
230	15.5	19.0	21.6	25.9	30.2	34.5	38.8
235	15.7	19.2	21.8	26.2	30.5	34.9	39.2
240	15.9	19.4	22.0	26.4	30.9	35.3	39.7
245	16.0	19.6	22.3	26.7	31.2	35.6	40.1
250	16.2	19.8	22.5	27.0	31.5	36.0	40.5
255	16.4	20.0	22.7	27.3	31.8	36.3	40.9
260	16.5	20.2	22.9	27.5	32.1	36.7	41.3
265	16.7	20.4	23.2	27.8	32.4	37.0	41.7
270	16.8	20.6	23.4	28.0	32.7	37.4	42.1
275	17.0	20.8	23.6	28.3	33.0	37.7	42.5
280	17.1	20.9	23.8	28.6	33.3	38.1	42.8
285	17.3	21.1	24.0	28.8	33.6	38.4	43.2
290	17.4	21.3	24.2	29.1	33.9	38.8	43.6
295	17.6	21.5	24.4	29.3	34.2	39.1	44.0
300	17.7	21.7	24.6	29.6	34.5	39.4	44.3

A_{adj} [$ft.^2$]	Max. refrigerant charge with no safety measures required (lbs.)						
	Effective installation height (h)						
	5.9 ft.	7.2 ft.	8.2 ft.	9.8 ft.	11.5 ft.	13.1 ft.	14.8 ft.
2422	33.9	41.4	47.0	56.4	65.9	75.3	84.7
2476	34.2	41.9	47.6	57.1	66.6	76.1	85.6
2530	34.6	42.3	48.1	57.7	67.3	76.9	86.5
2583	35.0	42.8	48.6	58.3	68.0	77.7	87.4
2637	35.3	43.2	49.1	58.9	68.7	78.5	88.4
2691	35.7	43.6	49.6	59.5	69.4	79.3	89.3
2745	36.1	44.1	50.1	60.1	70.1	80.1	90.1
2799	36.4	44.5	50.6	60.7	70.8	80.9	91.0
2852	36.8	44.9	51.0	61.3	71.5	81.7	91.9
2906	37.1	45.3	51.5	61.8	72.1	82.4	92.8
2960	37.4	45.8	52.0	62.4	72.8	83.2	93.6
3014	37.8	46.2	52.5	63.0	73.5	84.0	94.5
3068	38.1	46.6	52.9	63.5	74.1	84.7	95.3
3122	38.5	47.0	53.4	64.1	74.8	85.4	96.1
3175	38.8	47.4	53.9	64.6	75.4	86.2	97.0
3229	39.1	47.8	54.3	65.2	76.0	86.9	97.8

16.2 To Determine the Charge Limit for R32 Refrigerant

Please refer to ASHRAE 15 and relevant local standards and building codes as applicable to determine the charge limits when installing this equipment.
Step 1 – In order to derive the total refrigerant charge limit in the system, determine the area:
• of the rooms where an indoor unit is installed.
• AND of the rooms served by a ducted indoor unit installed in a different room.
The room area (A) shall be defined as the room area enclosed by the projection to the floor of the walls, partitions and doors of the space in which the appliance is installed. The area of the smallest room (A_{min}) being served by the system is used in the next step to determine the maximum allowable total charge of the system.
Spaces connected by only drop ceilings, ductwork, or similar connections shall not be considered a single space.
For units mounted higher than 5.9 ft. (1.8 m), spaces divided by partition walls which are no higher than 5.9 ft. (1.8 m) shall be considered a single space.
If the partition between two rooms on the same floor meets certain requirements, then the rooms are considered as one room and the areas of the rooms may be added up. In this way it is possible to increase the A_{min} value used to calculate the maximum allowed charge.
One of the following two requirements must be met to add up room areas:
1. Rooms on the same floor and connected by an open passageway between the spaces can be considered a single room if the passageway complies with all of the following.
   • It is a permanent opening.
   • It extends to the floor.
   • It is intended for people to walk through.
2. The area of the adjacent rooms, on the same floor, connected by permanent opening in the walls and/or doors between occupied spaces, including gaps between the wall and the floor, can be considered a single room provided all of the following are met.



A_{nvmin} Minimal natural ventilation area

For the lower opening:
- the openings are permanent openings which cannot be closed.
- the opening must be ≥ (A_{nvmin})

$$A_{\mathrm{nvmin}} = \frac{m_c - m_{max}}{LFL \times 104} \times \sqrt{\frac{A}{g \times m_{\max}} \times \frac{M}{M - 29}}$$

Where
A_{nvmin} is the minimum opening for natural ventilation in m²;
m_c is the total refrigerant charge in the system in kg, total charge determined by Step 3 of "16.2 To Determine the Charge Limit for R32 Refrigerant";
$m_{\max}$ is the charge limit for R32 refrigerant in the system in kg, the amount of refrigerant determined by the height of the room and the area of the room from the table in Step 2 below. However, 1.8 < $m_{\max}$ < 15.9;
LFL is the LOWER FLAMMABILITY LIMIT of 0.306 kg/m³;
A is the room area in m²;
M is the molar mass of the R32 refrigerant 52;
g is the gravity acceleration of 9.81 m/s²;
29 is the average molar mass of air in kg.

- The area of any openings above 11.8 in. (300 mm) from the floor does not count when determining A_{nvmin}
- At least 50% of A_{nvmin} is less than 7.8 in. (200 mm) above the floor
- The height of the opening is ≥ 0.78 in. (20 mm)

For the upper opening:
- the opening cannot be closed
- the opening must be ≥ 50% of A_{nvmin}
- the bottom of the upper opening must be ≥59 in. (1500 mm) above the floor
- the height of the opening is ≥ 0.78 in. (20 mm)

Note: The requirement for the upper opening can be met by drop ceilings, ventilation ducts or similar arrangements that provide an airflow path between the connected rooms.

The Indoor equipment mitigation requirements are calculated at sea level. For higher altitudes, adjust the smallest room area (A_{min}) determined above by the corresponding altitude adjustment factor shown below. This table is for reference only.

The adjusted room area (A_{adj}) is the product of the smallest room area (A_{min}) determined above and the adjustment factor AF, as shown in the following equation.

$A_{adj} = A_{min} * AF$

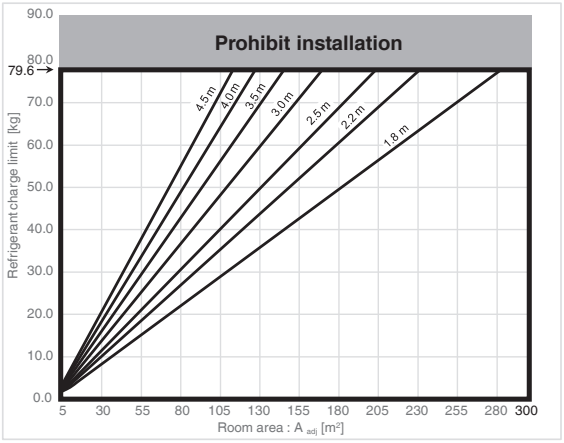
Height (m)	Height (ft.)	Altitude Adjustment Factor (AF)
At sea level	At sea level	1
1~200	1~660	1.02
200~400	660~1320	1.03
400~600	1320~1970	1.05
600~800	1970~2630	1.07
800~1000	2630~3290	1.09
1000~1200	3290~3940	1.11
1200~1400	3940~4600	1.13
1400~1600	4600~5250	1.15
1600~1800	5250~5910	1.17
1800~2000	5910~6570	1.19
2000~2200	6570~7220	1.21
2200~2400	7220~7880	1.24
2400~2600	7880~8540	1.26
2600~2800	8540~9190	1.29
2800~3000	9190~9850	1.31
3000~3200	9850~10500	1.34

Step 2 – Use the graph or table below to determine the total refrigerant charge limit in the system for each indoor unit AND for each room served by a ducted indoor unit.
The total refrigerant charge limit depends on the effective installation height, measured between:
• the bottom side of the indoor unit and the lowest point of the floor, in case the indoor unit is installed in the same room.
• the bottom of the duct opening and the lowest point of the floor, for rooms served by a ducted indoor unit installed in a different room.

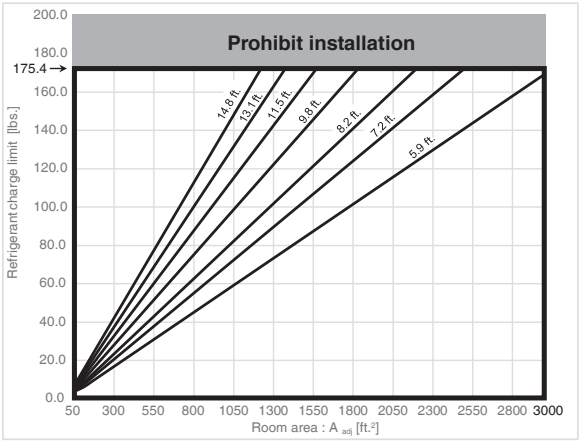
Note: If the height for your installation is not shown, use the closest lower height value in the table. E.g. for an installation height of 2.7 m, use the value corresponding with height 2.5 m of the table.
Refer to the databook for a more detailed table.

Note: If the room area for your installation is not shown, use linear interpolation to calculate it using the closest smallest and largest area values in the table.

◆Allowable maximum refrigerant charge (SI unit)



◆Allowable maximum refrigerant charge (FPS unit)



A_{adj} [m²]	Total refrigerant charge limit (kg)						
	Effective installation height (h)						
	1.8 m	2.2 m	2.5 m	3.0 m	3.5 m	4.0 m	4.5 m
5	1.8	1.8	1.9	2.3	2.7	3.1	3.4
10	2.8	3.4	3.8	4.6	5.4	6.1	6.9
15	4.1	5.0	5.7	6.9	8.0	9.2	10.3
20	5.5	6.7	7.7	9.2	10.7	12.2	13.8
25	6.9	8.4	9.6	11.5	13.4	15.3	17.2
30	8.3	10.1	11.5	13.8	16.1	18.4	20.7
35	9.6	11.8	13.4	16.1	18.7	21.4	24.1
40	11.0	13.5	15.3	18.4	21.4	24.5	27.5
45	12.4	15.1	17.2	20.7	24.1	27.5	31.0
50	13.8	16.8	19.1	23.0	26.8	30.6	34.4
55	15.1	18.5	21.0	25.2	29.5	33.7	37.9
60	16.5	20.2	23.0	27.5	32.1	36.7	41.3
65	17.9	21.9	24.9	29.8	34.8	39.8	44.8
70	19.3	23.6	26.8	32.1	37.5	42.8	48.2
75	20.7	25.2	28.7	34.4	40.2	45.9	51.6
80	22.0	26.9	30.6	36.7	42.8	49.0	55.1
85	23.4	28.6	32.5	39.0	45.5	52.0	58.5
90	24.8	30.3	34.4	41.3	48.2	55.1	62.0
95	26.2	32.0	36.3	43.6	50.9	58.1	65.4
100	27.5	33.7	38.3	45.9	53.6	61.2	68.9
105	28.9	35.3	40.2	48.2	56.2	64.3	72.3
110	30.3	37.0	42.1	50.5	58.9	67.3	75.7
115	31.7	38.7	44.0	52.8	61.6	70.4	79.2
120	33.0	40.4	45.9	55.1	64.3	73.4	79.6
125	34.4	42.1	47.8	57.4	66.9	76.5	79.6
130	35.8	43.8	49.7	59.7	69.6	79.6	79.6
135	37.2	45.4	51.6	62.0	72.3	79.6	79.6
140	38.6	47.1	53.6	64.3	75.0	79.6	79.6
145	39.9	48.8	55.5	66.6	77.6	79.6	79.6
150	41.3	50.5	57.4	68.9	79.6	79.6	79.6
155	42.7	52.2	59.3	71.1	79.6	79.6	79.6
160	44.1	53.9	61.2	73.4	79.6	79.6	79.6
165	45.4	55.5	63.1	75.7	79.6	79.6	79.6
170	46.8	57.2	65.0	78.0	79.6	79.6	79.6
175	48.2	58.9	66.9	79.6	79.6	79.6	79.6
180	49.6	60.6	68.9	79.6	79.6	79.6	79.6
185	50.9	62.3	70.8	79.6	79.6	79.6	79.6
190	52.3	64.0	72.7	79.6	79.6	79.6	79.6
195	53.7	65.6	74.6	79.6	79.6	79.6	79.6
200	55.1	67.3	76.5	79.6	79.6	79.6	79.6
205	56.5	69.0	78.4	79.6	79.6	79.6	79.6
210	57.8	70.7	79.6	79.6	79.6	79.6	79.6
215	59.2	72.4	79.6	79.6	79.6	79.6	79.6
220	60.6	74.1	79.6	79.6	79.6	79.6	79.6
225	62.0	75.7	79.6	79.6	79.6	79.6	79.6
230	63.3	77.4	79.6	79.6	79.6	79.6	79.6

A_{adj} [ft.²]	Total refrigerant charge limit (lbs.)						
	Effective installation height (h)						
	5.9 ft.	7.2 ft.	8.2 ft.	9.8 ft.	11.5 ft.	13.1 ft.	14.8 ft.
54	4.0	4.0	4.2	5.1	5.9	6.7	7.6
108	6.1	7.4	8.4	10.1	11.8	13.5	15.2
161	9.1	11.1	12.6	15.2	17.7	20.2	22.8
215	12.1	14.8	16.9	20.2	23.6	27.0	30.4
269	15.2	18.6	21.1	25.3	29.5	33.7	37.9
323	18.2	22.3	25.3	30.4	35.4	40.5	45.5
377	21.3	26.0	29.5	35.4	41.3	47.2	53.1
431	24.3	29.7	33.7	40.5	47.2	54.0	60.7
484	27.3	33.4	37.9	45.5	53.1	60.7	68.3
538	30.4	37.1	42.2	50.6	59.0	67.5	75.9
592	33.4	40.8	46.4	55.7	64.9	74.2	83.5
646	36.4	44.5	50.6	60.7	70.8	81.0	91.1
700	39.5	48.2	54.8	65.8	76.7	87.7	98.7
753	42.5	51.9	59.0	70.8	82.6	94.4	106.3
807	45.5	55.7	63.2	75.9	88.5	101.2	113.8
861	48.6	59.4	67.5	81.0	94.4	107.9	121.4
915	51.6	63.1	71.7	86.0	100.3	114.7	129.0
969	54.6	66.8	75.9	91.1	106.3	121.4	136.6
1023	57.7	70.5	80.1	96.1	112.2	128.2	144.2
1076	60.7	74.2	84.3	101.2	118.1	134.9	151.8
1130	63.8	77.9	88.5	106.3	124.0	141.7	159.4
1184	66.8	81.6	92.8	111.3	129.9	148.4	167.0
1238	69.8	85.3	97.0	116.4	135.8	155.2	174.6
1292	72.9	89.0	101.2	121.4	141.7	161.9	175.4
1345	75.9	92.8	105.4	126.5	147.6	168.7	175.4
1399	78.9	96.5	109.6	131.5	153.5	175.4	175.4
1453	82.0	100.2	113.8	136.6	159.4	175.4	175.4
1507	85.0	103.9	118.1	141.7	165.3	175.4	175.4
1561	88.0	107.6	122.3	146.7	171.2	175.4	175.4
1615	91.1	111.3	126.5	151.8	175.4	175.4	175.4
1668	94.1	115.0	130.7	156.8	175.4	175.4	175.4
1722	97.1	118.7	134.9	161.9	175.4	175.4	175.4
1776	100.2	122.4	139.1	167.0	175.4	175.4	175.4
1830	103.2	126.2	143.4	172.0	175.4	175.4	175.4
1884	106.3	129.9	147.6	175.4	175.4	175.4	175.4
1938	109.3	133.6	151.8	175.4	175.4	175.4	175.4
1991	112.3	137.3	156.0	175.4	175.4	175.4	175.4
2045	115.4	141.0	160.2	175.4	175.4	175.4	175.4
2099	118.4	144.7	164.4	175.4	175.4	175.4	175.4
2153	121.4	148.4	168.7	175.4	175.4	175.4	175.4
2207	124.5	152.1	172.9	175.4	175.4	175.4	175.4
2260	127.5	155.8	175.4	175.4	175.4	175.4	175.4
2314	130.5	159.5	175.4	175.4	175.4	175.4	175.4
2368	133.6	163.3	175.4	175.4	175.4	175.4	175.4
2422	136.6	167.0	175.4	175.4	175.4	175.4	175.4
2476	139.6	170.7	175.4	175.4	175.4	175.4	175.4

C: 3P755177-1

A_{adj} [m^2]	Total refrigerant charge limit (kg)						
	Effective installation height (h)						
	1.8 m	2.2 m	2.5 m	3.0 m	3.5 m	4.0 m	4.5 m
235	64.7	79.1	79.6	79.6	79.6	79.6	79.6
240	66.1	79.6	79.6	79.6	79.6	79.6	79.6
245	67.5	79.6	79.6	79.6	79.6	79.6	79.6
250	68.9	79.6	79.6	79.6	79.6	79.6	79.6
255	70.2	79.6	79.6	79.6	79.6	79.6	79.6
260	71.6	79.6	79.6	79.6	79.6	79.6	79.6
265	73.0	79.6	79.6	79.6	79.6	79.6	79.6
270	74.4	79.6	79.6	79.6	79.6	79.6	79.6
275	75.7	79.6	79.6	79.6	79.6	79.6	79.6
280	77.1	79.6	79.6	79.6	79.6	79.6	79.6
285	78.5	79.6	79.6	79.6	79.6	79.6	79.6
290	79.6	79.6	79.6	79.6	79.6	79.6	79.6
295	79.6	79.6	79.6	79.6	79.6	79.6	79.6
300	79.6	79.6	79.6	79.6	79.6	79.6	79.6

A_{adj} [$ft.^2$]	Total refrigerant charge limit (lbs.)						
	Effective installation height (h)						
	5.9 ft.	7.2 ft.	8.2 ft.	9.8 ft.	11.5 ft.	13.1 ft.	14.8 ft.
2530	142.7	174.4	175.4	175.4	175.4	175.4	175.4
2583	145.7	175.4	175.4	175.4	175.4	175.4	175.4
2637	148.8	175.4	175.4	175.4	175.4	175.4	175.4
2691	151.8	175.4	175.4	175.4	175.4	175.4	175.4
2745	154.8	175.4	175.4	175.4	175.4	175.4	175.4
2799	157.9	175.4	175.4	175.4	175.4	175.4	175.4
2852	160.9	175.4	175.4	175.4	175.4	175.4	175.4
2906	163.9	175.4	175.4	175.4	175.4	175.4	175.4
2960	167.0	175.4	175.4	175.4	175.4	175.4	175.4
3014	170.0	175.4	175.4	175.4	175.4	175.4	175.4
3068	173.0	175.4	175.4	175.4	175.4	175.4	175.4
3122	175.4	175.4	175.4	175.4	175.4	175.4	175.4
3175	175.4	175.4	175.4	175.4	175.4	175.4	175.4
3229	175.4	175.4	175.4	175.4	175.4	175.4	175.4

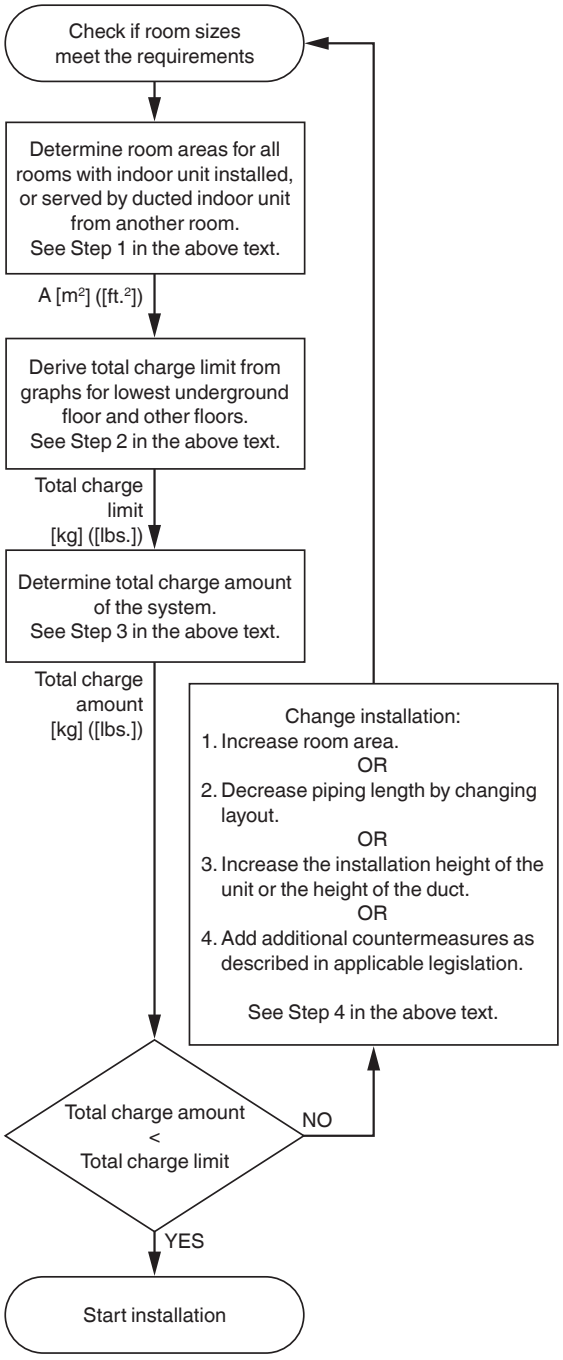
Step 3 – Determine the total amount of refrigerant in the system:
Total charge = Factory charge + additional charge =
3.4 kg (7.5 lbs.) + R[(a)]
Refer to the installation manual in the separate booklet for the calculation of the R value (additional refrigerant to be charged).

Step 4 – The total refrigerant charge in the system MUST be less than the lowest value of the refrigerant charge limit for each room where an indoor unit is installed or that is served by a ducted indoor unit installed in a different room. If NOT, change the installation (see choices below) and repeat all of the above steps.
1. Increase the area of the room restricting the total charge.
OR
2. Decrease the piping length by changing the system layout.
OR
3. Increase the installation height of the unit or the duct.
OR
4. Add additional countermeasures as described in applicable legislation.
The optional relay PC board for providing an output signal from the indoor unit can be used to connect and activate the additional countermeasures (e.g. mechanical ventilation).
Total charge can be increased to 79.6 kg (175.4 lbs.) by connecting a ventilation system.

Note: The total refrigerant charge amount in the system MUST always be lower than 79.6 kg (175.4 lbs.).

For further details, please refer to the General Safety Considerations booklet.

Flow chart



C: 3P755177-1

17.Safety Devices List

17.1 FCA

Model	FCA18AAVJU	FCA24AAVJU	FCA30AAVJU	FCA36AAVJU	FCA42AAVJU	FCA48AAVJU
Printed circuit board fuse (A2P)	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 (A2P)	450 V, 3.15 A	450 V, 3.15 A	450 V, 3.15 A	450 V, 3.15 A	450 V, 3.15 A	450 V, 3.15 A

C: 4D151719

17.2 FAA

Model	FAA18AAVJU	FAA24AAVJU
Printed circuit board fuse (A2P)	250 V, 3.15 A	250 V, 3.15 A
Printed circuit board fuse (A2P)	450 V, 3.15 A	450 V, 3.15 A

4D158244

17.3 FBA

Model	FBA18AAVJU	FBA24AAVJU	FBA30AAVJU	FBA36AAVJU	FBA42AAVJU	FBA48AAVJU
Printed circuit board fuse (A2P)	250 V, 10 A	250 V, 10 A	250 V, 10 A	250 V, 10 A	250 V, 10 A	250 V, 10 A
Printed circuit board fuse (A2P)	450 V, 6.3 A	450 V, 6.3 A	450 V, 6.3 A	450 V, 6.3 A	450 V, 6.3 A	450 V, 6.3 A
Printed circuit board fuse (A3P)	250 V, 12 A	250 V, 12 A	250 V, 12 A	250 V, 12 A	250 V, 12 A	250 V, 12 A

C: 3D151597

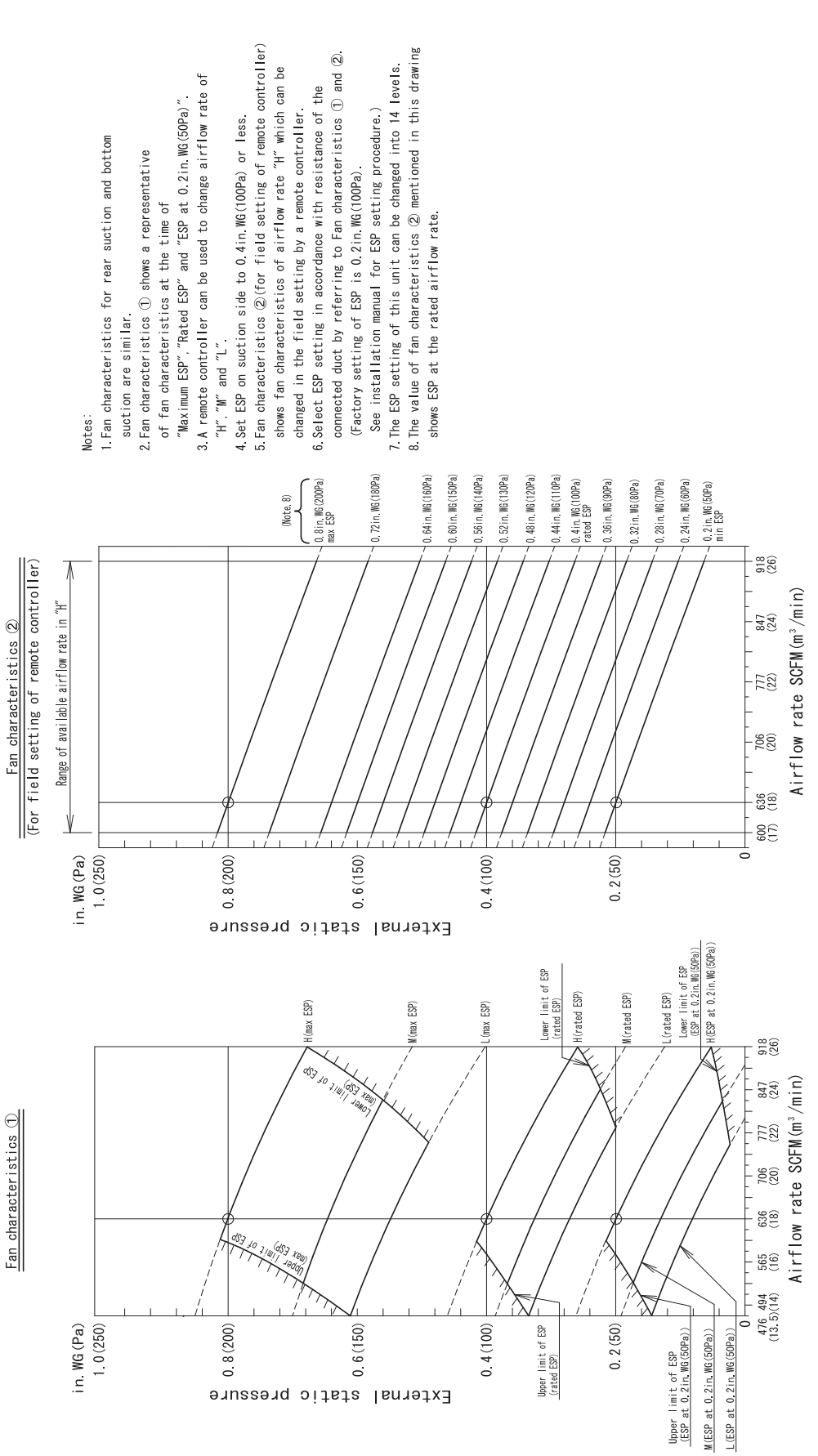
17.4 FTA

Model (without factory disconnect)	FTA18AAVJUA	FTA24AAVJUA	FTA30AAVJUA	FTA36AAVJUA	FTA42AAVJUA	FTA48AAVJUA
Model (with factory disconnect)	FTA18AAVJUD	FTA24AAVJUD	FTA30AAVJUD	FTA36AAVJUD	FTA42AAVJUD	FTA48AAVJUD
Printed circuit board fuse (F1U)	32 V, 3 A	32 V, 3 A	32 V, 3 A	32 V, 3 A	32 V, 3 A	32 V, 3 A
Printed circuit board fuse (F2U)	250 V, 10 A	250 V, 10 A	250 V, 10 A	250 V, 10 A	250 V, 10 A	250 V, 10 A
Others	Blower motor, Fan driver overload protector					

18.Fan Performances

18.1 FBA

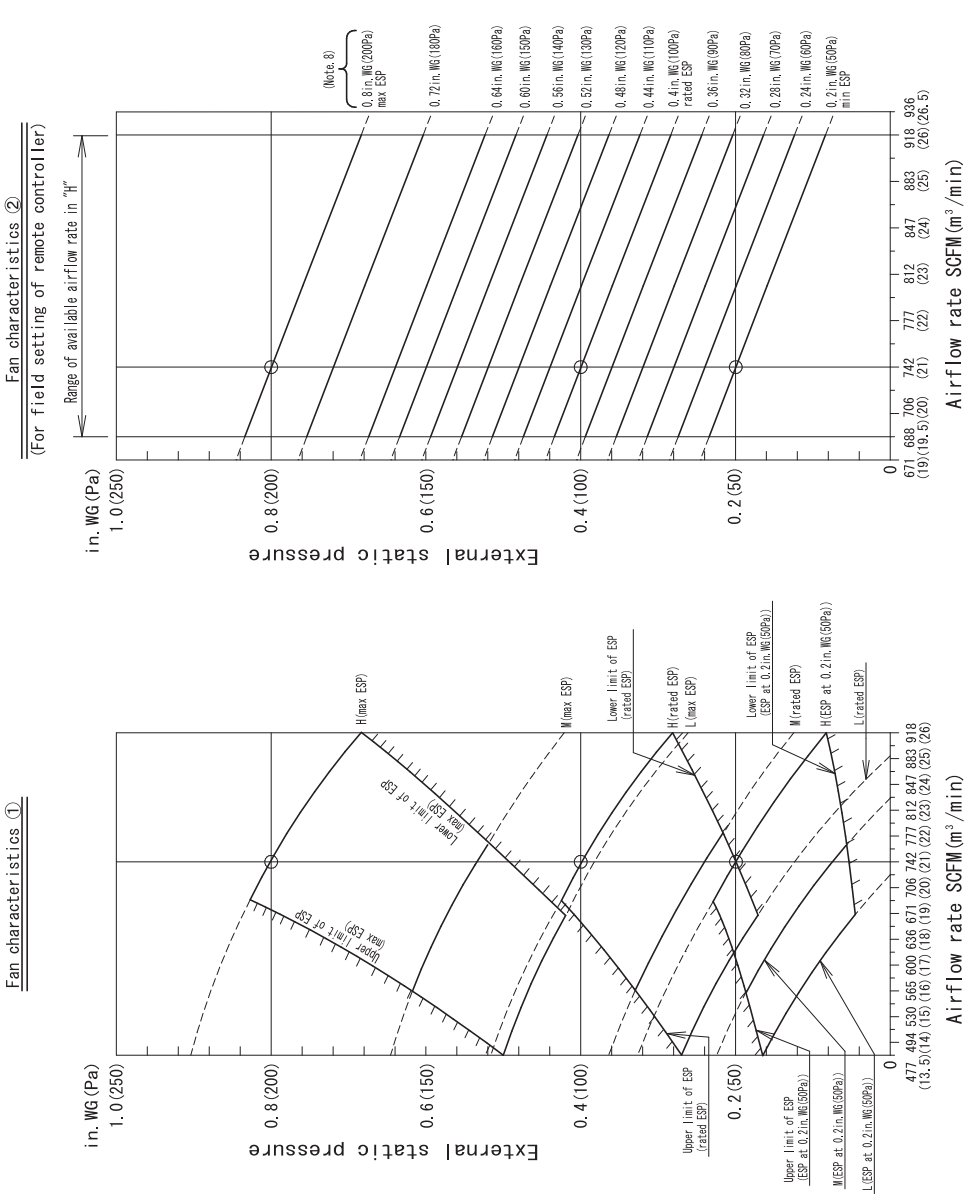
FBA18AAVJU



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

C: 3D143366

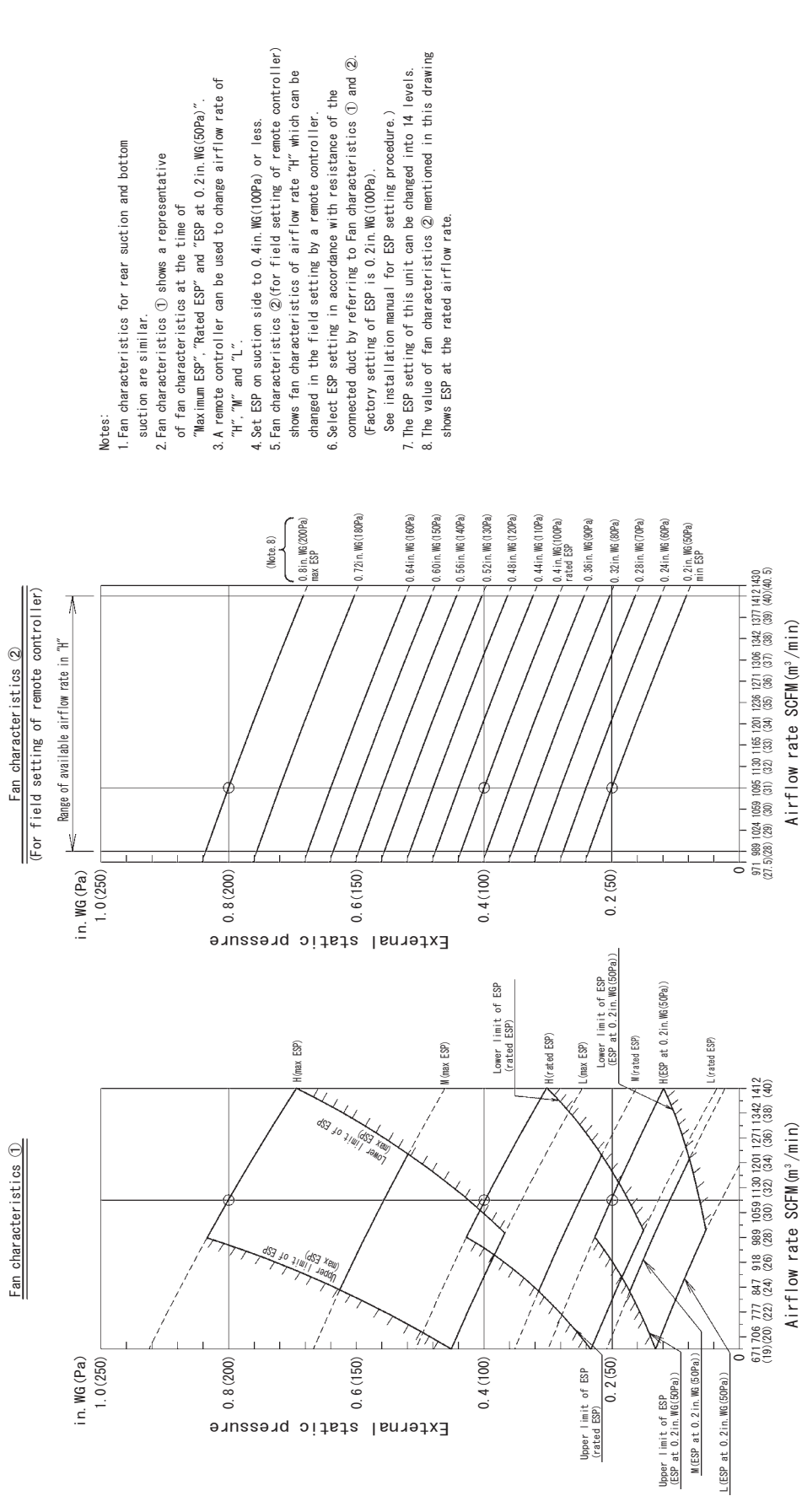
FBA24AAVJU



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

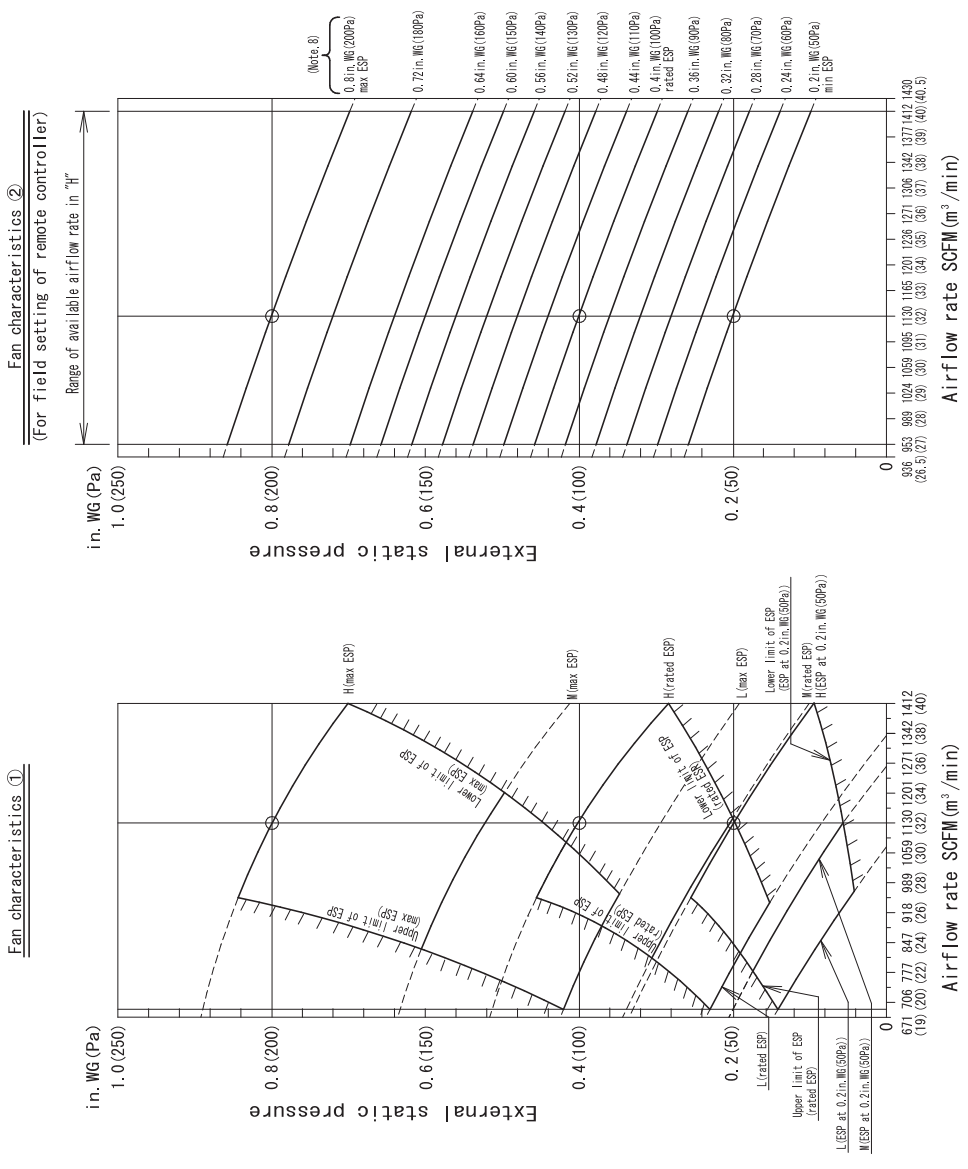
C: 3D143367

FBA30AAVJU



C: 3D151648

FBA36AAVJU



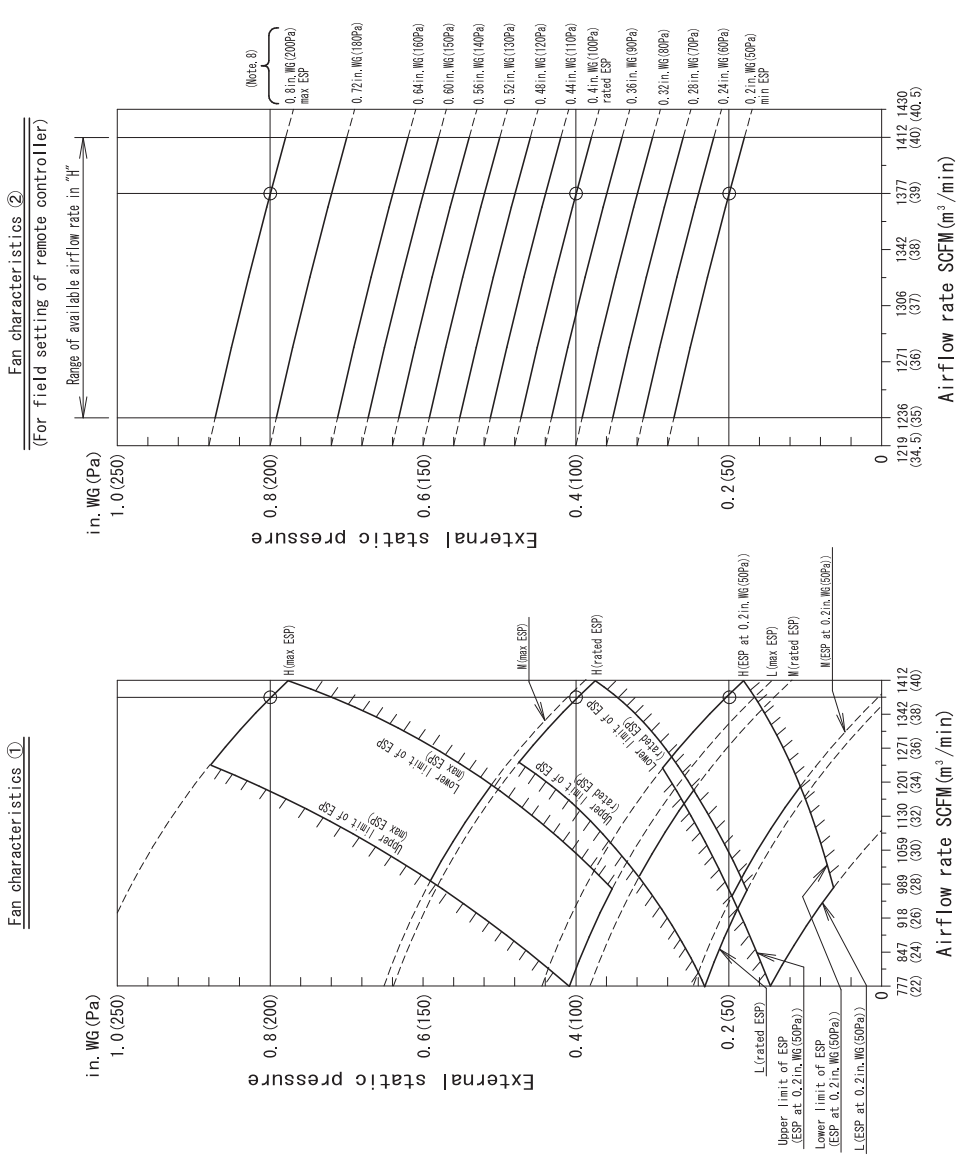
Notes:
1. Fan characteristics for rear suction and bottom suction are similar.
2. Fan characteristics ① shows a representative of fan characteristics at the time of "Maximum ESP", "Rated ESP" and "ESP at 0.2in. WG (50Pa)".
3. A remote controller can be used to change airflow rate of "H", "M" and "L".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

C: 3D143369

FBA42 - 48AAVJU

C: 3D143370

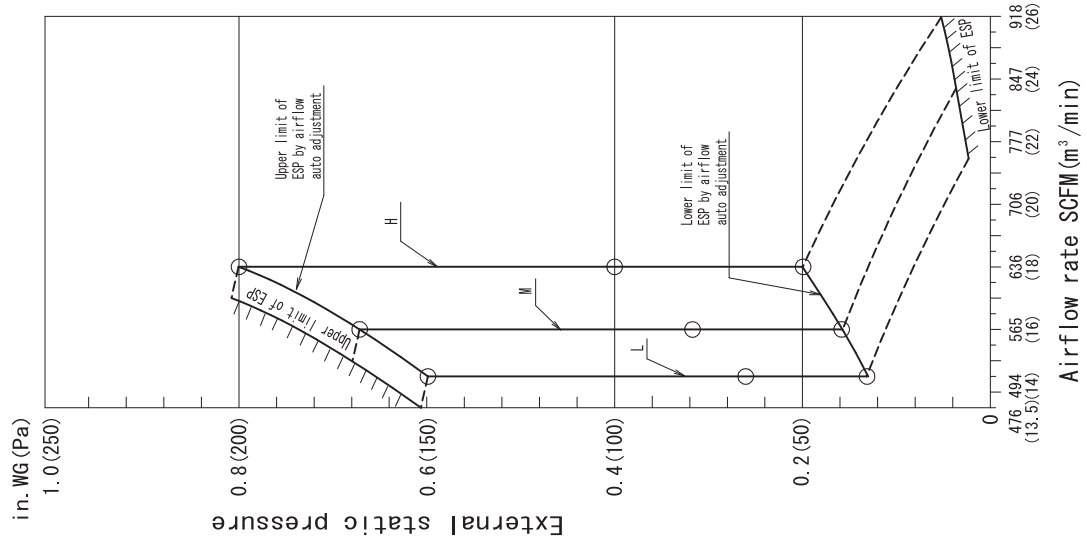
Notes:
1. Fan characteristics for rear suction and bottom suction are similar.
2. Fan characteristics ① shows a representative of fan characteristics at the time of "Maximum ESP", "Rated ESP" and "ESP at 0.2in.WG(50Pa)".
3. A remote controller can be used to change airflow rate of "H", "M" and "L".
4.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



19.Airflow Auto Adjustment Characteristics

19.1 FBA

FBA18AAVJU

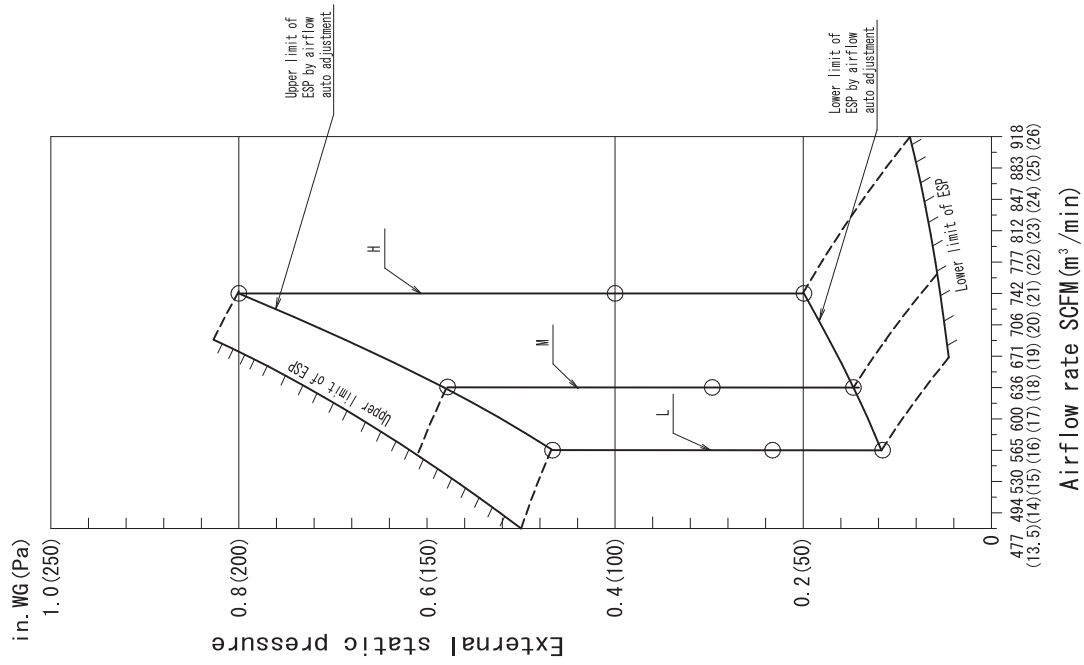


Notes:
1. This indoor unit has the "Airflow automatic adjustment" function, which automatically adjusts the airflow rate so as to be approximately in the range of ±10% of the rated value at the time of installation.
2. After duct construction completion, perform field setting "Airflow automatic adjustment"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

C: 3D143380

FBA24AAVJU

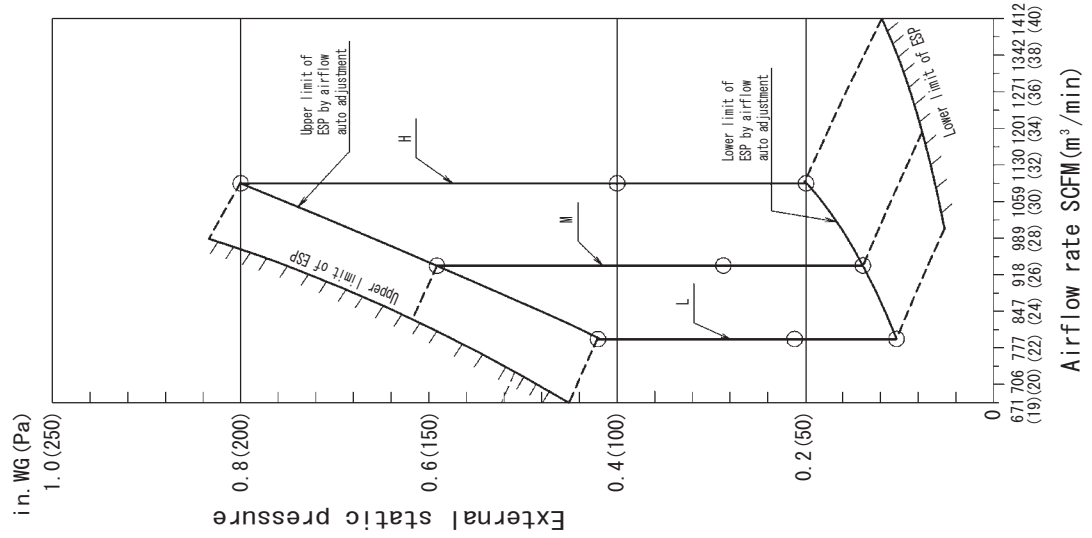
Notes:
1. This indoor unit has the "Airflow automatic adjustment" function, which automatically adjusts the airflow rate so as to be approximately in the range of ±10% of the rated value at the time of installation.
2. After duct construction completion, perform field setting "Airflow automatic adjustment"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



C: 3D143381

FBA30AAVJU

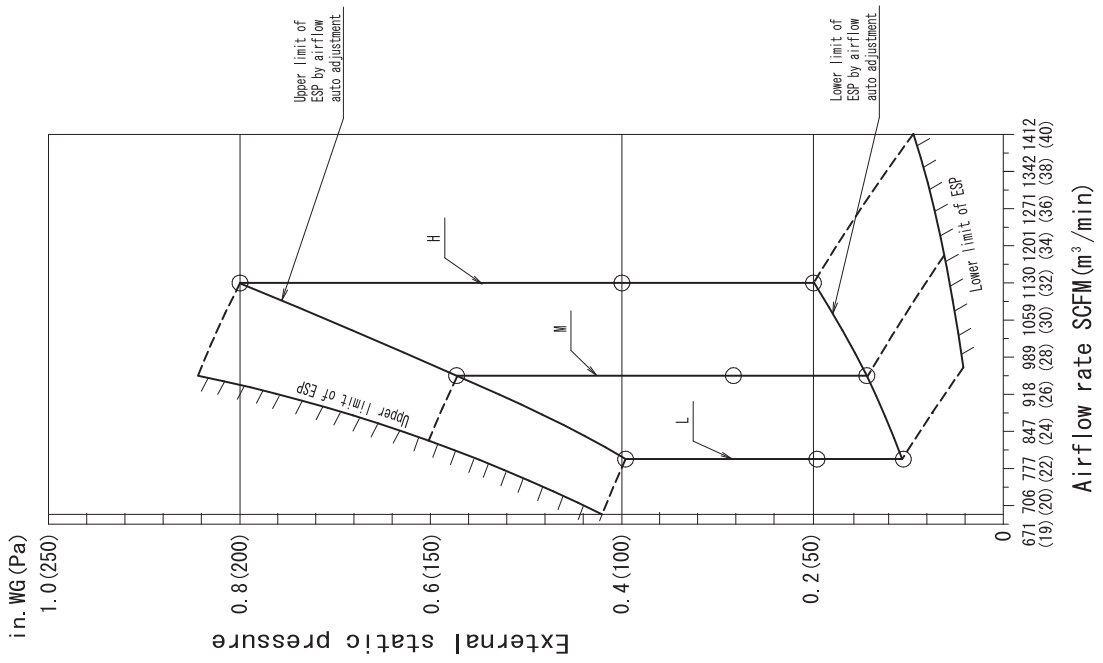
Notes:
1. This indoor unit has the "Airflow automatic adjustment" function, which automatically adjusts the airflow rate so as to be approximately in the range of ±10% of the rated value at the time of installation.
2. After duct construction completion, perform field setting "Airflow automatic adjustment"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



C: 3D151665

FBA36AAVJU

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

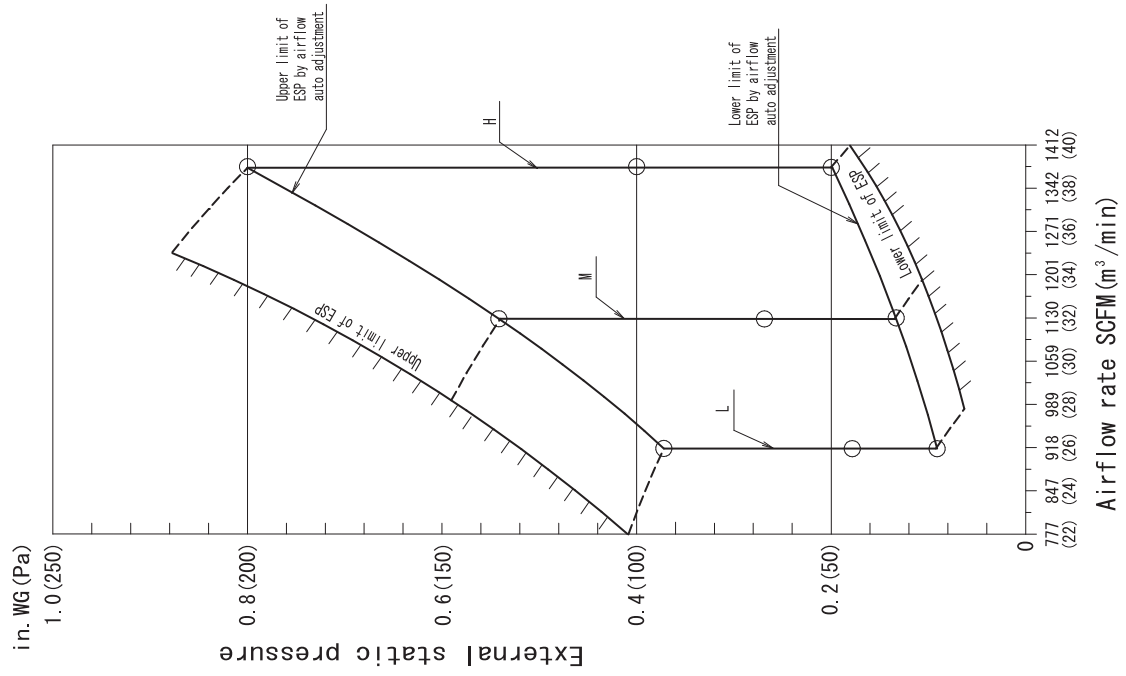


C: 3D143383

FBA42 - 48AAVJU

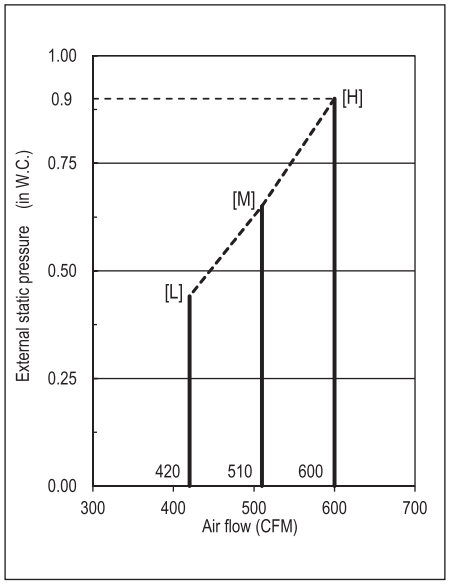
Notes:
1. This indoor unit has the "Airflow automatic adjustment" function, which automatically adjusts the airflow rate so as to be approximately in the range of ±10% of the rated value at the time of installation.
2. After duct construction completion, perform field setting "Airflow automatic adjustment"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

C: 3D143384

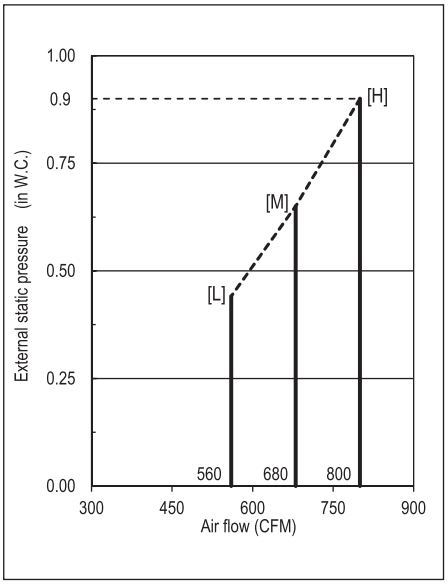


19.2 FTA

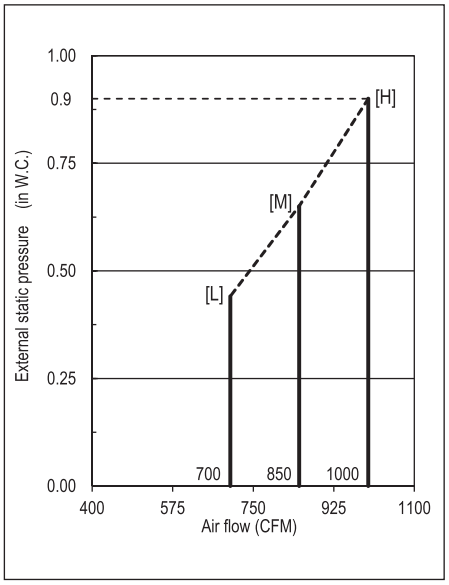
FTA18AAVJUD
FTA18AAVJUA



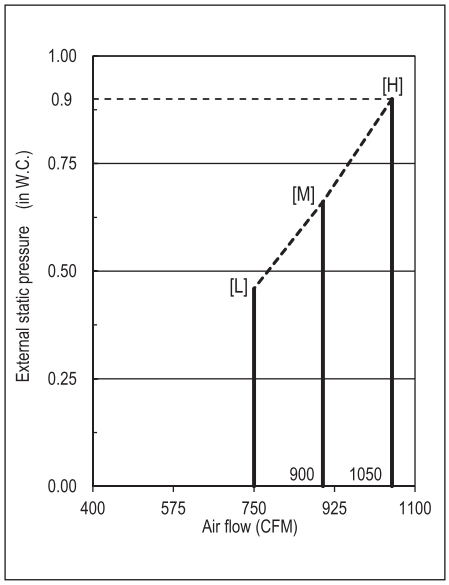
FTA24AAVJUD
FTA24AAVJUA



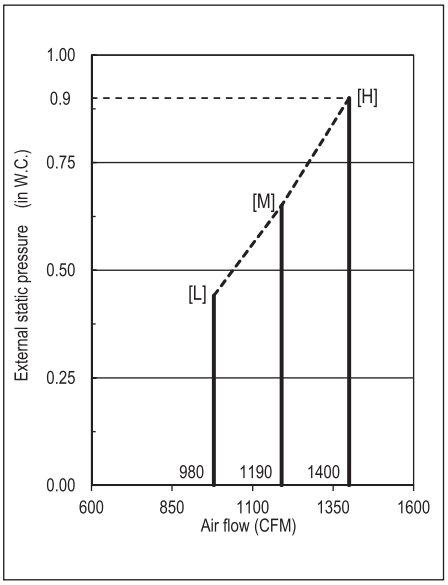
FTA30AAVJUD
FTA30AAVJUA



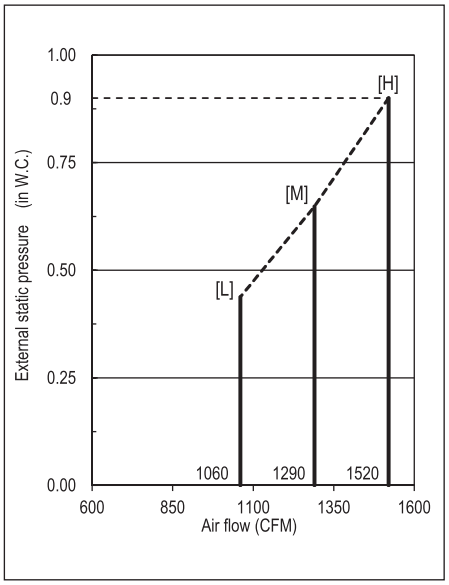
FTA36AAVJUD
FTA36AAVJUA



FTA42AAVJUD
FTA42AAVJUA



FTA48AAVJUD
FTA48AAVJUA



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 enquiries, please contact your local importer, distributor and/or retailer.

Cautions on product corrosion

1. Air conditioners should not be installed in areas where corrosive gases, such as acid gas or alkaline gas, are produced.
2. If the outdoor unit is to be installed close to the sea shore, direct exposure to the sea breeze should be avoided. If you need to install the outdoor unit close to the sea shore, contact your local distributor.

●Specifications, designs and other content appearing in this brochure are current as of August 2025 but subject to change without notice.