DAIKIN

EDUS122402

R-32

Engineering Data

Multi-Split Type Air Conditioners

- Heat Pump -

2/3/4MXM-A, 2MXT-A, 2MXTH-A Series









INVERTER

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1. Power Supply

Indoor Unit		Outdoor Unit	Power Supply
Wall Mounted Type CTXV, FTXV Series	CTXV07AVJU9	**Standard Type** 2MXM18AVJU9 3MXM24AVJU9 4MXM36AVJU9 **Cold Climate Type** 2MXT18AVJU9 2MXTH18AVJU9 (with drain pan heater)	1 phase, 208 - 230 V, 60 Hz
	FTXV09AVJU9		
	FTXV12AVJU9		
	FTXV15AVJU9		
	FTXV18AVJU9		
	FTXV24AVJU9		

Note: Power Supply Intake ; Outdoor Unit

Cautions

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

2. Functions

2.1 Indoor unit

Category	Functions	CTXV07AVJU9 FTXV09/12AVJU9	FTXV15/18/24AVJU9
Basic Function	Inverter (with inverter power control)	●	●
Comfortable Airflow	Power-airflow flap (horizontal blade)	●	—
	Power-airflow dual flaps (horizontal blade)	—	●
	Wide-angle louvers (vertical blades)	●	●
	Auto-swing (up and down)	●	●
	Auto-swing (left and right)	—	—
	3-D airflow	—	—
	COMFORT AIRFLOW operation	●	●
Comfort Control	Auto fan speed	●	●
	Switchable fan speed	●	●
	Indoor unit quiet operation	●	●
	INTELLIGENT EYE operation	—	—
	2-area INTELLIGENT EYE operation	—	—
	Hot-start function	●	●
Operation	Automatic cooling/heating change-over	●	●
	Program dry operation	●	●
	Fan only	●	●
Lifestyle Convenience	POWERFUL operation (inverter)	●	●
	ECONO operation	●	●
	Indoor unit **ON/OFF** switch	●	●
	Multi-colored indicator lamp	—	—
	Monitor brightness setting	—	—
	Signal receiving sign	●	●
	R/C with back light	●	●
Health and Cleanliness	Titanium apatite deodorizing filter	●	●
	Mold proof air filter	●	●
	Wipe-clean flat panel	●	●
	Washable grille	—	—
Timer	WEEKLY TIMER operation	—	—
	24-hour ON/OFF TIMER	—	—
	Count up-down ON/OFF timer	●	●
	NIGHT SET mode	●	●
Worry Free (Reliability & Durability)	Auto-restart (after power failure)	●	●
	Self-diagnosis (R/C, LED)	●	●
Flexibility	Multi-split/split type compatible indoor unit	●	●
	Either side drain (left or right)	●	●
	°F/°C changeover R/C temperature display (factory setting: °F)	●	●
Remote Control	Remote control adaptor (normal open pulse contact)	Option	Option
	Remote control adaptor (normal open contact)	Option	Option
	DIII-NET compatible (adaptor)	Option	Option
	Wireless LAN connection	●	●
Remote Controller	Wireless	●	●
	Wired	Option	Option

Notes: ●: Available

—: Not available

2.2 Outdoor unit

Function	Standard		Cold Climate	
	2MXM	3/4MXM	2MXT	2MXTH
Inverter (with inverter power control)	●	●	●	●
Operation limit	Refer to P. 25			
PAM control	●	●	●	●
Standby electricity saving	—	—	—	—
Swing compressor	●	●	●	●
Reluctance DC motor	●	●	●	●
NIGHT QUIET mode	●	●	●	●
QUIET OUTDOOR UNIT operation	●	●	●	●
Quick warming function	—	—	—	—
Automatic defrosting	●	●	●	●
Defrost learning control	—	—	—	—
Priority room setting	●	●	●	●
COOL/HEAT mode lock	●	●	●	●
Self-diagnosis (R/C, LED)	●	●	●	●
Wiring error check function	●	●	●	●
Anti-corrosion treatment of outdoor heat exchanger	●	●	●	●
Drain pan heater	Option	Option	Option	●
Drain pan heater control by microcomputer	●	●	●	●
Chargeless	98.4 ft (30 m)	131.2 ft (40 m)	98.4 ft (30 m)	98.4 ft (30 m)
Low temp. cooling operation (−15°C) (5°F)	—	—	—	—

Notes: ●: Available

—: Not available

3. Specification

3.1 Indoor unit

Model			CTXV07AVJU9		FTXV09AVJU9	
			Cooling	Heating	Cooling	Heating
Power Supply		Phase	1ϕ		1ϕ	
		Hz, V	60 Hz, 208 - 230 V		60 Hz, 208 - 230 V	
Rated Capacity			7 kBtu/h Class		9 kBtu/h Class	
Front Panel Color (Munsell No.)			White (N9.5)		White (N9.5)	
Airflow Rates	H	cfm (m³/min)	332 (9.4)	332 (9.4)	381 (10.8)	385 (10.9)
	M		268 (7.6)	279 (7.9)	272 (7.7)	304 (8.6)
	L		230 (6.5)	230 (6.5)	230 (6.5)	230 (6.5)
	SL		166 (4.7)	194 (5.5)	166 (4.7)	194 (5.5)
Fan	Type		Cross Flow Fan		Cross Flow Fan	
	Drive Input	A	0.20		0.20	
	Speed	Steps	5 Steps, Quiet, Auto		5 Steps, Quiet, Auto	
Air Direction Control			Right, Left, Horizontal, Downward		Right, Left, Horizontal, Downward	
Air Filter			Removable, Washable		Removable, Washable	
Running Current (Rated)		A	0.11 - 0.10	0.12 - 0.11	0.14 - 0.13	0.13 - 0.12
Power Consumption (Rated)		W	20 - 20	23 - 23	26 - 26	25 - 25
Power Factor (Rated)		%	87.0 - 90.3	94.0 - 91.3	90.4 - 86.2	90.9 - 87.3
Temperature Control			Microcomputer Control		Microcomputer Control	
Dimensions (H × W × D)		in. (mm)	11-1/4 × 30-5/16 × 8-3/4 (286 × 770 × 223)		11-1/4 × 30-5/16 × 8-3/4 (286 × 770 × 223)	
Packaged Dimensions (H × W × D)		in. (mm)	12-5/8 × 32-11/16 × 14-3/16 (320 × 830 × 360)		12-5/8 × 32-11/16 × 14-3/16 (320 × 830 × 360)	
Weight (Mass)		lbs (kg)	19 (9)		19 (9)	
Gross Weight (Gross Mass)		lbs (kg)	24 (11)		24 (11)	
Sound Pressure Level	H / M / L / SL	dB(A)	40 / 35 / 31 / 24	39 / 34 / 28 / 25	43 / 35 / 31 / 24	41 / 35 / 28 / 25
Heat Insulation			Both Liquid and Gas Pipes		Both Liquid and Gas Pipes	
Piping Connection	Liquid	in. (mm)	ϕ 1/4 (ϕ 6.4)		ϕ 1/4 (ϕ 6.4)	
	Gas	in. (mm)	ϕ 3/8 (ϕ 9.5)		ϕ 3/8 (ϕ 9.5)	
	Drain	in. (mm)	ϕ 5/8 (ϕ 16)		ϕ 5/8 (ϕ 16)	
Drawing No.			3D153215A		3D153215A	
Note			SL: The quiet fan level of the airflow rate setting		SL: The quiet fan level of the airflow rate setting	

Model			FTXV12AVJU9		FTXV15AVJU9	
			Cooling	Heating	Cooling	Heating
Power Supply		Phase	1ϕ		1ϕ	
		Hz, V	60 Hz, 208 - 230 V		60 Hz, 208 - 230 V	
Rated Capacity			12 kBtu/h Class		15 kBtu/h Class	
Front Panel Color (Munsell No.)			White (N9.5)		White (N9.5)	
Airflow Rates	H	cfm (m³/min)	392 (11.1)	438 (12.4)	540 (15.3)	636 (18.0)
	M		293 (8.3)	318 (9.0)	470 (13.3)	537 (15.2)
	L		226 (6.4)	240 (6.8)	381 (10.8)	452 (12.8)
	SL		166 (4.7)	205 (5.8)	339 (9.6)	388 (11.0)
Fan	Type		Cross Flow Fan		Cross Flow Fan	
	Drive Input	A	0.23		0.31	
	Speed	Steps	5 Steps, Quiet, Auto		5 Steps, Quiet, Auto	
Air Direction Control			Right, Left, Horizontal, Downward		Right, Left, Horizontal, Downward	
Air Filter			Removable, Washable		Removable, Washable	
Running Current (Rated)		A	0.17 - 0.15	0.20 - 0.18	0.19 - 0.17	0.20 - 0.18
Power Consumption (Rated)		W	29 - 29	35 - 35	36 - 36	39 - 39
Power Factor (Rated)		%	81.3 - 84.7	83.7 - 82.7	91.1 - 93.5	93.8 - 92.3
Temperature Control			Microcomputer Control		Microcomputer Control	
Dimensions (H × W × D)		in. (mm)	11-1/4 × 30-5/16 × 8-3/4 (286 × 770 × 223)		11-5/8 × 39 × 10-3/8 (295 × 990 × 263)	
Packaged Dimensions (H × W × D)		in. (mm)	12-5/8 × 32-11/16 × 14-3/16 (320 × 830 × 360)		15-3/16 × 43-3/8 × 15-5/16 (386 × 1,102 × 389)	
Weight (Mass)		lbs (kg)	19 (9)		27 (13)	
Gross Weight (Gross Mass)		lbs (kg)	24 (11)		37 (17)	
Sound Pressure Level	H / M / L / SL	dB(A)	45 / 37 / 31 / 24	45 / 37 / 30 / 26	45 / 41 / 36 / 33	45 / 41 / 37 / 33
Heat Insulation			Both Liquid and Gas Pipes		Both Liquid and Gas Pipes	
Piping Connection	Liquid	in. (mm)	ϕ 1/4 (ϕ 6.4)		ϕ 1/4 (ϕ 6.4)	
	Gas	in. (mm)	ϕ 3/8 (ϕ 9.5)		ϕ 1/2 (ϕ 12.7)	
	Drain	in. (mm)	ϕ 5/8 (ϕ 16)		ϕ 5/8 (ϕ 16)	
Drawing No.			3D153215A		3D153178A	
Note			SL: The quiet fan level of the airflow rate setting		SL: The quiet fan level of the airflow rate setting	

Conversion Formulae
kcal/h = kW × 860 Btu/h = kW × 3412 cfm = m³/min × 35.3

Model			FTXV18AVJU9		FTXV24AVJU9	
			Cooling	Heating	Cooling	Heating
Power Supply		Phase	1ϕ		1ϕ	
		Hz, V	60 Hz, 208 - 230 V		60 Hz, 208 - 230 V	
Rated Capacity			18 kBtu/h Class		24 kBtu/h Class	
Front Panel Color (Munsell No.)			White (N9.5)		White (N9.5)	
Airflow Rates	H	cfm (m³/min)	565 (16.0)	717 (20.3)	629 (17.8)	717 (20.3)
	M		463 (13.1)	572 (16.2)	501 (14.2)	572 (16.2)
	L		378 (10.7)	452 (12.8)	378 (10.7)	466 (13.2)
	SL		335 (9.5)	388 (11.0)	335 (9.5)	413 (11.7)
Fan	Type		Cross Flow Fan		Cross Flow Fan	
	Drive Input	A	0.40		0.45	
	Speed	Steps	5 Steps, Quiet, Auto		5 Steps, Quiet, Auto	
Air Direction Control			Right, Left, Horizontal, Downward		Right, Left, Horizontal, Downward	
Air Filter			Removable, Washable		Removable, Washable	
Running Current (Rated)		A	0.20 - 0.18	0.29 - 0.26	0.31 - 0.28	0.30 - 0.27
Power Consumption (Rated)		W	39 - 39	54 - 54	57 - 57	55 - 55
Power Factor (Rated)		%	93.8 - 92.5	89.5 - 89.3	88.4 - 88.7	88.1 - 89.3
Temperature Control			Microcomputer Control		Microcomputer Control	
Dimensions (H × W × D)		in. (mm)	11-5/8 × 39 × 10-3/8 (295 × 990 × 263)		11-5/8 × 39 × 10-3/8 (295 × 990 × 263)	
Packaged Dimensions (H × W × D)		in. (mm)	15-3/16 × 43-3/8 × 15-5/16 (386 × 1,102 × 389)		15-3/16 × 43-3/8 × 15-5/16 (386 × 1,102 × 389)	
Weight (Mass)		lbs (kg)	27 (13)		27 (13)	
Gross Weight (Gross Mass)		lbs (kg)	37 (17)		37 (17)	
Sound Pressure Level	H / M / L / SL	dB(A)	48 / 43 / 38 / 33	49 / 42 / 37 / 33	52 / 45 / 39 / 34	49 / 43 / 38 / 34
Heat Insulation			Both Liquid and Gas Pipes		Both Liquid and Gas Pipes	
Piping Connection	Liquid	in. (mm)	ϕ 1/4 (ϕ 6.4)		ϕ 1/4 (ϕ 6.4)	
	Gas	in. (mm)	ϕ 1/2 (ϕ 12.7)		ϕ 5/8 (ϕ 15.9)	
	Drain	in. (mm)	ϕ 5/8 (ϕ 16)		ϕ 5/8 (ϕ 16)	
Drawing No.			3D153178A		3D153178A	
Note			SL: The quiet fan level of the airflow rate setting		SL: The quiet fan level of the airflow rate setting	

Conversion Formulae
kcal/h = kW × 860 Btu/h = kW × 3412 cfm = m³/min × 35.3

3.2 Outdoor unit

Model			2MXM18AVJU9		3MXM24AVJU9	
			Cooling	Heating	Cooling	Heating
Power Supply		Phase	1ϕ		1ϕ	
		Hz, V	60 Hz, 208 - 230 V		60 Hz, 208 - 230 V	
COP@5°F		W/W	—	1.8	—	1.8
EER2		Btu/W·h	12.0	—	12.0	—
SEER2			21.0	—	21.0	—
HSPF2			—	10.0	—	10.0
Casing Color			Ivory White		Ivory White	
Compressor	Type		Hermetically Sealed Swing Type		Hermetically Sealed Swing Type	
	Model		2Y147BKBX1A		2Y260BPAX1A	
	Motor Output	W	1,300		2,400	
Refrigerant Oil	Model		FW68DA		FW68DA	
	Charge	fl oz (L)	22.0 (0.65)		30.4 (0.9)	
Refrigerant	Type		R-32		R-32	
	Charge	lbs (kg)	3.3 (1.50)		4.9 (2.2)	
Airflow Rates		cfm	2,112	2,140	2,055	2,140
		m³/min	59.8	60.6	58.2	60.6
Fan	Type		Propeller		Propeller	
	Motor Output	W	150		150	
	Running Current	A	0.31	0.33	0.29	0.33
	Power Consumption	W	65.4	67.7	61.0	67.7
Starting Current		A	14.0		17.0	
Dimensions (H × W × D)		in. (mm)	29-1/2 × 34-1/4 × 12-5/8 (750 × 870 × 320)		29-1/2 × 34-1/4 × 12-5/8 (750 × 870 × 320)	
Packaged Dimensions (H × W × D)		in. (mm)	32-1/16 × 40-5/16 × 16 (814 × 1,024 × 406)		32-1/16 × 40-5/16 × 16 (814 × 1,024 × 406)	
Weight (Mass)		lbs (kg)	127 (58)		140 (64)	
Gross Weight (Gross Mass)		lbs (kg)	135 (61)		148 (67)	
Sound Pressure Level		dB(A)	52	54	52	54
Piping Connection	Liquid	in. (mm)	ϕ 1/4 × 2 (ϕ 6.4 × 2)		ϕ 1/4 × 3 (ϕ 6.4 × 3)	
	Gas	in. (mm)	ϕ 3/8 × 1, ϕ 1/2 × 1 (ϕ 9.5 × 1, ϕ 12.7 × 1)		ϕ 3/8 × 1, ϕ 1/2 × 2 (ϕ 9.5 × 1, ϕ 12.7 × 2)	
	Drain	in. (mm)	I.D. ϕ 5/8 (ϕ 15.9)		I.D. ϕ 5/8 (ϕ 15.9)	
Heat Insulation			Both Liquid and Gas Pipes		Both Liquid and Gas Pipes	
No. of Wiring Connections			3 for Power Supply, 4 for Interunit Wiring (Including Ground Wiring)		3 for Power Supply, 4 for Interunit Wiring (Including Ground Wiring)	
Max. Interunit Piping Length		ft (m)	164 (50) (for Total of Each Room)		230 (70) (for Total of Each Room)	
		ft (m)	82 (25) (for One Room)		82 (25) (for One Room)	
Amount of Additional Charge		oz/ft (g/m)	0.22 (20) (98-3/8 ft (30 m) or more)		0.22 (20) (131-1/4 ft (40 m) or more)	
Max. Installation Height Difference		ft (m)	49-1/4 (15) (Between Indoor Unit and Outdoor Unit)		49-1/4 (15) (Between Indoor Unit and Outdoor Unit)	
		ft (m)	24-5/8 (7.5) (Between Indoor Units)		24-5/8 (7.5) (Between Indoor Units)	
Conditions Based on			Indoor ; 80°FDB (26.7°CDB) / 67°FWB (19.4°CWB) Outdoor ; 95°FDB (35°CDB) / 75°FWB (24°CWB)	Indoor ; 70°FDB (21°CDB) / 60°FWB (15.6°CWB) Outdoor ; 47°FDB (8.3°CDB) / 43°FWB (6°CWB)	Indoor ; 80°FDB (26.7°CDB) / 67°FWB (19.4°CWB) Outdoor ; 95°FDB (35°CDB) / 75°FWB (24°CWB)	Indoor ; 70°FDB (21°CDB) / 60°FWB (15.6°CWB) Outdoor ; 47°FDB (8.3°CDB) / 43°FWB (6°CWB)
			Piping length: 25 ft (7.5 m)		Piping length: 25 ft (7.5 m)	
Drawing No.			3D151521A		3D152057A	

Conversion Formulae
kcal/h = kW × 860 Btu/h = kW × 3412 cfm = m³/min × 35.3

Model			4MXM36AVJU9	
			Cooling	Heating
Power Supply		Phase	1ϕ	
		Hz, V	60 Hz, 208 - 230 V	
COP@5°F		W/W	—	1.8
EER2		Btu/W·h	10.0	—
SEER2			20.0	—
HSPF2			—	9.5
Casing Color			Ivory White	
Compressor	Type		Hermetically Sealed Swing Type	
	Model		2Y260BPAX1A	
	Motor Output	W	2,400	
Refrigerant Oil	Model		FW68DA	
	Charge	fl oz (L)	30.4 (0.9)	
Refrigerant	Type		R-32	
	Charge	lbs (kg)	4.9 (2.2)	
Airflow Rates		cfm	2,402	2,518
		m³/min	68.0	71.3
Fan	Type		Propeller	
	Motor Output	W	150	
	Running Current	A	0.44	0.49
	Power Consumption	W	90.9	102.7
Starting Current		A	18.5	
Dimensions (H × W × D)		in. (mm)	29-1/2 × 34-1/4 × 12-5/8 (750 × 870 × 320)	
Packaged Dimensions (H × W × D)		in. (mm)	32-1/16 × 40-5/16 × 16 (814 × 1,024 × 406)	
Weight (Mass)		lbs (kg)	142 (65)	
Gross Weight (Gross Mass)		lbs (kg)	150 (68)	
Sound Pressure Level		dB(A)	56	60
Piping Connection	Liquid	in. (mm)	ϕ 1/4 × 4 (ϕ 6.4 × 4)	
	Gas	in. (mm)	ϕ 3/8 × 1, ϕ 1/2 × 2, ϕ 5/8 × 1 (ϕ 9.5 × 1, ϕ 12.7 × 2, ϕ 15.9 × 1)	
	Drain	in. (mm)	I.D. ϕ 5/8 (ϕ 15.9)	
Heat Insulation			Both Liquid and Gas Pipes	
No. of Wiring Connections			3 for Power Supply, 4 for Interunit Wiring (Including Ground Wiring)	
Max. Interunit Piping Length		ft (m)	230 (70) (for Total of Each Room)	
		ft (m)	82 (25) (for One Room)	
Amount of Additional Charge		oz/ft (g/m)	0.22 (20) (131-1/4 ft (40 m) or more)	
Max. Installation Height Difference		ft (m)	49-1/4 (15) (Between Indoor Unit and Outdoor Unit)	
		ft (m)	24-5/8 (7.5) (Between Indoor Units)	
Conditions Based on			Indoor ; 80°FDB (26.7°CDB) / 67°FWB (19.4°CWB) Outdoor ; 95°FDB (35°CDB) / 75°FWB (24°CWB)	Indoor ; 70°FDB (21°CDB) / 60°FWB (15.6°CWB) Outdoor ; 47°FDB (8.3°CDB) / 43°FWB (6°CWB)
			Piping length: 25 ft (7.5 m)	
Drawing No.			3D151522A	

Conversion Formulae
kcal/h = kW × 860 Btu/h = kW × 3412 cfm = m³/min × 35.3

Model			2MXT18AVJU9		2MXTH18AVJU9	
			Cooling	Heating	Cooling	Heating
Power Supply		Phase	1ϕ		1ϕ	
		Hz, V	60 Hz, 208 - 230 V		60 Hz, 208 - 230 V	
COP@5°F		W/W	—	1.8	—	1.8
EER2		Btu/W·h	12.0	—	12.0	—
SEER2			21.0	—	21.0	—
HSPF2			—	10.0	—	10.0
Casing Color			Ivory White		Ivory White	
Compressor	Type		Hermetically Sealed Swing Type		Hermetically Sealed Swing Type	
	Model		2Y260BPAX1A		2Y260BPAX1A	
	Motor Output	W	2,400		2,400	
Refrigerant Oil	Model		FW68DA		FW68DA	
	Charge	fl oz (L)	30.4 (0.9)		30.4 (0.9)	
Refrigerant	Type		R-32		R-32	
	Charge	lbs (kg)	4.9 (2.2)		4.9 (2.2)	
Airflow Rates		cfm	2,112	2,140	2,112	2,140
		m³/min	59.8	60.6	59.8	60.6
Fan	Type		Propeller		Propeller	
	Motor Output	W	150		150	
	Running Current	A	0.31	0.33	0.31	0.33
	Power Consumption	W	65.4	67.7	65.4	67.7
Starting Current		A	17.0		17.0	
Dimensions (H × W × D)		in. (mm)	29-1/2 × 34-1/4 × 12-5/8 (750 × 870 × 320)		29-1/2 × 34-1/4 × 12-5/8 (750 × 870 × 320)	
Packaged Dimensions (H × W × D)		in. (mm)	32-1/16 × 40-5/16 × 16 (814 × 1,024 × 406)		32-1/16 × 40-5/16 × 16 (814 × 1,024 × 406)	
Weight (Mass)		lbs (kg)	139 (63)		140 (64)	
Gross Weight (Gross Mass)		lbs (kg)	147 (67)		148 (67)	
Sound Pressure Level		dB(A)	52	54	52	54
Piping Connection	Liquid	in. (mm)	ϕ 1/4 × 2 (ϕ 6.4 × 2)		ϕ 1/4 × 2 (ϕ 6.4 × 2)	
	Gas	in. (mm)	ϕ 3/8 × 1, ϕ 1/2 × 1 (ϕ 9.5 × 1, ϕ 12.7 × 1)		ϕ 3/8 × 1, ϕ 1/2 × 1 (ϕ 9.5 × 1, ϕ 12.7 × 1)	
	Drain	in. (mm)	I.D. ϕ 5/8 (ϕ 15.9)		I.D. ϕ 5/8 (ϕ 15.9)	
Heat Insulation			Both Liquid and Gas Pipes		Both Liquid and Gas Pipes	
No. of Wiring Connections			3 for Power Supply, 4 for Interunit Wiring (Including Ground Wiring)		3 for Power Supply, 4 for Interunit Wiring (Including Ground Wiring)	
Max. Interunit Piping Length		ft (m)	164 (50) (for Total of Each Room)		164 (50) (for Total of Each Room)	
		ft (m)	82 (25) (for One Room)		82 (25) (for One Room)	
Amount of Additional Charge		oz/ft (g/m)	0.22 (20) (98-3/8 ft (30 m) or more)		0.22 (20) (98-3/8 ft (30 m) or more)	
Max. Installation Height Difference		ft (m)	49-1/4 (15) (Between Indoor Unit and Outdoor Unit)		49-1/4 (15) (Between Indoor Unit and Outdoor Unit)	
		ft (m)	24-5/8 (7.5) (Between Indoor Units)		24-5/8 (7.5) (Between Indoor Units)	
Conditions Based on			Indoor ; 80°FDB (26.7°CDB) / 67°FWB (19.4°CWB) Outdoor ; 95°FDB (35°CDB) / 75°FWB (24°CWB)	Indoor ; 70°FDB (21°CDB) / 60°FWB (15.6°CWB) Outdoor ; 47°FDB (8.3°CDB) / 43°FWB (6°CWB)	Indoor ; 80°FDB (26.7°CDB) / 67°FWB (19.4°CWB) Outdoor ; 95°FDB (35°CDB) / 75°FWB (24°CWB)	Indoor ; 70°FDB (21°CDB) / 60°FWB (15.6°CWB) Outdoor ; 47°FDB (8.3°CDB) / 43°FWB (6°CWB)
			Piping length: 25 ft (7.5 m)		Piping length: 25 ft (7.5 m)	
Drawing No.			3D152058A		3D151523A	

Conversion Formulae
kcal/h = kW × 860 Btu/h = kW × 3412 cfm = m³/min × 35.3

3.3 Combination Capacity

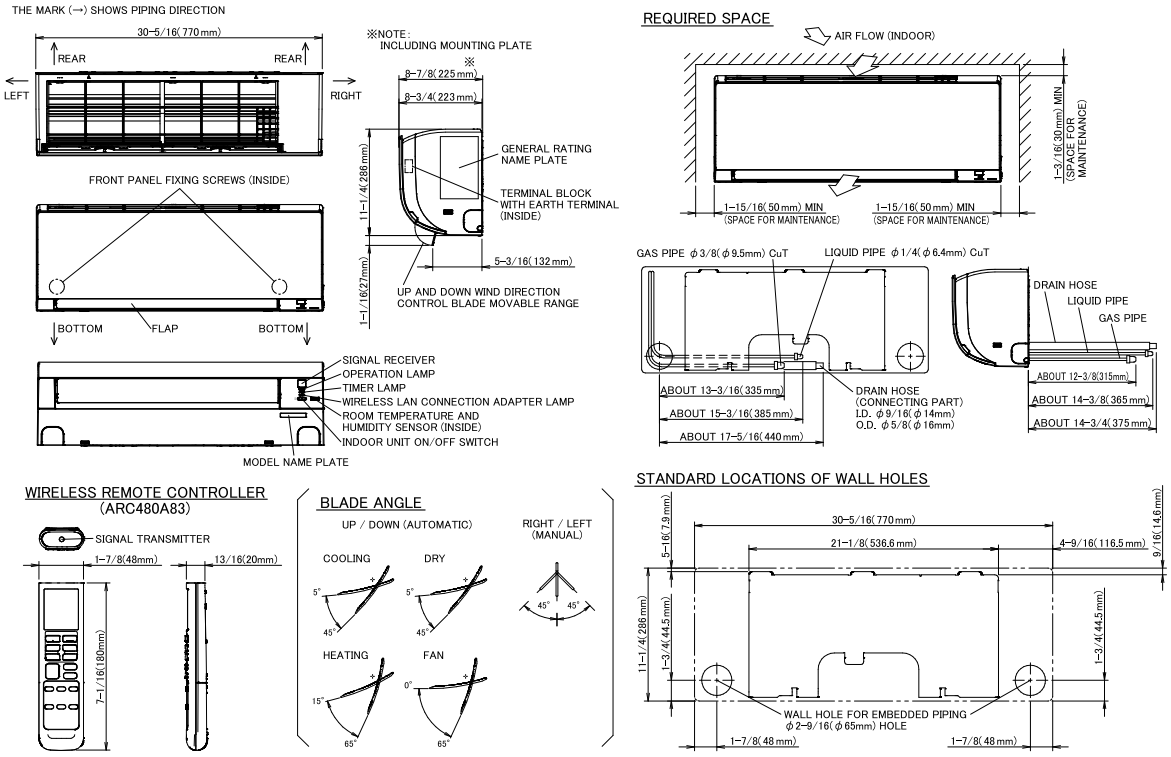
Refer to Engineering Data books below for the Combination Capacity.

Type	Model Name	Reference
Standard type	2MXM18AVJU9 3MXM24AVJU9 4MXM36AVJU9	EDUS122403
Cold climate type	2MXT18AVJU9 2MXTH18AVJU9	EDUS122404

4. Dimensions

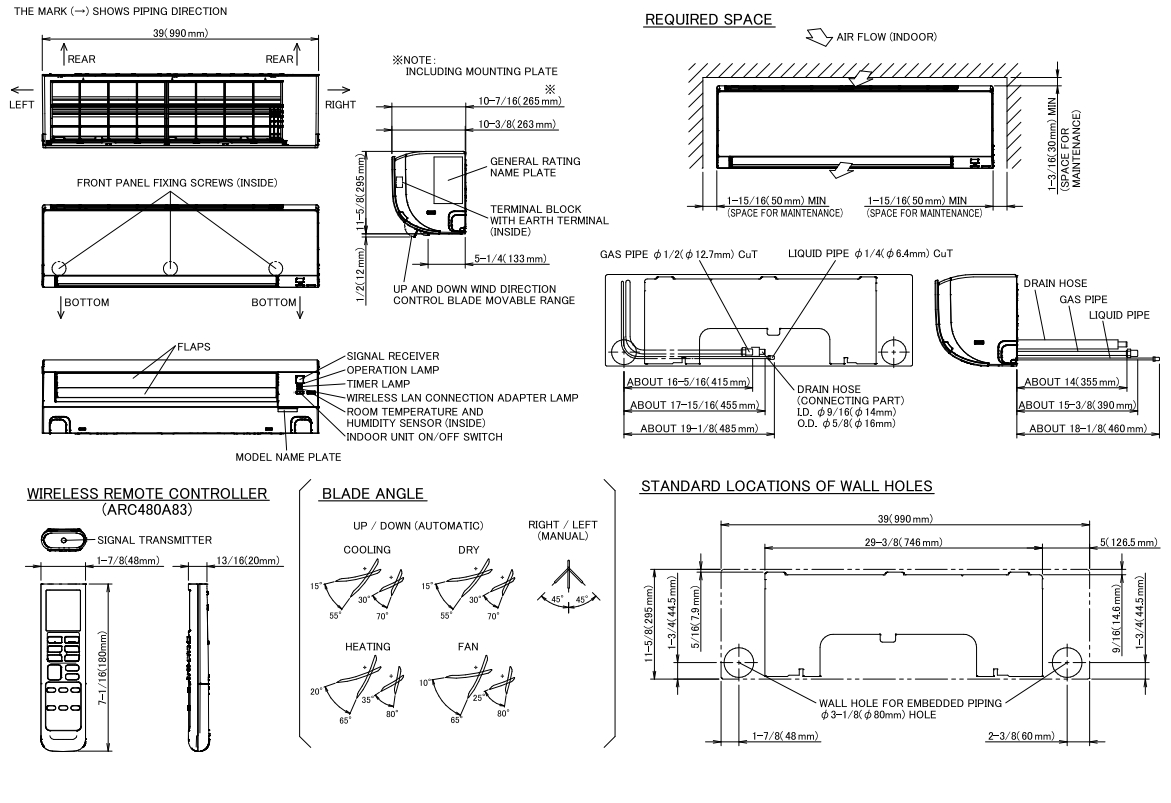
4.1 Indoor unit

CTXV07AVJU9, FTXV09/12AVJU9



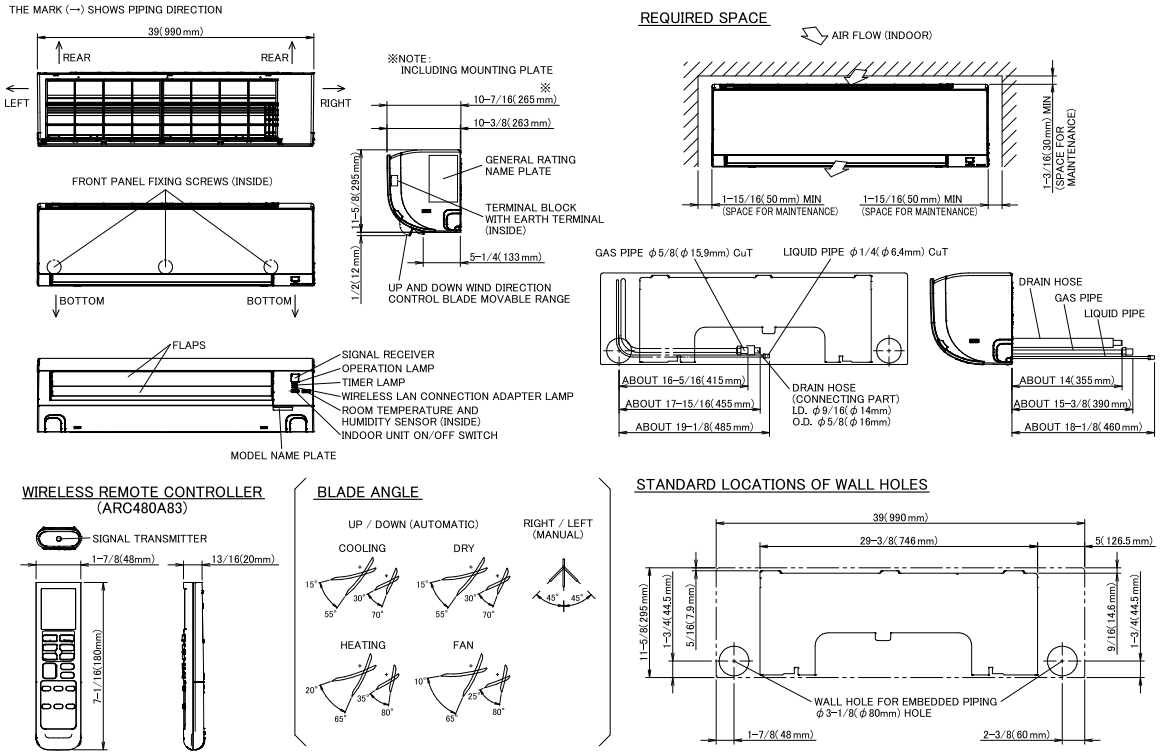
3D150958A

FTXV15/18AVJU9



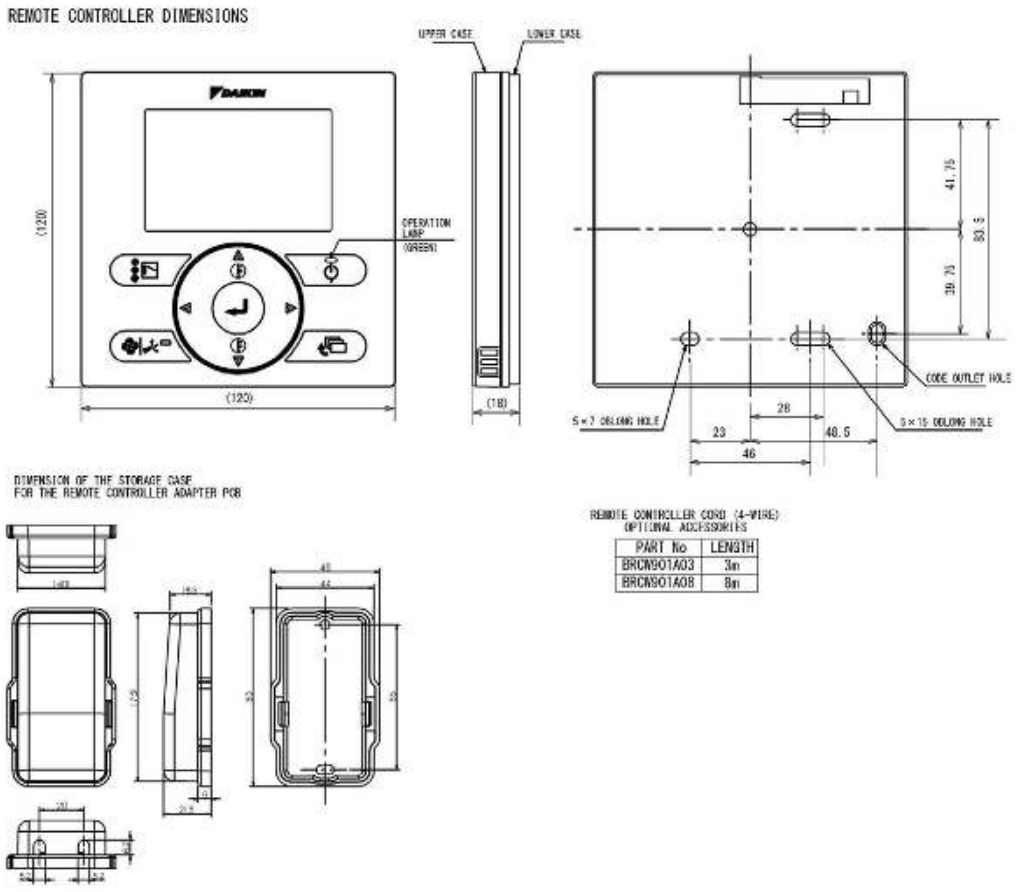
3D150966A

FTXV24AVJU9



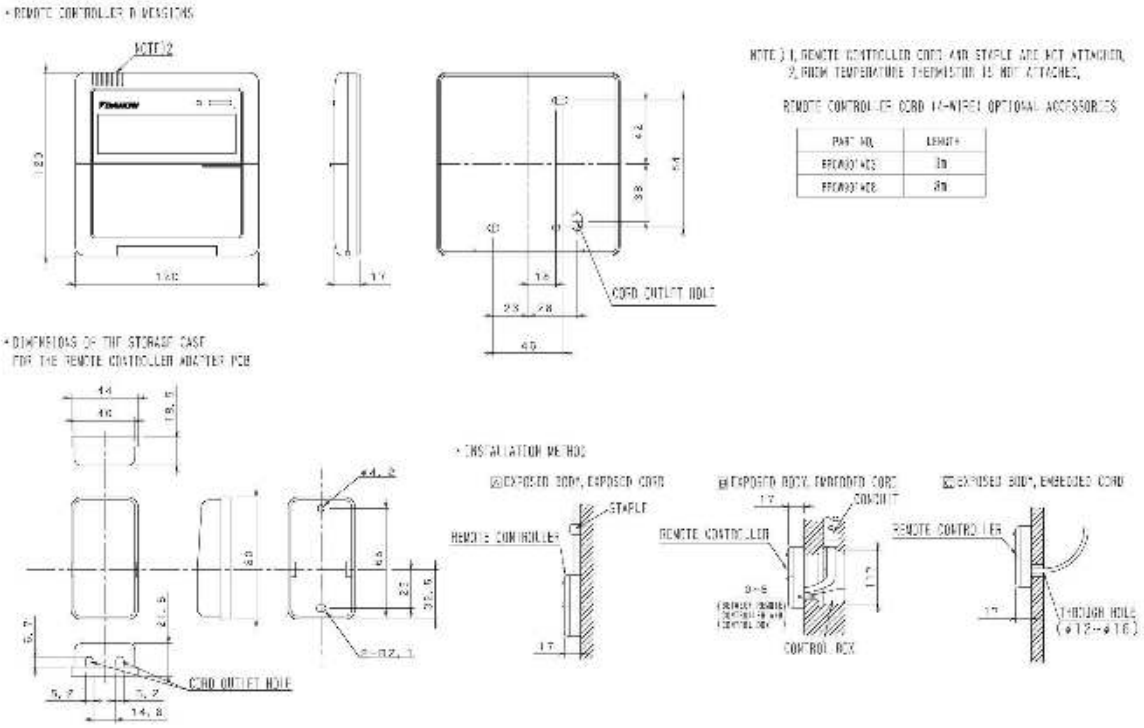
3D150967A

BRC073A6 — Wired Remote Controller (Option) —



3D152615

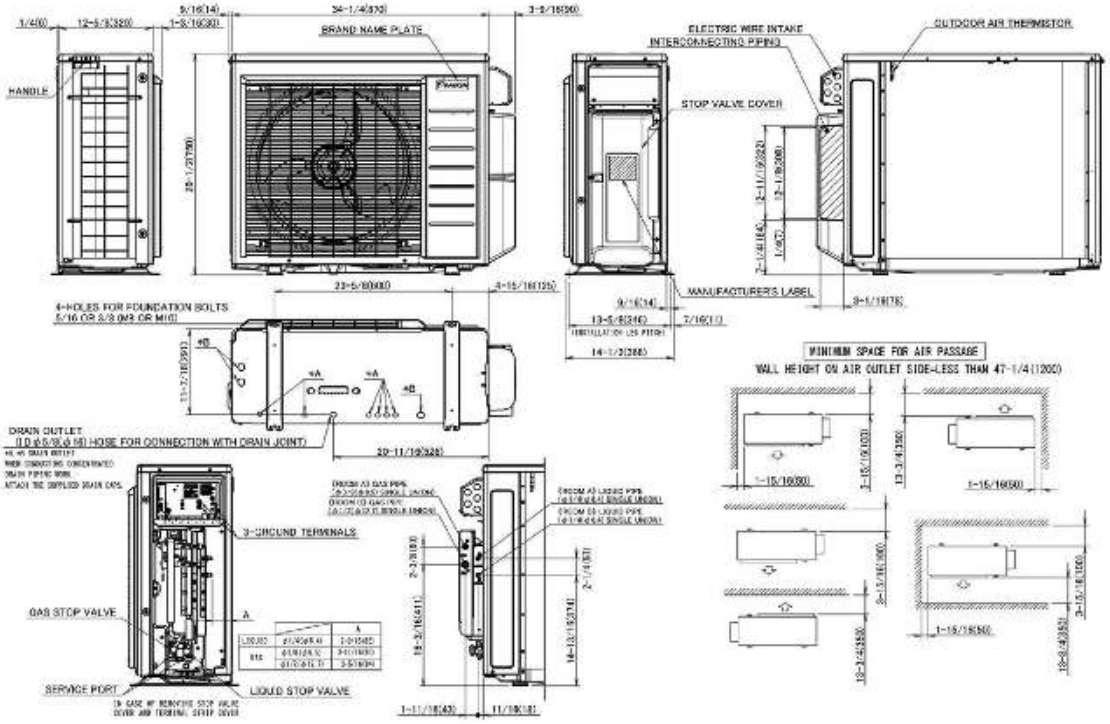
BRC944B2 — Wired Remote Controller (Option) —



3D062374

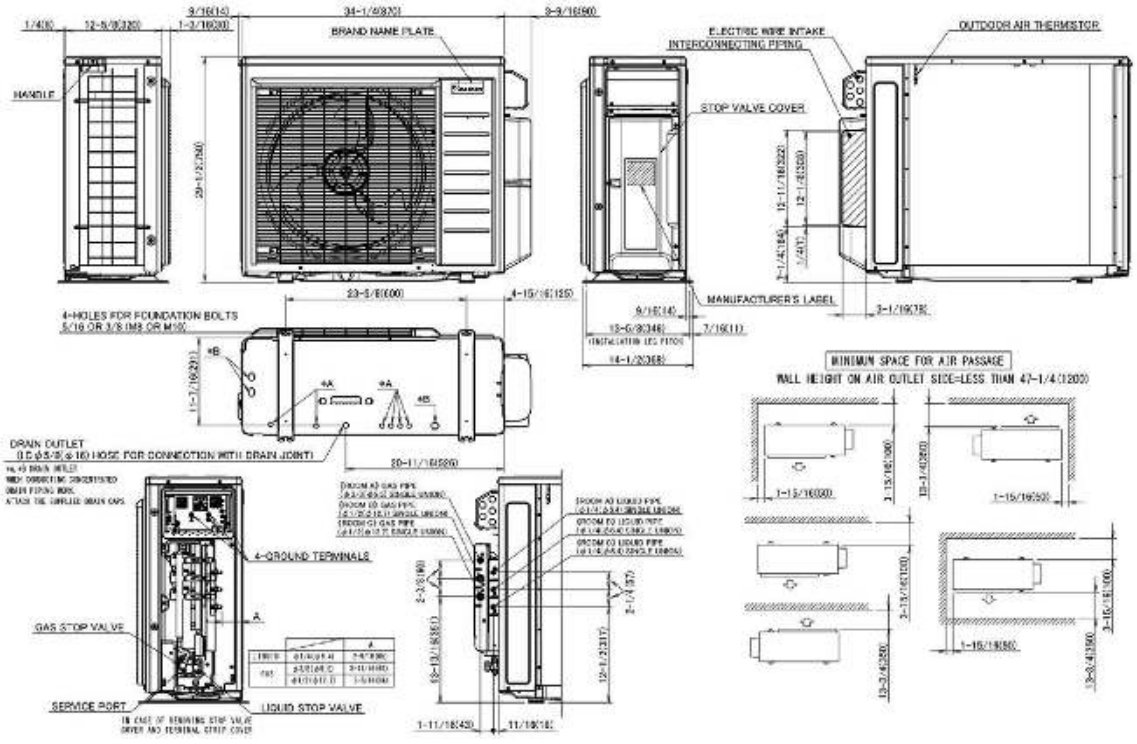
4.2 Outdoor unit

2MXM18AVJU9, 2MXT18AVJU9, 2MXTH18AVJU9



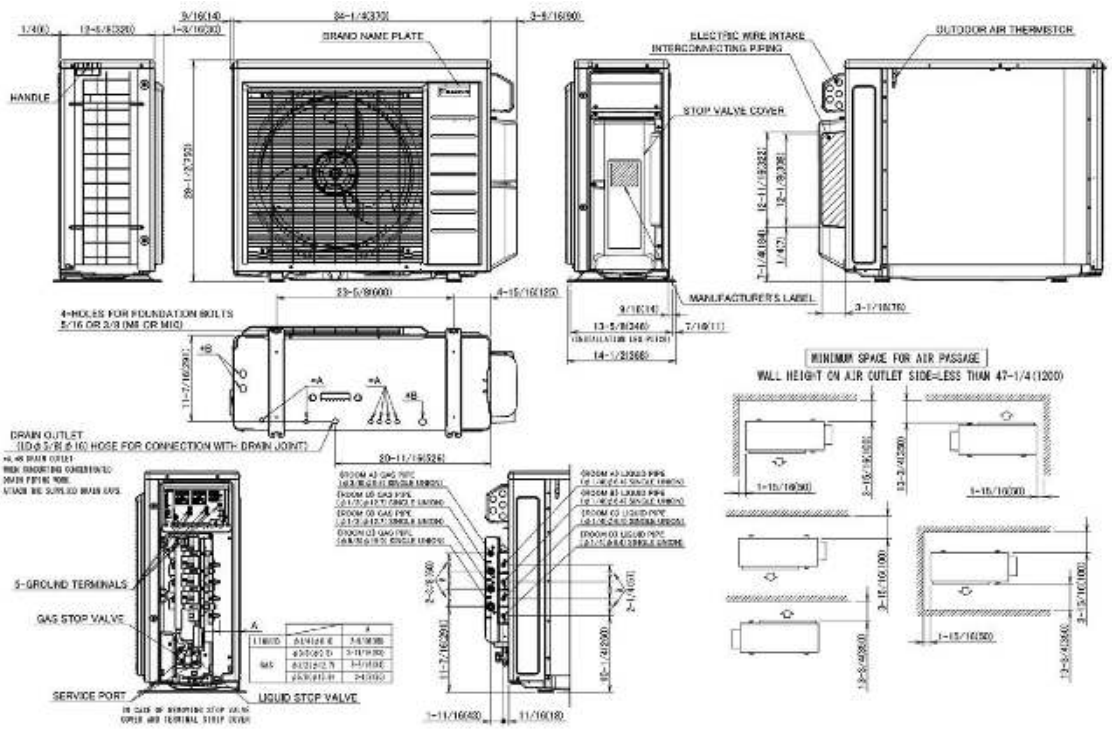
3D149807

3MXM24AVJU9



3D149808

4MXM36AVJU9

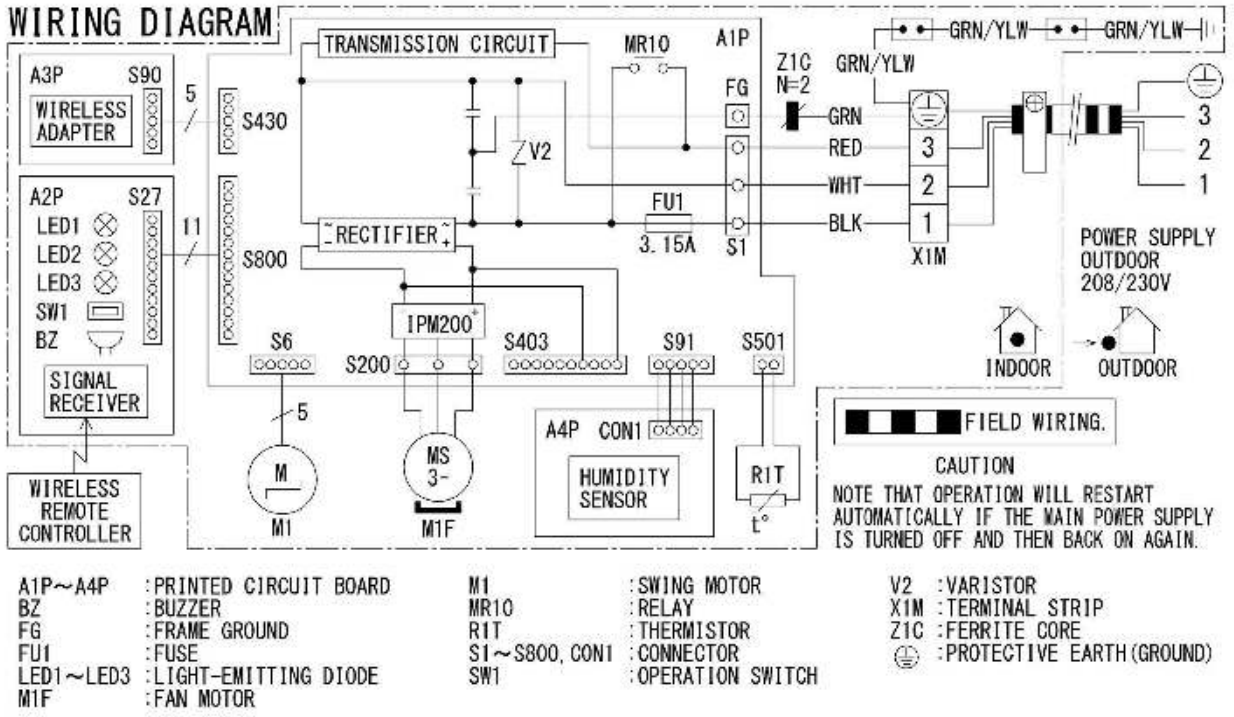


3D149809

5. Wiring Diagram

5.1 Indoor unit

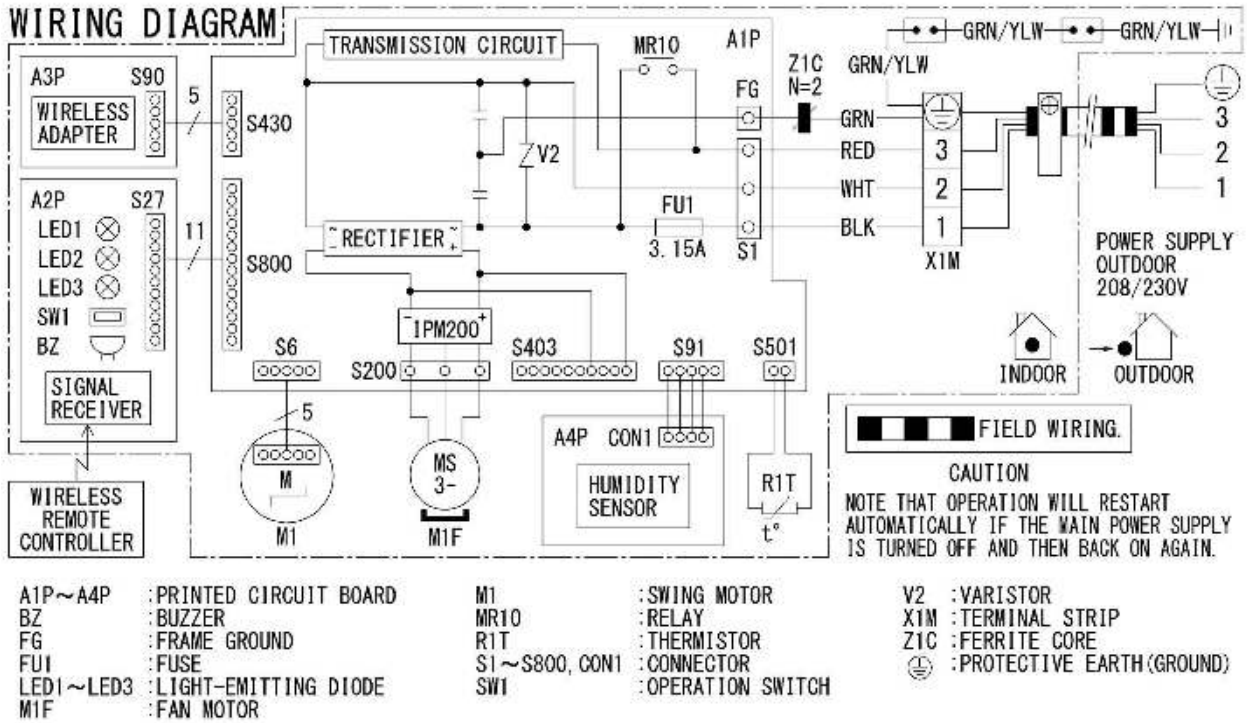
CTXV07AVJU9, FTXV09/12AVJU9



A1P~A4P	:PRINTED CIRCUIT BOARD	M1	:SWING MOTOR	V2	:VARISTOR
BZ	:BUZZER	MR10	:RELAY	X1M	:TERMINAL STRIP
FG	:FRAME GROUND	R1T	:THERMISTOR	Z1C	:FERRITE CORE
FU1	:FUSE	S1~S800, CON1	:CONNECTOR	⏚	:PROTECTIVE EARTH (GROUND)
LED1~LED3	:LIGHT-EMITTING DIODE	SW1	:OPERATION SWITCH		
M1F	:FAN MOTOR				

3D147521

FTXV15/18/24AVJU9

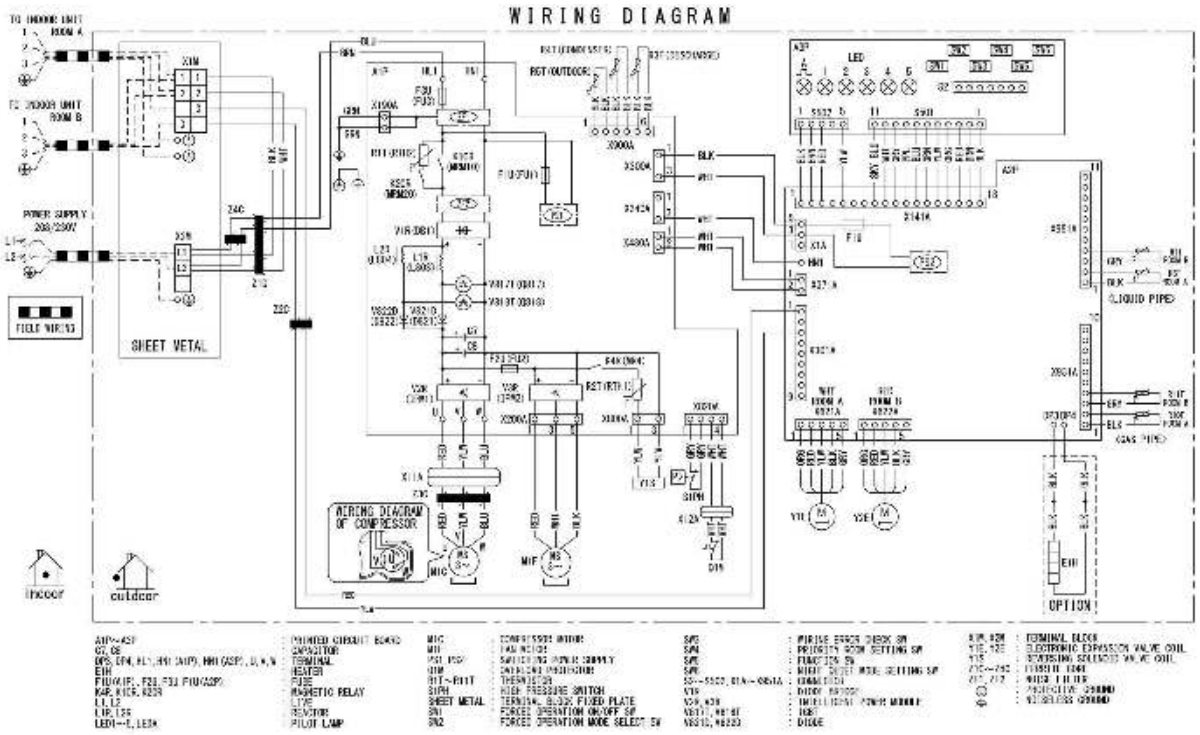


A1P~A4P	:PRINTED CIRCUIT BOARD	M1	:SWING MOTOR	V2	:VARISTOR
BZ	:BUZZER	MR10	:RELAY	X1M	:TERMINAL STRIP
FG	:FRAME GROUND	R1T	:THERMISTOR	Z1C	:FERRITE CORE
FU1	:FUSE	S1~S800, CON1	:CONNECTOR	⏚	:PROTECTIVE EARTH (GROUND)
LED1~LED3	:LIGHT-EMITTING DIODE	SW1	:OPERATION SWITCH		
M1F	:FAN MOTOR				

3D147460A

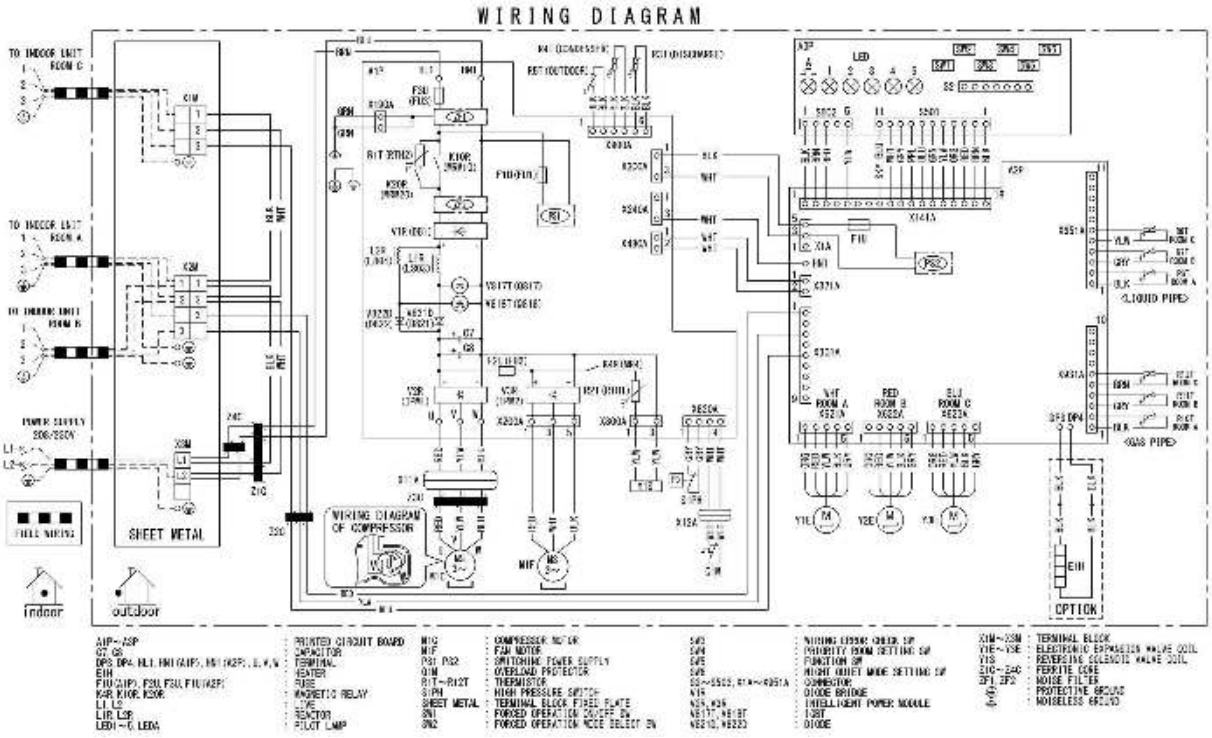
5.2 Outdoor unit

2MXM18AVJU9, 2MXT18AVJU9



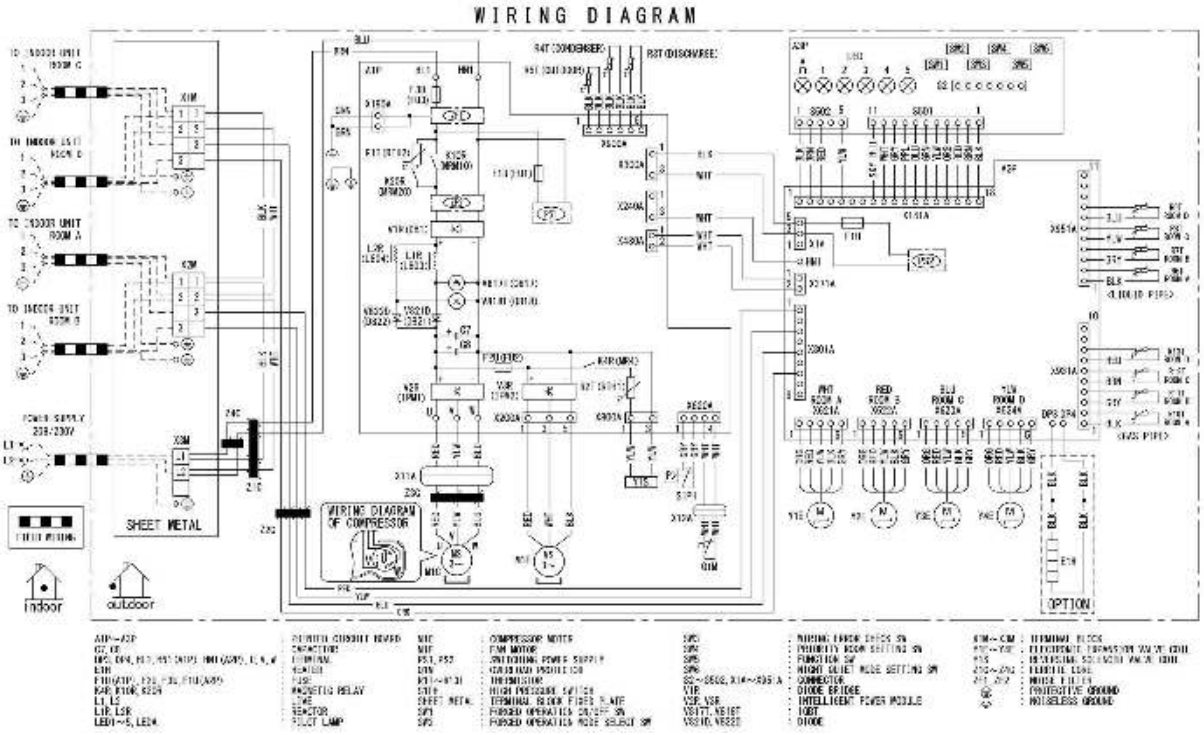
C: 3D149179

3MXM24AVJU9



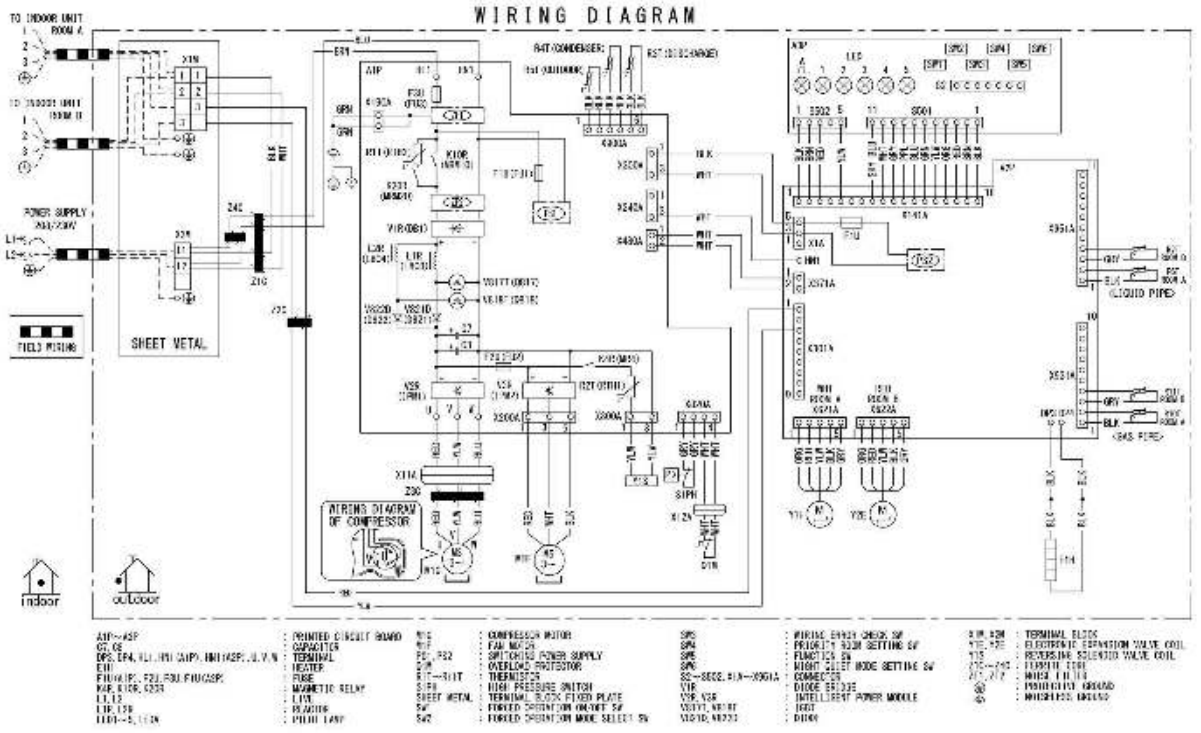
C: 3D149180

4MXM36AVJU9



C: 3D149197

2MXTH18AVJU9

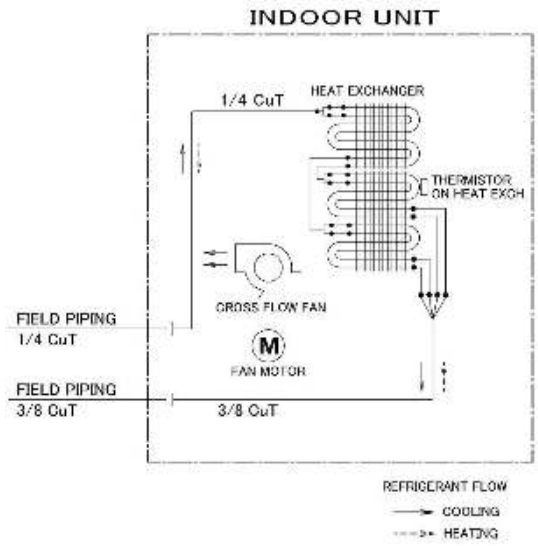


C: 3D149587

6. Piping Diagram

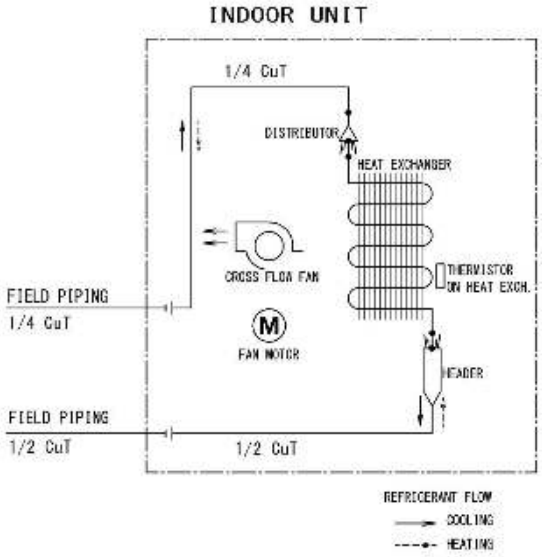
6.1 Indoor unit

CTXV07AVJU9, FTXV09/12AVJU9



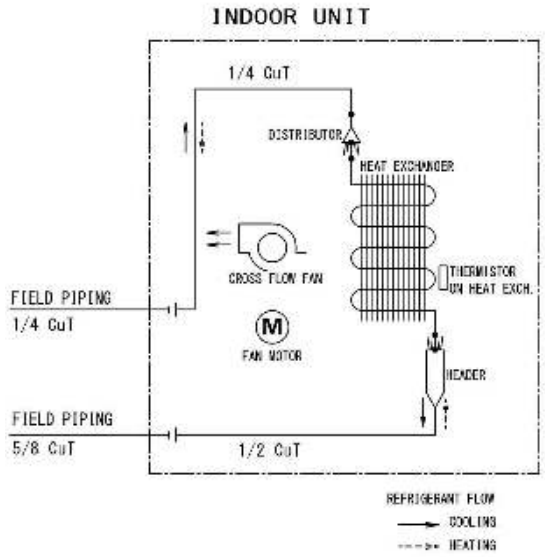
4D150950

FTXV15/18AVJU9



4D091769E

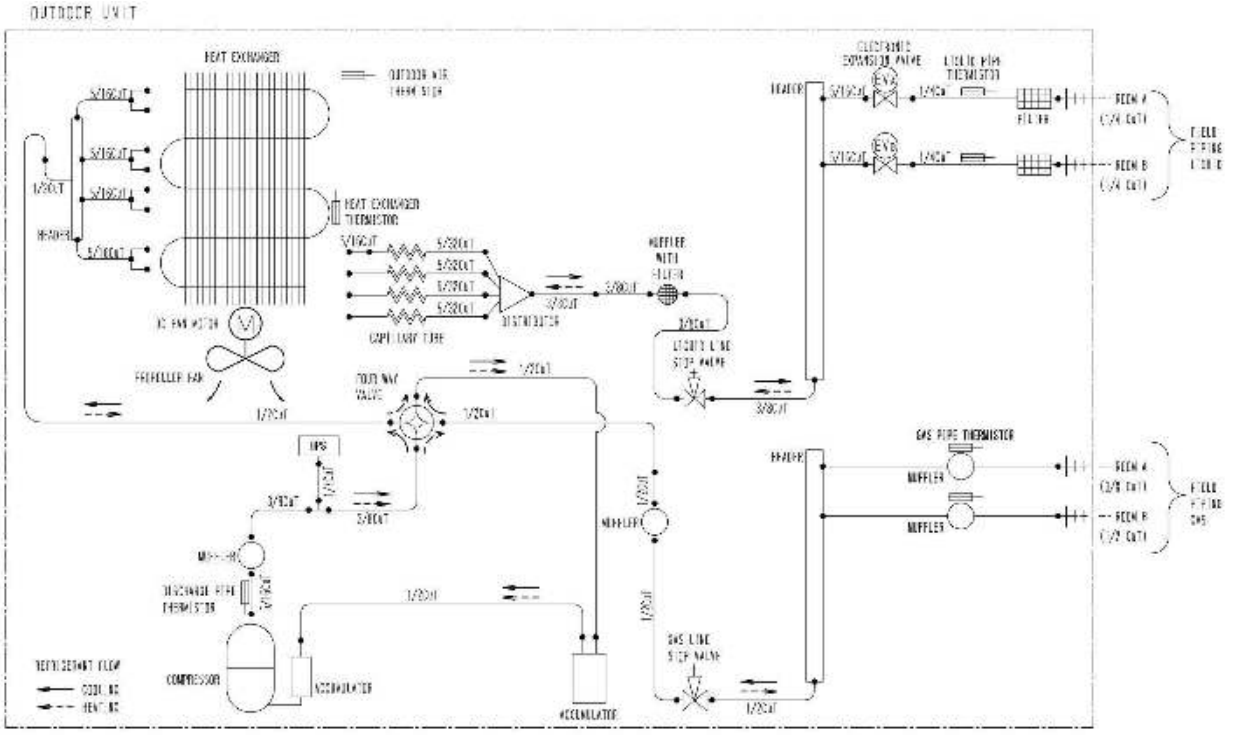
FTXV24AVJU9



4D091768C

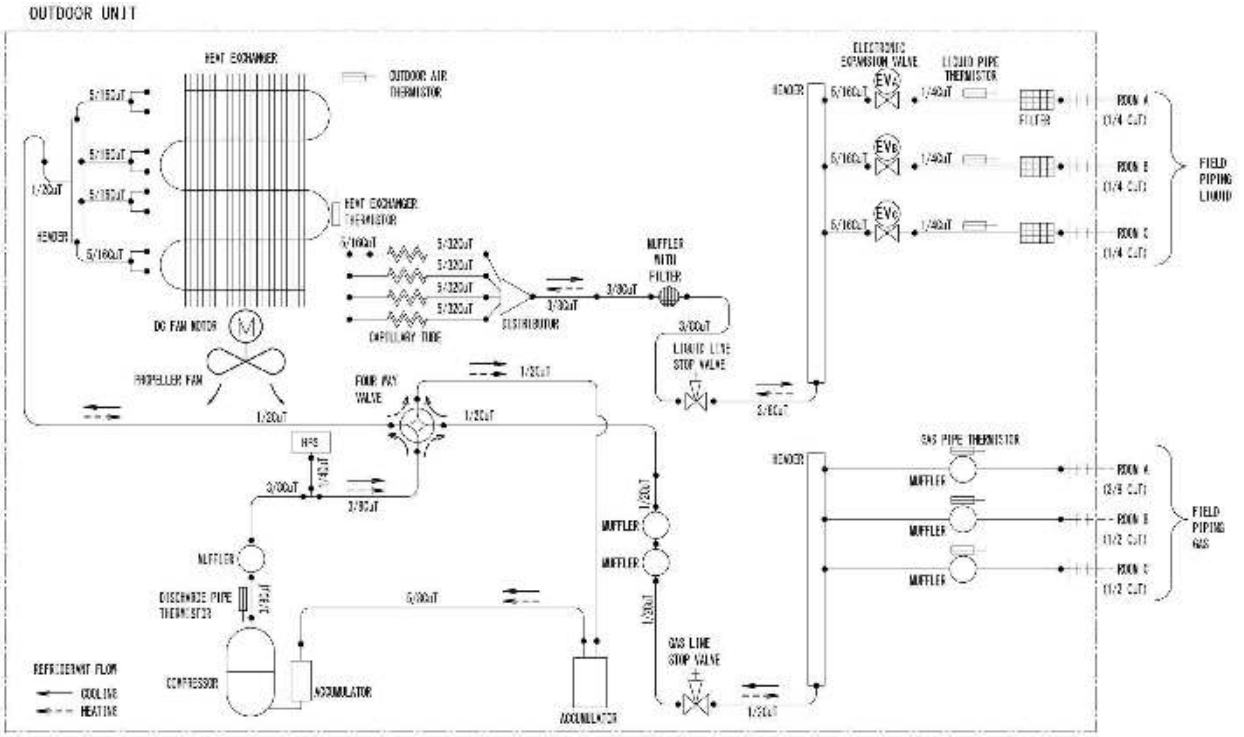
6.2 Outdoor unit

2MXM18AVJU9



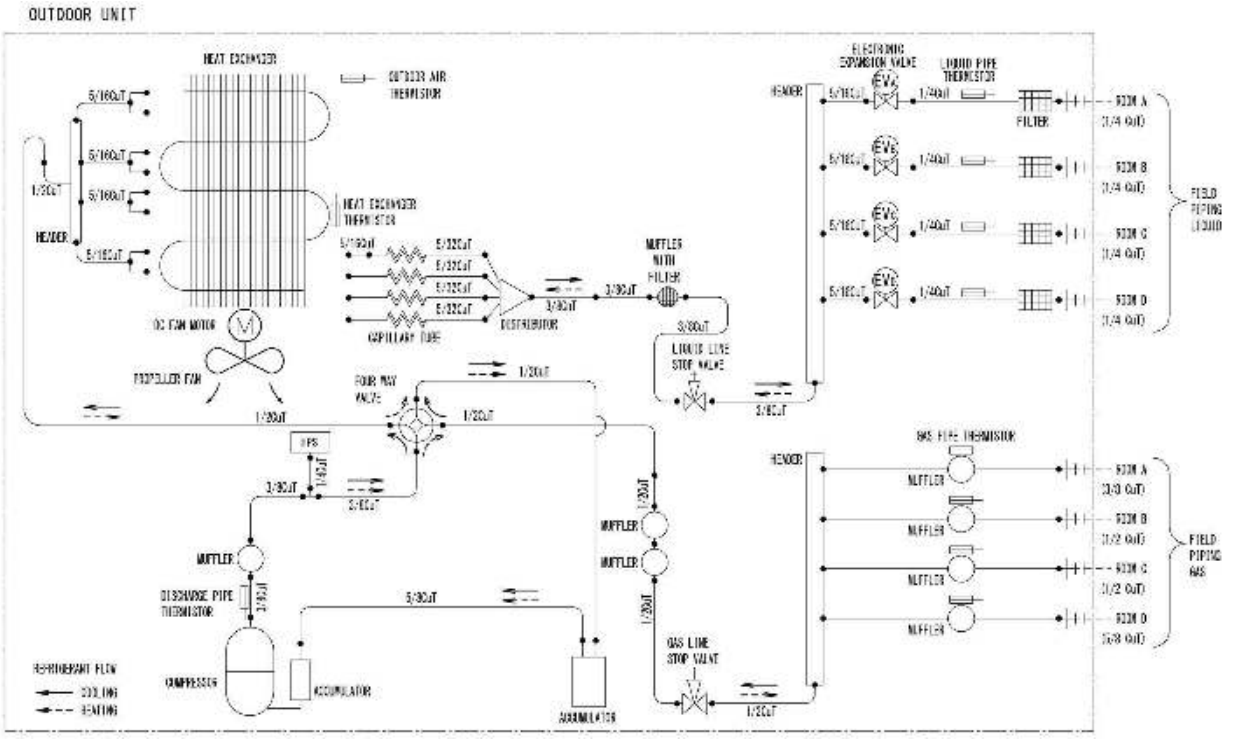
3D149796

3MXM24AVJU9



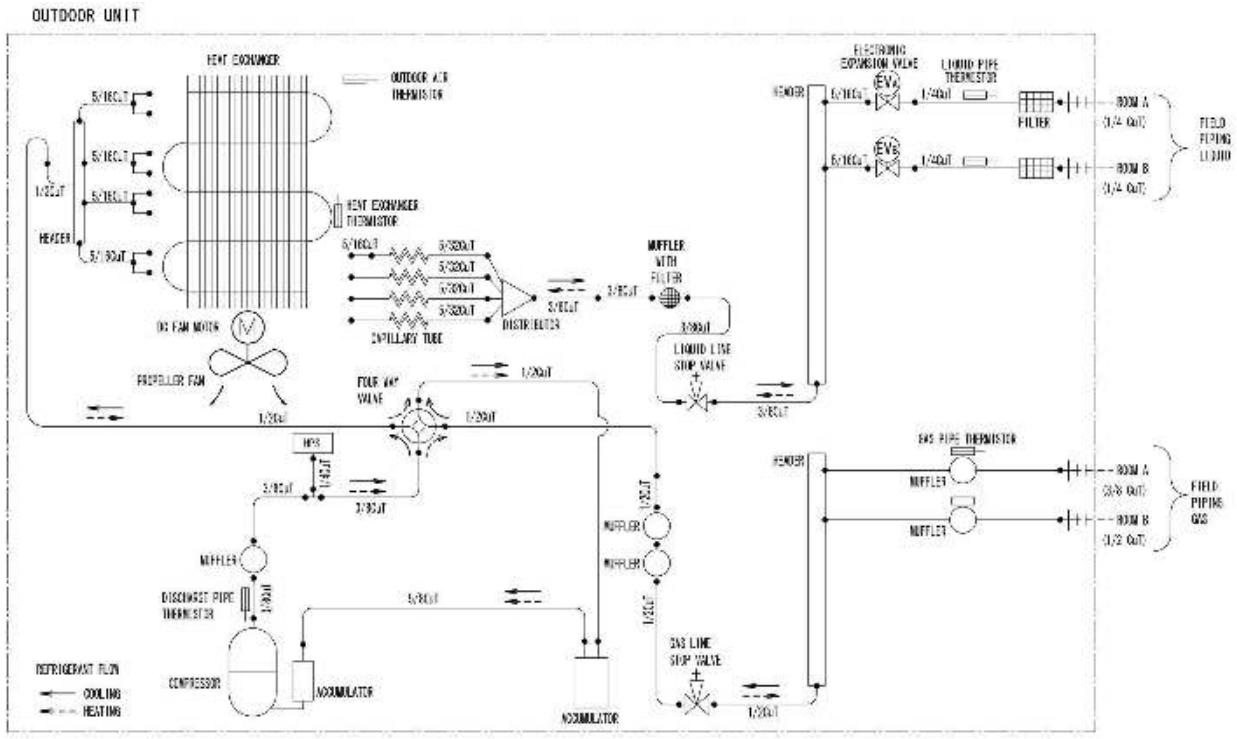
3D149798

4MXM36AVJU9



3D149799

2MXT18AVJU9, 2MXTH18AVJU9



3D149797

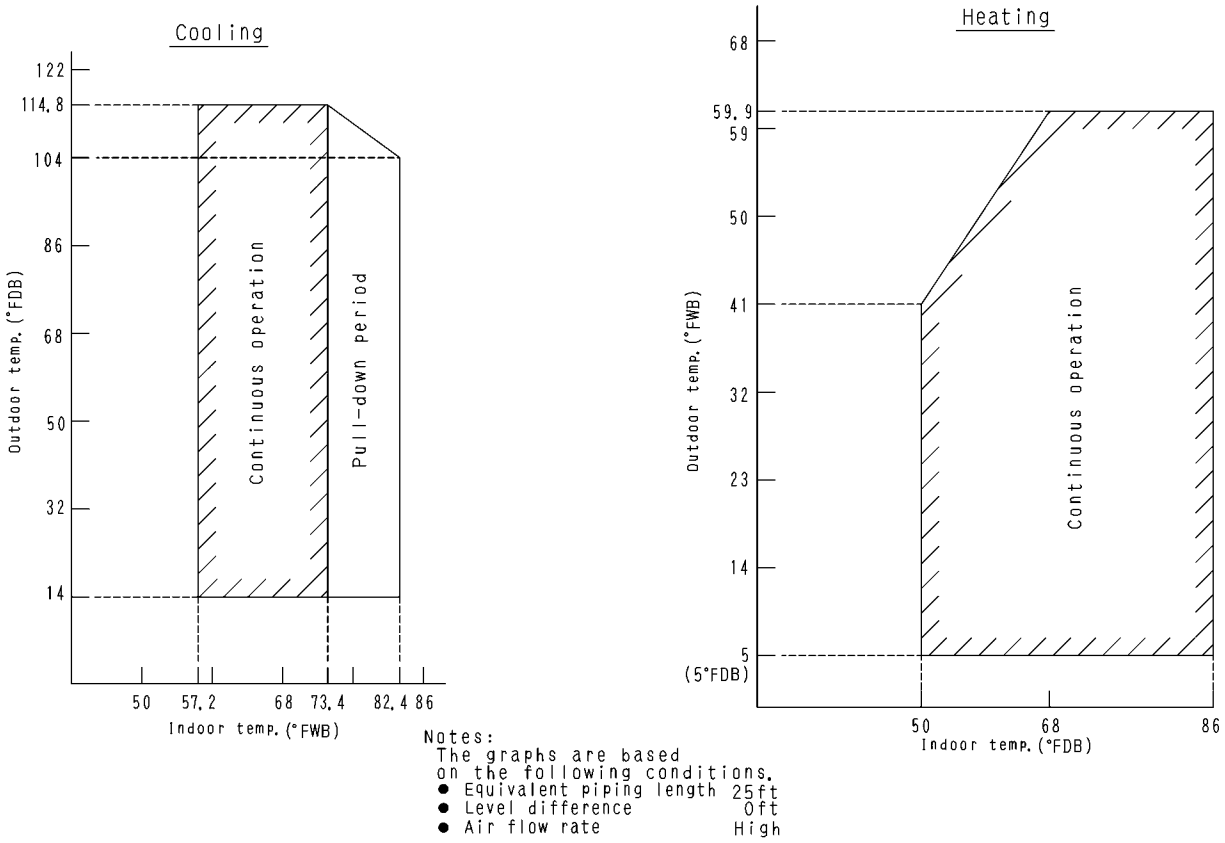
7. Capacity Table

Refer to Engineering Data books below for the Combination Capacity.

Type	Model Name	Reference
Standard type	2MXM18AVJU9 3MXM24AVJU9 4MXM36AVJU9	EDUS122403
Cold climate type	2MXT18AVJU9 2MXTH18AVJU9	EDUS122404

8. Operation Limit

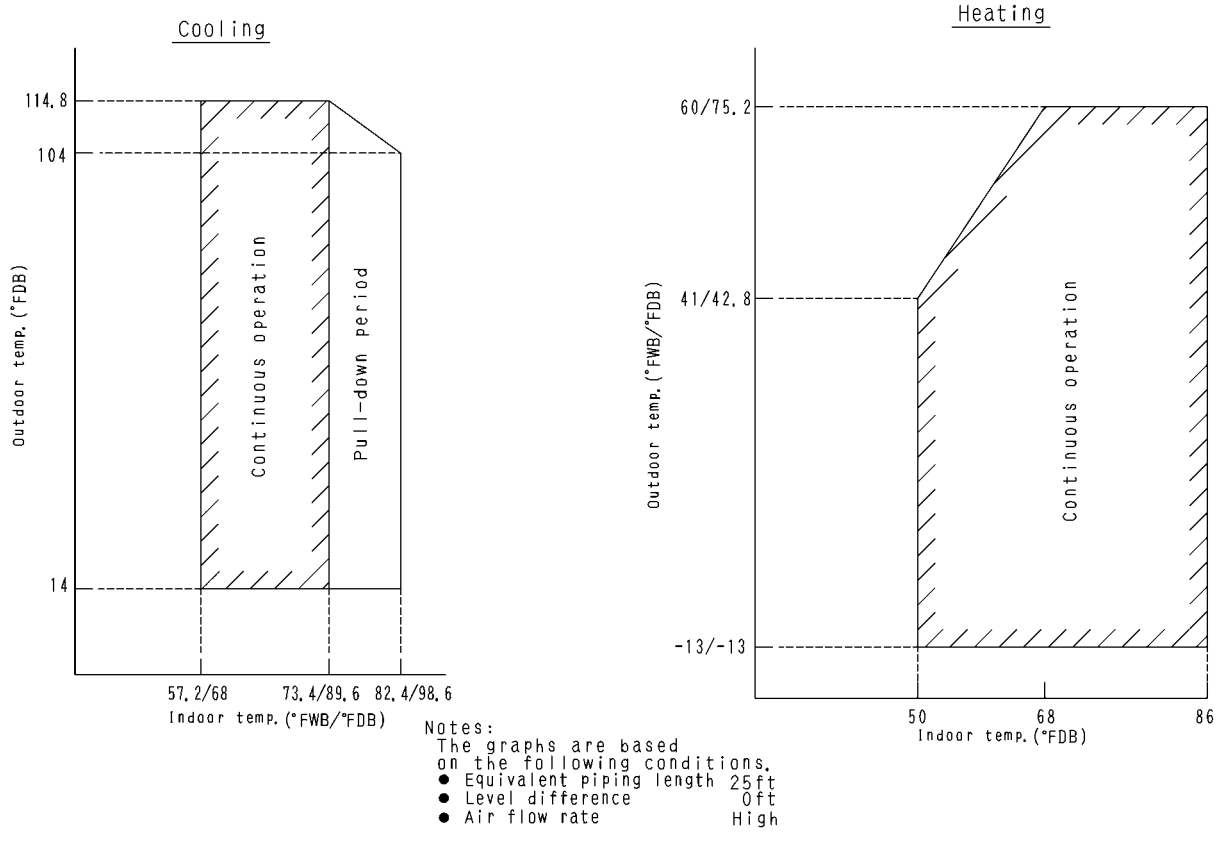
2MXM18AVJU9, 3MXM24AVJU9, 4MXM36AVJU9



Notes:
The graphs are based on the following conditions.
- Equivalent piping length 25ft
- Level difference 0ft
- Air flow rate High

3D048149D

2MXT18AVJU9, 2MXTH18AVJU9

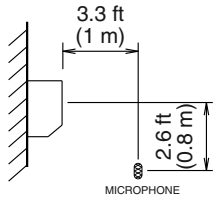
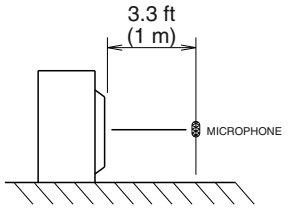


Notes:
The graphs are based on the following conditions.
- Equivalent piping length 25ft
- Level difference 0ft
- Air flow rate High

3D101428B

9. Sound Level

9.1 Measuring Location

Indoor Unit	Outdoor Unit *2
	

Notes: 1. Operation sound is measured in an anechoic chamber.

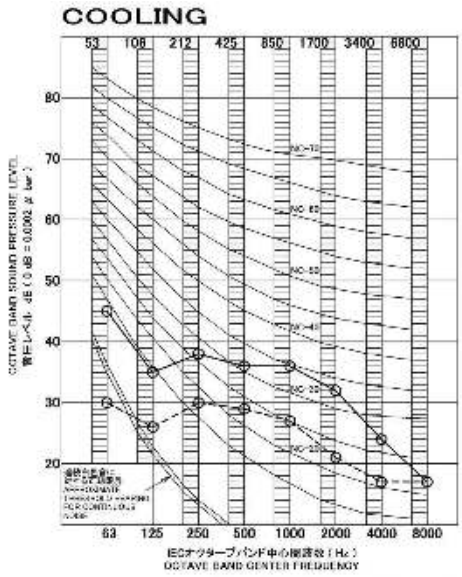
2. The operation sound measuring method is based on JIS standard.

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

Cooling	Heating
Indoor ; 80°FDB (26.7°CDB) / 67°FWB (19.4°CWB) Outdoor ; 95°FDB (35°CDB) / 75°FWB (23.9°CWB)	Indoor ; 70°FDB (21.1°CDB) / 60°FWB (15.6°CWB) Outdoor ; 47°FDB (8.3°CDB) / 43°FWB (6.1°CWB)

9.2 Indoor unit

CTXV07AVJU9



オーバーオール (dB) OVER ALL (dB)

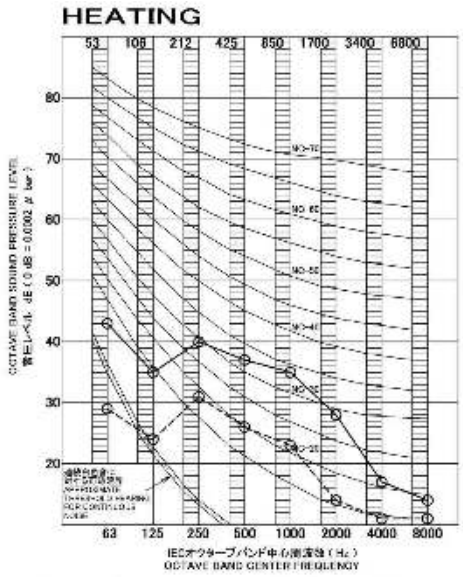
スケール SCALE	60Hz 208/230 V (H)	60Hz 208/230 V (L)
A	40	31

(BGN IS ALREADY RECTIFIED)

運転条件 OPERATING CONDITIONS

電源 POWER SOURCE	208/230V 60Hz
JIS標準	
○——○	60Hz 208/230V (H)
○- - -○	60Hz 208/230V (L)

Cooling



オーバーオール (dB) OVER ALL (dB)

スケール SCALE	60Hz 208/230 V (H)	60Hz 208/230 V (L)
A	39	28

(BGN IS ALREADY RECTIFIED)

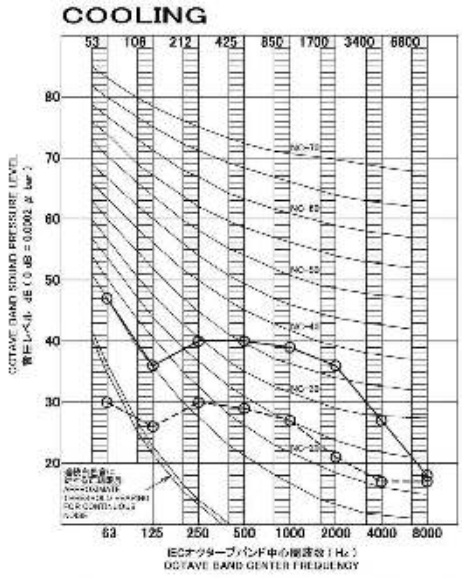
運転条件 OPERATING CONDITIONS

電源 POWER SOURCE	208/230V 60Hz
JIS標準	
○——○	60Hz 208/230V (H)
○- - -○	60Hz 208/230V (L)

Heating

3D153119

FTXV09AVJU9



オーバーオール (dB) OVER ALL (dB)

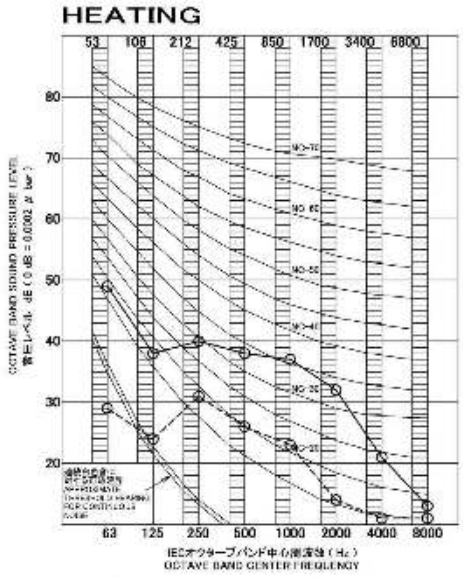
スケール SCALE	60Hz 208/230 V (H)	60Hz 208/230 V (L)
A	43	31

(BGN IS ALREADY RECTIFIED)

運転条件 OPERATING CONDITIONS

電源 POWER SOURCE	208/230V 60Hz
JIS標準	
○——○	60Hz 208/230V (H)
○- - -○	60Hz 208/230V (L)

Cooling



オーバーオール (dB) OVER ALL (dB)

スケール SCALE	60Hz 208/230 V (H)	60Hz 208/230 V (L)
A	41	28

(BGN IS ALREADY RECTIFIED)

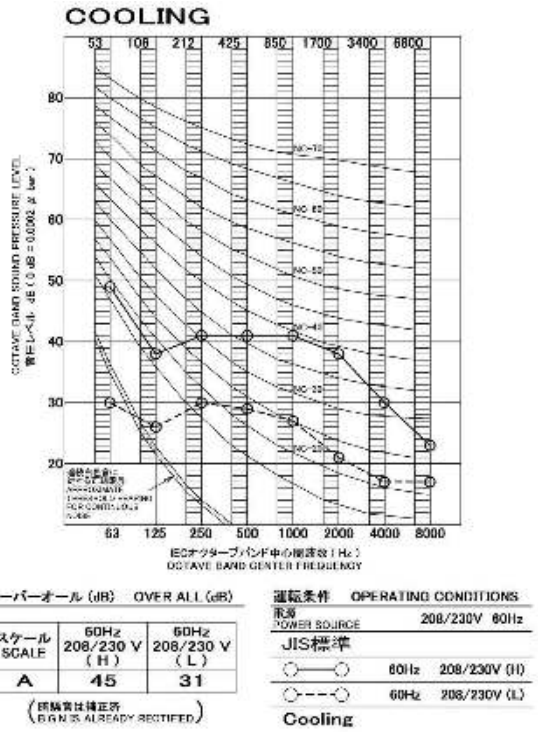
運転条件 OPERATING CONDITIONS

電源 POWER SOURCE	208/230V 60Hz
JIS標準	
○——○	60Hz 208/230V (H)
○- - -○	60Hz 208/230V (L)

Heating

3D153120

FTXV12AVJU9



オーバーオール (dB) OVER ALL (dB)

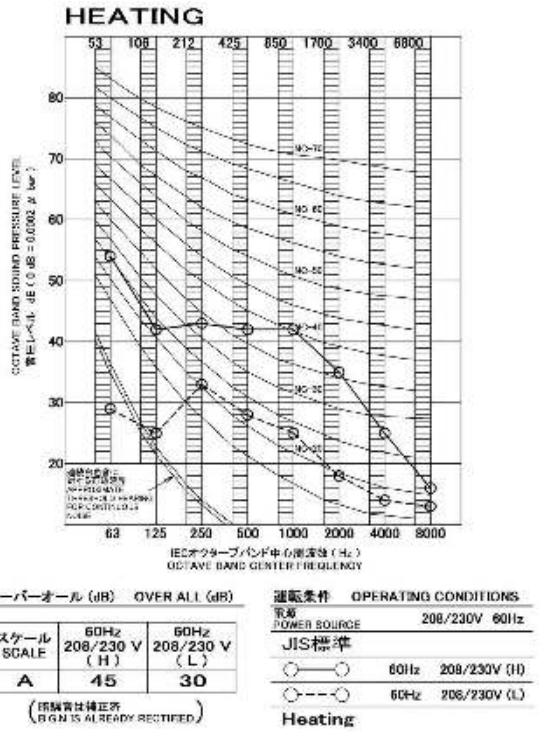
スケール SCALE	60Hz 208/230 V (H)	60Hz 208/230 V (L)
A	45	31

(B.G.N IS ALREADY RECTIFIED)

運転条件 OPERATING CONDITIONS

電源 POWER SOURCE	208/230V 60Hz
JIS標準	
○——○	60Hz 208/230V (H)
○- - -○	60Hz 208/230V (L)

Cooling



オーバーオール (dB) OVER ALL (dB)

スケール SCALE	60Hz 208/230 V (H)	60Hz 208/230 V (L)
A	45	30

(B.G.N IS ALREADY RECTIFIED)

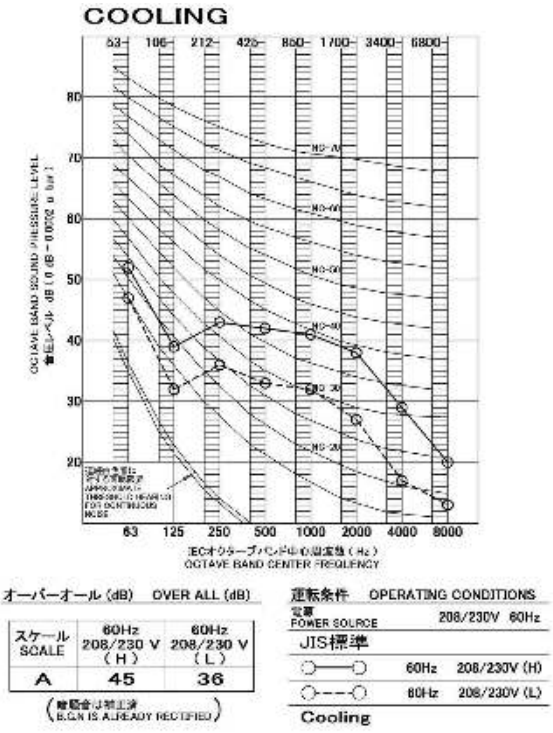
運転条件 OPERATING CONDITIONS

電源 POWER SOURCE	208/230V 60Hz
JIS標準	
○——○	60Hz 208/230V (H)
○- - -○	60Hz 208/230V (L)

Heating

3D153121

FTXV15AVJU9



オーバーオール (dB) OVER ALL (dB)

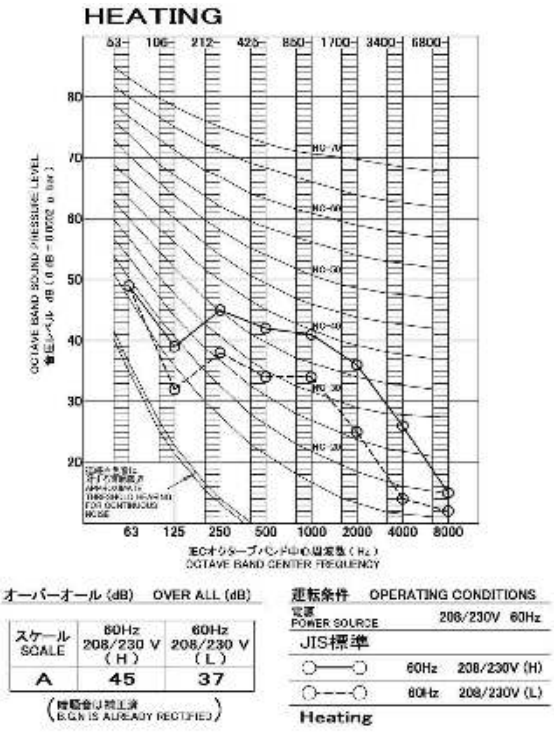
スケール SCALE	60Hz 208/230 V (H)	60Hz 208/230 V (L)
A	45	36

(B.G.N IS ALREADY RECTIFIED)

運転条件 OPERATING CONDITIONS

電源 POWER SOURCE	208/230V 60Hz
JIS標準	
○——○	60Hz 208/230V (H)
○- - -○	60Hz 208/230V (L)

Cooling



オーバーオール (dB) OVER ALL (dB)

スケール SCALE	60Hz 208/230 V (H)	60Hz 208/230 V (L)
A	45	37

(B.G.N IS ALREADY RECTIFIED)

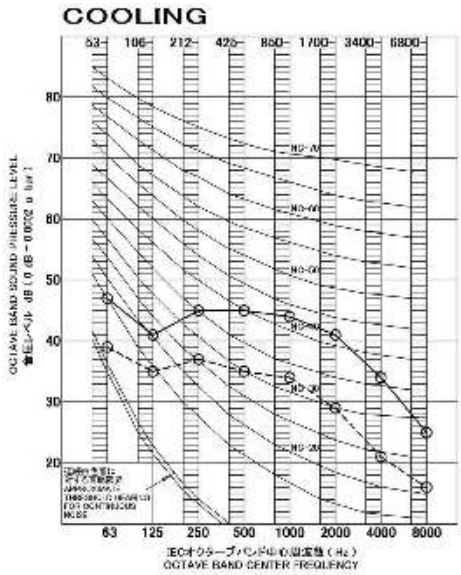
運転条件 OPERATING CONDITIONS

電源 POWER SOURCE	208/230V 60Hz
JIS標準	
○——○	60Hz 208/230V (H)
○- - -○	60Hz 208/230V (L)

Heating

3D151900

FTXV18AVJU9



オーバーオール (dB) OVER ALL (dB)

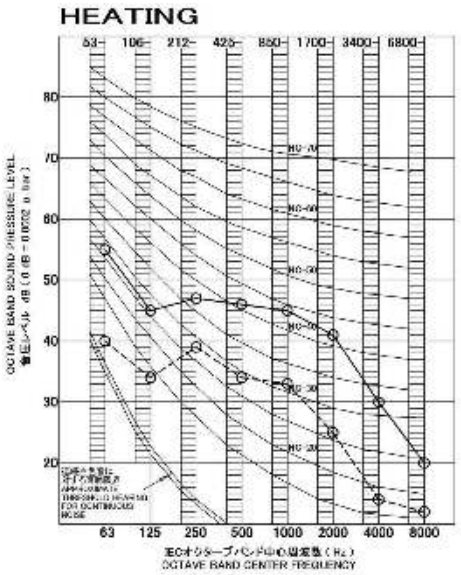
スケール SCALE	60Hz 208/230 V (H)	60Hz 208/230 V (L)
A	48	38

(整流後は既に整流済 B.G.N IS ALREADY RECTIFIED)

運転条件 OPERATING CONDITIONS

電源 POWER SOURCE	208/230V 60Hz
JIS標準	
○——○	60Hz 208/230V (H)
○- - -○	60Hz 208/230V (L)

Cooling



オーバーオール (dB) OVER ALL (dB)

スケール SCALE	60Hz 208/230 V (H)	60Hz 208/230 V (L)
A	49	37

(整流後は既に整流済 B.G.N IS ALREADY RECTIFIED)

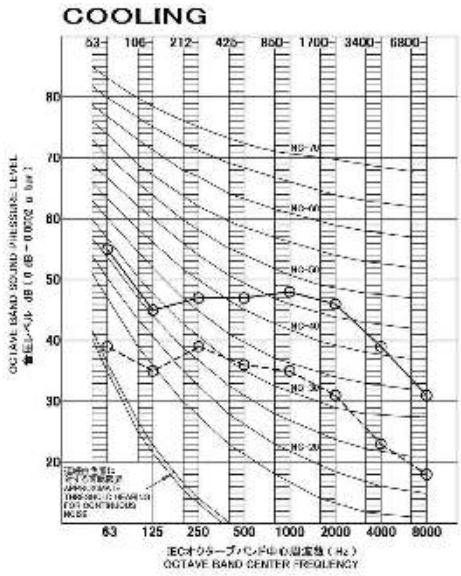
運転条件 OPERATING CONDITIONS

電源 POWER SOURCE	208/230V 60Hz
JIS標準	
○——○	60Hz 208/230V (H)
○- - -○	60Hz 208/230V (L)

Heating

3D151901

FTXV24AVJU9



オーバーオール (dB) OVER ALL (dB)

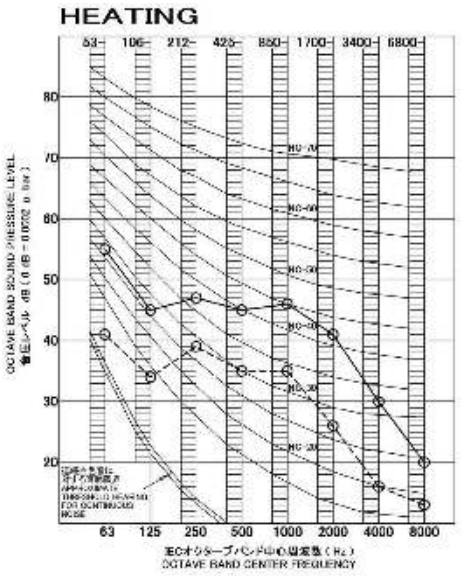
スケール SCALE	60Hz 208/230 V (H)	60Hz 208/230 V (L)
A	52	39

(整流後は既に整流済 B.G.N IS ALREADY RECTIFIED)

運転条件 OPERATING CONDITIONS

電源 POWER SOURCE	208/230V 60Hz
JIS標準	
○——○	60Hz 208/230V (H)
○- - -○	60Hz 208/230V (L)

Cooling



オーバーオール (dB) OVER ALL (dB)

スケール SCALE	60Hz 208/230 V (H)	60Hz 208/230 V (L)
A	49	38

(整流後は既に整流済 B.G.N IS ALREADY RECTIFIED)

運転条件 OPERATING CONDITIONS

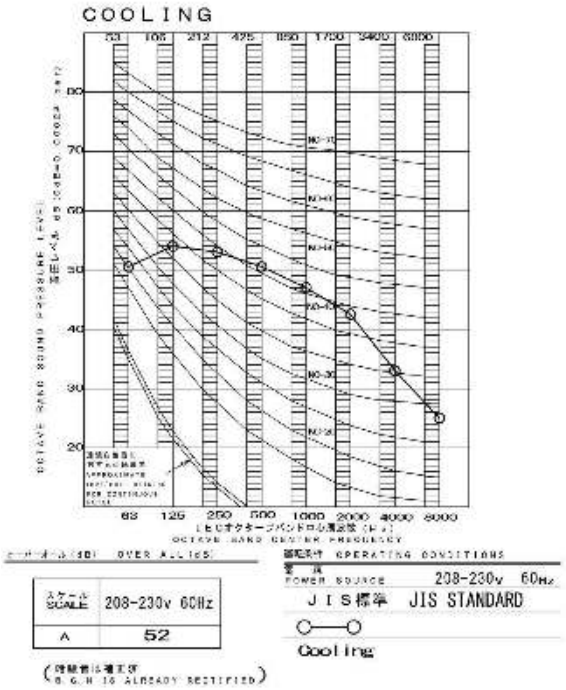
電源 POWER SOURCE	208/230V 60Hz
JIS標準	
○——○	60Hz 208/230V (H)
○- - -○	60Hz 208/230V (L)

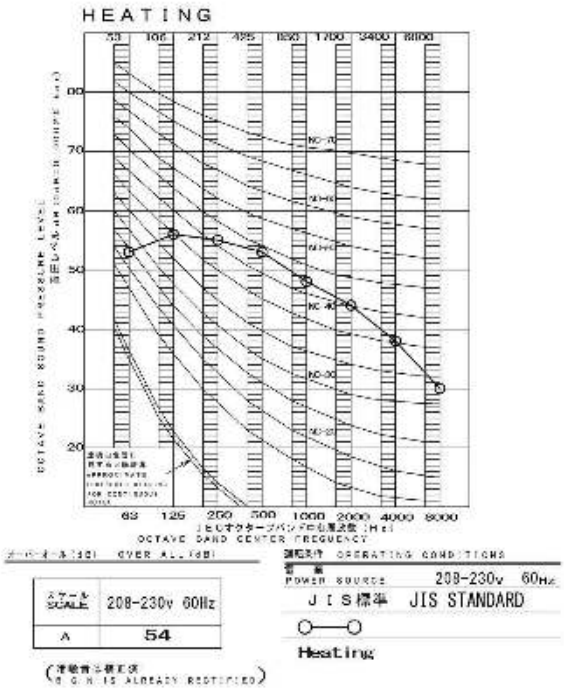
Heating

3D151902

9.3 Outdoor unit

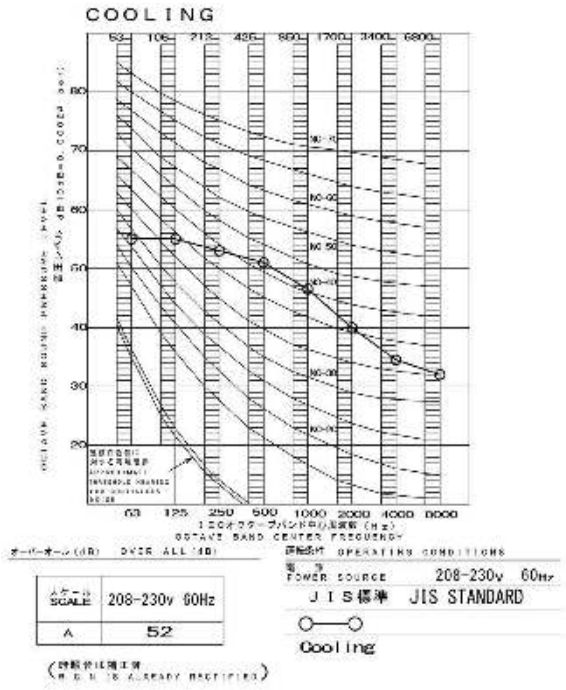
2MXM18AVJU9

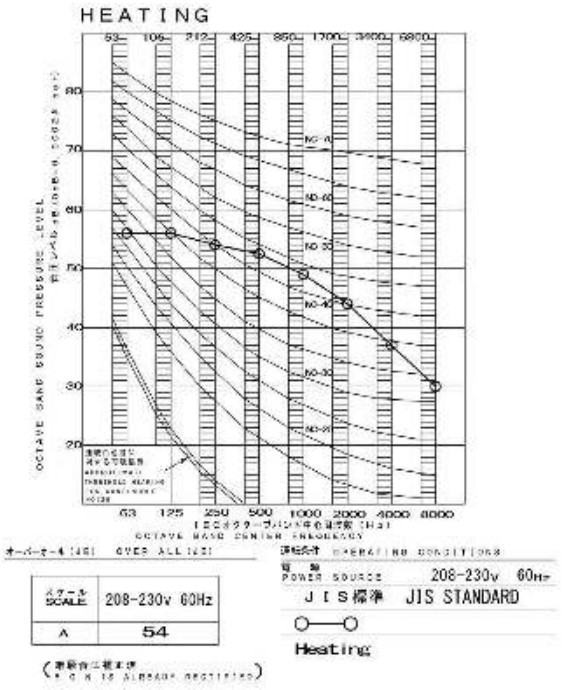




3D151393

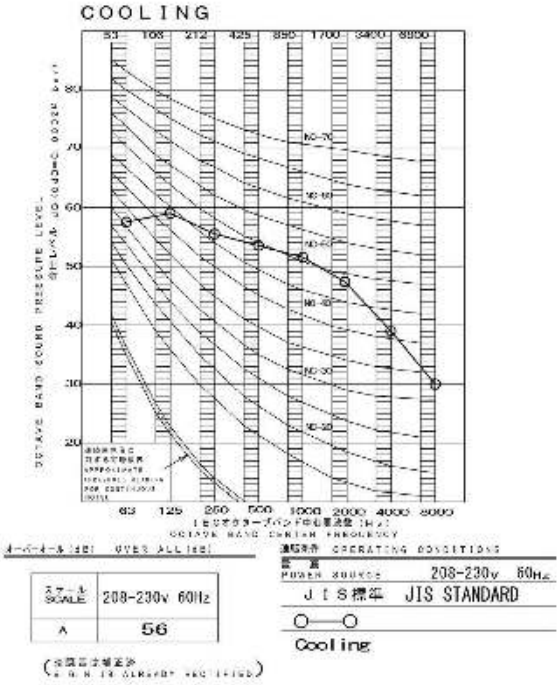
3MXM24AVJU9, 2MXT18AVJU9, 2MXTH18AVJU9

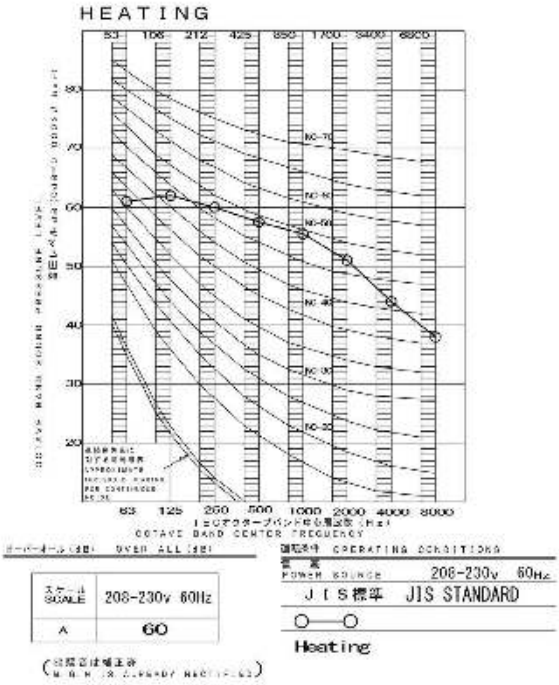




3D151394

4MXM36AVJU9





3D151395

10. Electric Characteristics

Model		Power Supply				Fan/compressor
		Hz - Volts	Voltage Range	MCA	MOP	Inverter drive input
MXM Series	2MXM18AVJU9	60 Hz - 208 V 60 Hz - 230 V	Max. 60 Hz, 253 V Min. 60 Hz, 187 V	15.6	20.0	13.7
	3MXM24AVJU9	60 Hz - 208 V 60 Hz - 230 V	Max. 60 Hz, 253 V Min. 60 Hz, 187 V	19.9	25.0	17.4
	4MXM36AVJU9	60 Hz - 208 V 60 Hz - 230 V	Max. 60 Hz, 253 V Min. 60 Hz, 187 V	24.1	25.0	20.8
MXT Series	2MXT18AVJU9	60 Hz - 208 V 60 Hz - 230 V	Max. 60 Hz, 253 V Min. 60 Hz, 187 V	18.7	20.0	14.2
MXTH Series	2MXTH18AVJU9	60 Hz - 208 V 60 Hz - 230 V	Max. 60 Hz, 253 V Min. 60 Hz, 187 V	19.6	20.0	14.2

C: 3D151489

Symbols:

MCA : Min. circuit ampacity (A)

MOP : Max. overcurrent protective device (A)

Notes:

1. Inverter drive input is the current value specified in Annex 101.DVA.
2. Maximum allowable voltage variation between phases is 2%.
3. Select wire size based on the larger value of MCA.
4. Instead of fuse, use circuit breaker.
5. Be sure to install a ground leak detector.
   (This unit uses an inverter, which means that an earth leak detector capable of handling high harmonics must be used in order to prevent malfunctioning of the ground leak detector.)

Part 2 Installation Manual

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1. Indoor Unit

1.1 CTXV07, FTXV09/12

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1. Trial operation and testing 14
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The pictures in this document are for illustrative purposes only.

Safety Considerations

Refer also to the General Safety Considerations in the separate booklet.

	**Read the precautions in this manual carefully before operating the unit.**
	**This appliance is filled with R32.**

Read these **Safety Considerations for Installation** carefully before installing an air conditioner or heat pump. After completing the installation, make sure that the unit operates properly during the startup operation.
Instruct the user on how to operate and maintain the unit. Inform users that they should store this installation manual with the operation manual for future reference.
Always use a licensed installer or contractor to install this product. Improper installation can result in water or refrigerant leakage, electric shock, fire, or explosion.
Meanings of **DANGER**, **WARNING**, **CAUTION**, and **NOTE** Symbols:

⚠ DANGER ..... Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.

⚠ WARNING ..... Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

⚠ CAUTION ..... Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices.

⚠ NOTE ..... Indicates situations that may result in equipment or property-damage accidents only.

⚠ DANGER

- Refrigerant gas is heavier than air and replaces oxygen. A massive leak can lead to oxygen depletion, especially in basements, and an asphyxiation hazard could occur leading to serious injury or death.
- Do not ground units to water pipes, gas pipes, telephone wires, or lightning rods as incomplete grounding can cause a severe shock hazard resulting in severe injury or death. Additionally, grounding to gas pipes could cause a gas leak and potential explosion causing severe injury or death.
- If refrigerant gas leaks during installation, ventilate the area immediately. Refrigerant gas may produce toxic gas if it comes into contact with fire. Exposure to this gas could cause severe injury or death.
- After completing the installation work, check that the refrigerant gas does not leak throughout the system.
- Do not install unit in an area where flammable materials are present due to risk of explosions that can cause serious injury or death.
- Safely dispose all packing and transportation materials in accordance with federal/state/local laws or ordinances. Packing materials such as nails and other metal or wood parts, including plastic packing materials used for transportation may cause injury or death by suffocation.
- All possible ignition sources, including cigarette smoking, should be kept sufficiently far away from the site of installation, repairing, removing and disposal.

⚠ WARNING

- Only qualified personnel licensed or certified in their jurisdiction must carry out the installation work. Installation must be done in accordance with this installation manual. Improper installation may result in water leakage, electric shock, or fire.
- Pipe-work including piping material, pipe routing, and installation shall include protection from physical damage in operation and service, and be in compliance with national and local codes and standards, such as ASHRAE 15, ASHRAE 15.2, IAPMO Uniform Mechanical Code, ICC International Mechanical Code, or CSA B52. All field joints shall be accessible for inspection prior to being covered or enclosed.
- When installing the unit in a small room, take measures to keep the refrigerant concentration from exceeding allowable safety limits. Excessive refrigerant leaks, in the event of an accident in a closed ambient space, can lead to oxygen deficiency.
- Use only specified accessories and parts for installation work. Failure to use specified parts may result in water leakage, electric shock, fire, or the unit falling.
- Install the air conditioner or heat pump on a foundation strong enough that it can withstand the weight of the unit. A foundation of insufficient strength may result in the unit falling and causing injury.

- Take into account strong winds, typhoons, or earthquakes when installing. Improper installation may result in the unit falling and causing accidents.
- Make sure that a separate power supply circuit is provided for this unit and that all electrical work is carried out by qualified personnel licensed or certified in their jurisdiction according to local, state, and national regulations. An insufficient power supply capacity or improper electrical construction may lead to electric shock or fire.
- Make sure that all wiring is secured, that specified wires are used, and that no external forces act on the terminal connections or wires. Improper connections or installation may result in fire.
- When wiring, position the wires so that the service lid can be securely fastened. Improper positioning of the service lid may result in electric shock, fire, or the terminals overheating.
- Before touching electrical parts, turn off the unit.
- The circuit must be protected with safety devices in accordance with local and national codes, i.e. a circuit breaker.
- Securely fasten the outdoor unit service lid. If the service lid is not installed properly, dust or water may enter the outdoor unit causing fire or electric shock.
- When installing or relocating the system, keep the refrigerant circuit free from substances other than the specified refrigerant (R32) such as air. Any presence of air or other foreign substance in the refrigerant circuit can cause an abnormal pressure rise or rupture, which may result in equipment damage and even injury.
- Do not change the setting of the protection devices. If the pressure switch, thermal switch, or other protection device is shorted and operated forcibly, or parts other than those specified by Daikin are used, fire or explosion may occur.
- Do not use means to accelerate the defrosting process (if possible) or to clean, other than those recommended by the manufacturer.
- The appliance must be stored in a room without continuously operating ignition sources (for example: open flames, an operating gas appliance or an operating electric heater).
- Do not pierce or burn.
- Be aware that refrigerants may not contain an odor.
- Comply with national gas regulations.
- The indoor equipment and pipes shall be securely mounted and guarded such that accidental rupture of equipment cannot occur from such events as moving furniture or reconstruction activities.

⚠ CAUTION

- Do not touch the switch with wet fingers. Touching a switch with wet fingers can cause electric shock.
- Do not allow children to play on or around the unit to prevent injury.
- Wear adequate personal protective equipment (protective gloves, safety glasses,…) when installing, maintaining or servicing the system.
- The heat exchanger fins are sharp enough to cut. To avoid injury, wear gloves or cover the fins while working around them.
- Do not touch the refrigerant pipes during and immediately after operation as the refrigerant pipes may be hot or cold, depending on the condition of the refrigerant flowing through the refrigerant piping, compressor, and other refrigerant cycle parts. Your hands may suffer burns or frostbite if you touch the refrigerant pipes. To avoid injury, give the pipes time to return to normal temperature or, if you must touch them, be sure to wear proper gloves.
- Install drain piping to ensure proper drainage. Improper drain piping may result in water leakage and property damage.
- Insulate piping to prevent condensation.
- Be careful when transporting the product.
- Do not turn off the power immediately after stopping operation. Always wait for at least 5 minutes before turning off the power. Otherwise, water leakage may occur.
- Do not use a charging cylinder. Using a charging cylinder may cause the refrigerant to deteriorate.
- Refrigerant R32 in the system must be kept clean, dry, and tight.

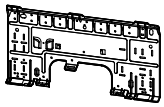
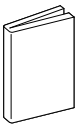
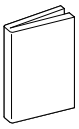
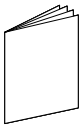
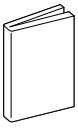
  (a) Clean and Dry -- Foreign materials (including mineral oils such as SUNISO oil or moisture) should be prevented from getting into the system.
  (b) Tight -- R32 does not contain any chlorine, does not destroy the ozone layer, and does not reduce the earth's protection again harmful ultraviolet radiation. R32 can contribute to the greenhouse effect if it is released. Therefore take proper measures to check for the tightness of the refrigerant piping installation. Read the chapter *Refrigerant Piping Work* and follow the procedures.
- The indoor unit is for R32. See the catalog for outdoor models that can be connected. Normal operation is not possible when connected to non-compatible outdoor units.
- Remote controller (wireless kit) transmitting distance can be shorter than expected in rooms with electronic fluorescent lamps (inverter or rapid start types). Install the indoor unit far away from fluorescent lamps as much as possible.
- Indoor units are for indoor installation only. Outdoor units can be installed either outdoors or indoors.
- Do not install the air conditioner or heat pump in the following locations:
  (a) Where a mineral oil mist or oil spray or vapor is produced, for example, in a kitchen.
  Plastic parts may deteriorate and fall off or result in water leakage.
  (b) Where corrosive gas, such as sulfurous acid gas, is produced.
  Corroding copper pipes or soldered parts may result in refrigerant leakage.
  (c) Near machinery emitting electromagnetic waves.
  Electromagnetic waves may disturb the operation of the control system and cause the unit to malfunction.
  (d) Where flammable gas may leak, where there is carbon fiber, or ignitable dust suspension in the air, or where volatile flammables such as thinner or gasoline are handled.
  Operating the unit in such conditions can cause a fire.
- Take adequate measures to prevent the outdoor unit from being used as a shelter by small animals. Small animals making contact with electrical parts can cause malfunctions, smoke, or fire. Instruct the user to keep the area around the unit clean.
- Servicing shall be performed only as recommended by the manufacturer and licensed or certified in their jurisdiction.

⚠ NOTE

- The indoor unit should be positioned where the unit and interunit wires (outdoor to indoor) are at least 3.3ft (1m) away from any televisions or radios. (The unit may cause interference with the picture or sound.) Depending on the radio waves, a distance of 3.3ft (1m) may not be sufficient to eliminate the noise.
- Dismantling the unit, treatment of the refrigerant, oil and additional parts must be done in accordance with the relevant local, state, and national regulations.
- Only use tools for R32, such as a gauge manifold, charge hose, gas leak detector, reverse flow check valve, refrigerant charge base, vacuum gauge, or refrigerant recovery equipment.
- If the conventional refrigerant and refrigerator oil are mixed in R32, the refrigerant may deteriorate.
- As maximum allowable pressure is 604psi (4.17MPa), the wall thickness of field-installed pipes should be selected in accordance with the relevant local, state, and national regulations.

FTN006(R32)-U

Accessories

Ⓐ Mounting plate 	1	Ⓑ Mounting plate fixing screw M4 × 1” (M4 × 25mm) 	7	Ⓒ Titanium apatite deodorizing filter 	2
Ⓓ Wireless remote controller 	1	Ⓔ Remote controller holder 	1	Ⓕ Remote controller holder fixing screw M3 × 13/16” (M3 × 20mm) 	2
Ⓖ Dry battery AAA. LR03 (alkaline) 	2	Ⓗ Indoor unit fixing screw M4 × 1/2” (M4 × 12mm) 	2	Ⓙ Insulation tape 	1
Ⓚ Operation manual 	1	Ⓛ Installation manual 	1	Ⓜ Warranty 	1
Ⓝ General safety considerations 	1				

Choosing an Installation Site

• Before choosing the installation site, obtain user approval.

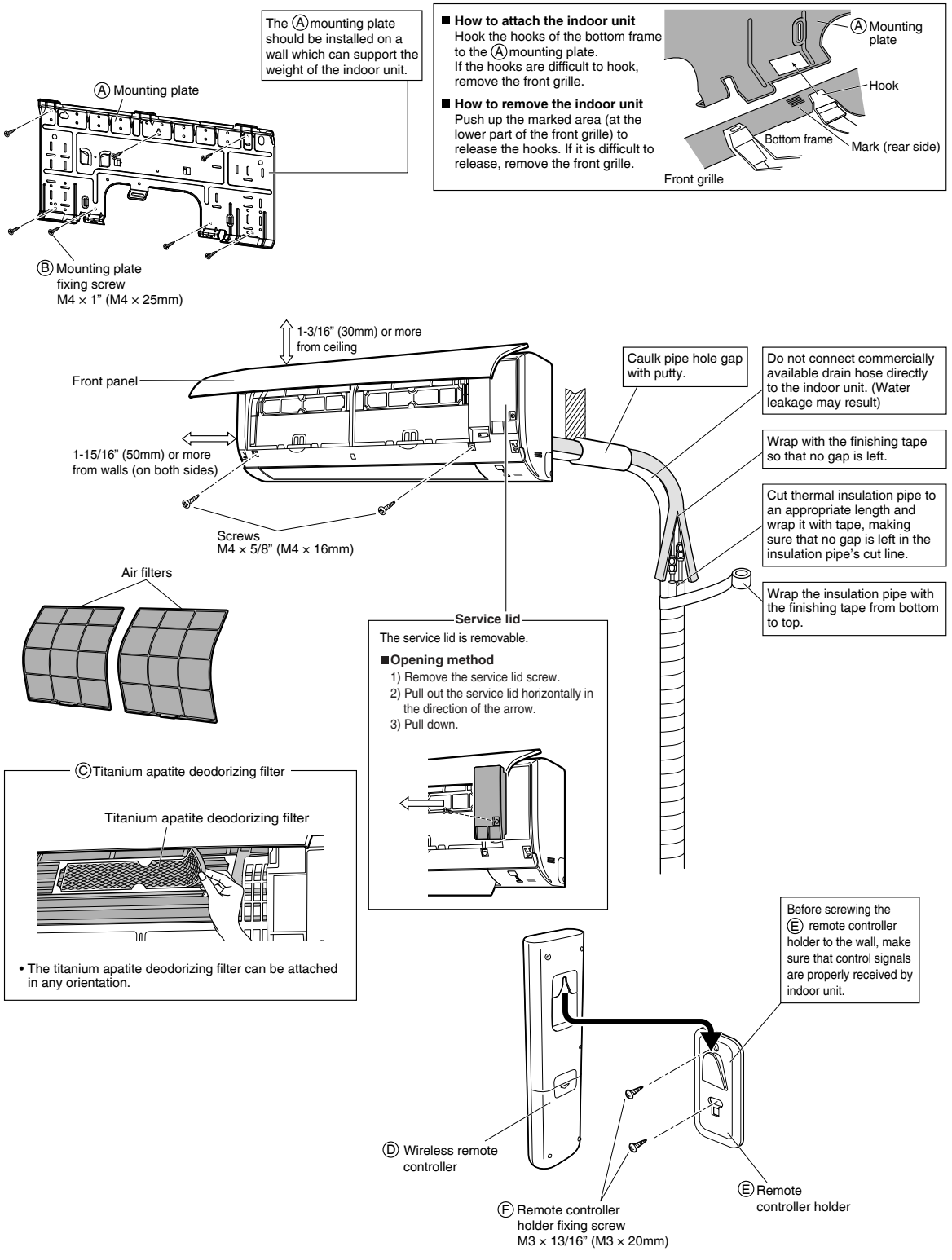
1. Indoor unit

- The indoor unit should be positioned in a place where:
  1) the restrictions on the installation requirements specified in **“Indoor Unit Installation Diagram”** on page 4 are met,
  2) both the air inlet and air outlet are unobstructed,
  3) the unit is not exposed to direct sunlight,
  4) drainage occurs easily,
  5) the unit is away from sources of heat or steam,
  6) there is no source of machine oil vapor (this may shorten the indoor unit service life),
  7) cool/warm air is circulated throughout the room,
  8) the unit is away from electronic ignition type fluorescent lamps (inverter or rapid start type) as they may affect the remote controller range,
  9) the unit is at least 3.3ft (1m) away from any television or radio set (the unit may cause interference with the picture or sound),
  10) no laundry equipment is nearby,
  11) the signal strength of the router is stable (insufficient signal strength can prevent stable communication).

2. Wireless remote controller

- Turn on all the fluorescent lamps in the room, if any, and find a location where the remote controller signals are properly received by the indoor unit (within 23ft (7m)).

Indoor Unit Installation Diagram



4

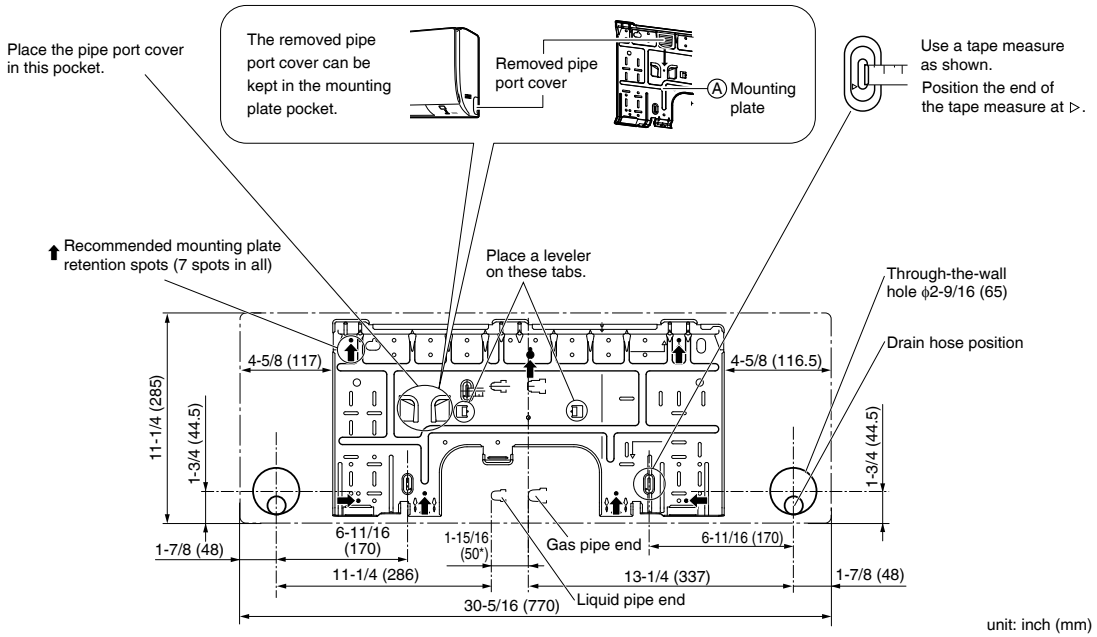
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Indoor Unit Installation

1. Installing the mounting plate

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

Recommended mounting plate retention spots and dimensions



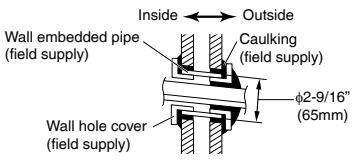
* Depending on the model, the actual distance between the liquid pipe end and gas pipe end may differ from the distance between those symbols on the mounting plate (the distance listed in this manual).
Always measure the actual distance between the liquid pipe end and gas pipe end before installing refrigerant pipes.

2. Drilling a wall hole and installing wall embedded pipe

⚠ WARNING

For metal frame or metal board walls, be sure to use a wall embedded pipe and wall hole cover in the feed-through hole to prevent possible heat, electric shock, or fire.

- Be sure to caulk the gaps around the pipes with caulking material to prevent condensation.
  1) Drill a feed-through hole with a ϕ2-9/16 inch (65mm) diameter through the wall at a downward angle toward the outside.
  2) Insert a wall embedded pipe into the hole.
  3) Insert a wall hole cover into wall pipe.
  4) After completing refrigerant piping, wiring, and drain piping, caulk the pipe hole gap with putty.



Even if a wall hole cover is not used, caulk both the outdoor and indoor sides with putty.

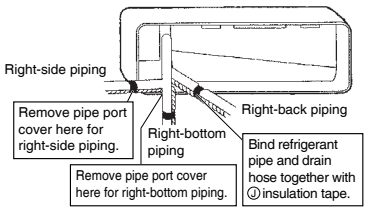
3. Installing the indoor unit

In the case of bending or curing refrigerant pipes, keep the following precautions in mind.
Abnormal sound may be generated if improper work is conducted.

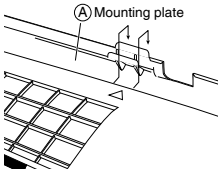
- Do not strongly press the refrigerant pipes onto the bottom frame.
- Do not strongly press the refrigerant pipes on the front grille, either.

3-1. Right-side, right-back, or right-bottom piping

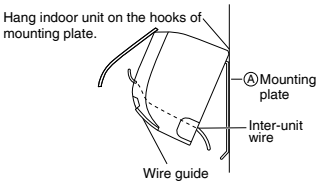
1) Attach the drain hose to the underside of the refrigerant pipes with adhesive vinyl tape.
2) Wrap the refrigerant pipes and drain hose together with Ⓙ insulation tape.



3) Pass the drain hose and refrigerant pipes through the wall hole, then position the indoor unit on the Ⓐ mounting plate hooks by using the △ markings at the top of the indoor unit as a guide.



4) Open the front panel (Refer to **"Installation Tips"** on page 12), then open the service lid (Refer to **"Indoor Unit Installation Diagram"** on page 4).
5) Pass the inter-unit wire from the outdoor unit through the feed-through wall hole and pass to the front of indoor unit from the back. Then pull them at front side. Bend the ends of cable tie wires upward for easier work in advance. (If the interunit wire ends are to be stripped first, bundle wire ends with adhesive tape.)
6) Press the bottom frame of the indoor unit with both hands until it is firmly caught by the Ⓐ mounting plate hooks. Make sure the wire leads do not catch on the edge of the indoor unit.

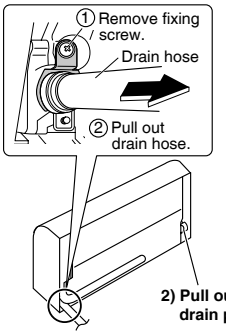


3-2. Left-side, left-back, or left-bottom piping

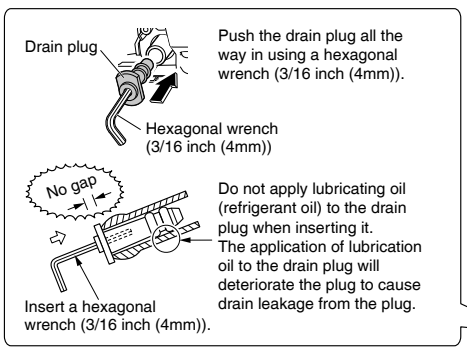
1) Switch around the drain plug and drain hose.

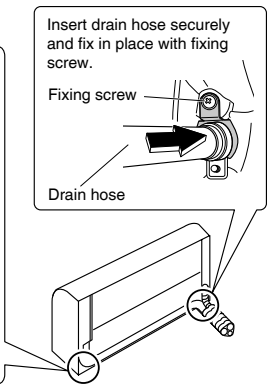
How to switch around the drain plug and drain hose

1) Remove the fixing screw and pull out the drain hose.



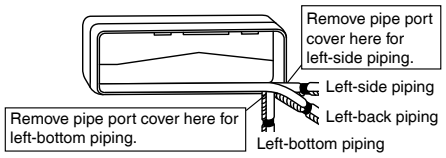
3) Switch around the drain hose and drain plug.





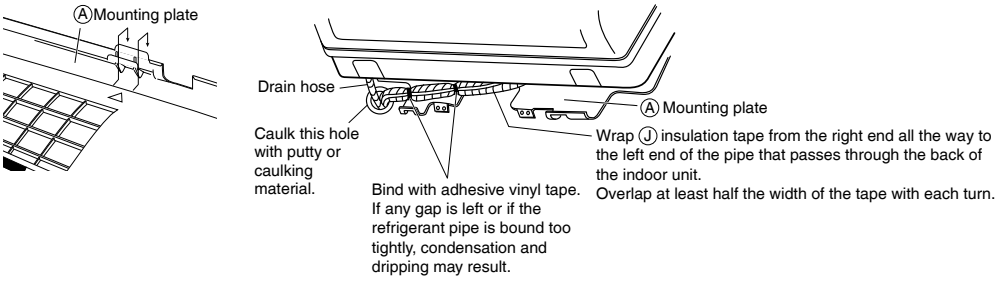
Indoor Unit Installation

2) Attach the drain hose to the underside of the refrigerant pipes with adhesive vinyl tape.



3) Shape the refrigerant pipes along the pipe path marking on the Ⓐ mounting plate.

4) Pass the drain hose and refrigerant pipes through the wall hole, then position the indoor unit on the Ⓐ mounting plate hooks, using the △ markings at the top of the indoor unit as a guide.



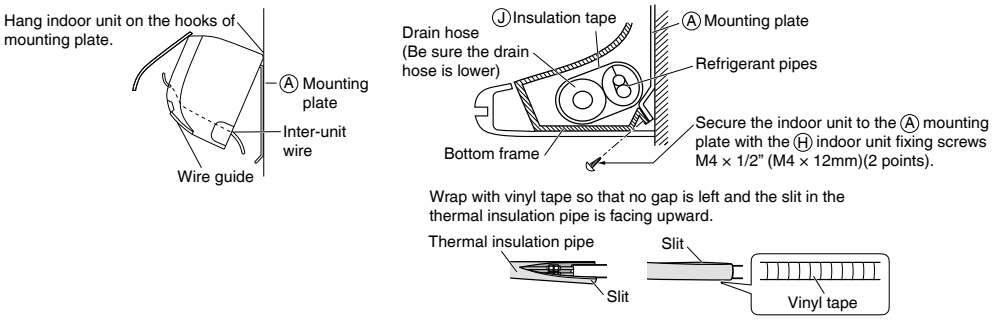
5) Open the front panel (Refer to "**Installation Tips**" on page 12), then open the service lid (Refer to "**Indoor Unit Installation Diagram**" on page 4).

6) Pass the inter-unit wire from the outdoor unit through the feed-through wall hole and pass to the front of indoor unit from the back. Then pull them at front side. Bend the ends of cable tie wires upward for easier work in advance. (If the interunit wire ends are to be stripped first, bundle wire ends with adhesive tape.)

7) Connect the refrigerant pipes.

8) In case of pulling the drain hose through the back of the indoor unit, wrap the refrigerant pipes and drain hose together with Ⓙ insulation tape as shown in the figure below.

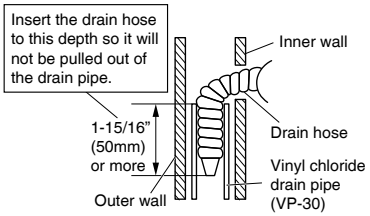
9) Press the bottom frame of the indoor unit with both hands until it is firmly caught by the Ⓐ mounting plate hooks. Make sure that the wires do not catch on the edge of the indoor unit.



3-3. Wall embedded piping

Follow the instructions given under left-side, left-back, or left-bottom piping.

1) Insert the drain hose to a depth of 1-15/16 inches (50mm) or more so it will not be pulled out of the drain pipe.



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3P741458-1C

4. Wiring

Refer to the installation manual for the outdoor unit also.

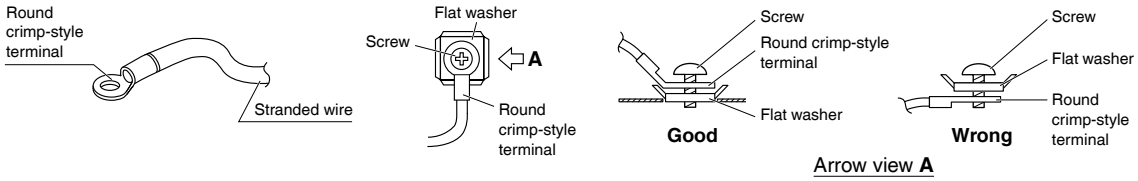
⚠WARNING

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

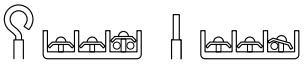
⚠CAUTION

Recommend stranded cable for interunit wiring. Local code always supersedes recommendation.

- For stranded wires, make sure to use the round crimp-style terminal for connection to the power supply terminal block. Place the round crimp-style terminals on the wires up to the covered part and secure in place.

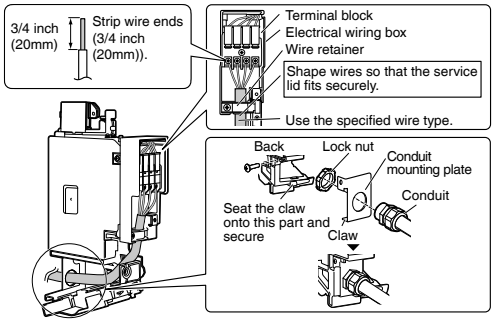


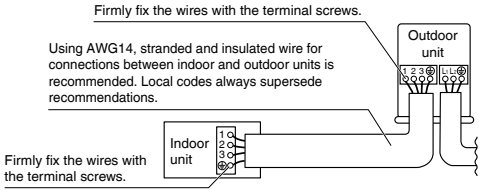
Arrow view **A**



- If solid core wire must be used, be sure to curl the end of the lead. Improper work may cause heat and fire.

1) Remove the front grille. (Refer to **"2. Removing and installing the front grille"** on page 12.)
2) Remove the conduit mounting plate and then secure the conduit to the conduit mounting plate with the lock nut, as shown in the illustration.
3) Strip wire ends (3/4 inch (20mm)).
4) Match wire colors with terminal numbers on the indoor and outdoor unit's terminal blocks and firmly secure the wires in the corresponding terminals with the screws.
5) Connect the ground wires to the corresponding terminals.
6) Pull the wires lightly to make sure they are securely connected.
7) Attach the conduit mounting plate.
8) Shape the wires so that the service lid fits securely.
9) Attach the front grille. (Refer to **"2. Removing and installing the front grille"** on page 12.)
10) Take care to ensure that all wiring between the indoor unit and the outdoor unit has a consistent connection. Any splices can cause communication errors.

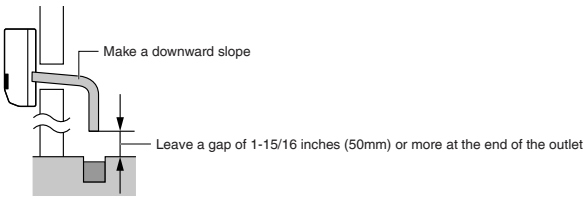


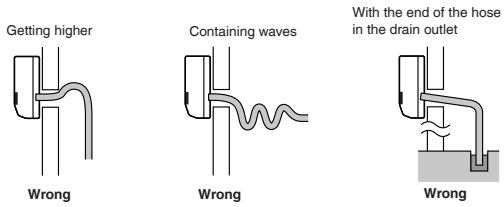


Indoor Unit Installation

5. Drain piping

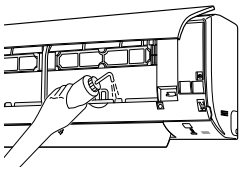
1) Connect the drain hose, as shown below.
- Avoid placing the end of the drain hose in a drainage location that could cause bad odors or corrosive gas to flow backward into the outlet.
- The drainage water may change color due to bacteria or other organisms. Place in a location where the flow of drainage water will not cause a problem.
- Minimize the number of bends in the drain hose as much as possible.
  If bending the drain hose, bend it gently.



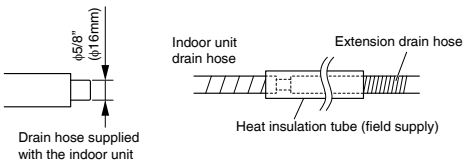


2) Remove the air filters and transfer some water to the indoor heat exchanger by pouring water into the drain pan.

3) Make sure that water flows out of the drain hose.



4) If drain hose extension or embedded drain piping is required, use appropriate parts that match the hose front end.
- When drain hose requires extension, obtain an extension hose with an inner diameter of 5/8 inch (16mm).
  Be sure to thermally insulate the indoor section of the extension hose.



9

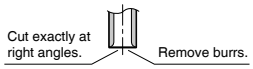
Refrigerant Piping Work

⚠WARNING

- Do not apply mineral oil to the flare.
- Prevent mineral oil from getting into the system as this would reduce the service life of the units.
- Never use piping which has been used for previous installations. Only use parts which are delivered with this unit.
- Never install a dryer to this R32 unit in order to guarantee its service life.
- The drying material may dissolve and damage the system.
- Improper flaring may result in refrigerant gas leakage.

1. Flaring the pipe end

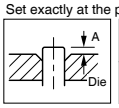
1) Cut the pipe end with a pipe cutter.
2) Remove burrs with the cut surface facing downward, so that the filings do not enter the pipe.



3) Put the flare nut on the pipe.
4) Flare the pipe.
5) Check that the flaring has been done correctly.

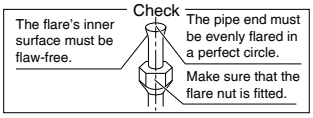
Flaring

Set exactly at the position shown below.



	Flare tool for R32 or R410A	Conventional flare tool	
	Clutch-type	Clutch-type (Rigid-type)	Wing-nut type (Imperial-type)
A	0-0.020 inch (0-0.5mm)	0.039-0.059 inch (1.0-1.5mm)	0.059-0.079 inch (1.5-2.0mm)

Check

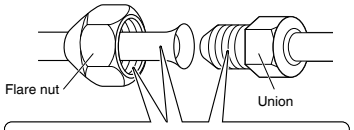


2. Refrigerant piping

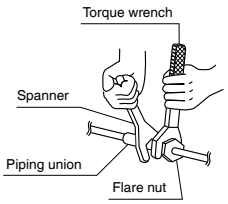
⚠CAUTION

- Use the flare nut fixed to the main unit. (This is to prevent the flare nut from cracking as a result of deterioration over time.)
- Use a torque wrench when tightening the flare nuts to prevent damage to the flare nuts and gas leakage.
- Excessive tightening of the flare nut can result in the flare nut cracking in the long term, leading to gas leakage.

- Align the centers of both flares and tighten the flare nuts 3 or 4 turns by hand, then tighten them fully with a spanner and a torque wrench.



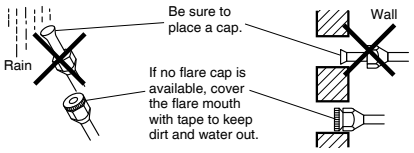
Do not apply refrigeration oil, gas leak prevention agent, etc., to the outer surface of the flare or threads (flare nut, union).
(May result in cracking of the flare nut or damage to the threads)



	Piping size	Flare nut tightening torque
Gas side	O.D. 3/8 inch (9.5mm)	24-1/8–29-1/2lbf • ft (32.7-39.9N • m)
Liquid side	O.D. 1/4 inch (6.4mm)	10-1/2–12-3/4lbf • ft (14.2-17.2 N • m)

Caution on piping handling

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

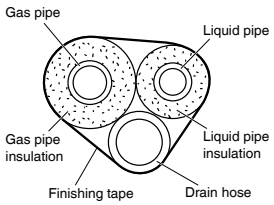


Refrigerant Piping Work

Selection of copper and heat insulation materials

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

- Insulation material: Polyethylene foam
  Heat transfer rate: 0.041 to 0.052W/mK (0.024 to 0.030Btu/fth°F (0.035 to 0.045kcal/mh°C))
  Be sure to use insulation that is designed for use with HVAC Systems.
- ACR Copper only.



- Be sure to insulate both the gas and liquid piping and observe the insulation dimensions as below.

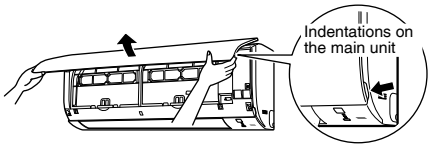
	Piping size	Minimum bend radius	Piping thickness	Thermal insulation size	Thermal insulation thickness
Gas side	O.D. 3/8 inch (9.5mm)	1-3/16 inch (30mm) or more	0.031 inch (0.8mm) (C1220T-O)	I.D. 15/32-19/32 inch (12-15mm)	13/32 inch (10mm) Min.
Liquid side	O.D. 1/4 inch (6.4mm)	1-3/16 inch (30mm) or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

- Use separate thermal insulation pipes for gas and liquid refrigerant pipes.
- Using finishing tape, bundle and wrap the indoor unit piping and drain hose together so that the drain hose is below the other piping.

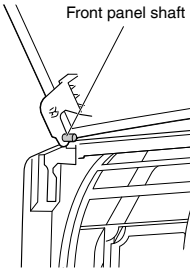
Installation Tips

1. Removing and installing the front panel

- **Removal method**
  1) Place your fingers in the indentations on the main unit (one each on the left and right sides), and open the front panel until it stops.



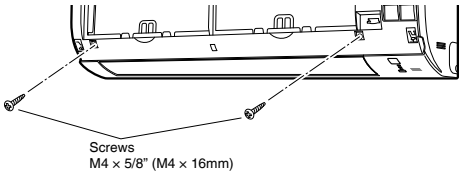
  2) While pushing the left side front panel shaft outward, push up the front panel and remove it. (Remove the right side front panel shaft in the same manner.)
  3) After removing both front panel shafts, pull the front panel toward yourself and remove it.



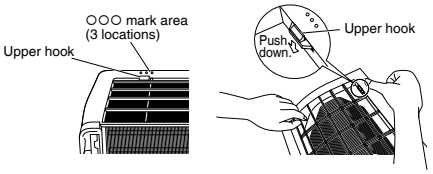
- **Installation method**
  Align the front panel shaft of the front panel with the grooves of grille, and push all the way in, then close slowly.
  Push the center of the lower panel surface firmly to engage the tabs.

2. Removing and installing the front grille

- **Removal method**
  1) Remove the front panel and air filters.
  2) Remove the 2 screws from the front grille.



  3) In front of the ○○○ mark on the front grille, there are 3 upper hooks. Lightly pull the front grille toward you with one hand, and push down on the hooks with the fingers of your other hand.

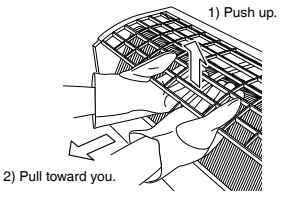


When there is insufficient work space because the unit is close to ceiling

⚠ CAUTION

Be sure to wear protection gloves.

Place both hands under the center of the front grille, and while pushing up, pull it toward you.



- **Installation method**
  1) Install the front grille and firmly engage the upper hooks (3 locations).
  2) Install 2 screws of the front grille.
  3) Install the air filters and then mount the front panel.

12

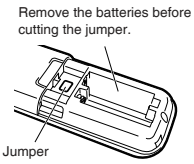
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Installation Tips

3. How to set the different addresses

When 2 indoor units are installed in one room, the 2 wireless remote controllers can be set for different addresses. Change the address setting of one of the 2 units. When cutting the jumper, be careful not to damage any of the surrounding parts.

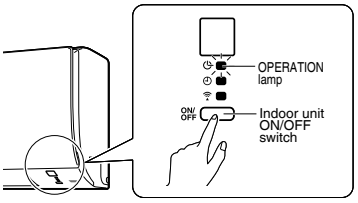
1) Remove the battery cover on the remote controller and cut the address jumper.
2) Press TEMP ▲, TEMP ▼ and OFF at the same time.
3) Press TEMP ▲, then select R, press FAN.
   (The indoor unit OPERATION lamp will blink for about 1 minute.)
4) Press the indoor unit ON/OFF switch while the OPERATION lamp is blinking.



	Address	
	1	2
Jumper	EXIST	CUT



- If setting could not be carried out completely while the OPERATION lamp was blinking, carry out the setting process once again from the beginning.
- After setting is complete, pressing FAN for about 5 seconds will cause the remote controller to return to the previous display.



4. Pump down operation

In order to protect the environment, be sure to pump down when relocating or disposing of the unit.
For instructions on how to pump down, refer to the installation manual for the outdoor unit to be connected.

Forced cooling operation

For pair connections

■Using the indoor unit ON/OFF switch

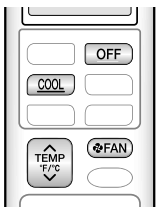
Press the indoor unit ON/OFF switch for at least 5 seconds. (The operation will start.)

- Forced cooling operation will stop automatically after about 15 minutes.
  To stop the operation, press the indoor unit ON/OFF switch.

■Using the indoor unit's remote controller

1) Press TEMP ▲, TEMP ▼ and OFF at the same time.
2) Press TEMP ▲, then select ↑, press FAN.
3) Press COOL to turn on the system.

- Forced cooling operation will stop automatically after about 30 minutes.
  To stop the operation, press OFF.



For multi connections

For instructions on how to perform forced cooling operation, refer to the installation manual for the outdoor unit.

Trial Operation and Testing

1. Trial operation and testing

- Trial operation should be carried out in either COOL or HEAT operation.

1-1. Measure the supply voltage and make sure that it is within the specified range.

1-2. In COOL operation, select the lowest programmable temperature; in HEAT operation, select the highest programmable temperature.

1-3. Carry out the trial operation following the instructions in the operation manual to ensure that all functions and parts, such as the movement of the flap, are working properly.

- To protect the air conditioner, restart operation is disabled for 3 minutes after the system has been turned off.

1-4. After trial operation is complete, set the temperature to a normal level (78°F to 82°F (26°C to 28°C) in COOL operation, 68°F to 75°F (20°C to 24°C) in HEAT operation).

- When operating the air conditioner in COOL operation in winter, or HEAT operation in summer, set it to the trial operation mode using the following method.
  1) Press TEMP F/C , TEMP F/C and OFF at the same time.
  2) Press TEMP F/C , then select , press FAN .
  3) Press COOL or HEAT to turn on the system.
  - Trial operation will stop automatically after about 30 minutes. To stop the operation, press OFF .
  - Some of the functions cannot be used in the trial operation mode.



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

2. Test items

Test items	Symptom	Check
Indoor and outdoor units are installed securely.	Fall, vibration, noise	
No refrigerant gas leaks.	Incomplete cooling/heating function	
Refrigerant gas and liquid pipes and indoor drain hose extension are thermally insulated.	Water leakage	
Draining line is properly installed.	Water leakage	
System is properly grounded.	Electrical leakage	
Only specified wires are used for all wiring, and all wires are connected correctly.	No operation or burn damage	
Indoor or outdoor unit's air inlet or air outlet are unobstructed.	Incomplete cooling/heating function	
Stop valves are opened.	Incomplete cooling/heating function	
Indoor unit properly receives remote control commands.	No operation	
Explain to the user that when using a smartphone for operation, it is necessary to prepare a repeater, or similar device, if the signal from the wireless LAN router is weak near the air conditioner.	Air conditioner not responding to smartphone	

1.2 FTXV15/18/24

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The pictures in this document are for illustrative purposes only.

Safety Considerations

Refer also to the General Safety Considerations in the separate booklet.

	**Read the precautions in this manual carefully before operating the unit.**
	**This appliance is filled with R32.**

Read these **Safety Considerations for Installation** carefully before installing an air conditioner or heat pump. After completing the installation, make sure that the unit operates properly during the startup operation.
Instruct the user on how to operate and maintain the unit. Inform users that they should store this installation manual with the operation manual for future reference.
Always use a licensed installer or contractor to install this product. Improper installation can result in water or refrigerant leakage, electric shock, fire, or explosion.
Meanings of **DANGER**, **WARNING**, **CAUTION**, and **NOTE** Symbols:

⚠ DANGER ..... Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.

⚠ WARNING ..... Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

⚠ CAUTION ..... Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices.

⚠ NOTE ..... Indicates situations that may result in equipment or property-damage accidents only.

⚠ DANGER

- Refrigerant gas is heavier than air and replaces oxygen. A massive leak can lead to oxygen depletion, especially in basements, and an asphyxiation hazard could occur leading to serious injury or death.
- Do not ground units to water pipes, gas pipes, telephone wires, or lightning rods as incomplete grounding can cause a severe shock hazard resulting in severe injury or death. Additionally, grounding to gas pipes could cause a gas leak and potential explosion causing severe injury or death.
- If refrigerant gas leaks during installation, ventilate the area immediately. Refrigerant gas may produce toxic gas if it comes into contact with fire. Exposure to this gas could cause severe injury or death.
- After completing the installation work, check that the refrigerant gas does not leak throughout the system.
- Do not install unit in an area where flammable materials are present due to risk of explosions that can cause serious injury or death.
- Safely dispose all packing and transportation materials in accordance with federal/state/local laws or ordinances. Packing materials such as nails and other metal or wood parts, including plastic packing materials used for transportation may cause injury or death by suffocation.
- All possible ignition sources, including cigarette smoking, should be kept sufficiently far away from the site of installation, repairing, removing and disposal.

⚠ WARNING

- Only qualified personnel licensed or certified in their jurisdiction must carry out the installation work. Installation must be done in accordance with this installation manual. Improper installation may result in water leakage, electric shock, or fire.
- Pipe-work including piping material, pipe routing, and installation shall include protection from physical damage in operation and service, and be in compliance with national and local codes and standards, such as ASHRAE 15, ASHRAE 15.2, IAPMO Uniform Mechanical Code, ICC International Mechanical Code, or CSA B52. All field joints shall be accessible for inspection prior to being covered or enclosed.
- When installing the unit in a small room, take measures to keep the refrigerant concentration from exceeding allowable safety limits. Excessive refrigerant leaks, in the event of an accident in a closed ambient space, can lead to oxygen deficiency.
- Use only specified accessories and parts for installation work. Failure to use specified parts may result in water leakage, electric shock, fire, or the unit falling.
- Install the air conditioner or heat pump on a foundation strong enough that it can withstand the weight of the unit. A foundation of insufficient strength may result in the unit falling and causing injury.

- Take into account strong winds, typhoons, or earthquakes when installing. Improper installation may result in the unit falling and causing accidents.
- Make sure that a separate power supply circuit is provided for this unit and that all electrical work is carried out by qualified personnel licensed or certified in their jurisdiction according to local, state, and national regulations. An insufficient power supply capacity or improper electrical construction may lead to electric shock or fire.
- Make sure that all wiring is secured, that specified wires are used, and that no external forces act on the terminal connections or wires. Improper connections or installation may result in fire.
- When wiring, position the wires so that the service lid can be securely fastened. Improper positioning of the service lid may result in electric shock, fire, or the terminals overheating.
- Before touching electrical parts, turn off the unit.
- The circuit must be protected with safety devices in accordance with local and national codes, i.e. a circuit breaker.
- Securely fasten the outdoor unit service lid. If the service lid is not installed properly, dust or water may enter the outdoor unit causing fire or electric shock.
- When installing or relocating the system, keep the refrigerant circuit free from substances other than the specified refrigerant (R32) such as air. Any presence of air or other foreign substance in the refrigerant circuit can cause an abnormal pressure rise or rupture, which may result in equipment damage and even injury.
- Do not change the setting of the protection devices. If the pressure switch, thermal switch, or other protection device is shorted and operated forcibly, or parts other than those specified by Daikin are used, fire or explosion may occur.
- Do not use means to accelerate the defrosting process (if possible) or to clean, other than those recommended by the manufacturer.
- The appliance must be stored in a room without continuously operating ignition sources (for example: open flames, an operating gas appliance or an operating electric heater).
- Do not pierce or burn.
- Be aware that refrigerants may not contain an odor.
- Comply with national gas regulations.
- The indoor equipment and pipes shall be securely mounted and guarded such that accidental rupture of equipment cannot occur from such events as moving furniture or reconstruction activities.

⚠ CAUTION

- Do not touch the switch with wet fingers. Touching a switch with wet fingers can cause electric shock.
- Do not allow children to play on or around the unit to prevent injury.
- Wear adequate personal protective equipment (protective gloves, safety glasses,…) when installing, maintaining or servicing the system.
- The heat exchanger fins are sharp enough to cut. To avoid injury, wear gloves or cover the fins while working around them.
- Do not touch the refrigerant pipes during and immediately after operation as the refrigerant pipes may be hot or cold, depending on the condition of the refrigerant flowing through the refrigerant piping, compressor, and other refrigerant cycle parts. Your hands may suffer burns or frostbite if you touch the refrigerant pipes. To avoid injury, give the pipes time to return to normal temperature or, if you must touch them, be sure to wear proper gloves.
- Install drain piping to ensure proper drainage. Improper drain piping may result in water leakage and property damage.
- Insulate piping to prevent condensation.
- Be careful when transporting the product.
- Do not turn off the power immediately after stopping operation. Always wait for at least 5 minutes before turning off the power. Otherwise, water leakage may occur.
- Do not use a charging cylinder. Using a charging cylinder may cause the refrigerant to deteriorate.
- Refrigerant R32 in the system must be kept clean, dry, and tight.

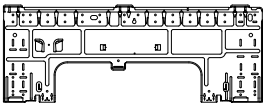
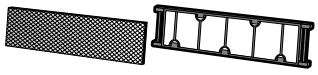
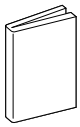
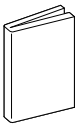
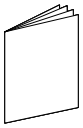
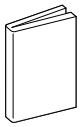
  (a) Clean and Dry -- Foreign materials (including mineral oils such as SUNISO oil or moisture) should be prevented from getting into the system.
  (b) Tight -- R32 does not contain any chlorine, does not destroy the ozone layer, and does not reduce the earth's protection again harmful ultraviolet radiation. R32 can contribute to the greenhouse effect if it is released. Therefore take proper measures to check for the tightness of the refrigerant piping installation. Read the chapter *Refrigerant Piping Work* and follow the procedures.
- The indoor unit is for R32. See the catalog for outdoor models that can be connected. Normal operation is not possible when connected to non-compatible outdoor units.
- Remote controller (wireless kit) transmitting distance can be shorter than expected in rooms with electronic fluorescent lamps (inverter or rapid start types). Install the indoor unit far away from fluorescent lamps as much as possible.
- Indoor units are for indoor installation only. Outdoor units can be installed either outdoors or indoors.
- Do not install the air conditioner or heat pump in the following locations:
  (a) Where a mineral oil mist or oil spray or vapor is produced, for example, in a kitchen.
  Plastic parts may deteriorate and fall off or result in water leakage.
  (b) Where corrosive gas, such as sulfurous acid gas, is produced.
  Corroding copper pipes or soldered parts may result in refrigerant leakage.
  (c) Near machinery emitting electromagnetic waves.
  Electromagnetic waves may disturb the operation of the control system and cause the unit to malfunction.
  (d) Where flammable gas may leak, where there is carbon fiber, or ignitable dust suspension in the air, or where volatile flammables such as thinner or gasoline are handled.
  Operating the unit in such conditions can cause a fire.
- Take adequate measures to prevent the outdoor unit from being used as a shelter by small animals. Small animals making contact with electrical parts can cause malfunctions, smoke, or fire. Instruct the user to keep the area around the unit clean.
- Servicing shall be performed only as recommended by the manufacturer and licensed or certified in their jurisdiction.

⚠ NOTE

- The indoor unit should be positioned where the unit and interunit wires (outdoor to indoor) are at least 3.3ft (1m) away from any televisions or radios. (The unit may cause interference with the picture or sound.) Depending on the radio waves, a distance of 3.3ft (1m) may not be sufficient to eliminate the noise.
- Dismantling the unit, treatment of the refrigerant, oil and additional parts must be done in accordance with the relevant local, state, and national regulations.
- Only use tools for R32, such as a gauge manifold, charge hose, gas leak detector, reverse flow check valve, refrigerant charge base, vacuum gauge, or refrigerant recovery equipment.
- If the conventional refrigerant and refrigerator oil are mixed in R32, the refrigerant may deteriorate.
- As maximum allowable pressure is 604psi (4.17MPa), the wall thickness of field-installed pipes should be selected in accordance with the relevant local, state, and national regulations.

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Accessories

Ⓐ Mounting plate 	1	Ⓑ Mounting plate fixing screw M4 × 1" (M4 × 25mm) 	7	Ⓒ Titanium apatite deodorizing filter 	2 each
Ⓓ Wireless remote controller 	1	Ⓔ Remote controller holder 	1	Ⓕ Remote controller holder fixing screw M3 × 13/16" (M3 × 20mm) 	2
Ⓖ Dry battery AAA. LR03 (alkaline) 	2	Ⓗ Indoor unit fixing screw M4 × 1/2" (M4 × 12mm) 	2	Ⓙ Insulation tape 	1
Ⓚ Operation manual 	1	Ⓛ Installation manual 	1	Ⓜ Warranty 	1
Ⓝ General safety considerations 	1				

Choosing an Installation Site

• Before choosing the installation site, obtain user approval.

1. Indoor unit

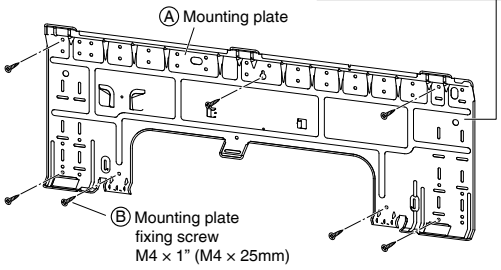
- The indoor unit should be positioned in a place where:
  1) the restrictions on the installation requirements specified in **"Indoor Unit Installation Diagram"** on page 4 are met,
  2) both the air inlet and air outlet are unobstructed,
  3) the unit is not exposed to direct sunlight,
  4) drainage occurs easily,
  5) the unit is away from sources of heat or steam,
  6) there is no source of machine oil vapor (this may shorten the indoor unit service life),
  7) cool/warm air is circulated throughout the room,
  8) the unit is away from electronic ignition type fluorescent lamps (inverter or rapid start type) as they may affect the remote controller range,
  9) the unit is at least 3.3ft (1m) away from any television or radio set (the unit may cause interference with the picture or sound),
  10) no laundry equipment is nearby,
  11) the signal strength of the router is stable (insufficient signal strength can prevent stable communication).

2. Wireless remote controller

- Turn on all the fluorescent lamps in the room, if any, and find a location where the remote controller signals are properly received by the indoor unit (within 23ft (7m)).

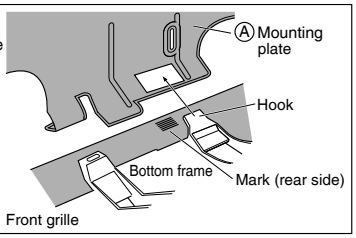
Indoor Unit Installation Diagram

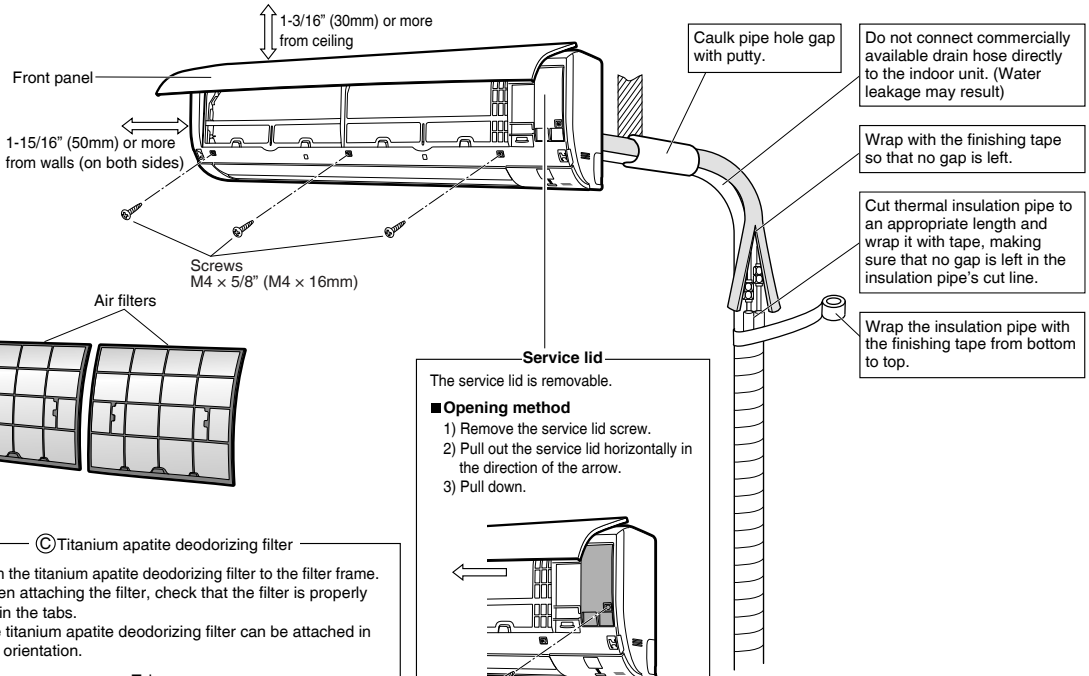
The Ⓐ mounting plate should be installed on a wall which can support the weight of the indoor unit.



■ **How to attach the indoor unit**
Hook the hooks of the bottom frame to the Ⓐ mounting plate.
If the hooks are difficult to hook, remove the front grille.

■ **How to remove the indoor unit**
Push up the marked area (at the lower part of the front grille) to release the hooks. If it is difficult to release, remove the front grille.





Service lid

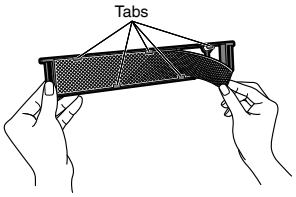
The service lid is removable.

■ **Opening method**

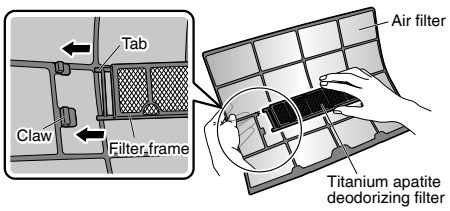
1) Remove the service lid screw.
2) Pull out the service lid horizontally in the direction of the arrow.
3) Pull down.

Ⓒ Titanium apatite deodorizing filter

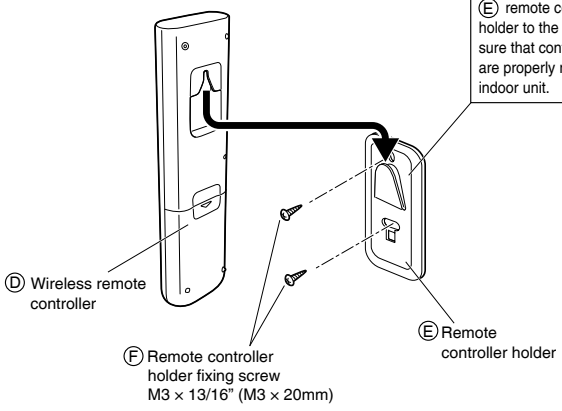
1) Attach the titanium apatite deodorizing filter to the filter frame.
- When attaching the filter, check that the filter is properly set in the tabs.
- The titanium apatite deodorizing filter can be attached in any orientation.



2) Set the tabs of the filter frame in the claws of the air filter. (4 places)



Before screwing the Ⓔ remote controller holder to the wall, make sure that control signals are properly received by indoor unit.



4

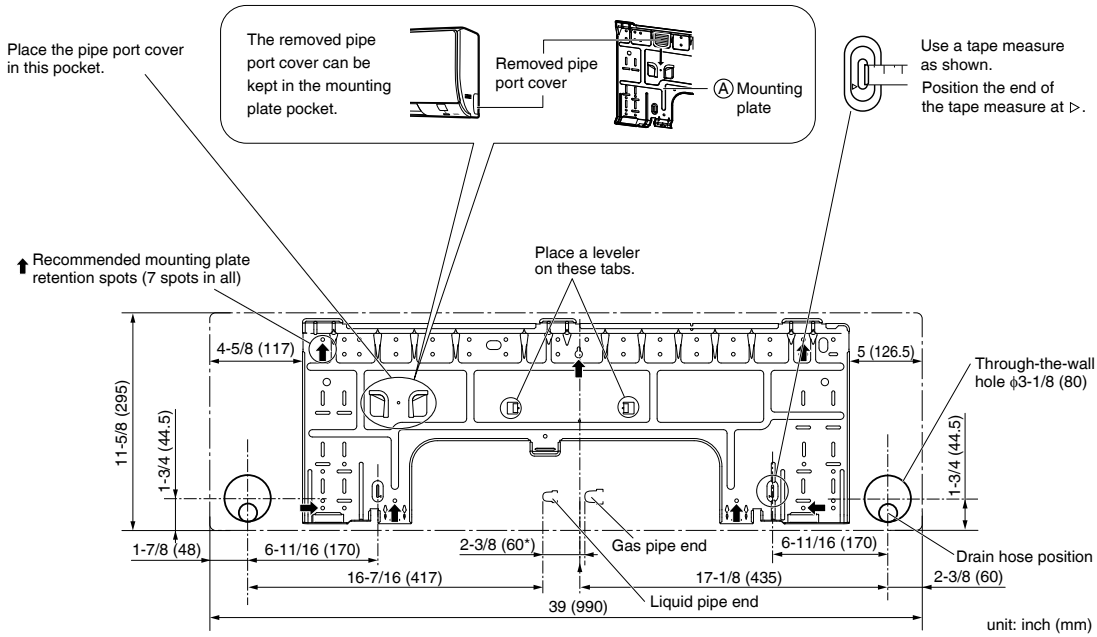
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Indoor Unit Installation

1. Installing the mounting plate

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

Recommended mounting plate retention spots and dimensions



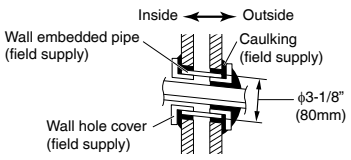
* Depending on the model, the actual distance between the liquid pipe end and gas pipe end may differ from the distance between those symbols on the mounting plate (the distance listed in this manual).
Always measure the actual distance between the liquid pipe end and gas pipe end before installing refrigerant pipes.

2. Drilling a wall hole and installing wall embedded pipe

⚠ WARNING

For metal frame or metal board walls, be sure to use a wall embedded pipe and wall hole cover in the feed-through hole to prevent possible heat, electric shock, or fire.

- Be sure to caulk the gaps around the pipes with caulking material to prevent condensation.
  1) Drill a feed-through hole with a ϕ3-1/8 inch (80mm) diameter through the wall at a downward angle toward the outside.
  2) Insert a wall embedded pipe into the hole.
  3) Insert a wall hole cover into wall pipe.
  4) After completing refrigerant piping, wiring, and drain piping, caulk the pipe hole gap with putty.



Even if a wall hole cover is not used, caulk both the outdoor and indoor sides with putty.

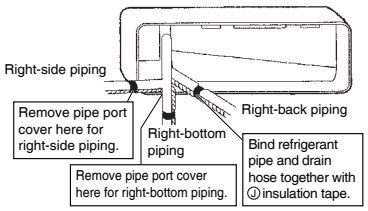
3. Installing the indoor unit

In the case of bending or curing refrigerant pipes, keep the following precautions in mind.
Abnormal sound may be generated if improper work is conducted.

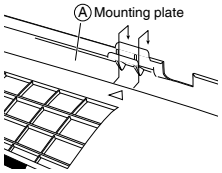
- Do not strongly press the refrigerant pipes onto the bottom frame.
- Do not strongly press the refrigerant pipes on the front grille, either.

3-1. Right-side, right-back, or right-bottom piping

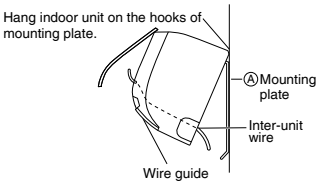
1) Attach the drain hose to the underside of the refrigerant pipes with adhesive vinyl tape.
2) Wrap the refrigerant pipes and drain hose together with Ⓙ insulation tape.



3) Pass the drain hose and refrigerant pipes through the wall hole, then position the indoor unit on the Ⓐ mounting plate hooks by using the △ markings at the top of the indoor unit as a guide.



4) Open the front panel (Refer to **"Installation Tips"** on page 12), then open the service lid (Refer to **"Indoor Unit Installation Diagram"** on page 4).
5) Pass the inter-unit wire from the outdoor unit through the feed-through wall hole and pass to the front of indoor unit from the back. Then pull them at front side. Bend the ends of cable tie wires upward for easier work in advance. (If the interunit wire ends are to be stripped first, bundle wire ends with adhesive tape.)
6) Press the bottom frame of the indoor unit with both hands until it is firmly caught by the Ⓐ mounting plate hooks. Make sure the wire leads do not catch on the edge of the indoor unit.

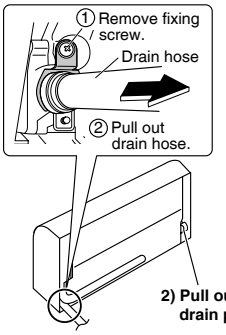


3-2. Left-side, left-back, or left-bottom piping

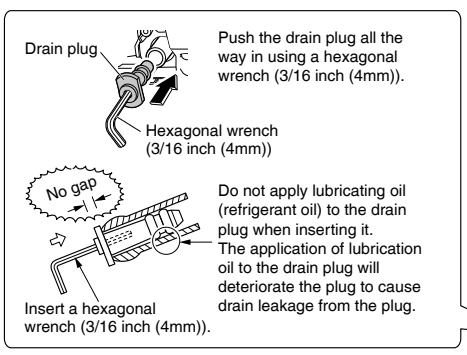
1) Switch around the drain plug and drain hose.

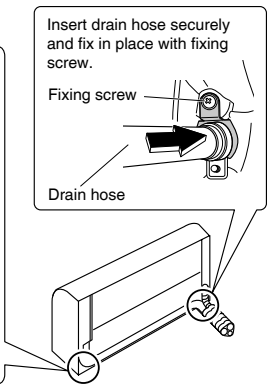
How to switch around the drain plug and drain hose

1) Remove the fixing screw and pull out the drain hose.



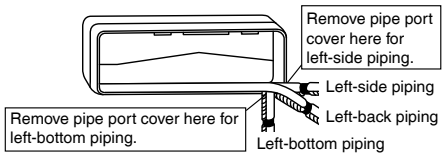
3) Switch around the drain hose and drain plug.





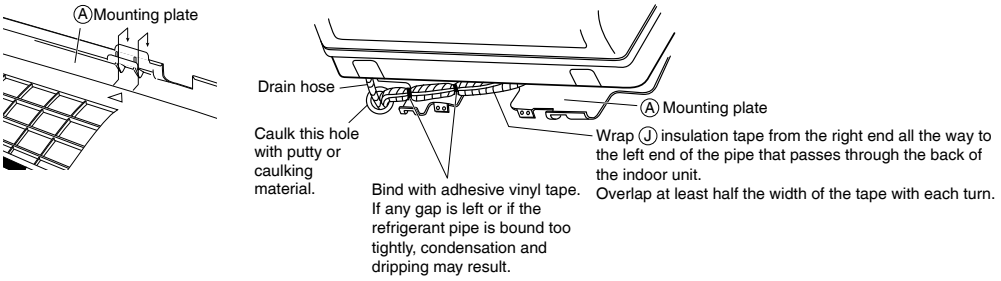
Indoor Unit Installation

2) Attach the drain hose to the underside of the refrigerant pipes with adhesive vinyl tape.



3) Shape the refrigerant pipes along the pipe path marking on the Ⓐ mounting plate.

4) Pass the drain hose and refrigerant pipes through the wall hole, then position the indoor unit on the Ⓐ mounting plate hooks, using the △ markings at the top of the indoor unit as a guide.



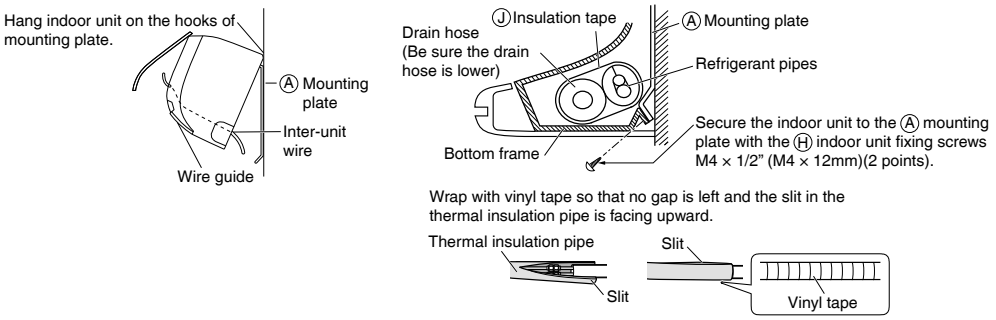
5) Open the front panel (Refer to "**Installation Tips**" on page 12), then open the service lid (Refer to "**Indoor Unit Installation Diagram**" on page 4).

6) Pass the inter-unit wire from the outdoor unit through the feed-through wall hole and pass to the front of indoor unit from the back. Then pull them at front side. Bend the ends of cable tie wires upward for easier work in advance. (If the interunit wire ends are to be stripped first, bundle wire ends with adhesive tape.)

7) Connect the refrigerant pipes.

8) In case of pulling the drain hose through the back of the indoor unit, wrap the refrigerant pipes and drain hose together with Ⓙ insulation tape as shown in the figure below.

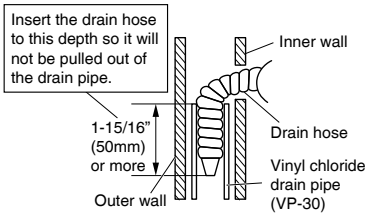
9) Press the bottom frame of the indoor unit with both hands until it is firmly caught by the Ⓐ mounting plate hooks. Make sure that the wires do not catch on the edge of the indoor unit.



3-3. Wall embedded piping

Follow the instructions given under left-side, left-back, or left-bottom piping.

1) Insert the drain hose to a depth of 1-15/16 inches (50mm) or more so it will not be pulled out of the drain pipe.



7

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