



Engineering Data

FXFQ-P Ceiling Mounted Cassette Type (Round Flow)



FXFQ-P Ceiling Mounted Cassette Type (Round Flow)

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EDUS391000-F1 **Specifications**

1. Specifications

Ceiling Mounted Cassette Type (Round Flow)

Model			FXFQ09PVJU	FXFQ12PVJU	FXFQ18PVJU	FXFQ24PVJU	
1*, 3* Cooling	Capacity	Btu/h	9,500	12,000	18,000	24,000	
2*, 3* Heating	Capacity	Btu/h	10,500	13,500	,		
Casing / Color			Galvanized Steel Plate	Galvanized Steel Plate	Galvanized Steel Plate	Galvanized Steel Plate	
Dimensions: (H	H×W×D)	in. (mm)	9-11/16 × 33-1/16 × 33-1/16 (246 x 840 x 840)	9-11/16 × 33-1/16 × 33-1/16 (246 x 840 x 840)	9-11/16 × 33-1/16 × 33-1/16 (246 x 840 x 840)	9-11/16 × 33-1/16 × 33-1/16 (246 x 840 x 840)	
Coil (Cross	Rows×Stages×FPI		2×6×21	2×6×21	2×6×21	2×10×21	
Fin Coil)	Face Area	ft² (m²)	2.87 (0.9)	2.87 (0.9)	2.87 (0.9)	4.80 (1.46)	
	Model		QTS48C15M	QTS48C15M	QTS48C15M	QTS48C15M	
	Туре		Turbo Fan	Turbo Fan	Turbo Fan	Turbo Fan	
Fan	Motor Output	W	56	56	56	56	
	Air Flow Rate (HH/H/L)	cfm	460/390/350	460/390/350	560/470/390	780/620/470	
	Drive		Direct Drive	Direct Drive	Direct Drive	Direct Drive	
Temperature C	control		Microprocessor Thermostat for Cooling and Heating	Microprocessor Thermostat for Cooling and Heating	Microprocessor Thermostat for Cooling and Heating	Microprocessor Thermostat for Cooling and Heating	
Sound Absorbi	ng Thermal Insulation Mate	rial	Polyurethane Form	Polyurethane Form	Polyurethane Form	Polyurethane Form	
Weight		Lbs (kg)	43 (19.5)	43 (19.5)	43 (19.5)	48.5 (22)	
5 [★] Sound Leve	l (HH/H/L)	dBA	30/28/27	30/28/27	32/30/27	36/32/28	
	Liquid Pipes in. (mm)		φ1/4 (6.4) (Flare Connection)	φ1/4 (6.4) (Flare Connection)	φ1/4 (6.4) (Flare Connection)	φ3/8 (9.5) (Flare Connection)	
Piping Connections	Gas Pipes in. (mm)		φ1/2 (12.7) (Flare Connection)	φ1/2 (12.7) (Flare Connection)	φ1/2 (12.7) (Flare Connection)	φ5/8 (15.8) (Flare Connection)	
	Drain Pipe	in. (mm)	VP25 (External Dia. 1-1/4(31.8) Internal Dia. 1(25.4)	VP25 (External Dia. 1-1/4(31.8) Internal Dia. 1(25.4)	VP25 (External Dia. 1-1/4(31.8) Internal Dia. 1(25.4)	VP25 (External Dia. 1-1/4(31.8) Internal Dia. 1(25.4)	
Safety Devices			Fuse	Fuse	Fuse	Fuse	
Refrigerant Co	ntrol		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve	
Connectable or	utdoor unit		R-410A VRV Series	R-410A VRV Series	R-410A VRV Series	R-410A VRV Series	
Standard Accessories		Operation Manual. Installation Manual. Paper Pattern for Installation. Drain Hose. Sealing Pads. Clamps. Washers. Screws. Insulation for Fitting. Clamp Metal.	Operation Manual. Installation Manual. Paper Pattern for Installation. Drain Hose. Sealing Pads. Clamps. Washers. Screws. Insulation for Fitting. Clamp Metal.	Operation Manual. Installation Manual. Paper Pattern for Installation. Drain Hose. Sealing Pads. Clamps. Washers. Screws. Insulation for Fitting. Clamp Metal.	Operation Manual. Installation Manual. Paper Pattern for Installation. Drain Hose. Sealing Pads. Clamps. Washers. Screws. Insulation for Fitting. Clamp Metal.		
	Model		BYCP125K-W1	BYCP125K-W1	BYCP125K-W1	BYCP125K-W1	
	Color		Fresh White	Fresh White	Fresh White	Fresh White	
Decoration Panels	Dimensions: (H×W×D)	in. (mm)	2×37-3/8×37-3/8 (51 x 949 x 949)	2×37-3/8×37-3/8 (51 x 949 x 949)	2×37-3/8×37-3/8 (51 x 949 x 949)	2×37-3/8×37-3/8 (51 x 949 x 949)	
(Option)	Air Filter		Resin Net (with Mold Resistant)	Resin Net (with Mold Resistant)	Resin Net (with Mold Resistant)	Resin Net (with Mold Resistant)	
	Weight	Lbs (kg)	12.2 (5.5)	12.2 (5.5)	12.2 (5.5)	12.2 (5.5)	
Drawing No.			C: 3D070521				

Notes:

★ 1 Nominal cooling capacities are based on the following conditions: Return air temperature: 80°FDB (27°CDB), 67°FWB (19.4°CWB) Outdoor temperature: 95°FDB (35°CFB)

Outdoor temperature: 95°FDB (35°CFB)
Equivalent ref. piping length: 25ft (7.5 m) (Horizontal)

★ 2 Nominal heating capacities are based on the following conditions:
Return air temperature: 70°FDB(21°CDB).
Outdoor temperature: 47°FDB, 43°FWB (8.3°CDB, 6°CWB)
Equivalent ref. piping length: 25ft (7.5 m) (Horizontal)

★ 3 Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.
4 Refer to page 9 for Power Input.

★ 5 Sound levels are measured under JIS conditions.

EDUS391000-F1 **Specifications**

Ceiling Mounted Cassette Type (Round Flow)

Model			FXFQ30PVJU	FXFQ36PVJU	FXFQ48PVJU	
1*, 3* Cooling	g Capacity	Btu/h	30,000	36,000	48,000	
2 [★] , 3 [★] Heating	g Capacity	Btu/h	34,000	40,000	54,000	
Casing / Color			Galvanized Steel Plate	Galvanized Steel Plate	Galvanized Steel Plate	
Dimensions: (H	H×W×D)	in. (mm)	9-11/16×33-1/16×33-1/16 (246 x 840 x 840)	11-5/16×33-1/16×33-1/16 (287 x 840 x 840)	11-5/16×33-1/16×33-1/16 (287 x 840 x 840)	
Coil (Cross	Rows×Stages×FPI	•	2×10×21	2×12×21	2×12×21	
Fin Coil)	Face Area	ft ² (m ²)	4.80 (1.46)	5.76 (1.8)	5.76 (1.8)	
	Model	•	QTS48C15M	QTS48C15M	QTS48C15M	
	Туре		Turbo Fan	Turbo Fan	Turbo Fan	
Fan	Motor Output	W	56	120	120	
	Air Flow Rate (HH/H/L)	cfm	830/670/530	1180/910/700	1220/970/790	
	Drive		Direct Drive	Direct Drive	Direct Drive	
Temperature 0	Control		Microprocessor Thermostat for Cooling and Heating	Microprocessor Thermostat for Cooling and Heating	Microprocessor Thermostat for Cooling and Heating	
Sound Absorb	ing Thermal Insulation Mate	erial	Polyurethane Form	Polyurethane Form	Polyurethane Form	
Weight		Lbs (kg	48.5 (22)	55 (25)	55 (25)	
5 [★] Sound Leve	el (HH/H/L)	dBA	38/35/31	44/38/32	45/40/34	
	Liquid Pipes	in. (mm)	φ3/8 (9.5) (Flare Connection)	φ3/8 (9.5) (Flare Connection)	φ3/8 (9.5) (Flare Connection)	
Pipina	Gas Pipes	in. (mm)	φ5/8 (15.8) (Flare Connection)	φ5/8 (15.8) (Flare Connection)	φ5/8 (15.8) (Flare Connection)	
Connections	Drain Pipe	in. (mm)	VP25 (External Dia. 1-1/4 (31.8) (Internal Dia. 1(25.4)	VP25 (External Dia. 1-1/4 (31.8) Internal Dia. 1(25.4)	VP25 (External 1-1/4 (31.8) (Internal Dia. 1 (25.4))	
Safety Devices	3		Fuse	Fuse	Fuse	
Refrigerant Co	ontrol		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve	
Connectable o	outdoor unit		R-410A VRV Series	R-410A VRV Series	R-410A VRV Series	
Standard Acce	essories		Operation Manual. Installation Manual. Paper Pattern for Installation. Drain Hose. Sealing Pads. Clamps. Washers. Screws. Insulation for Fitting. Clamp Metal.	Operation Manual. Installation Manual. Paper Pattern for Installation. Drain Hose. Sealing Pads. Clamps. Washers. Screws. Insulation for Fitting. Clamp Metal.	Operation Manual. Installation Manual. Paper Pattern for Installation. Drain Hose. Sealing Pads. Clamps. Washers. Screws. Insulation for Fitting. Clamp Metal.	
	Model		BYCP125K-W1	BYCP125K-W1	BYCP125K-W1	
	Color		Fresh White	Fresh White	Fresh White	
Decoration Panels	Dimensions: (H×W×D)	in. (mm)	2×37-3/8×37-3/8 (51 x 949 x 949)	2×37-3/8×37-3/8 (51 x 949 x 949)	2×37-3/8×37-3/8 (51 x 949 x 949)	
(Option)	Air Filter		Resin Net (with Mold Resistant)	Resin Net (with Mold Resistant)	Resin Net (with Mold Resistant)	
	Weight	Lbs (kg	12.2 (5.5)	12.2 (5.5)	12.2 (5.5)	
Drawing No.				C: 3D070521		

Notes:

★ 1 Nominal cooling capacities are based on the following conditions: Return air temperature: 80°FDB(27°CDB), 67°FWB(19.4°CWB) Outdoor temperature: 95°FDB (35°CDB)

Outdoor temperature: 95°FDB (35°CDB)

Equivalent ref. piping length: 25ft (7.5 m)(Horizontal)

2 Nominal heating capacities are based on the following conditions:
Return air temperature: 70°FDB(21°CDB).
Outdoor temperature: 47°FDB (8.3°CDB), 43°FWB (6°CWB)
Equivalent ref. piping length: 25ft (7.5 m) (Horizontal)

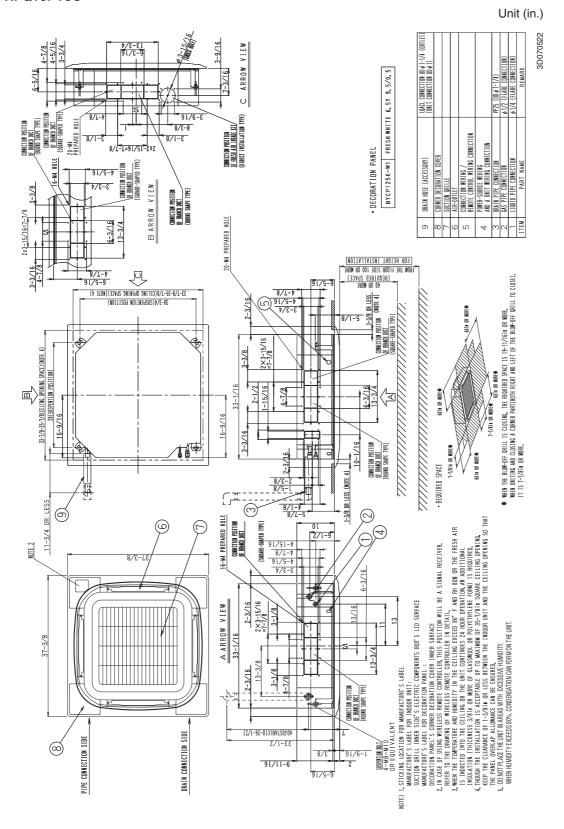
3 Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.
4 Refer to page 9 for Power Input.

5 Sound levels are measured under JIS conditions.

Dimensions EDUS391000-F1

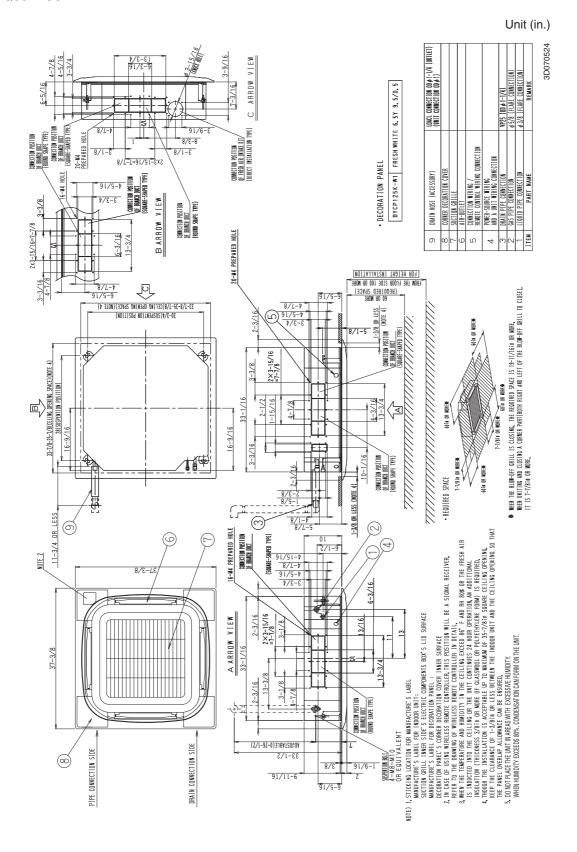
2. Dimensions

FXFQ09PVJU FXFQ12PVJU FXFQ18PVJU



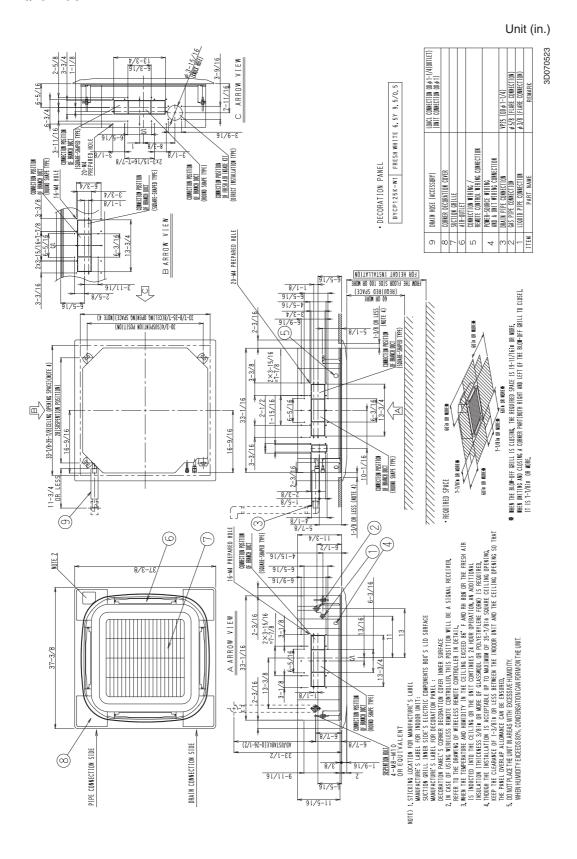
EDUS391000-F1 Dimensions

FXFQ24PVJU FXFQ30PVJU



Dimensions EDUS391000-F1

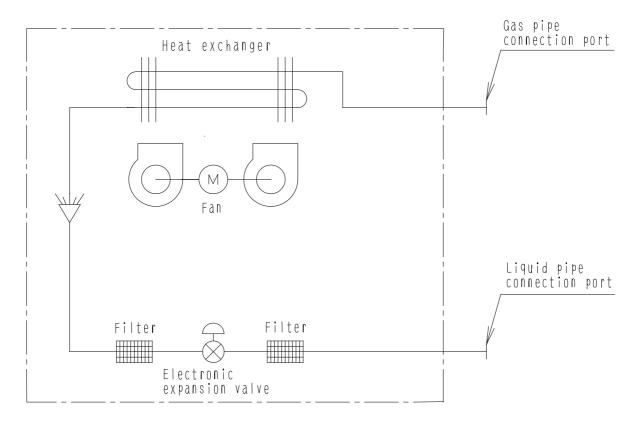
FXFQ36PVJU FXFQ48PVJU



EDUS391000-F1 Piping Diagrams

3. Piping Diagrams

FXFQ09PVJU / FXFQ12PVJU / FXFQ18PVJU / FXFQ24PVJU / FXFQ30PVJU / FXFQ36PVJU / FXFQ48PVJU



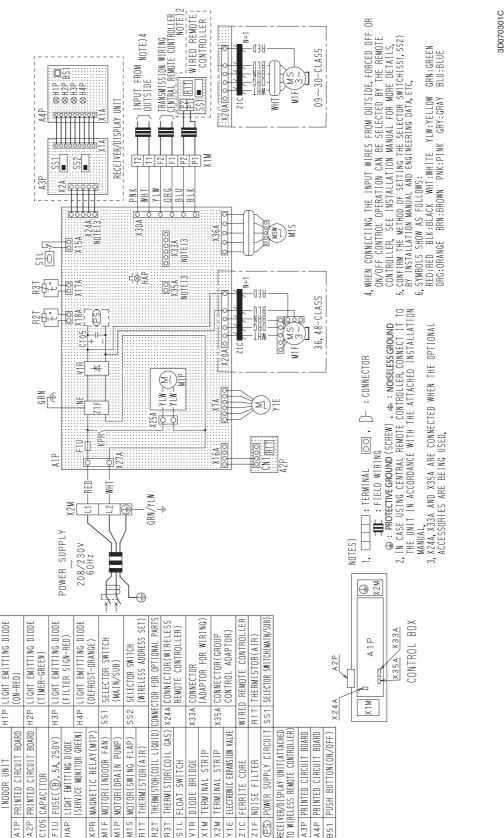
4D024460D

Model	GAS	Liquid
FXFQ09 / 12 / 18PVJU	φ1/2	φ1/4
FXFQ24 / 30 / 36 / 48PVJU	φ5/8	φ3/8

Wiring Diagrams EDUS391000-F1

4. Wiring Diagrams

FXFQ09PVJU / FXFQ12PVJU / FXFQ18PVJU / FXFQ24PVJU / FXFQ30PVJU / FXFQ36PVJU / FXFQ48PVJU



EDUS391000-F1 **Electric Characteristics**

5. Electric Characteristics

Model		Power supply				IFM		Input(W)	
Model	Ηz	Volts	Voltage range	MCA	MOP	KW	FLA	Cooling	Heating
FXFQ09PVJU				0.3	15	0.056	0.2	34	30
FXFQ12PVJU			Max. 253V Min. 187V	0.3	15	0.056	0.2	34	30
FXFQ18PVJU				0.4	15	0.056	0.3	56	42
FXFQ24PVJU	60	208V/230V		0.5	15	0.056	0.4	70	60
FXFQ30PVJU				0.6	15	0.056	0.5	104	84
FXFQ36PVJU				1.4	15	0.120	1. 1	210	200
FXFQ48PVJU				1, 5	15	0.120	1.2	240	232

```
Note:
 1. Voltage range
 Units are suitable for use on electrical systems where voltage supplied to unit terminals is not below or above listed range limits.

2. Maximum allowable voltage unbalance between
             phases is 2%.
 3. MCA/MFA
         MCA = 1.25 \times FLA
MOP \le 4 \times FLA
 (Next lower standard fuse rating, Min. 15A)
4. Select wire size based on the MCA.
```

Symbols: MCA: Min. Circuit Amps (A)
MOP: Max. Overcurrent Protective Device (A) KW : Fan Motor Rated Output(kW)
FLA : Full Load Amps(A)
IFM : Indoor Fan Motor

4D070525A

Capacity Tables EDUS391000-F1

6. Capacity Tables

6.1 Cooling Capacity

FXFQ-P

[Cooling Capacity]

	Outdoor	Indoor Air Temp. °FWB											
Indoor Unit	Air Temp.	6		6		6			70 72			7	
mador omit	-	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
	°FDB	MBh	MBh	MBh	MBh	MBh	MBh	MBh	MBh	MBh	MBh	MBh	MBh
	75	7.5	7.5	8.5	8.5	9.5	9.5	10.5	9.8	10.7	9.6	10.9	9.2
	79	7.5	7.5	8.5	8.5	9.5	9.5	10.4	9.7	10.5	9.5	10.7	9.0
	83	7.5	7.5	8.5	8.5	9.5	9.5	10.2	9.5	10.3	9.6	10.5	9.2
09	87	7.5	7.5	8.5	8.5	9.5	9.5	10.0	9.7	10.2	9.5	10.3	9.0
	91	7.5	7.5	8.5	8.5	9.5	9.5	9.9	9.5	10.0	9.6	10.2	8.8
	95	7.5	7.5	8.5	8.5	9.5	9.5	9.7	9.7	9.8	9.1	10.0	8.7
	99	7.5	7.5	8.5	8.5	9.3	9.3	9.5	9.5	9.6	9.0	9.8	8.8
	103	7.5	7.5	8.5	8.5	9.2	9.2	9.3	9.3	9.5	9.1	9.7	8.7
	75 70	9.5	9.1	10.7	9.8	12.0	10.3	13.3	11.2	13.5	10.4	13.7	10.0
	79 83	9.5 9.5	9.1 9.1	10.7 10.7	9.8 9.8	12.0 12.0	10.3 10.3	13.1 12.9	11.0 10.9	13.3 13.0	10.3 10.4	13.5 13.3	9.9 10.0
	87	9.5	9.1	10.7	9.8	12.0		12.9	10.9	12.8	10.4	13.1	10.0
12	91	9.5	9.1	10.7	9.8	12.0	10.3 10.3	12.7	10.3	12.6	10.3	12.8	9.9
	95	9.5	9.1	10.7	9.8	12.0	10.3	12.3	10.4	12.4	10.3	12.6	10.0
	99	9.5	9.1	10.7	9.8	11.8	10.4	12.0	10.3	12.2	9.9	12.4	9.5
	103	9.5	9.1	10.7	9.8	11.6	10.4	11.8	10.5	12.0	10.0	12.2	9.6
	75	14.2	12.3	16.1	13.3	18.0	14.1	19.9	14.9	20.2	14.1	20.6	13.8
	79	14.2	12.3	16.1	13.3	18.0	14.1	19.7	14.7	19.9	14.1	20.2	13.5
	83	14.2	12.3	16.1	13.3	18.0	14.1	19.3	14.7	19.6	13.8	19.9	13.5
	87	14.2	12.3	16.1	13.3	18.0	14.1	19.0	14.2	19.2	13.8	19.6	13.5
18	91	14.2	12.3	16.1	13.3	18.0	14.1	18.7	14.2	18.9	13.5	19.3	13.5
	95	14.2	12.3	16.1	13.3	18.0	14.1	18.4	14.2	18.6	13.5	18.9	13.2
	99	14.2	12.3	16.1	13.3	17.7	14.1	18.0	13.8	18.3	13.5	18.6	13.2
	103	14.2	12.3	16.1	13.3	17.3	13.8	17.7	13.8	17.9	13.5	18.3	12.6
	75	18.9	16.6	21.5	18.2	24.0	18.9	26.5	19.9	27.0	19.1	27.4	18.3
	79	18.9	16.6	21.5	18.2	24.0	18.9	26.2	19.7	26.5	17.0	27.0	18.2
	83	18.9	16.6	21.5	18.2	24.0	18.9	25.8	19.6	26.1	18.6	26.6	18.2
0.4	87	18.9	16.6	21.5	18.2	24.0	18.9	25.3	19.5	25.7	18.6	26.1	17.8
24	91	18.9	16.6	21.5	18.2	24.0	18.9	24.9	19.1	25.2	18.2	25.7	17.9
	95	18.9	16.6	21.5	18.2	24.0	18.9	24.5	18.7	24.8	18.1	25.3	17.9
	99	18.9	16.6	21.5	18.2	23.6	18.9	24.0	18.6	24.4	18.3	24.8	17.4
	103	18.9	16.6	21.5	18.2	23.1	18.8	23.6	18.2	23.9	17.9	24.4	17.4
	75	23.7	19.4	26.8	21.1	30.0	22.3	33.2	23.5	33.7	22.4	34.3	21.3
	79	23.7	19.4	26.8	21.1	30.0	22.3	32.8	23.2	33.2	22.1	33.7	21.4
	83	23.7	19.4	26.8	21.1	30.0	22.3	32.2	23.1	32.6	21.6	33.2	20.9
30	87	23.7	19.4	26.8	21.1	30.0	22.3	31.7	22.6	32.1	21.7	32.7	21.0
30	91	23.7	19.4	26.8	21.1	30.0	22.3	31.1	22.1	31.5	21.2	32.1	20.5
	95	23.7	19.4	26.8	21.1	30.0	22.3	30.6	22.2	31.0	21.3	31.6	20.6
	99	23.7	19.4	26.8	21.1	29.5	22.2	30.0	21.7	30.4	20.8	31.0	20.1
	103	23.7	19.4	26.8	21.1	28.9	21.6	29.5	21.5	29.9	20.9	30.5	20.0
	75	28.4	24.6	32.2	26.7	36.0	28.6	39.8	30.1	40.4	28.8	41.1	28.0
	79	28.4	24.6	32.2	26.7	36.0	28.6	39.3	29.7	39.8	28.5	40.5	27.6
	83	28.4	24.6	32.2	26.7	36.0	28.6	38.7	29.2	39.1	27.9	39.8	27.3
36	87	28.4	24.6	32.2	26.7	36.0	28.6	38.0	28.9	38.5	27.9	39.2	27.3
	91	28.4	24.6	32.2	26.7	36.0	28.6	37.4	28.9	37.8	27.6	38.5	26.8
	95	28.4	24.6	32.2	26.7	36.0	28.6	36.7	28.6	37.2	27.2	37.9	26.4
	99	28.4	24.6	32.2	26.7	35.3	28.6	36.1	28.0	36.5	27.2	37.2	26.1
	103	28.4	24.6	32.2	26.7	34.7	28.0	35.4	27.7	35.9	26.9	36.6	26.1
	75 70	37.9	30.2	42.9	33.1	48.0	35.3	53.1	37.4	53.9	35.9	54.9	34.3
	79	37.9	30.2	42.9	33.1	48.0	35.3	52.4	36.9	53.0	35.5	54.0	33.8
	83	37.9 37.9	30.2	42.9	33.1	48.0	35.3	51.5	36.3	52.2	35.0	53.1	33.9
48	87		30.2	42.9	33.1	48.0	35.3	50.7	36.1	51.3	34.6	52.3	33.5
	91	37.9	30.2	42.9	33.1	48.0	35.3	49.8	35.6	50.4	34.3	51.4	33.0
	95	37.9	30.2	42.9	33.1	48.0	35.3	48.9	35.2	49.6	33.8	50.5	32.6
1	99	37.9	30.2	42.9	33.1	47.1	35.2	48.1	34.9	48.7	33.4	49.7	32.3
	103	37.9	30.2	42.9	33.1	46.3	34.6	47.2	34.5	47.8	32.9	48.8	31.8

TC: Total capacity; MBh SHC: Sensible heat capacity; MBh

EDUS391000-F1 Capacity Tables

6.2 Heating Capacity

FXFQ-P

[Heating Capacity]

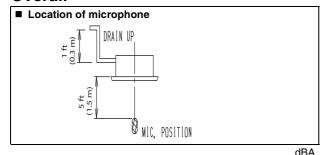
			Indoor Air Temp. °FDB					
Indoor Unit	Outdoor A	Air Temp.	62 TC	65 TC	68 TC	70 TC	72 TC	75 TC
	°FDB	°FWB	MBh	MBh	MBh	MBh	MBh	MBh
	22.0	20.0	9.3	9.3	9.3	9.3	9.3	9.2
	26.0	24.0	9.9	9.8	9.8	9.8	9.8	9.5
	30.0 35.0	28.0 32.0	10.4 11.1	10.4 11.0	10.4 10.9	10.4 10.5	10.1 10.1	9.5 9.5
	39.0	36.0	11.1	11.5	10.9	10.5	10.1	9.5
09	44.0	40.0	12.2	11.5	10.9	10.5	10.1	9.5
	47.0	43.0	12.2	11.5	10.9	10.5	10.1	9.5
	51.0	47.0	12.2	11.5	10.9	10.5	10.1	9.5
	54.0 57.0	50.0 53.0	12.2 12.2	11.5 11.5	10.9 10.9	10.5 10.5	10.1 10.1	9.5 9.5
	60.0	56.0	12.2	11.5	10.9	10.5	10.1	9.5
	22.0	20.0	12.0	12.0	11.9	11.9	11.9	11.9
	26.0	24.0	12.7	12.7	12.6	12.6	12.6	12.3
	30.0 35.0	28.0 32.0	13.4 14.2	13.4 14.2	13.4 14.0	13.4 13.5	13.0 13.0	12.3 12.3
	39.0	36.0	15.1	14.7	14.0	13.5	13.0	12.3
12	44.0	40.0	15.7	14.7	14.0	13.5	13.0	12.3
	47.0	43.0	15.7	14.7	14.0	13.5	13.0	12.3
	51.0 54.0	47.0 50.0	15.7 15.7	14.7 14.7	14.0 14.0	13.5 13.5	13.0 13.0	12.3 12.3
	57.0	53.0	15.7	14.7	14.0	13.5	13.0	12.3
	60.0	56.0	15.7	14.7	14.0	13.5	13.0	12.3
	22.0	20.0	17.8	17.7	17.7	17.7	17.6	17.6
	26.0	24.0	18.8	18.7	18.7	18.7	18.7	18.1
	30.0 35.0	28.0 32.0	19.9 21.1	19.8 21.0	19.8 20.7	19.8 20.0	19.3 19.3	18.1 18.1
	39.0	36.0	22.3	21.9	20.7	20.0	19.3	18.1
18	44.0	40.0	23.3	21.9	20.7	20.0	19.3	18.1
	47.0	43.0	23.3	21.9	20.7	20.0	19.3	18.1
	51.0 54.0	47.0 50.0	23.3 23.3	21.9 21.9	20.7 20.7	20.0 20.0	19.3 19.3	18.1 18.1
	57.0	53.0	23.3	21.9	20.7	20.0	19.3	18.1
	60.0	56.0	23.3	21.9	20.7	20.0	19.3	18.1
	22.0	20.0	24.0	23.9	23.9	23.9	23.8	23.8
	26.0 30.0	24.0 28.0	25.4 26.9	25.3 26.8	25.3 26.8	25.2 26.7	25.2 26.0	24.5 24.5
	35.0	32.0	28.5	28.4	28.0	27.0	26.0	24.5
	39.0	36.0	30.2	29.5	28.0	27.0	26.0	24.5
24	44.0	40.0	31.5	29.5	28.0	27.0	26.0	24.5
	47.0	43.0	31.5	29.5	28.0	27.0	26.0	24.5 24.5
	51.0 54.0	47.0 50.0	31.5 31.5	29.5 29.5	28.0 28.0	27.0 27.0	26.0 26.0	24.5
	57.0	53.0	31.5	29.5	28.0	27.0	26.0	24.5
	60.0	56.0	31.5	29.5	28.0	27.0	26.0	24.5
	22.0	20.0	30.2	30.1	30.1	30.0	30.0	29.9
	26.0 30.0	24.0 28.0	31.9 33.8	31.9 33.7	31.8 33.7	31.8 33.7	31.7 32.7	30.9 30.9
	35.0	32.0	35.8	35.8	35.3	34.0	32.7	30.9
	39.0	36.0	38.0	37.1	35.3	34.0	32.7	30.9
30	44.0	40.0	39.7	37.1	35.3	34.0	32.7	30.9
	47.0 51.0	43.0 47.0	39.7 39.7	37.1 37.1	35.3 35.3	34.0 34.0	32.7 32.7	30.9 30.9
	54.0	50.0	39.7	37.1	35.3	34.0	32.7	30.9
	57.0	53.0	39.7	37.1	35.3	34.0	32.7	30.9
	60.0	56.0	39.7	37.1	35.3	34.0	32.7	30.9
	22.0 26.0	20.0 24.0	35.5 37.6	35.4 37.5	35.4 37.4	35.3 37.4	35.3 37.3	35.2 36.3
	30.0	28.0	37.6	37.5	37.4	37.4	37.3	36.3
	35.0	32.0	42.2	42.1	41.5	40.0	38.5	36.3
	39.0	36.0	44.7	43.7	41.5	40.0	38.5	36.3
36	44.0	40.0	46.7	43.7	41.5	40.0	38.5	36.3
	47.0 51.0	43.0 47.0	46.7 46.7	43.7 43.7	41.5 41.5	40.0 40.0	38.5 38.5	36.3 36.3
	54.0	50.0	46.7	43.7	41.5	40.0	38.5	36.3
	57.0	53.0	46.7	43.7	41.5	40.0	38.5	36.3
	60.0	56.0	46.7	43.7	41.5	40.0	38.5	36.3
	22.0	20.0	48.0	47.9 50.6	47.8 50.5	47.7 50.5	47.7 50.4	47.6 40.0
	26.0 30.0	24.0 28.0	50.7 53.7	50.6 53.6	50.5 53.5	50.5 53.4	50.4 52.0	49.0 49.0
	35.0	32.0	56.9	56.8	56.0	54.0	52.0	49.0
	39.0	36.0	60.3	59.0	56.0	54.0	52.0	49.0
48	44.0	40.0	63.0	59.0	56.0	54.0	52.0	49.0
	47.0 51.0	43.0	63.0	59.0	56.0	54.0	52.0	49.0
	51.0	47.0	63.0	59.0	56.0	54.0	52.0	49.0
		50.0	63 N	5901	56.0	24 ()	52 ロエ	4911
	54.0 57.0	50.0 53.0	63.0 63.0	59.0 59.0	56.0 56.0	54.0 54.0	52.0 52.0	49.0 49.0 49.0

TC :Total capacity ; MBh

Sound Levels (Reference) EDUS391000-F1

7. Sound Levels (Reference)

7.1 Overall



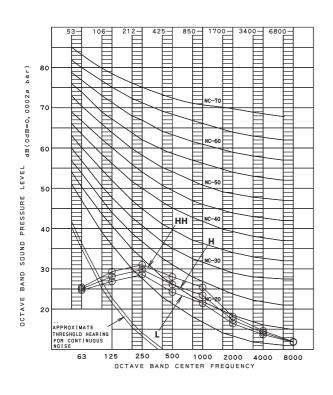
			aba				
Model	2	208-230V, 60Hz					
	HH	Н	L				
FXFQ09PVJU	30	28	27				
FXFQ12PVJU	30	28	27				
FXFQ18PVJU	32	30	27				
FXFQ24PVJU	36	32	28				
FXFQ30PVJU	38	35	31				
FXFQ36PVJU	44	38	32				
FXFQ48PVJU	45	40	34				

Notes:

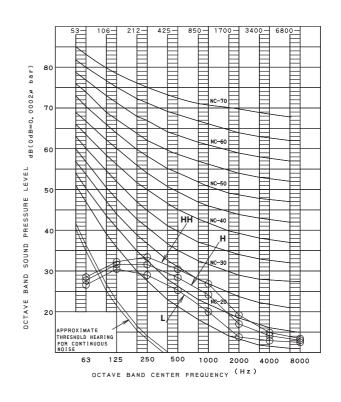
- The operating conditions are assumed to be standard (JIS conditions). Power source 208-230V, 60hz.
- 2. The operating values were obtained in an anechoic chamber (conversion values).
- Sound levels will vary depending on a range of factors such as the construction (acoustic absorption coefficient) of the particular room in which the equipment is installed.

7.2 Octave Band Level

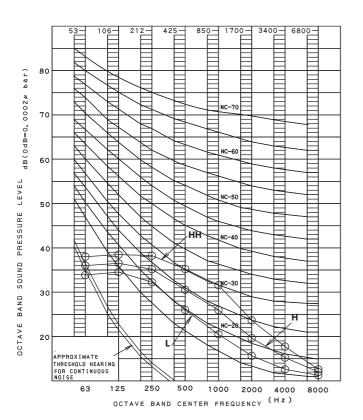
FXFQ09/12PVJU



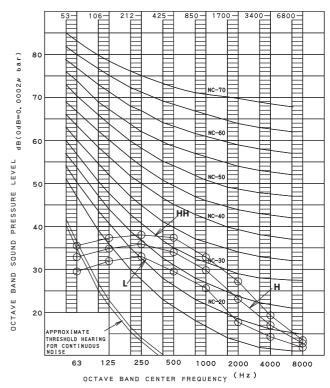
FXFQ18PVJU



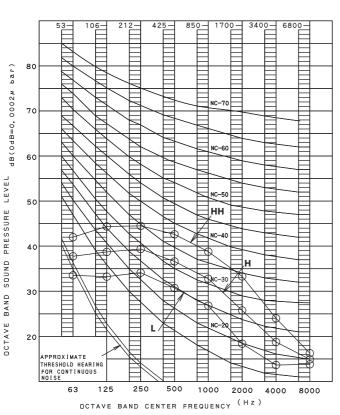
FXFQ24PVJU



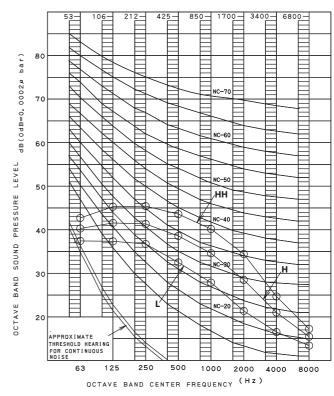
FXFQ30PVJU



FXFQ36PVJU



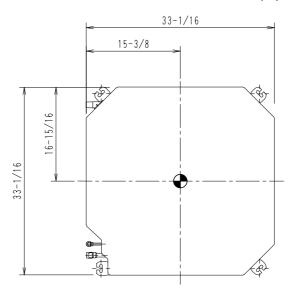
FXFQ48PVJU

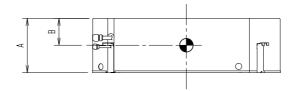


Center of Gravity EDUS391000-F1

8. Center of Gravity







MODEL NAME	А	В
FXFQ09~30PVJU	9-11/16	3-9/16
FXFQ36·48PVJU	11-5/16	4-3/4

4D070529

Installation 9.



VRV SYSTEM Inverter Heat Pump

Installation manual

CONTENTS

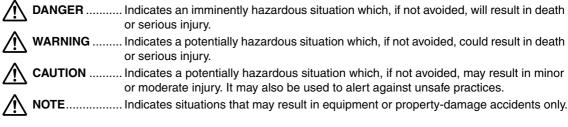
1.	SAFETY CONSIDERATIONS	1
	BEFORE INSTALLATION	
3.	SELECTING INSTALLATION SITE	6
4.	PREPARATIONS BEFORE INSTALLATION	7
5.	INDOOR UNIT INSTALLATION	9
6.	REFRIGERANT PIPING WORK	10
7.	DRAIN PIPING WORK	13
8.	ELECTRIC WIRING WORK	16
9.	WIRING EXAMPLE AND HOW TO SET THE REMOTE CONTROLLER	17
10.	INSTALLATION OF THE DECORATION PANEL	24
11.	FIELD SETTING	24
12.	TEST OPERATION	26

1. SAFETY CONSIDERATIONS

Read these "SAFETY CONSIDERATIONS for Installation" carefully before installing air conditioning equipment. After completing the installation, make sure that the unit operates properly during the startup operation. Instruct the customer on how to operate and maintain the unit. Inform customers that they should store this Installation Manual with the Operation Manual for future reference.

Always use a licensed installer or contractor to install this product. Improper installation can result in water or refrigerant leakage, electrical shock, fire, or explosion.

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





— /!\ DANGER -

- 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 in 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.

English 1

3P161684-5H

 Safely dispose all packing and transportation materials in accordance with federal/state/local laws or ordinances. Packing materials such as nails and other metal or wood parts, including plastic packing materials used for transportation may cause injuries or death by suffocation.

-∕!\ WARNING

- · Only qualified personnel must carry out the installation work. Installation must be done in accordance with this installation manual. Improper installation may result in water leakage, electric shock, or fire.
- When installing the unit in a small room, take measures to keep the refrigerant concentration from exceeding allowable safety limits. Excessive refrigerant leaks, in the event of an accident in a closed ambient space, can lead to oxygen deficiency.
- · Use only specified accessories and parts for installation work. Failure to use specified parts may result in water leakage, electric shocks, fire, or the unit falling.
- Install the air conditioner on a foundation strong enough that it can withstand the weight of the unit. A foundation of insufficient strength may result in the unit falling and causing injuries.
- Take into account strong winds, typhoons, or earthquakes when installing. Improper installation may result in the unit falling and causing accidents.
- · Make sure that a separate power supply circuit is provided for this unit and that all electrical work is carried out by qualified personnel according to local, state, and national regulations. An insufficient power supply capacity or improper electrical construction may lead to electric shocks or fire.
- · Make sure that all wiring is secured, that specified wires are used, and that no external forces act on the terminal connections or wires. Improper connections or installation may result in fire.
- When wiring, position the wires so that the control box lid can be securely fastened. Improper positioning of the control box lid may result in electric shocks, fire, or the terminals overheating.
- · Before touching electrical parts, turn off the unit.
- Be sure to install a ground fault circuit interrupter if one is not already available. This helps prevent electrical shocks or fire.
- Securely fasten the outside unit terminal cover (panel). If the terminal cover/panel is not installed properly, dust or water may enter the outside unit causing fire or electric shock.
- When installing or relocating the system, keep the refrigerant circuit free from substances other than the specified refrigerant (R410A) such as air. Any presence of air or other foreign substance in the refrigerant circuit can cause an abnormal pressure rise or rupture, resulting in injury.
- Do not change the setting of the protection devices. If the pressure switch, thermal switch, or other protection device is shorted and operated forcibly, or parts other than those specified by Daikin are used, fire or explosion may occur.

-/!\ 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.
- 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.
- Heat exchanger fins are sharp enough to cut. To avoid injury wear glove or cover the fins when working around them.
- Install drain piping to proper drainage. Improper drain piping may result in water leakage and property dam-
- 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.

2 **English**

3P161684-5H

- Refrigerant R410A 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 -- R410A does not contain any chlorine, does not destroy the ozone layer, and does not reduce the earth's protection again harmful ultraviolet radiation. R410A can contribute to the greenhouse effect if it is released. Therefore take proper measures to check for the tightness of the refrigerant piping installation. Read the chapter Refrigerant Piping and follow the procedures.
- Since R410A is a blend, the required additional refrigerant must be charged in its liquid state. If the refrigerant is charged in a state of gas, its composition can change and the system will not work properly.
- The indoor unit is for R410A. See the catalog for indoor models that can be connected. Normal operation is not possible when connected to other units.
- Indoor units are for indoor installation only. Outdoor units can be installed either outdoors or indoors.
- Do not install the air conditioner in the following locations:
 - (a) Where a mineral oil mist or oil spray or vapor is produced, for example, in a kitchen. Plastic parts may deteriorate and fall off or result in water leakage.
 - (b) Where corrosive gas, such as sulfurous acid gas, is produced. Corroding copper pipes or soldered parts may result in refrigerant leakage.
- (c) Near machinery emitting electromagnetic waves.

 Electromagnetic waves may disturb the operation of the control system and cause the unit to malfunction.
- (d) Where flammable gas may leak, where there is carbon fiber, or ignitable dust suspension in the air, or where volatile flammables such as thinner or gasoline are handled. Operating the unit in such conditions can cause a fire.
- Take adequate measures to prevent the outside unit from being used as a shelter by small animals. Small animals making contact with electrical parts can cause malfunctions, smoke, or fire. Instruct the customer to keep the area around the unit clean.



- Install the power supply and control wires for the indoor and outdoor units at least 3.5 feet away from televisions or radios to prevent image interference or noise. Depending on the radio waves, a distance of 3.5 feet may not be sufficient to eliminate the noise.
- Dismantling the unit, treatment of the refrigerant, oil and additional parts must be done in accordance with the relevant local, state, and national regulations.
- Do not use the following tools that are used with conventional refrigerants: gauge manifold, charge hose, gas leak detector, reverse flow check valve, refrigerant charge base, vacuum gauge, or refrigerant recovery equipment.
- If the conventional refrigerant and refrigerator oil are mixed in R410A, the refrigerant may deteriorate.
- This air conditioner is an appliance that should not be accessible to the general public.
- The wall thickness of field-installed pipes should be selected in accordance with the relevant local, state, and national regulations.

2. BEFORE INSTALLATION

Do not exert pressure on the resin parts when opening the unit or when moving it after opening. Be sure to check the type of R410A refrigerant to be used before doing any work. (Using an incorrect refrigerant will prevent normal operation of the unit.)

- When opening the unit or moving it after opening, be sure to lift it by holding on to the lifting lugs without exerting any pressure on other parts, especially, drain piping, and other resin parts.
- · Decide upon a line of transport.
- Leave the unit inside its packaging while moving, until reaching the installation site. Use a sling of soft material, where unpacking is unavoidable or protective plates together with a rope when lifting, to avoid damage or scratches to the unit.
- Refer to the installation manual of the outdoor unit for items not described in this manual.
- Do not dispose of any parts necessary for installation until the installation is complete.

English 3

3P161684-5H

1. PRECAUTIONS

- Be sure to read this manual before installing the indoor unit.
- When selecting installation site, refer to the paper pattern.
- This unit is suitable for installation in a household, commercial and light industrial environment.
- Do not install or operate the unit in rooms mentioned below.
 - Laden with mineral oil, or filled with oil vapor or spray like in kitchens. (Plastic parts may deteriorate.)
 - Where corrosive gas like sulfurous gas exists. (Copper tubing and brazed spots may corrode.)
 - Where volatile flammable gas like thinner or gasoline is used.
 - Where machines can generate electromagnetic waves. (Control system may malfunction.)
 - Where the air contains high levels of salt such as that near the ocean and where voltage fluctuates greatly such as that in factories. Also in vehicles or vessels.

2. ACCESSORIES

Check the following accessories are included with your unit.

Name	(1) Drain hose	(2) Metal clamp	(3) Washer for hanger bracket	(4) Clamp	(5) Paper pattern for installation
Quantity	1 pc.	1 pc.	8 pcs.	6 pcs.	1 pc.
Shape			0		Also used as packing material

Name	(6) Screw (M4)	(7) Washer fixing plate	Insulation for fitting	S	Sealing pad	
Quantity	4 pcs.	4 pcs.	1 each	1 each	1 pc.	1 pc.
Shape	For paper pattern for installation		(8) for gas pipe (9) for liquid pipe	(10) Large (11) Medium-1 (12) Medium-2	(13) Small	(14)

Name	Installation guide	Insulation tube	Conduit mounting plate	
Quantity	1 pc.	1 pc.	1 each	(Other)
Shape	(15)	(16)	(17) (18)	Installation manual Operation manual

4 English

3P161684-5H

3. OPTIONAL ACCESSORIES

• The optional decoration panel and remote controller are required for this indoor unit. (Refer to Table 1, 2) (However, the remote controller is not required for the slave unit of a simultaneous operation system.)

Table 1

Unit model	Optional decoration panel	
FXFQ09 · 12 · 18 · 24 · 30 · 36 · 48PVJU	BYCP125K-W1	
FAFQ09 · 12 · 10 · 24 · 30 · 30 · 40F VJU	Color : Fresh white	

• These are two types of remote controllers: wired and wireless. Select a remote controller from Table 2 according to customer request and install in an appropriate place.

Table 2

Remote controller		
Wired type	BRC1E71	
Wireless type	BRC7F812	

NOTE TO

• If you wish to use a remote controller that is not listed in "Table 2" on page 5, select a suitable remote controller after consulting catalogs and technical materials.

FOR THE FOLLOWING ITEMS, TAKE SPECIAL CARE DURING CONSTRUCTION AND CHECK AFTER INSTALLATION IS FINISHED.

1. Items to be checked after completion of work

Items to be checked	If not properly done, what is likely to occur	Check
Are the indoor unit and outdoor unit fixed firmly?	The unit may drop, vibrate or make noise.	
Is the outdoor unit fully installed?	The unit may malfunction or the components burn out.	
Is the gas leak test finished?	It may result in insufficient cooling.	
Is the unit fully insulated?	Condensate water may drip.	
Does drainage flow smoothly?	Condensate water may drip.	
Does the power supply voltage correspond to that shown on the name plate?	The unit may malfunction or the components burn out.	
Are wiring and piping correct?	The unit may malfunction or the components burn out.	
Is the unit safely grounded?	It may result in electric shock.	
Is wiring size according to specifications?	The unit may malfunction or the components burn out.	
Is something blocking the air outlet or inlet of either the indoor or outdoor units?	It may result in insufficient cooling.	
Are refrigerant piping length and additional refrigerant charge noted down?	The refrigerant charge in the system is not clear.	

2. Items to be checked at time of delivery

* Also review the "1. SAFETY CONSIDERATIONS"

Items to be checked	Check
Are the control box lid, air filter, suction grille attached?	
Did you explain about operations while showing the operation manual to your customer?	
Did you hand the operation manual over to your customer?	

English 5

3P161684-5H

Points for explanation about operations

The items with \triangle WARNING and \triangle CAUTION marks in the operation manual are the items pertaining to possibilities for bodily injury and material damage in addition to the general usage of the product. Accordingly, it is necessary that you make a full explanation about the described contents and also ask your customers to read the operation manual.

4. NOTE TO THE INSTALLER

Be sure to instruct customers how to properly operate the unit (especially cleaning filters, operating different functions, and adjusting the temperature) by having them carry out operations themselves while looking at the manual.

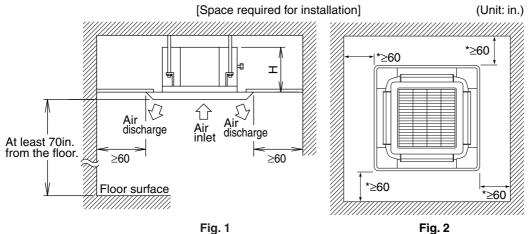
3. SELECTING INSTALLATION SITE

(Hold the unit by the 4 lifting lugs when opening the box and moving it, and do not exert pressure on to any other part piping (refrigerant, drain, etc.) or plastic parts.

If the temperature or humidity inside the ceiling might rise above 86°F or RH 80%, respectively, adding extra insulation to the main unit body may be required.

Use glass wool or polyethylene foam as insulation and make sure it is at least 3/8in. thick and fits inside the ceiling opening.) The direction this product blows can be selected. However, a separately sold shut-off material kit is needed in order to make the unit blow in two, three, or four (corner shut-off) directions.

- (1) Select an installation location with the customer's approval which matches the following conditions.
 - A location from which cool (warm) air will reach the whole room.
 - A location with no objects blocking the air passage.
 - A location where drainage can be done with no problem.
 - A location strong enough to support the weight of the indoor unit.
 - · Locations where the wall is not significantly tilted.
 - A location which leaves enough room for installation and service work.
 - A location where there is no risk of flammable gas leaking.
 - A location where the length of the indoor-outdoor piping is no longer than the tolerated length (see the installation manual that came with the outdoor unit for details).



Model	H (in.)
FXFQ09 · 12 · 18 · 24 · 30PVJU	10
FXFQ36 · 48PVJU	11-3/4

6 English

3P161684-5H

-∕i∕ CAUTION

· The indoor and outdoor units and the power supply wiring and remote controller cord must be installed at least 40in. away from any televisions or radios. This is to prevent interference with picture and sound reception. (Interference may occur even at 40in. away depending on the reception quality.)

 If installing the wireless kit, the distance of the signal sent from the remote controller might be shorter if there are fluorescent lights which are electrically started (such as with inverters, rapid starters, etc.) in the room. The indoor unit should be installed as far away from fluorescent lights as possible.

(2) Ceiling height

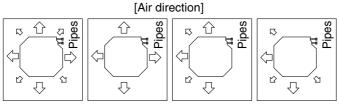
This product can be installed in ceilings up to 11-1/2ft. high (13-3/4ft. high for the 36 and 48). If the ceiling height is 8-3/4ft. (10-1/2ft. for the 36 and 48) or more, field settings will have to be made with the remote controller. See "11. FIELD SETTING" for details.

(3) Air direction

The air direction shown in Fig. 3 is an example.

Select the appropriate number of directions according to the shape of the room and the location of the unit. (Field settings have to be made using the remote controller and the outlet vents have to be shut off if two, three, or four (corner shut-off) directions are selected. See the shut-off materials (sold separately) installation manual for details.)

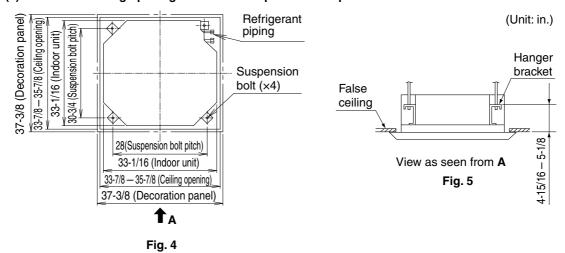
(4) Use suspension bolts for installation. Check if the location for the installation is strong enough to support the weight of the unit, reinforce it if necessary, and install using suspension bolts. (The spacing of the installation is shown on the "paper pattern for installation (5)".)



All-round air Four air direction Three air direction Two air direction Fig. 3

4. PREPARATIONS BEFORE INSTALLATION

(1) Relation of ceiling opening to unit and suspension bolt position.

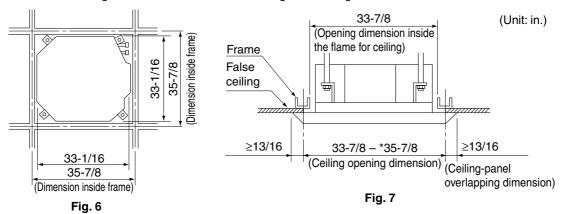


English 7

3P161684-5H

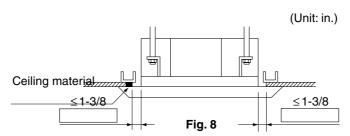
■ Installation is possible when ceiling opening dimensions is as follows

• When installing the unit within the frame for fixing false ceiling.



NOTE **

Installation is possible with a ceiling dimension of 35-7/8in. (marked with *). However, to achieve a ceiling-panel overlapping dimension of 13/16in., the spacing between the ceiling and the unit should be 1-3/8in. or less.

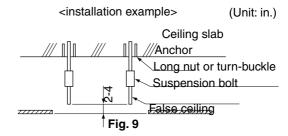


(2) Make the ceiling opening needed for installation where applicable. (For existing ceilings)

- Refer to the paper pattern for installation (5) for ceiling opening dimensions.
- Create the ceiling opening required for installation. From the side of the opening to the casing outlet, implement the refrigerant and drain piping and wiring for remote controller (unnecessary for wireless type) and indoor-outdoor unit casing outlet. Refer to "6. REFRIGERANT PIPING WORK", "7. DRAIN PIPING WORK" and "8. ELECTRIC WIRING WORK".
- After making an opening in the ceiling, it may be necessary to reinforce ceiling beams to keep the ceiling level and to prevent it from vibrating. Consult the builder for details.

(3) Install the suspension bolts.

(Use either a M8~M10 size bolt or the equivalent) Use a hole-in anchor for existing ceilings, and a sunken insert, sunken anchor or other field supplied parts for new ceilings to reinforce the ceiling to bear the weight of the unit. Adjust clearance (2-4in.) from the ceiling before proceeding further.



NOTE

• All the above parts are field supplied.

8 English

3P161684-5H

5. INDOOR UNIT INSTALLATION

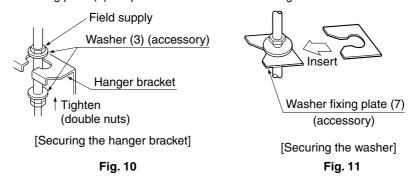
Installing optional accessories (except for the decoration panel) before installing the indoor unit is easier. However, for existing ceilings, install fresh air inlet component kit and branch duct before installing the unit.

As for the parts to be used for installation work, be sure to use the provided accessories and specified parts designated by our company.

(1) For new ceilings

(1-1)Install the indoor unit temporarily.

 Attach the hanger bracket to the suspension bolt. Be sure to fix it securely by using a nut and washer (3) from the upper and lower sides of the hanger bracket.
 The washer fixing plate (7) will prevent the washer from falling.



(1-2)Refer to the paper pattern for installation (5) for ceiling opening dimension.

Consult the builder or carpenter for details.

- The center of the ceiling opening is indicated on the paper pattern for installation.

 The center of the unit is indicated on the triangular mark to the unit bottom and on the paper pattern for installation.
- Fix the paper pattern to the unit with screws (6) (×4).
- Ceiling height is shown on the side of the paper pattern for installation (5). Adjust the height of the unit according to this indication.

Please perform one of the following, as the shape of the paper pattern for installation differs according to the model.

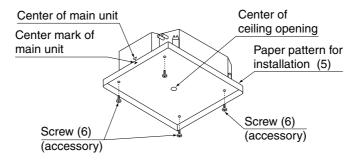


Fig. 12

[Installation of paper pattern for installation]

English 9

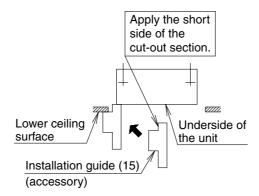
3P161684-5H

<Ceiling work>

(1-3)Adjust the unit to the right position for installation.

(Refer to "4. PREPARATIONS BEFORE INSTALLATION-(1)".)

• Using the Installation guide (15) allows you to check the positions from the underside of the unit to the lower ceiling surface.



(1-4) Check the unit is horizontally level.

 The indoor unit is equipped with a built-in drain pump and float switch. Verify that it is level by using a level or a water-filled vinyl tube.



If the unit is tilted against condensate flow, the float switch may malfunction and cause water to drip.

(1-5)Remove the washer fixing plate (7) used for preventing the washer from falling and tighten the upper nut.

(1-6) Remove the paper pattern for installation (5).

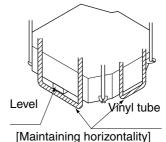


Fig. 13

(2) For existing ceilings

(2-1)Install the indoor unit temporarily.

Perform step (1-1) in (1) For new ceilings.

(2-2)Adjust the height and position of the unit.

(Refer to "4. PREPARATIONS BEFORE INSTALLATION-(1)" and (1-3) in (1) For new ceilings.)

(2-3) Perform steps (1-4), (1-5) in (1) For new ceilings.

6. REFRIGERANT PIPING WORK

(For refrigerant piping of outdoor units, see the installation manual attached to the outdoor unit.)

(Execute heat insulation work completely on both sides of the gas piping and the liquid piping. Otherwise, a water leakage can result sometimes.)

Be sure to use insulation that is designed for use with HVAC Systems.

 \langle Also, in cases where the temperature and humidity of the refrigerant piping sections might exceed 86°F or RH80%, reinforce the refrigerant insulation. (13/16in. or thicker) Condensate may form on the surface of the insulating material. \rangle

(Be sure to check the type of R410A refrigerant to be used before doing any work. (Using an incorrect refrigerant will prevent normal operation of the unit.))

10 English

3P161684-5H



!\ CAUTION

- Use a pipe cutter and flare suitable for the type of refrigerant.
- · Apply ester oil or ether oil around the flare section before connecting.
- To prevent dust, moisture or other foreign matter from infiltrating the tube, either pinch the end or cover it with tape.
- Do not allow anything other than the designated refrigerant to get mixed into the refrigerant circuit, such
 as air, etc. If any refrigerant gas leaks while working on the unit, ventilate the room thoroughly right away.
- Do not mix air or other gas with the specified refrigerant in the refrigeration cycle.
- · Ventilate the room if refrigerant gas leaks during the work.
- The outdoor unit is charged with refrigerant.
- Be sure to use both a spanner and torque wrench together, as shown in the drawing, when connecting or disconnecting pipes to/from the unit. (Refer to Fig. 14)
- Refer to "Table 3" for the dimensions of flare nut spaces.

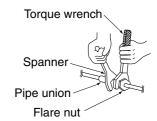


Fig. 14

- When connecting the flare nut, apply ester oil or ether oil to the flare section (outside only), and spin 3-4 times before screwing in. (Refer to Fig. 15)
- Keep all the screw mounting resin parts (e.g., piping presser plates) away from oil.

If oil adheres, the strength of the screw mounting resin parts may drop.



Coat here with ester or etheroil.

- A CAUTION

Over-tightening the flare nut may break it and/or cause the refrigerant to leak.

NOTE TO

• Use the flare nut included with the unit main body.

Table 3

Pipe size	Tightening torque	Flare dimensions A (in.)	Flare shape
φ 1/4	10.4 – 12.7lbf⋅ft.	0.342 - 0.358	À.
ф 3/8	24.1 – 29.4lbf⋅ft.	0.504 - 0.520	R0.016-0.031
φ 1/2	36.5 – 44.5lbf⋅ft.	0.638 - 0.654	96 4
ф 5/8	45.6 – 55.6lbf⋅ft.	0.760 - 0.776	Y

• Refer to "Table 3" to determine the proper tightening torque.

English 11

3P161684-5H

Not recommended but in case of emergency

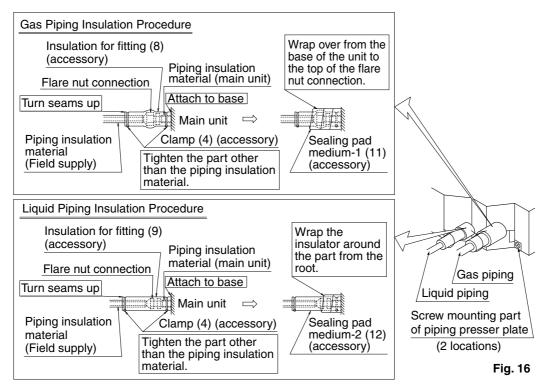
You must use a torque wrench but if you are obliged to install the unit without a torque wrench, you may follow the installation method mentioned below.

When you keep on tightening the flare nut with a spanner, there is a point where the tightening torque suddenly increases. From that position, further tighten the flare nut the angle shown below:

Pipe size	Further tightening angle	Recommended arm length of tool
φ 1/4	60 to 90 degrees Approx. 6in.	
ф 3/8	60 to 90 degrees	Approx. 8in.
φ 1/2	30 to 60 degrees	Approx. 10in.
ф 5/8	30 to 60 degrees	Approx. 12in.

After the work is finished, make sure to check that there is no gas leak.

- Make absolutely sure to execute heat insulation works on the pipe-connecting section after checking gas
 leakage by thoroughly studying the following figure and using the attached heat insulating materials for
 fitting (8) and (9). (Fasten both ends with the clamps (4).) (Refer to Fig. 16)
- Wrap the sealing pad (11) only around the insulation for the joints on the gas piping side. (Refer to Fig. 16)



For field insulation, be sure to insulate field piping all the way into the pipe connections inside the machine. Exposed piping may cause condensation or burns on contact.

12 English

3P161684-5H

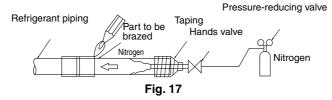
— ⚠ CAUTION

CAUTION TO BE TAKEN WHEN BRAZING REFRIGERANT PIPING

"Do not use flux when brazing refrigerant piping. Therefore, use the phosphor copper brazing filler metal (BCuP-2/B-Cu93P-710/795) which does not require flux."

(Flux has extremely harmful influence on refrigerant piping systems. For instance, if the chlorine based flux is used, it will cause pipe corrosion or, in particular, if the flux contains fluorine, it will damage the refrigerant oil.)

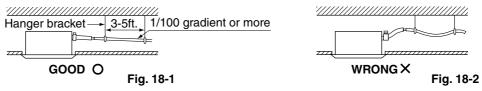
- Before brazing field refrigerant piping, nitrogen gas shall be blown through the piping to expel air from the piping.
 - If your brazing is done without nitrogen gas, a large amount of oxide film develops inside the piping, and could cause system malfunction.
- When brazing the refrigerant piping, only begin brazing while nitrogen is flowing into the refrigerant piping. Once this is done, connect the indoor unit with a flared or a flanged connection.
- Nitrogen should be set to 2.9psi with a pressure-reducing valve if brazing while inserting nitrogen into the piping. (Refer to Fig. 17)



7. DRAIN PIPING WORK

(1) Rig drain piping

- As for drain work, perform piping in such a manner that water can be drained properly.
- Employ a pipe with either the same diameter or with the diameter larger (excluding the riser section) than that of the connecting pipe (PVC pipe, nominal diameter 1in., outside diameter 1-1/4in.).
- Keep the drain pipe short and sloping downwards at a gradient of at least 1/100 to prevent air pockets from forming.
- If the drain pipe cannot be sufficiently set on a slope, execute the drain-rising piping.
- To keep the drain pipe from sagging, space hanger bracket every 3 to 5ft...





Water pooling in the drainage piping can cause the drain to clog.

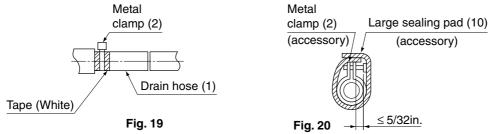
- Use the attached drain hose (1) and metal clamp (2).
- Insert the drain hose into the drain socket up to the base, and tighten the metal clamp securely within the portion of a white tape of the hose-inserted tip. Tighten the metal clamp until the screw head is less than 5/32in. from the hose.
- Wrap the attached sealing pad (10) over the metal clamp and drain hose to insulate.

English 13

3P161684-5H

 Make sure that heat insulation work is executed on the following 2 spots to prevent any possible water leakage due to dew condensation.

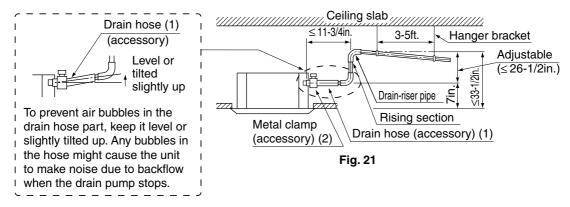
- Indoor drain pipe
- · Drain socket



<PRECAUTIONS FOR DRAIN-RISER PIPING>

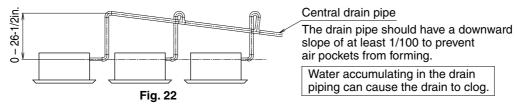
- Install the drain-riser pipes at a height of less than 26-1/2in..

 The drain pump of this unit has a high delivery flow rate. Therefore, the higher the drain-riser height is, the lower the sound of draining will be. For this reason, a minimum drain-rising height of 12in. is recommended.
- Install the drain-riser ipes at a right angle to the indoor unit and no more than 11-3/4in. from the unit.



NOTE TO

- To ensure no excessive pressure is applied to the included drain hose (1), do not bend or twist when installing. (This may cause leakage.)
- If converging multiple drain pipes, install according to the procedure shown below.



Select converging drain pipes whose gauge is suitable for the operating capacity of the unit.

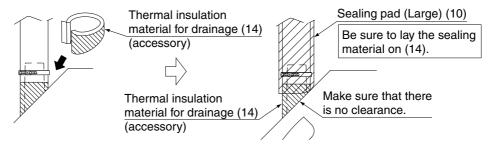
(2) After piping work is finished, check if drainage flows smoothly.

14 English

3P161684-5H

WHEN ELECTRIC WIRING WORK IS FINISHED

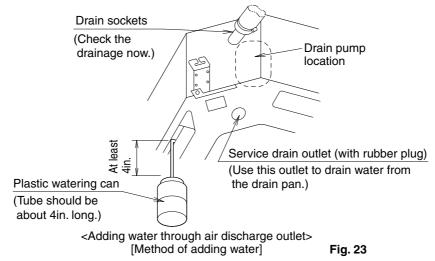
- Add approximately 1/4gal. of water slowly from the air outlet and check drainage flow.
- Check drainage flow during COOL running, explained under "12. TEST OPERATION".
- Refer to the figure on the following after checking the draining of water, and mount the thermal insulation material for drainage (14) and thermal insulate the drain socket.



WHEN ELECTRIC WIRING WORK IS NOT FINISHED

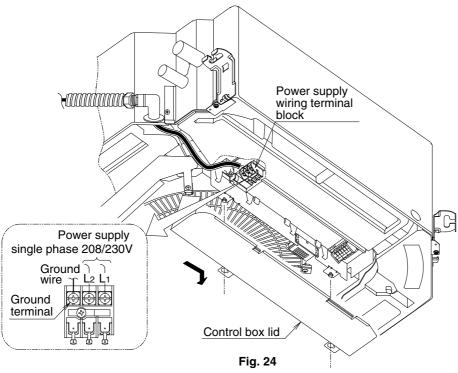
-A CAUTION -

- · Electrical wiring work should be done by a certified electrician.
- If someone who does not have the proper qualifications performs the work, perform the following after the test run is complete.
- Remove the control box lid. Connect the single phase power supply (SINGLE PHASE 60Hz 208/230V) to connections L1 and L2 on the terminal block for wiring the units. Connect the ground wire firmly. When carrying out wiring work around the control box, make sure none of the connectors come undone. Be sure to attach the control box lid before turning on the power.
- Put approximately 1/4gal. of water into the drain pan through the blow-off mouth on the left-hand side of the drain socket. Make sure not to pour water over the drain pump or any electric parts including those of the drain pump.
- When the power is turned on, the drain pump will operate and you can check the draining of water through
 the transparent part of the drain socket. (The drain pump will stop automatically in 10 minutes.)
 After checking the draining of water, mount the thermal insulation material for drainage (14) and thermal
 insulate the drain socket.
- After confirming drainage (Fig. 23, Fig. 24), turn off the power and remove the power supply.
- Attach the control box lid as before.



English 15

3P161684-5H



−/Î\ CAUTION

Drain piping connections

Do not connect the drain piping directly to sewage pipes that smell of ammonia. The ammonia in the sewage might enter the indoor unit through the drain pipes and corrode the heat exchanger.

8. ELECTRIC WIRING WORK

8-1 General instructions

- All field supplied parts and materials and electric works must conform to local codes.
- Use copper wire only.
- For electric wiring work, refer to also "WIRING DIAGRAM" attached to the unit body.
- For remote controller wiring details, refer to the installation manual attached to the remote controller.
- All wiring must be performed by an authorized electrician.
- · A circuit breaker capable of shutting down power supply to the entire system must be installed.
- Refer to the installation manual attached to the outdoor unit for the size of power supply electric wire connected to the outdoor unit, the capacity of the circuit breaker and switch, and wiring instructions.
- Be sure to ground the air conditioner.
- Do not connect the ground wire to gas pipes, plumbing pipes, lightning rods, or telephone ground wires.
 - Gas pipes: might cause explosions or fire if gas leaks.
 - Plumbing: no grounding effect if hard vinyl piping is used.
 - Telephone ground wires or lightning rods: might cause abnormally high electric potential in the ground during lighting storms.

16 English

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8-2 Electrical characteristics

Units				Power supply		Fan motor	
Model	Hz	Volts	Voltage range	MCA	MOP	kW	FLA
FXFQ09PVJU				0.3	15	0.056	0.2
FXFQ12PVJU				0.3	15	0.056	0.2
FXFQ18PVJU			M 050	0.4	15	0.056	0.3
FXFQ24PVJU	60	208/230	Max. 253 Min. 187	0.5	15	0.056	0.4
FXFQ30PVJU			Willia 107	0.6	15	0.056	0.5
FXFQ36PVJU				1.4	15	0.120	1.1
FXFQ48PVJU				1.5	15	0.120	1.2

MCA: Min. Circuit Amps (A) MOP: Maximum Overcurrent Protective Device (A) kW: Fan Motor Rated Output (kW) FLA: Full Load Amps (A)

8-3 Specifications for field supplied fuses and wire

Powe	r supply wiring	Remote controller wiring Transmission wiring		
fuse/breaker —	Size	Wire	Size	
15A		2-conductor, stranded copper cable, non-shielded, PVC or vinyl jacket	AWG18	

Allowable length of transmission wirings and remote controller wiring are as follows.

(1) Outdoor unit - Indoor unit:

Max. 3280ft. (Total wiring length: 6560ft.)

(2) Indoor unit - Remote controller

Max. 1640ft. Field wiring is to be used as a guideline only. Wiring should comply with local & national codes.

1. Vinyl cord with sheath or cable (Insulated thickness: 0.04in. or more)

Field wiring diagram is to be used as a guideline only. Wiring should comply with applicable local and national codes.

9. WIRING EXAMPLE AND HOW TO SET THE REMOTE CONTROLLER

9-1 How to connect wirings

Connection of wiring between units, ground wire and for the remote controller cord (Refer to Fig. 25)

- · Wiring the units and ground wire
 - Remove the control box lid and connect wires of matching number to the terminal block for wiring the units (3 P) inside. And connect the ground wire to the ground terminal. In doing this, pull the wires inside through the hole and fix the wires securely with the included clamp (4) (2 points).
- Remote controller cords (not neccessary for slave unit of simultaneous operation system)
 Remove the control box lid and pull the wires inside through the hole and connect to the terminal block for remote controller (6 P). (no polarity) Securely fix the remote controller cord with the included clamp (4) (2 points).
- After connection, attach sealing pad (13).
- Be sure to attach it to prevent the infiltration of water from the outside.

English 17

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[PRECAUTIONS]

1. Use round crimp-style terminals for connecting wires to the power supply terminal block.

If unavailable, observe the following points when wiring.

- Do not connect wires of different gauge to the same power supply terminal. (Looseness in the connection may cause overheating.)
- Use the specified electric wire. Connect the wire securely to the terminal. Lock the wire down without applying excessive force to the terminal. (Tightening torque: 1lbf-ft. ±10 %)

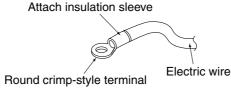


Fig. 25

2. Tightening torque for the terminal screws.

- Use the correct screwdriver for tightening the terminal screws. If the blade of screwdriver is too small, the head of the screw might be damaged, and the screw will not be properly tightened.
- If the terminal screws are tightened too hard, screws might be damaged.
- Refer to the table below for the tightening torque of the terminal screws.

Terminal	Size	Tightening torque
Terminal block for remote controller (6P)	M3.5	0.58 − 0.72lbf·ft
Power supply terminal block (3P)	M4	0.87 − 1.06lbf·ft

When none is available, follow the instructions below.

3. Do not connect wires of different gauge to the same grounding terminal.

Connect wires of the same gauge to both sides.



Do not connect wires of the same gauge to one side.



Fig. 26

Do not connect wires of different gauges.



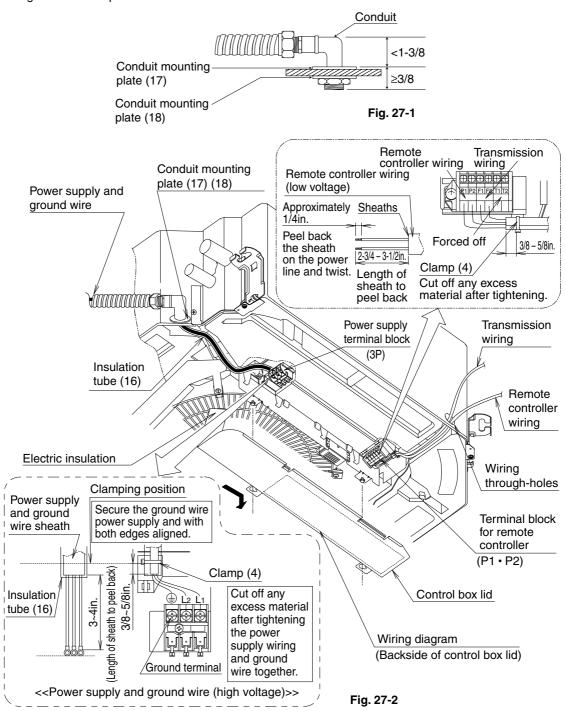
Looseness in the connection may deteriorate protection.

- **4.** Outside of the unit, keep transmission wiring at least 2in. away from power supply wiring. The equipment may malfunction if subjected to electrical (external) noise.
- For remote controller wiring, refer to the "INSTALLATION MANUAL OF REMOTE CONTROLLER." attached to the remote controller.
- 6. Never connect power supply wiring to the terminal block for remote controller. A mistake of this sort could damage the entire system.
- 7. Use only specified wire and tightly connect wires to terminals. Be careful wires do not place external stress on terminals. Keep wiring in neat order and so as not to obstruct other equipment such as popping open the control box lid. Make sure the lid closes tight. Incomplete connections could result in overheating, and in worse case, electric shock or fire.
- 8. Pass the power supply wire through the attached insulation tube (16) between the outlet of conduit and the power supply terminal, and bind them together with the attached clamp (4). (Refer to Fig. 27-2)
- 9. Use a pair of conduit mounting plate (17) and (18) to connect a conduit to the unit as shown Fig. 27-1.

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10. Use a 90° elbow type of conduit with dimensions Fig. 27-1 to prevent it from hitting the swing motor housing of decoration panel.



Observe the notes mentioned below when wiring to the terminal block for wiring the units.

English 19

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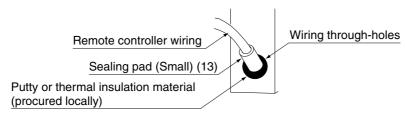


CAUTION

When clamping wiring, use the included clamping material to prevent outside pressure being exerted on the
wiring connections and clamp firmly. When doing the wiring, make sure the wiring is neat and does not
cause the control box lid to stick up, then close the cover firmly.

- When attaching the control box lid, make sure you do not pinch any wires.
- After all the wiring connections are done, fill in any gaps in the through holes with putty or insulation (procured locally) to prevent small animals and insects from entering the unit from outside. (If they get in, they could cause short circuits in the control box.)
- Outside the unit, separate the low voltage wiring (remote controller cord) and high voltage wiring (power supply, ground, and other power wiring) at least 2in. so that they do not pass through the same place together. Proximity may cause electrical interference, malfunctions, and breakage.

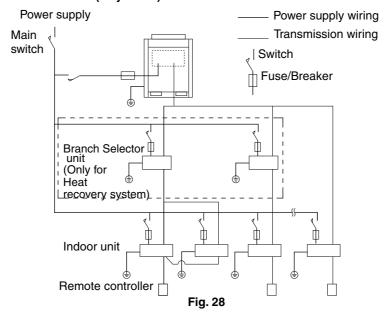
Processing method of wiring through-holes



9-2 Wiring example

• Fit the power supply wiring of each unit with a switch and fuse as shown in the drawing.

COMPLETE SYSTEM EXAMPLE (3 systems)



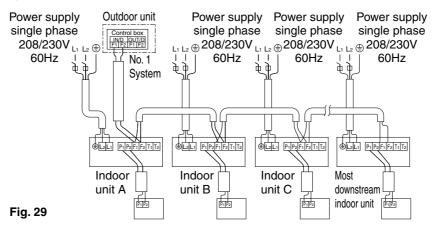
Note:

Field wiring diagram is to be used as a guideline only. Wiring should comply with applicable local and national codes.

20 English

3P161684-5H

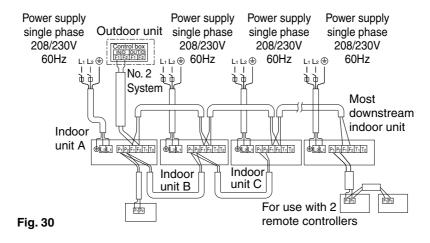
1. When using 1 remote controller for 1 indoor unit. (Normal operation)



2. For group control or use with 2 remote controllers

Note: It is not necessary to designate indoor unit address when using group control.

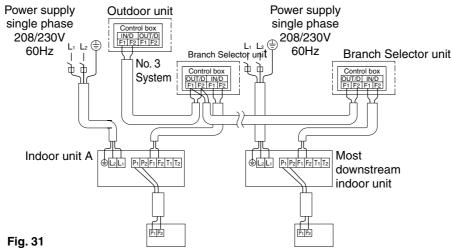
The address is automatically set when power is activated.



English 21

3P161684-5H

3. When including Branch Selector unit



.....

[PRECAUTIONS]

1. Do not ground the equipment on gas pipes, water pipes or lightning rods, or crossground with telephones. Improper grounding could result in electric shock.

9-3 Control by 2 remote controllers (controlling 1 indoor unit by 2 remote controllers)

• When using 2 remote controllers, one must be set to "MAIN" and the other to "SUB".

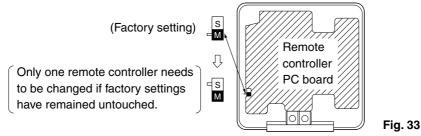
MAIN/SUB CHANGEOVER

- The settings of the BRC1E71 remote controller should be switched while referring to the manual supplied with the remote controller.
- In case of the BRC1D71 remote controller.
- (1) Insert a ⊝ screwdriver into the recess between the upper and lower part of remote controller and, working from the 2 positions, pry off the upper part. (The remote controller PC board is attached to the upper part of remote controller.) (Refer to Fig. 32)
- (2) Turn the main/sub changeover switch on one of the two remote controller PC boards to "S". (Leave the switch of the other remote controller set to "M".) (Refer to Fig. 33)



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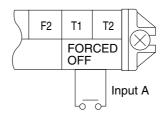


Wiring Method (See "ELECTRIC WIRING WORK")

- (3) Remove the control box lid
- (4) Add remote control 2 (slave) to the terminal block for remote controller (P1, P2) in the control box. (There is no polarity.) (Refer to Fig. 30 and 8-3.)

9-4 Computerised control (forced off and on/off operation)

- (1) Wire specifications and how to perform wiring
 - Connect the input from outside to terminals T1 and T2 of the terminal block for remote controller.



Wire specification	2-conductor, stranded non-shielded copper cable/PVC or vinyl jacket.
Gauge	AWG18
Length	Max. 1640 ft.
External terminal	Contact that can ensure the minimum applicable load of 15 V DC, 1 mA.

(2) Actuation

• The following table explains FORCED OFF and ON/OFF OPERATIONS in response to Input A.

FORCED OFF	ON/OFF OPERATION
Input "ON" stops operation (impossible by remote controllers.)	Input OFF \rightarrow ON turns ON unit.
Input OFF enables control by remote controller.	Input ON \rightarrow OFF turns OFF unit.

- (3) How to select FORCED OFF and ON/OFF OPERATION
 - Turn the power on and then use the remote controller to select operation.

9-5 Centralized control

For centralized control, it is necessary to designate the group No. For details, refer to the manual of each
optional controllers for centralized control.

English 23

3P161684-5H

10. INSTALLATION OF THE DECORATION PANEL

Caution:

With a wireless remote controller, field setting and test operation cannot be performed without attaching the decoration panel.

<If performing a test run without attaching the decoration panel, read "11. FIELD SETTING" and "12. TEST OPERATION" first.>

Refer to the installation manual attached to the decoration panel.

After installing the decoration panel, ensure that there is no space between the unit body and decoration panel.

Since the electric insulation sheet sticked to the control box lid gets sandwiched between the unit body and decoration panel, when closing the lid, slip the insulation sheet between them first and then attach the lid to the control box.

11. FIELD SETTING



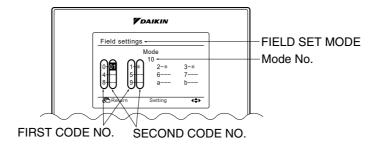
When performing field setting or test operation without attaching the decoration panel, do not touch the drain pump. This may cause electric shock.

• Check that the outdoor unit has been wired properly.

Make sure the control box lids are closed on the indoor and outdoor units.

Field setting must be made from the remote controller and in accordance with installation conditions.

- Setting can be made by changing the "Mode No.", "FIRST CODE NO." and "SECOND CODE NO.".
- For setting procedures and instructions, see "Field settings" provided with the remote controller.



11-1 Setting ceiling height

 Select the SECOND CODE NO. that corresponds to the ceiling height "Table 4". (SECOND CODE NO. is factory set to "01".)

Table 4

		FXFQ	- PVJU	Mode No. FIRST	FIRST	SECOND
		09 · 12 · 18 · 24 · 30 type	36 · 48 type	Note) 1	CODE NO.	CODE NO.
	Standard · All round outlet	≤ 8-3/4	≤ 10-1/2	10 (00)		01
	High ceiling 1	8-3/4 - 10	10-1/2 - 12	13 (23)	0	02
	High ceiling 2	10 - 11-1/2	12 - 13-3/4			03

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Note:

1. "Mode No." setting is done in a batch for the group. To make or confirm settings for an individual unit, set the internal mode number in parentheses.

The figure of the ceiling height is for the all round outlet. For the settings for four-direction (part of corner closed off), three-direction and two-direction outlets, see the installation manual and technical guide supplied with the separately sold closure material kit.

11-2 Setting of air direction

 See the installation manual included with the sealing material of air discharge outlet kit, sold separately and technical guide, for ceiling height settings for two and three-direction air discharge.
 (The SECOND CODE NO. is factory set to "01" (all round outlet) before shipping.)

11-3 Settings for Mounting Options

• When installing an option sold separately, refer to the installation manual provided to the option.

11-4 Setting air filter sign

- Remote controllers are equipped with liquid crystal display air filter signs to display the time to clean air filters.
- Change the SECOND CODE NO. according to "Table 5" depending on the amount of dirt or dust in the room. (SECOND CODE NO. is factory set to "01" for filter contamination-light.)

Table 5

Setting	Spacing time of display air filter sign (long life type)	Mode No.	FIRST CODE NO.	SECOND CODE NO.
Air filter contamination-light	Approx. 2500 hrs		0	01
Air filter contamination-heavy	Approx. 1250 hrs	10 (20)	0	02
No Display			3	02

Note:

- 1. "Mode No." setting is done in a batch for the group. To make or confirm settings for an individual unit, set the internal mode number in parentheses.
- 2. Make settings for "No Display" in cases where no cleaning display is required, e.g., at the time of regular maintenance servicing.
- The air conditioner is provided with a long life filter as a standard accessory. Explain to the customer the necessity of cleaning the filter periodically along with the set time for filter cleaning for the prevention of clogging.

When using wireless remote controllers

- When using wireless remote controllers, wireless remote controller address setting is necessary. Refer to the installation manual attached to the wireless remote controller for setting instructions.
- Set the remote controller to the field set mode. For details, refer to the "HOW TO SET IN THE FIELD", in the remote controller manual.
- When in the field set mode, select mode No. 12, then set the first code (switch) No. to "1". Then set second code (position) No. to "01" for FORCED OFF and "02" for ON/OFF OPERATION. (FORCED OFF at factory set)

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12. TEST OPERATION

Refer to the installation manual of the outdoor unit.

• The operation lamp of the remote controller will flash when an malfunction occurs. Check the malfunction code on the liquid crystal display to identify the point of trouble. An explanation of malfunction codes and the corresponding trouble is provided in "CAUTION FOR SERVICING" of the indoor unit. If any of the items in "Table 6" are displayed, there may be a problem with the wiring or power, so check the wiring again.

Table 6

Remote control display	Content
"Concentrated Management" is lit up	• There is a short circuit at the FORCED OFF terminals (T1, T2).
"U4" is lit up "UH" is lit up	The power on the outdoor unit is off. The outdoor unit has not been wired for power supply. Incorrect wiring for the transmission wiring and / or FORCED OFF wiring.
No display	 The power on the indoor unit is off. The indoor unit has not been wired for power supply. Incorrect wiring for the remote controller wiring, the transmission wiring, and / or the FORCED OFF wiring.

- If the decoration panel is installed on the indoor unit during the test run, check the operation of the swing flap on the panel.
- In order to protect the indoor unit, instruct the customer not to operate the air conditioner until the interior work is completed if the interior work has not been finished at the end of the test run. (If the air conditioner is operated, substances discharged from the paint, adhesive, etc. can contaminate the indoor unit, and they may cause splashing or leakage of water.)

NOTE TO

• After the test run is finished, check the items listed in "2. Items to be checked at time of delivery".

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EDUS391000-F1 Accessories

10. Accessories

Standard Accessories

Name	(1) Drain hose	(2) Metal clamp	(3) Washer for hanger bracket	(4) Clamp	(5) Paper pattern for installation
Quantity	1 pc.	1 pc.	8 pcs.	6 pcs.	1 pc.
Shape					Also used as packing material

Name	(6) Screw (M4)	(7) Washer fixing plate	Insulation for fitting	Sealing pad		
Quantity	4 pcs.	4 pcs.	1 each	1 each	1 pc.	1 pc.
Shape	For paper pattern for installation		(8)for gas pipe (9)for liquid pipe	(10) Large (11) Medium-1 (12) Medium-2	(13) Small	(14)

Name	Installation guide	Insulation tube	Conduit mounting plate	
Quantity	1 pc.	1 pc.	1 each	(Other)
Shape	(15)	(16)	(17) (18)	Installation manual Operation manual

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Optional Accessories (For Unit)

Item		Model	FXFQ9PVJU	FXFQ12PVJU	FXFQ18PVJU	FXFQ24PVJU	FXFQ30PVJU	FXFQ36PVJU	FXFQ48PVJU
Decoratio	n panel	BYCP125K-W1							
Sealing m	nember of air discha	arge outlet				KDBH55K160F			
Panel spa	icer					KDBP55H160FA			
Filter related	Replacement long life filter	Non- woven type		KAFP551K160					
Fresh air Chamber type Without T- joint pipe and fan						KDDP55B160			
intake kit		With T-joint	ipe without fan KDDP55B160K						
Branch duct chamber KDJP55B80 KDJP			KDJP5	55B160					
Chamber	Chamber connection kit KKSJ55KA160								

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Optional Accessories (For Controls): Refer to booklet of "Controls".



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About ISO 9001

ISO 9001 is a plant certification system defined by the International Organization for Standardization (ISO) relating to quality assurance. ISO 9001 certification covers quality assurance aspects related to the "design, development, manufacture installation, and supplementary service" of products manufactured at the plant.



EC99J2044

-About ISO 14001

ISO 14001 is the standard defined by the International Organization for Standardization (ISO) relating to environmental management systems. Our group has been acknowledged by an internationally accredited program of environmental protection procedures and activities to meet the requirements of ISO 14001.

Dealer

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