



*EDUS391000 - F12*

**R-410A**

# Engineering Data

## **FXTQ-PA Air Handling Unit**



**DAIKIN AC (AMERICAS), INC.**

# **FXTQ-PA**

## **Air Handling Unit**

1. Specifications .....	2
2. Dimensions .....	4
3. Piping Diagrams.....	6
4. Wiring Diagrams.....	7
5. Electric Characteristics.....	8
5.1 Indoor Unit.....	8
5.2 Electric Heater.....	9
6. Capacity Tables .....	10
6.1 Cooling Capacity .....	10
6.2 Heating Capacity .....	11
7. Airflow Auto Adjustment Characteristics .....	12
8. Installation .....	14
9. Accessories.....	31

# 1. Specifications

## Air Handling Unit

Model		FXTQ12PAVJU	FXTQ18PAVJU	FXTQ24PAVJU	FXTQ30PAVJU	
Power Supply		1 phase, 208/230V, 60Hz				
★1, ★3 Cooling capacity	Btu/h	12,000	18,000	24,000	30,000	
★2, ★3 Heating capacity	Btu/h	13,500	20,000	27,000	34,000	
Dimensions: (H×W×D)		in (mm) 46-3/4 × 19-1/2 × 22 (1187 x 495 x 559)		53-1/4 × 22 × 24 (1353 x 559 x 609)		
Coil	Type	Cross fin coil				
	Rows×Stages×FPI	6 × 14 × 15		4 × 22 × 15		
	Face area	ft <sup>2</sup> (m <sup>2</sup> )	3.30 (1)	6.02 (1.8)		
Fan	Model	ECM (1/2HP)		ECM (3/4HP)		
	Type	Sirocco fan				
	Motor output	HP	1/2	3/4		
	Airflow rate (H/L)	CFM	400/280	600/420	800/560	1,000/700
	External static pressure	"Wg	Up to 0.5			
	Drive		Direct drive			
Temperature control		Microprocessor thermostat for cooling and heating				
Air filter		— ★4				
Weight		lbs (kg)	121 (55)	149 (67.6)		
Piping connections	Liquid	in (mm)	φ1/4 (6.4) (Brazed)	φ3/8 (9.5) (Brazed)		
	Gas	in (mm)	φ1/2 (12.7) (Brazed)	φ5/8 (15.8) (Brazed)		
	Drain	in (mm)	φ3/4 (19.1) ★5			
Safety devices		Fuse, Fan driver overload protector				
Refrigerant control		Electronic expansion valve				
Connectable outdoor unit		R-410A VRV Series				
Standard accessories		Operation manual, Installation manual				
Drawing No.		C: 3D068193				

### 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°C)  
Equivalent ref. piping: 25ft (7.5 m) (Horizontal)
- ★ 2 Nominal heating capacities are based on the following conditions:  
Return air temperature: 70°FDB (21°C)  
Outdoor temperature: 47°FDB (8.3°CDB) , 43°FWB (6.1°CWB)  
Equivalent ref. piping: 25ft (7.5 m) (Horizontal)  
★1 and ★2 are the performance for vertical installation.  
For horizontal installation, capacity could decrease by about 10%.
- ★ 3 Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.
- ★ 4 Air filter is not standard accessory, but please mount it in the duct system of the suction side.
- ★ 5 A field-supplied secondary drain pan may be required.

**Air Handling Unit**

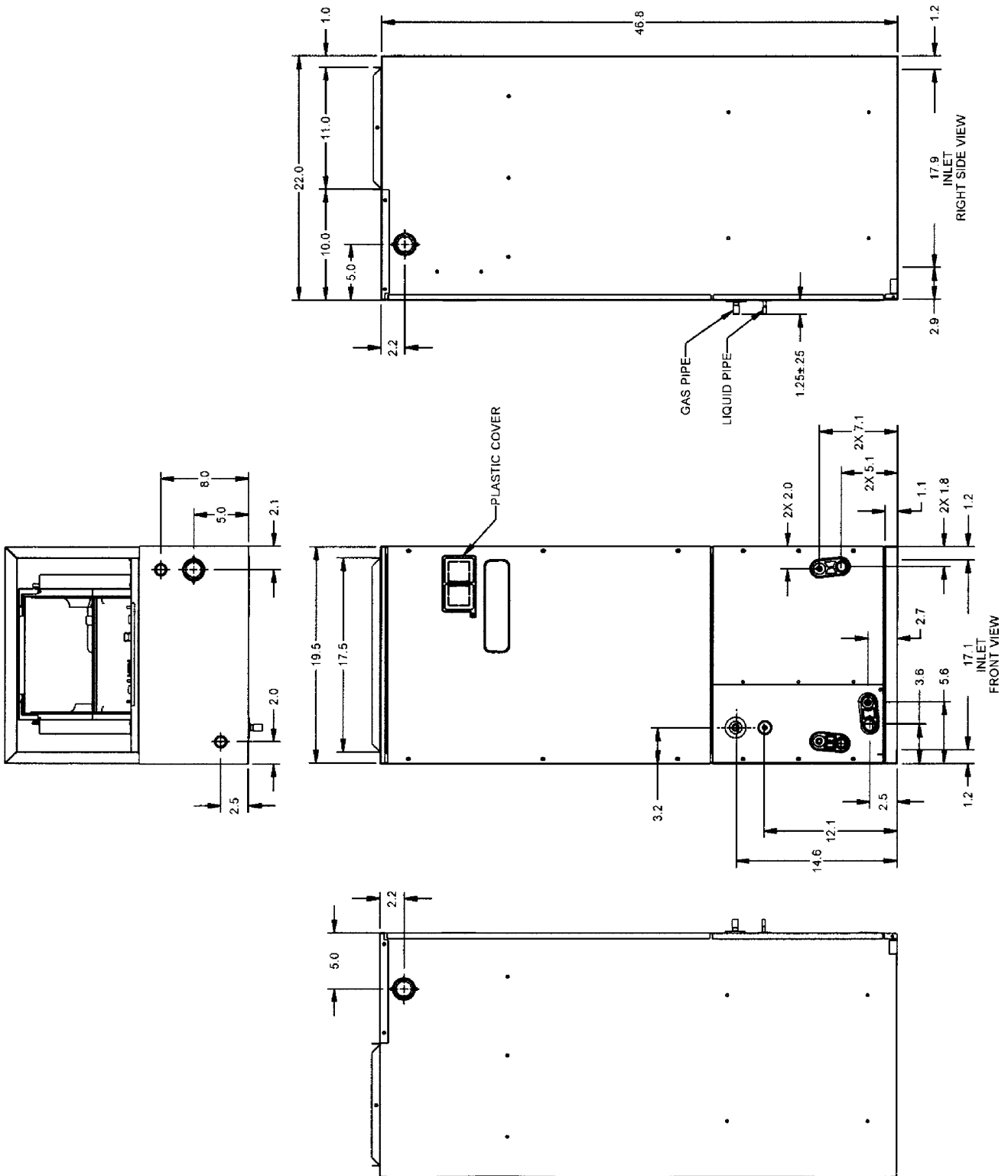
Model		FXTQ36PAVJU	FXTQ42PAVJU	FXTQ48PAVJU	FXTQ54PAVJU	
Power Supply		1 phase, 208/230V, 60Hz				
★1, ★3 Cooling capacity	Btu/h	36,000	42,000	48,000	54,000	
★2, ★3 Heating capacity	Btu/h	40,000	47,000	54,000	60,000	
Dimensions: (H×W×D)		in (mm) 53-1/4 × 22 × 24 (1353 × 559 × 610)				
Coil	Type	Cross fin coil				
	Rows×Stages×FPI	4 × 22 × 15	8 × 22 × 15			
	Face area	ft <sup>2</sup> (m <sup>2</sup> )	6.02 (1.8)			
Fan	Model	ECM(3/4HP)				
	Type	Sirocco fan				
	Motor output	HP	3/4			
	Airflow rate (H/L)	CFM	1,200/840	1,400/980	1,600/1,120	1,800/1,260
	External static pressure	"Wg	Up to 0.5			
	Drive		Direct drive			
Temperature control		Microprocessor thermostat for cooling and heating				
Air filter		— ★4				
Weight		lbs (kg)	149 (67.6)	169 (76.7)		
Piping connections	Liquid	in (mm)	φ3/8 (9.5) (Brazed)			
	Gas	in (mm)	φ5/8 (15.8) (Brazed)			
	Drain	in (mm)	φ3/4 (19.1) ★5			
Safety devices		Fuse, Fan driver overload protector				
Refrigerant control		Electronic expansion valve				
Connectable outdoor unit		R-410A VRV Series				
Standard accessories		Operation manual, Installation manual				
Drawing No.		C: 3D068193				

**Notes:**

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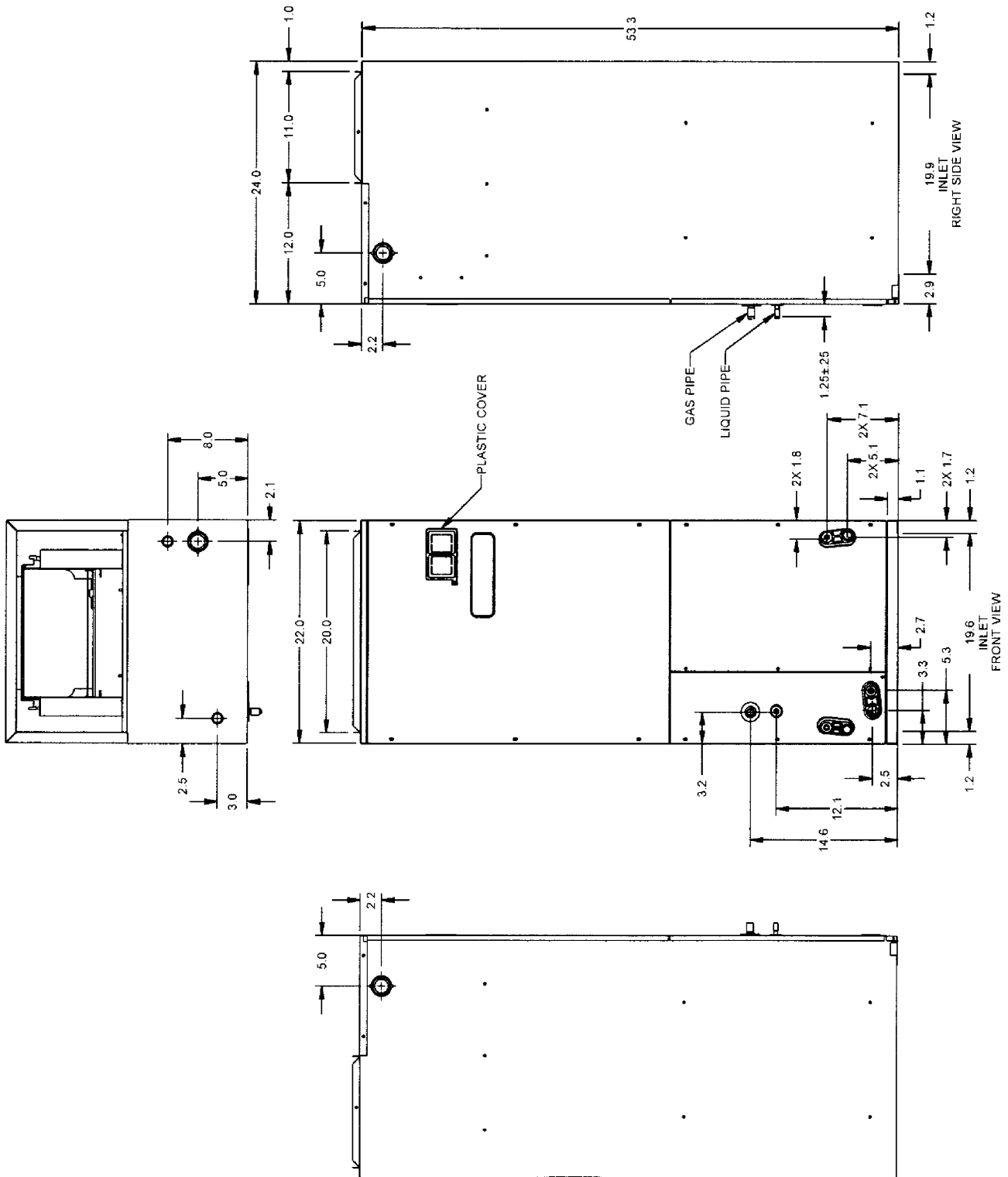
## 2. Dimensions

FXTQ12PAVJU  
FXTQ18PAVJU



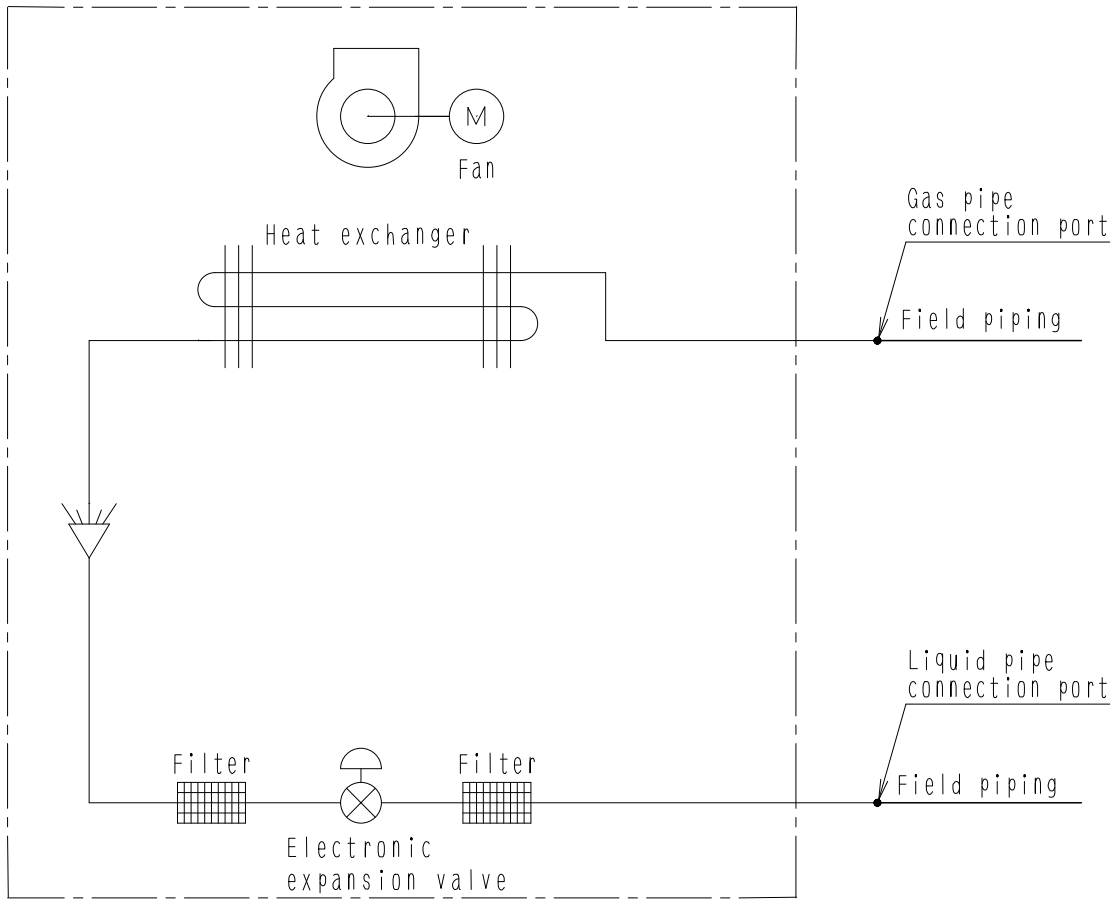
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FXTQ24PAVJU  
 FXTQ30PAVJU  
 FXTQ36PAVJU  
 FXTQ42PAVJU  
 FXTQ48PAVJU  
 FXTQ54PAVJU



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### 3. Piping Diagrams



APPLICABLE MODEL

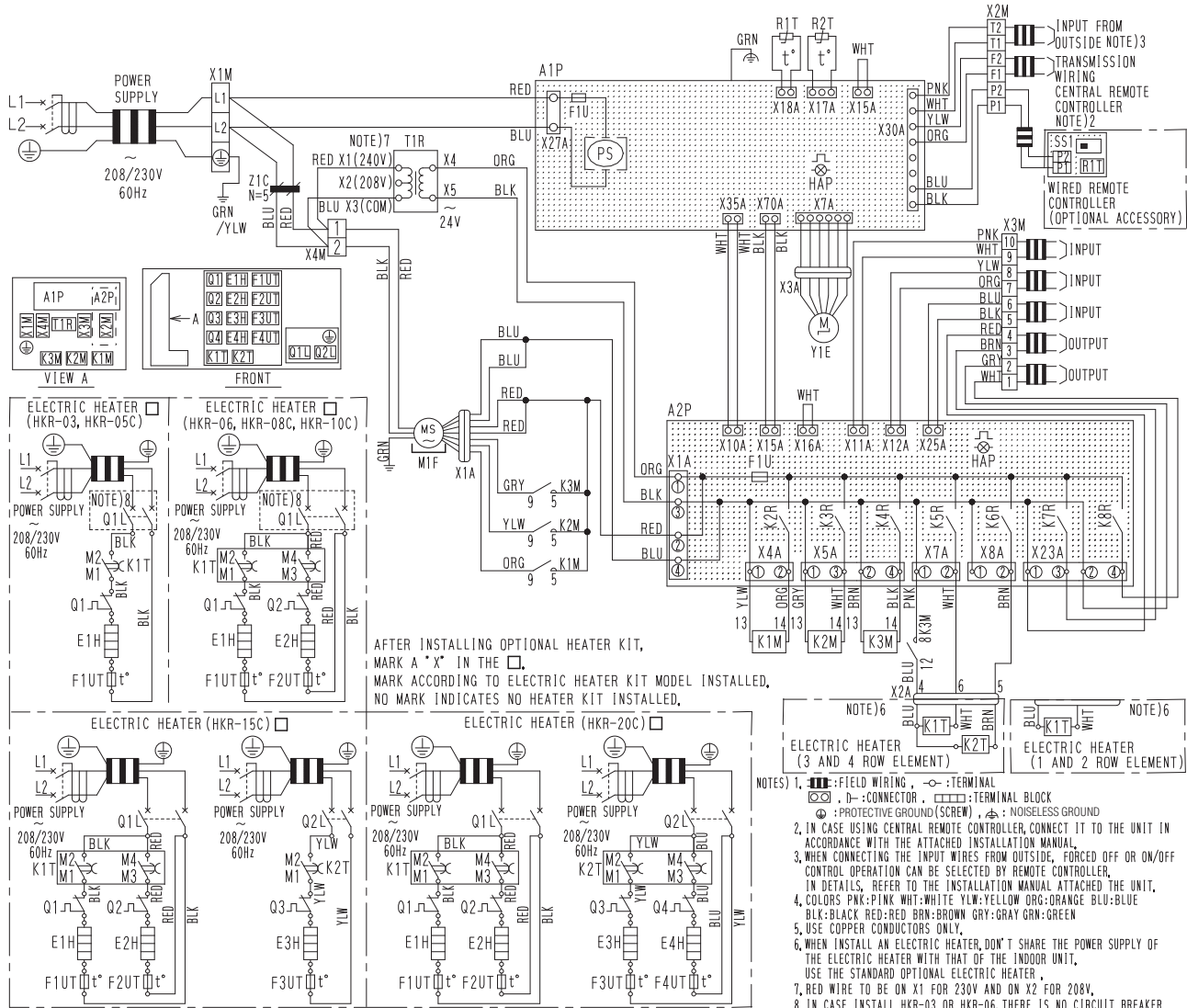
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Model	GAS	Liquid
FXTQ12/18PAVJU	φ 1/2	φ 1/4
FXTQ24/30/36/42/48/54PAVJU	φ 5/8	φ 3/8

# 4. Wiring Diagrams

FXTQ12PAVJU / FXTQ18PAVJU / FXTQ24PAVJU / FXTQ30PAVJU / FXTQ36PAVJU / FXTQ42PAVJU / FXTQ48PAVJU / FXTQ54PAVJU



INDOOR UNIT	K2R K8R	MAGNETIC RELAY(A2P)	X1M	TERMINAL STRIP(POWER SUPPLY)	SS1	SELECTOR SWITCH(MAIN/SUB)	
A1P		PRINTED CIRCUIT BOARD(MAIN)	X2M	TERMINAL STRIP(CONTROL)		ELECTRIC HEATER	
A2P		PRINTED CIRCUIT BOARD(SUB)	X3M	TERMINAL STRIP(CONTROL)		E1H~E4H	ELECTRIC HEATER
F1U		FUSE( T, 3, 15A, 250V) FOR (A1P, A2P)	X4M	TERMINAL STRIP(POWER SUPPLY)	F1UT~F4UT	TEMPERATURE FUSE(199, 4°F)	
HAP		LIGHT EMITTING DIODE (SERVICE MONITOR-GREEN)(A1P, A2P)	Y1E	ELECTRONIC EXPANSION VALVE	K1T, K2T	TIME DELAY RELAY	
K1M ~ K3M		MAGNETIC RELAY	R2T	THERMISTOR(GAS)	Q1~Q4	THERMAL LIMIT	
	T1R	TRANSFORMER 208V/24V, 240V/24V	Z1C	NOISE FILTER(FERRITE CORE)	Q1L, Q2L	CIRCUIT BREAKERS	
	X1A~X3A	CONNECTOR					

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**NOTE:**  
 This unit is not equipped with a return air sensor. A remote sensor is required when not using a BRC1E71 Controller or if this controller is not positioned to sense space temperature.



## 5. Electric Characteristics

### 5.1 Indoor Unit

Model	Power supply				IFM		Input (W)		
	Hz	Volts	Voltage range	MCA	MOP	HP	FLA	Cooling	Heating
FXTQ12PAVJU	60	208V/230V	Max. 229V Min. 187V	1.1	15	1/2	0.9	99	99
FXTQ18PAVJU				1.9	15	1/2	1.5	153	153
FXTQ24PAVJU				1.6	15	3/4	1.3	162	162
FXTQ30PAVJU				2.4	15	3/4	1.9	249	249
FXTQ36PAVJU			Max. 253V Min. 209V	3.3	15	3/4	2.6	336	336
FXTQ42PAVJU				4.0	15	3/4	3.2	448	448
FXTQ48PAVJU				6.0	15	3/4	4.8	661	661
FXTQ54PAVJU				8.0	15	3/4	6.4	885	885

#### Symbols:

- MCA : Minimum Circuit Amps (A)  
 MOP : Maximum Overcurrent Protective Device (A)  
 IFM : Indoor Fan Motor  
 HP : Fan Motor Rater Output (HP)  
 FLA : Full Load Amps (A)

#### NOTE:

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

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## 5.2 Electric Heater

Model	Power supply			CIRCUIT 1			CIRCUIT 2		
	Hz	Volts	Voltage range	H, A,	H, M, C, A,	H, M, O, P,	H, A,	H, M, C, A,	H, M, O, P,
HKR-03	60	208V/230V	Max, 229V Min, 187V  Max, 253V Min, 209V	10.8/12.5	13.5/15.6	20/20	—	—	—
HKR-05C				17.2/19.8	21.4/24.7	25/25	—	—	—
HKR-06				21.6/25	27.1/31.3	30/35	—	—	—
HKR-08C				25.3/29.2	31.6/36.5	35/40	—	—	—
HKR-10C				34.3/39.6	42.9/49.5	45/50	—	—	—
HKR-15C				34.3/39.6	42.9/49.5	45/50	17.2/19.8	21.4/24.7	25/25
HKR-20C				34.3/39.6	42.9/49.5	45/50	34.3/39.6	42.9/49.5	45/50

**Symbols :**

- H, A. : Heater amps  
H, M, C, A. : Heater minimum circuit amps  
H, M, O, P. : Heater maximum overcurrent protection

**Note :**

- Voltage range  
Units are suitable for use on electrical systems where voltage supplied to unit terminals is not below or above listed range limits,
- Maximum allowable voltage unbalance between phases is 2%.
- H, M, C, A / H, M, O, P  
 $H, M, C, A = 1.25 \times H, A.$
- Select wire size based on the H, M, C, A.
- Recommended GFCI specification is below table.

Rapid sensitive current	30 mA
Tripping time	0.1 sec.

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# 6. Capacity Tables

## 6.1 Cooling Capacity

**FXTQ-PA [Cooling capacity]**

Unit size	Outdoor air temp.	Indoor air temp.											
		61.0 °FWB		64.0 °FWB		67.0 °FWB		70.0 °FWB		72.0 °FWB		75.0 °FWB	
		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
12	75	9.5	7.0	10.7	7.5	12.0	8.0	13.3	8.5	13.5	8.1	13.8	8.1
	79	9.5	7.0	10.7	7.5	12.0	8.0	13.1	8.5	13.3	8.0	13.5	8.0
	83	9.5	7.0	10.7	7.5	12.0	8.0	12.9	8.5	13.0	8.0	13.3	7.9
	87	9.5	7.0	10.7	7.5	12.0	8.0	12.6	8.5	12.9	7.9	13.1	7.8
	91	9.5	7.0	10.7	7.5	12.0	8.0	12.5	8.5	12.6	7.7	12.9	7.7
	95	9.5	7.0	10.7	7.5	12.0	8.0	12.2	8.3	12.4	7.6	12.6	7.6
	99	9.5	7.0	10.7	7.5	11.8	7.9	12.0	8.2	12.2	7.5	12.4	7.5
	103	9.5	7.0	10.7	7.5	11.6	7.8	11.8	8.1	12.0	7.4	12.2	7.4
18	75	14.2	11.3	16.1	12.0	18.0	12.6	19.9	13.3	20.3	13.7	20.6	11.8
	79	14.2	11.3	16.1	12.0	18.0	12.6	19.7	13.3	19.9	13.6	20.3	11.6
	83	14.2	11.3	16.1	12.0	18.0	12.6	19.3	13.3	19.5	13.4	19.9	11.3
	87	14.2	11.3	16.1	12.0	18.0	12.6	18.9	13.3	19.3	13.2	19.7	11.1
	91	14.2	11.3	16.1	12.0	18.0	12.6	18.7	13.3	18.9	13.0	19.3	10.9
	95	14.2	11.3	16.1	12.0	18.0	12.6	18.4	13.0	18.6	12.8	18.9	10.6
	99	14.2	11.3	16.1	12.0	17.7	12.6	18.0	12.8	18.3	12.6	18.6	10.4
	103	14.2	11.3	16.1	12.0	17.3	12.5	17.7	12.7	17.9	12.4	18.3	10.1
24	75	19.0	15.0	21.5	15.9	24.0	16.9	26.5	17.8	27.0	26.1	27.5	26.1
	79	19.0	15.0	21.5	15.9	24.0	16.9	26.3	17.8	26.5	25.8	27.0	25.8
	83	19.0	15.0	21.5	15.9	24.0	16.9	25.8	17.8	26.0	25.5	26.5	25.5
	87	19.0	15.0	21.5	15.9	24.0	16.9	25.3	17.8	25.8	25.1	26.3	25.1
	91	19.0	15.0	21.5	15.9	24.0	16.9	24.9	17.6	25.3	24.7	25.8	24.8
	95	19.0	15.0	21.5	15.9	24.0	16.9	24.5	17.2	24.8	24.3	25.3	24.3
	99	19.0	15.0	21.5	15.9	23.6	16.9	24.1	17.0	24.4	23.9	24.8	23.9
	103	19.0	15.0	21.5	15.9	23.1	16.7	23.6	16.8	23.9	23.4	24.4	23.4
30	75	23.7	18.7	26.8	20.0	30.0	21.4	33.1	22.7	33.8	25.7	34.4	25.7
	79	23.7	18.7	26.8	20.0	30.0	21.4	32.8	22.7	33.1	25.4	33.8	25.4
	83	23.7	18.7	26.8	20.0	30.0	21.4	32.2	22.7	32.5	25.0	33.1	25.0
	87	23.7	18.7	26.8	20.0	30.0	21.4	31.6	22.7	32.2	24.7	32.8	24.7
	91	23.7	18.7	26.8	20.0	30.0	21.4	31.1	22.4	31.6	24.3	32.2	24.3
	95	23.7	18.7	26.8	20.0	30.0	21.4	30.6	21.9	31.0	23.9	31.6	23.9
	99	23.7	18.7	26.8	20.0	29.5	21.1	30.1	21.7	30.4	23.5	31.0	23.5
	103	23.7	18.7	26.8	20.0	28.9	20.9	29.5	21.4	29.9	23.0	30.5	23.0
36	75	28.4	22.6	32.2	24.3	36.0	26.0	39.8	27.7	40.5	26.7	41.3	26.7
	79	28.4	22.6	32.2	24.3	36.0	26.0	39.4	27.7	39.8	26.4	40.5	26.4
	83	28.4	22.6	32.2	24.3	36.0	26.0	38.6	27.7	39.0	26.1	39.8	26.1
	87	28.4	22.6	32.2	24.3	36.0	26.0	37.9	27.7	38.6	25.8	39.4	25.8
	91	28.4	22.6	32.2	24.3	36.0	26.0	37.4	27.7	37.9	25.4	38.6	25.4
	95	28.4	22.6	32.2	24.3	36.0	26.0	36.7	27.1	37.2	25.0	37.9	25.0
	99	28.4	22.6	32.2	24.3	35.4	25.7	36.1	26.8	36.5	24.6	37.2	24.6
	103	28.4	22.6	32.2	24.3	34.7	25.4	35.4	26.5	35.9	24.2	36.6	24.2
42	75	33.2	25.6	37.6	27.4	42.0	29.3	46.4	31.2	47.3	30.0	48.1	29.1
	79	33.2	25.6	37.6	27.4	42.0	29.3	45.9	31.2	46.4	29.7	47.3	28.7
	83	33.2	25.6	37.6	27.4	42.0	29.3	45.1	31.2	45.5	29.4	46.4	28.4
	87	33.2	25.6	37.6	27.4	42.0	29.3	44.2	31.1	45.1	29.1	45.9	28.0
	91	33.2	25.6	37.6	27.4	42.0	29.3	43.6	30.8	44.2	28.7	45.1	27.6
	95	33.2	25.6	37.6	27.4	42.0	29.3	42.8	30.1	43.4	28.3	44.2	27.2
	99	33.2	25.6	37.6	27.4	41.3	29.0	42.1	29.8	42.6	27.9	43.4	26.7
	103	33.2	25.6	37.6	27.4	40.5	28.7	41.3	29.5	41.9	27.5	42.7	26.3
48	75	37.9	29.0	43.0	31.1	48.0	33.2	53.0	35.3	54.0	34.0	55.0	33.0
	79	37.9	29.0	43.0	31.1	48.0	33.2	52.5	35.3	53.0	33.7	54.0	32.6
	83	37.9	29.0	43.0	31.1	48.0	33.2	51.5	35.3	52.0	33.3	53.0	32.2
	87	37.9	29.0	43.0	31.1	48.0	33.2	50.5	35.2	51.5	32.9	52.5	31.7
	91	37.9	29.0	43.0	31.1	48.0	33.2	49.8	34.9	50.5	32.5	51.5	31.3
	95	37.9	29.0	43.0	31.1	48.0	33.2	49.0	34.1	49.6	32.1	50.5	30.8
	99	37.9	29.0	43.0	31.1	47.2	32.9	48.1	33.8	48.7	31.6	49.7	30.3
	103	37.9	29.0	43.0	31.1	46.3	32.5	47.2	33.4	47.9	31.1	48.8	29.8
54	75	42.6	33.0	48.3	35.4	54.0	37.8	59.6	40.2	60.8	38.7	61.9	37.5
	79	42.6	33.0	48.3	35.4	54.0	37.8	59.1	40.2	59.6	38.3	60.8	37.1
	83	42.6	33.0	48.3	35.4	54.0	37.8	57.9	40.2	58.5	37.9	59.6	36.6
	87	42.6	33.0	48.3	35.4	54.0	37.8	56.8	40.1	57.9	37.5	59.1	36.1
	91	42.6	33.0	48.3	35.4	54.0	37.8	56.0	39.7	56.8	37.0	57.9	35.6
	95	42.6	33.0	48.3	35.4	54.0	37.8	55.1	38.9	55.8	36.5	56.8	35.0
	99	42.6	33.0	48.3	35.4	53.0	37.4	54.1	38.5	54.8	36.0	55.9	34.5
	103	42.6	33.0	48.3	35.4	52.0	37.0	53.1	38.1	53.8	35.4	54.9	33.9

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

## 6.2 Heating Capacity

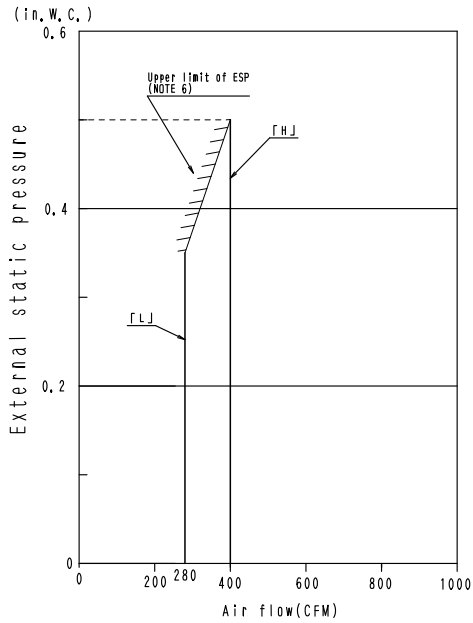
### FXTQ-PA [Heating capacity]

Unit size	Outdoor air temp.		Indoor air temp.					
			62.0°FDB	65.0°FDB	68.0°FDB	70.0°FDB	72.0°FDB	75.0°FDB
	°FDB	°FWB	TC	TC	TC	TC	TC	TC
12	22.0	20.0	12.0	12.0	12.0	12.0	12.0	11.9
	26.0	24.0	12.8	12.8	12.6	12.6	12.6	12.3
	30.0	28.0	13.5	13.5	13.4	13.4	13.0	12.3
	35.0	32.0	14.3	14.3	14.0	13.5	13.0	12.3
	39.0	36.0	15.1	14.8	14.0	13.5	13.0	12.3
	44.0	40.0	15.8	14.8	14.0	13.5	13.0	12.3
	47.0	43.0	15.8	14.8	14.0	13.5	13.0	12.3
	51.0	47.0	15.8	14.8	14.0	13.5	13.0	12.3
	54.0	50.0	15.8	14.8	14.0	13.5	13.0	12.3
	57.0	53.0	15.8	14.8	14.0	13.5	13.0	12.3
	60.0	56.0	15.8	14.8	14.0	13.5	13.0	12.3
	18	22.0	20.0	17.8	17.8	17.8	17.7	17.7
26.0		24.0	18.9	18.9	18.7	18.7	18.7	18.1
30.0		28.0	20.0	20.0	19.8	19.8	19.3	18.1
35.0		32.0	21.1	21.1	20.7	20.0	19.3	18.1
39.0		36.0	22.4	21.9	20.7	20.0	19.3	18.1
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		47.0	23.3	21.9	20.7	20.0	19.3	18.1
54.0		50.0	23.3	21.9	20.7	20.0	19.3	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
24		22.0	20.0	24.1	24.0	24.0	24.0	23.9
	26.0	24.0	25.5	25.5	25.3	25.3	25.3	24.5
	30.0	28.0	27.0	27.0	26.8	26.8	26.0	24.5
	35.0	32.0	28.5	28.5	28.0	27.0	26.0	24.5
	39.0	36.0	30.3	29.5	28.0	27.0	26.0	24.5
	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
	51.0	47.0	31.5	29.5	28.0	27.0	26.0	24.5
	54.0	50.0	31.5	29.5	28.0	27.0	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
	30	22.0	20.0	30.3	30.3	30.2	30.2	30.1
26.0		24.0	32.1	32.1	31.8	31.8	31.8	30.9
30.0		28.0	34.0	34.0	33.7	33.7	32.7	30.9
35.0		32.0	35.9	35.9	35.3	34.0	32.7	30.9
39.0		36.0	38.1	37.1	35.3	34.0	32.7	30.9
44.0		40.0	39.7	37.1	35.3	34.0	32.7	30.9
47.0		43.0	39.7	37.1	35.3	34.0	32.7	30.9
51.0		47.0	39.7	37.1	35.3	34.0	32.7	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
36		22.0	20.0	35.7	35.6	35.5	35.5	35.4
	26.0	24.0	37.8	37.8	37.4	37.4	37.4	36.3
	30.0	28.0	40.0	40.0	39.6	39.6	38.5	36.3
	35.0	32.0	42.2	42.2	41.5	40.0	38.5	36.3
	39.0	36.0	44.8	43.7	41.5	40.0	38.5	36.3
	44.0	40.0	46.7	43.7	41.5	40.0	38.5	36.3
	47.0	43.0	46.7	43.7	41.5	40.0	38.5	36.3
	51.0	47.0	46.7	43.7	41.5	40.0	38.5	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
	42	22.0	20.0	41.9	41.8	41.7	41.7	41.6
26.0		24.0	44.4	44.4	44.0	44.0	44.0	42.6
30.0		28.0	47.0	47.0	46.6	46.6	45.3	42.6
35.0		32.0	49.6	49.6	48.7	47.0	45.3	42.6
39.0		36.0	52.7	51.4	48.7	47.0	45.3	42.6
44.0		40.0	54.8	51.4	48.7	47.0	45.3	42.6
47.0		43.0	54.8	51.4	48.7	47.0	45.3	42.6
51.0		47.0	54.8	51.4	48.7	47.0	45.3	42.6
54.0		50.0	54.8	51.4	48.7	47.0	45.3	42.6
57.0		53.0	54.8	51.4	48.7	47.0	45.3	42.6
60.0		56.0	54.8	51.4	48.7	47.0	45.3	42.6
48		22.0	20.0	48.2	48.1	48.0	47.9	47.9
	26.0	24.0	51.0	51.0	50.5	50.5	50.5	49.0
	30.0	28.0	54.0	54.0	53.5	53.5	52.0	49.0
	35.0	32.0	57.0	57.0	56.0	54.0	52.0	49.0
	39.0	36.0	60.5	59.0	56.0	54.0	52.0	49.0
	44.0	40.0	63.0	59.0	56.0	54.0	52.0	49.0
	47.0	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
	54.0	50.0	63.0	59.0	56.0	54.0	52.0	49.0
	57.0	53.0	63.0	59.0	56.0	54.0	52.0	49.0
	60.0	56.0	63.0	59.0	56.0	54.0	52.0	49.0

TC: Total capacity ; MBh

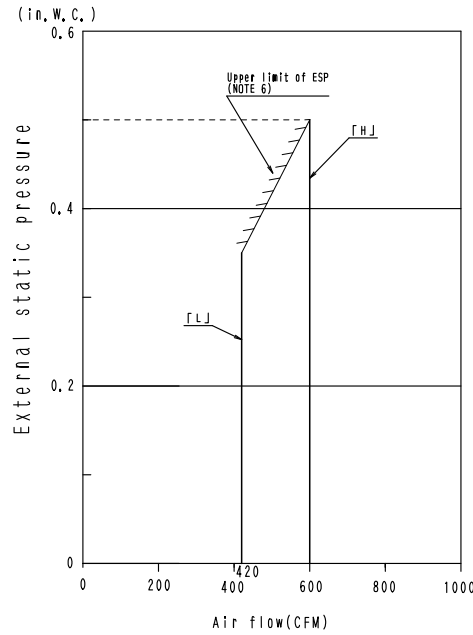
# 7. Airflow Auto Adjustment Characteristics

FXTQ12PAVJU



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FXTQ18PAVJU

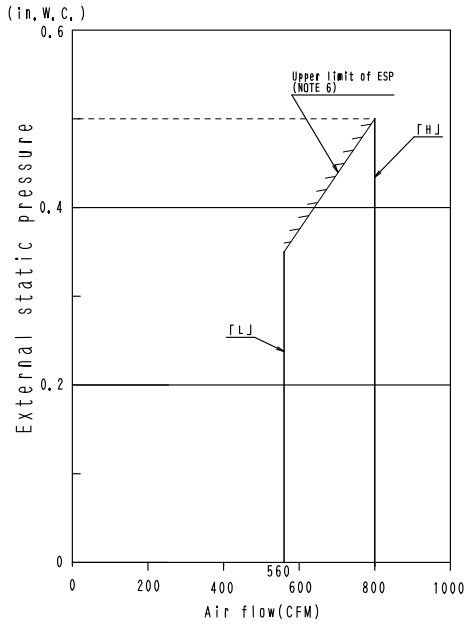


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**Notes:**

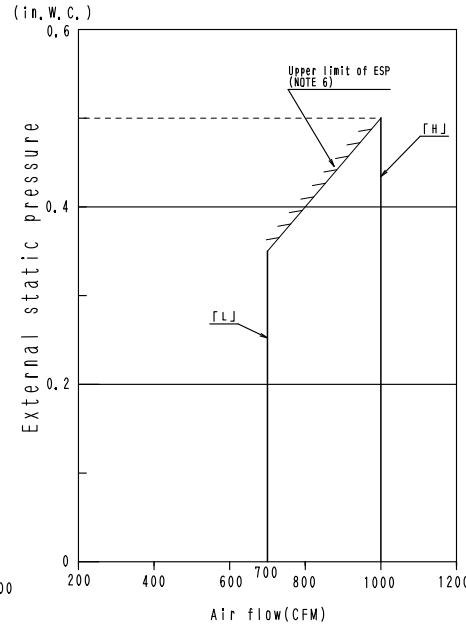
1. If the airflow is less than 10% of the rated air volume, it is automatically adjusted to the rated volume.
2. You can adjust external static pressure between 0.0 in.W.C. - 0.5 in.W.C (When fan speed is "H").
3. Airflow cannot operate at the rated value if it is outside the ESP range in the above graph.
4. This figure shows a fan characteristics at "H" speed and "L" speed.
5. Fan speed is changeable by using the remote controller.
6. ESP: external static pressure.

**FXTQ24PAVJU**



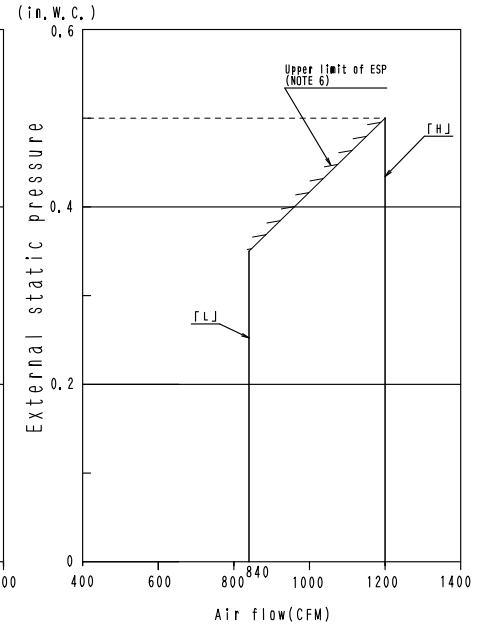
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**FXTQ30PAVJU**



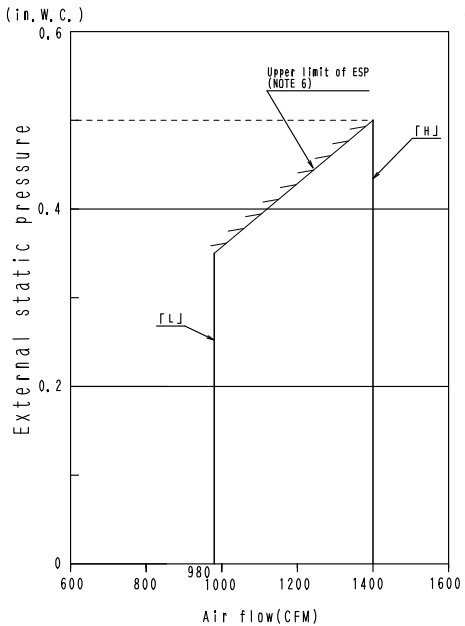
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**FXTQ36PAVJU**



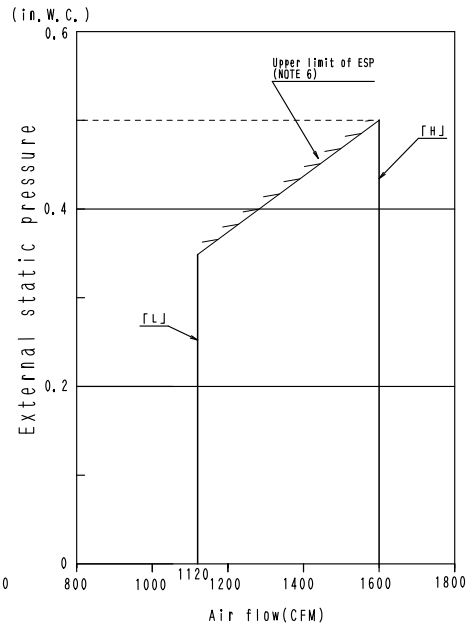
3D068214

**FXTQ42PAVJU**



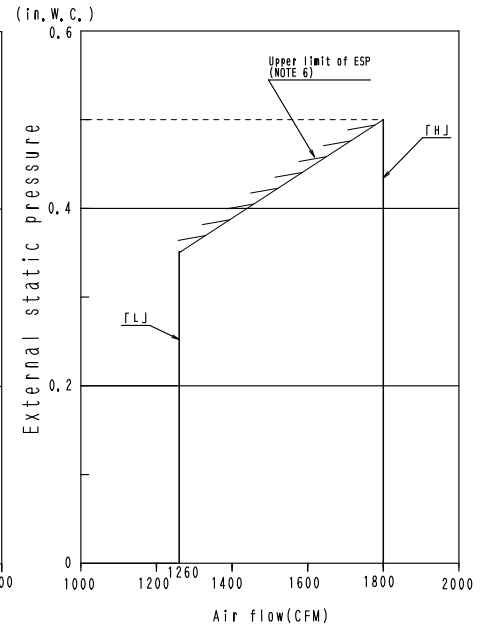
3D068215

**FXTQ48PAVJU**



3D068216

**FXTQ54PAVJU**



3D068217

**Notes:**

1. If the airflow is less than 10% of the rated air volume, it is automatically adjusted to the rated volume.
2. You can adjust external static pressure between 0.0 in.W.C. - 0.5 in.W.C (When fan speed is "H").
3. Airflow cannot operate at the rated value if it is outside the ESP range in the above graph.
4. This figure shows a fan characteristics at "H" speed and "L" speed.
5. Fan speed is changeable by using the remote controller.
6. ESP: external static pressure.





## 8. Installation

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 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** ..... 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.

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### **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 injuries or death by suffocation.
- 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 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 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 terminal box lid can be securely fastened. Improper positioning of the terminal box lid may result in electric shocks, fire, or the terminals overheating.
- Before touching electrical parts, turn off the unit.
- It is recommended 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 (R-410A) 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.
- Install drain piping to 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 R-410A 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 -- R-410A does not contain any chlorine, does not destroy the ozone layer, and does not reduce the earth's protection against harmful ultraviolet radiation. R-410A 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 R-410A 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 R-410A. See the catalog for indoor models that can be connected. Normal operation is not possible when connected to other 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. This unit is for indoor use.
- 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 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.



### NOTE

- 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 R-410A, the refrigerant may deteriorate.
- This air conditioner or heat pump is an appliance that should not be accessible to the general public.
- As design pressure is 478 psi, the wall thickness of field-installed pipes should be selected in accordance with the relevant local, state, and national regulations.



## 2. BEFORE INSTALLATION

### ⚠ WARNING

- Entrust installation to the place of purchase or a qualified serviceman. Improper installation could lead to leaks and, in worse cases, electric shock or fire.
- Use of unspecified parts could lead to the unit falling, leaks and, in worse cases, electric shock or fire.

### ⚠ NOTE

- Be sure to read this manual before installing the indoor unit.
- Be sure to mount an air filter (part to be procured in the field) in the suction air passage in order to prevent water leaking, etc.

**The accessories needed for installation must be retained in your custody until the installation work is completed. Do not discard them.**

1. Decide upon a line of transport.
2. Leave the unit inside its packaging while moving, until reaching the installation site. Where unpacking is unavoidable, use a sling of soft material or protective plates together with a rope when lifting, to avoid damage or scratches to the unit.

**Be sure to check the type of R410A refrigerant to be used before installing the unit.**

**(Using an incorrect refrigerant will prevent normal operation of the unit.)**




For the installation of an outdoor unit, refer to the installation manual attached to the outdoor unit.

### 2-1 PRECAUTIONS

- Be sure to instruct customers how to properly operate the unit (operating different functions, and adjusting the temperature) by having them carry out operations themselves while looking at the operation manual.
- Do not install in locations where the air contains high levels of salt such as that near the ocean and where voltage fluctuates greatly such as that in factories, or in vehicles or vessels.

### 2-2 ACCESSORIES

Check the following accessories are included with your unit.

Name	Clamp material (1)	Insulation tube	
Quantity	4 pcs.	1 set	
Shape		 Small (2) 2 pcs.  Large (3) 2 pcs.	(Other) • Operation manual • Installation manual

### 2-3 OPTIONAL ACCESSORIES

- This indoor unit requires one of the operation remote controls listed below.

Remote controller	
Wired type	BRC1E71, BRC1D71
Wireless type	BRC4C82

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

### a. 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 and outdoor units fixed firmly?	The units may drop, vibrate or make noise.	
Is the refrigerant leak test finished?	It may result in insufficient cooling.	
Is the unit fully insulated?	Condensate may drip.	
Does drainage flow smoothly?	Condensate 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?	Incomplete grounding may result in electric shocks.	
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.	

Also review the "SAFETY CONSIDERATIONS".

### b. Items to be checked at time of delivery

Items to be checked	Check
Did you explain about operations while showing the operation manual to your customer?	
Did you hand the operation manual and warranty over to your customer?	
Did you explain to your customer how to maintain and clean local procurements such as the air filter, suction grille, and air outlet grille?	
Did you hand manuals of local procurements (in case equipped) over to your customer?	

## 3. SELECTING INSTALLATION SITE

### ⚠ CAUTION

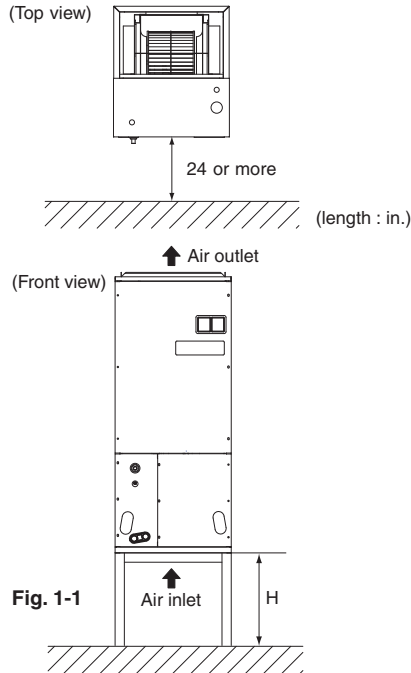
- If you think the humidity inside the installation space might exceed 86°F and RH80%, reinforce the insulation on the unit body.  
Use glass wool or polyethylene foam as insulation so that the thickness is more than 2 in. and fits inside the installation space opening.

### (1) Select an installation site where the following conditions are fulfilled and that meets with your customer's approval.

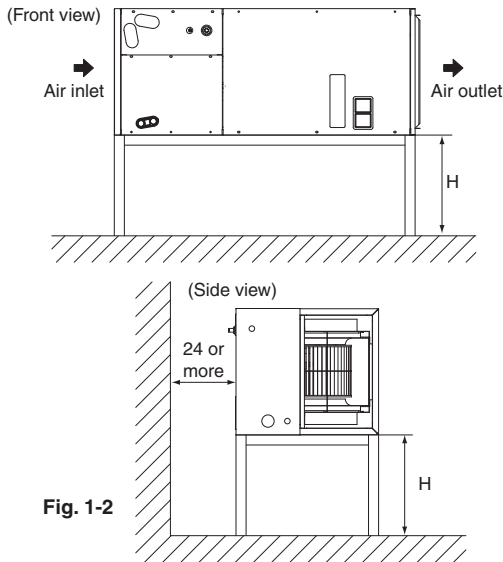
- Where optimum air distribution can be ensured.
- Where nothing blocks air passage.
- Where condensate can be properly drained.
- Where the supports are strong enough to bear the indoor unit weight.
- Where the false ceiling is not noticeably on an incline.
- Where sufficient clearance for maintenance and service can be ensured. (Refer to Fig. 1-1 and Fig. 1-2)

- Where piping between indoor and outdoor units is possible within the allowable limit. (Refer to the installation manual for the outdoor unit.)
- If a return-air duct is not installed, carefully select the place and method of product installation so that air flow into the product will not be blocked.

**If installed vertically**



**If installed horizontally**



**⚠ WARNING**

- When installing the unit horizontally, be sure to tilt the unit in the direction shown in Fig. 1-2. If the unit is tilted in any other way, water can leak.

- Ensure sufficient space for the bottom of the product (H dimensions) so that a downward slope of 1/100 can be maintained for drain piping, as described for the intake duct installation and in "6. DRAIN PIPING WORK".

**[ PRECAUTION ]**

- Install the indoor and outdoor units, power supply wiring and connecting wires at least 3.5 ft. away from televisions or radios in order to prevent image interference or noise. (Depending on the radio waves, a distance of 3.3 ft. may not be sufficient to eliminate the noise.)
- If installing the wireless kit in a room with electronic fluorescent lighting (inverter or rapid start type), the remote controller's transmission distance may be shortened. Indoor units should be installed as far away from fluorescent lighting as possible.

**⚠ DANGER**

- Do not install unit in an area where flammable materials are present due to the risk of an explosion resulting in serious injury or death.

**⚠ WARNING**

- If the supporting structural members are not strong enough to take the unit's weight, the unit could fall out of place and cause serious injury.

**4. PREPARATIONS BEFORE INSTALLATION AND INSTALLATION**

- (1) When installing the product, refer to "3. SELECTING INSTALLATION SITE" and consider the product size as shown Fig. 2 and Table 1.

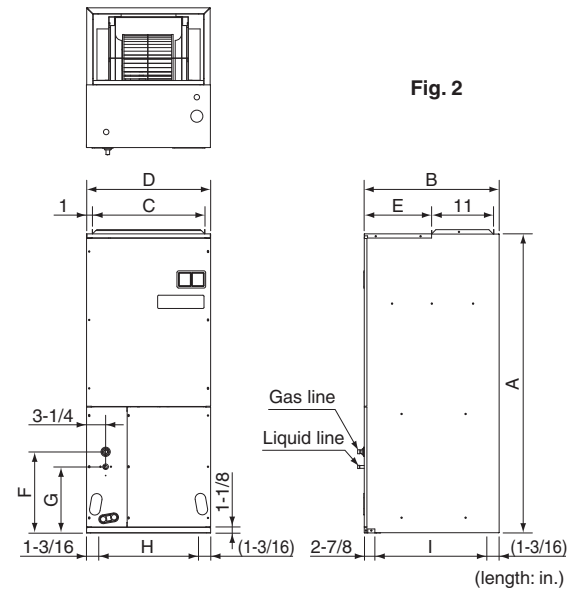
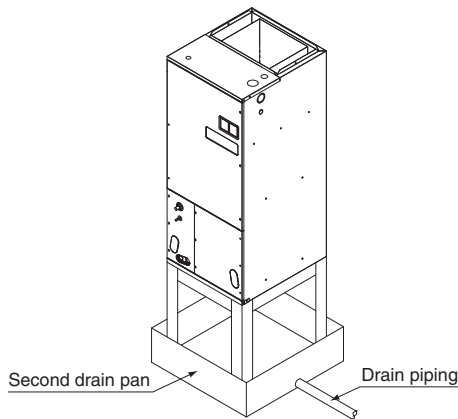


Table 1

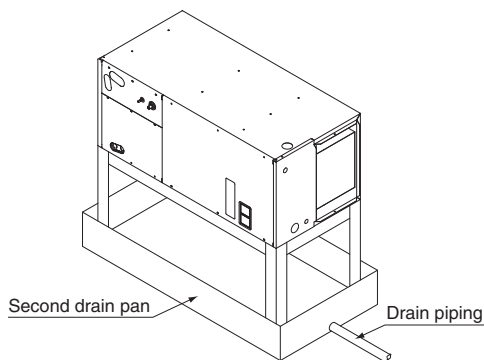
Model	A	B	C	D	E	F	G	H	I
12 · 18 type	46-3/4	22	17-1/2	19-1/2	10	14-1/2	11-15/16	17-1/8	17-15/16
24 · 30 · 36 · 42 · 48 · 54 type	53-1/4	24	20	22	12	14-1/2	11-15/16	19-5/8	19-15/16

- (2) Make sure the range of the unit's external static pressure is not exceeded. (up to 0.5 in.W.C. at "H" speed.)
- (3) Condensation may form on the product during COOL operation. You may need to provide and install a second (field-supplied) drain pan.

If installed vertically



If installed horizontally

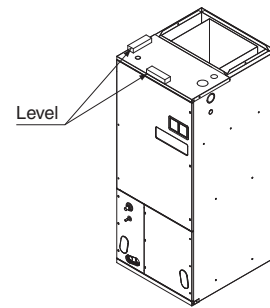


- (4) Check if the unit is horizontally level.

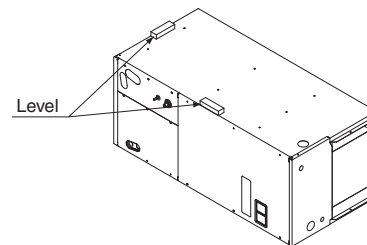
**CAUTION**

- Make sure the unit is installed level using a level tube: four sides. (One thing to watch out for in particular is if the unit is installed so that the slope is not in the direction of the drain piping, this might cause leaking.)

If installed vertically



If installed horizontally



- (5) Secure the unit firmly to prevent it from falling.
- (6) When the unit is installed in a hot and humid place, it is recommended to use the following drain pan insulation kit, which is an optional accessory.

	Drain pan insulation Kit	
	Vertically	Horizontally
12 · 18 type	DPI 36-42/20	DPIH 36-42
24 · 30 · 36 · 42 · 48 · 54 type	DPI 48-60/20	DPIH 48-61

- Regarding the attachment of the drain pan insulation kit, refer to the installation manual provided with the kit.

### 5. REFRIGERANT PIPING WORK

(Observe the requirements listed below for refrigerant piping sizes.)

	Liquid	Gas
12 · 18 type	1/4 in.	1/2 in.
24 · 30 · 36 · 42 · 48 · 54 type	3/8 in.	5/8 in.

(Execute heat insulation work completely on both sides of the gas piping and the liquid piping or else a water leakage might result.

Failing to insulate the pipes may cause leaking or burns. Be sure to use insulation that is designed for use with HVAC Systems.

Reinforce the insulation on the refrigerant piping according to the installation environment. If the temperature or humidity in the product installation location might reach 86°F or 80%, respectively. Condensation may form on the surface of the insulation.)

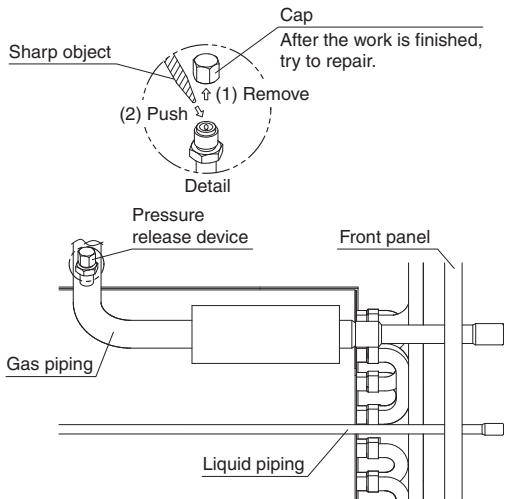
**CAUTION**

Follow the points at below.

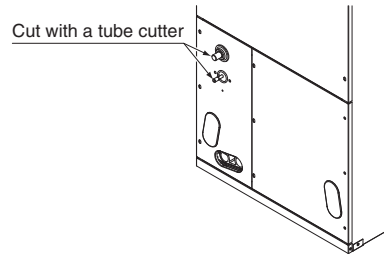
- Use a tube cutter and flare suitable for the type of refrigerant.
- To prevent dust, moisture or other foreign matter from infiltrating the piping, either pinch the end or cover it with tape.
- Do not allow anything other than the designated refrigerant to get mixed into the refrigerant circuit, such as air. If any refrigerant gas leaks while working on the unit, immediately ventilate the room.

**(1) Cut off the spin closure.**

- The outdoor unit is charged with refrigerant.
- This coil contains gas under 150 P.S.I.G. Release pressure from the gas piping pressure-release device before initiating piping work.



- Cut off the pipe end with a tube cutter. (Both liquid line and gas line)

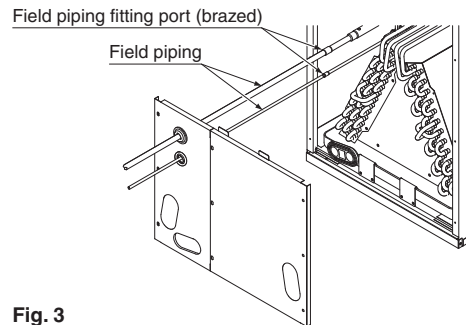


**(2) Connect the piping.**

1. Remove the upper and lower front panels.
2. Slide the front panel (lower) along the field piping until it is far enough away that it will not be affected by heat from brazing, as shown in Fig. 3.
3. Braze up to the field piping fitting port while cooling the sensor and the thermal insulation.
4. Close the upper and lower front panels once heat from the brazed areas has dissipated.

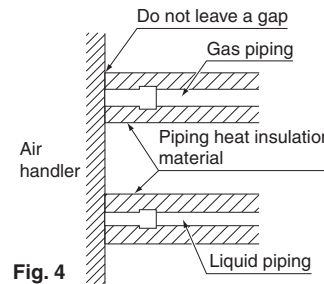
**NOTE**

- When brazing the field piping, cover the pipe insulation and the thermal sensor inside the insulation with a damp cloth to prevent any damage to the sensor or the insulation. Otherwise, the sensor may be damaged by heat of brazing, which lead to a failure of normal operation.



- (3) After the work is finished, make sure to check that there is no gas leak.**

- (4) After checking for gas leaks, be sure to insulate the piping connections referring to Fig. 4.**



**CAUTION**

- Be sure to insulate any field piping all the way to the piping connection inside the unit. Any exposed piping may cause condensation or burns if touched.

- When brazing the refrigerant piping, perform nitrogen replacement first, or perform the brazing while feeding nitrogen into the refrigerant piping. (Refer to Fig. 5)

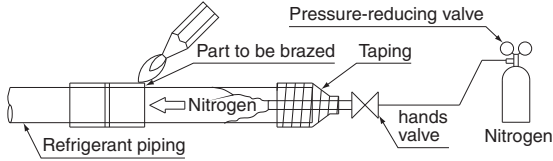


Fig. 5

**CAUTION**

- When brazing piping while feeding nitrogen inside the piping, make sure to set the nitrogen pressure to 2.9 psi or less using the pressure reducing valve. (This pressure is such that a breeze is blown to your cheek.)

**DANGER**

- Use of oxygen could result in an explosion resulting in serious injury or death. Only use dry nitrogen gas.
- Refrigerant gas may produce toxic gas if it comes in contact with fire such as from a fan heater, stove or cooking device. Exposure to this gas could cause severe injury or death.

**NOTE**

- Do not use flux when brazing refrigerant piping. Therefore, use the phosphor copper brazing filler metal (BCuP) which does not require flux. Flux has an extremely negative effect on refrigerant piping systems. For instance, if chlorine based flux is used, it will cause piping corrosion. Flux containing fluorine will damage refrigerant oil.

**6. DRAIN PIPING WORK**

**CAUTION**

- Make sure all water is out before making the duct connection.

**(1) Install drain piping as described Fig. 6.**

**In case of vertical installation**

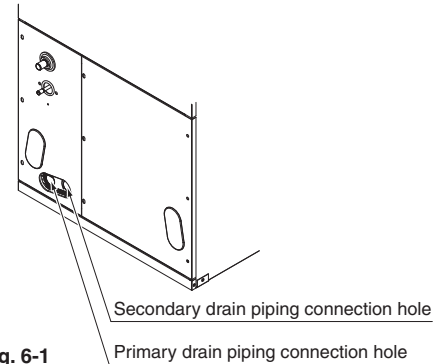


Fig. 6-1

**In case of horizontal installation**

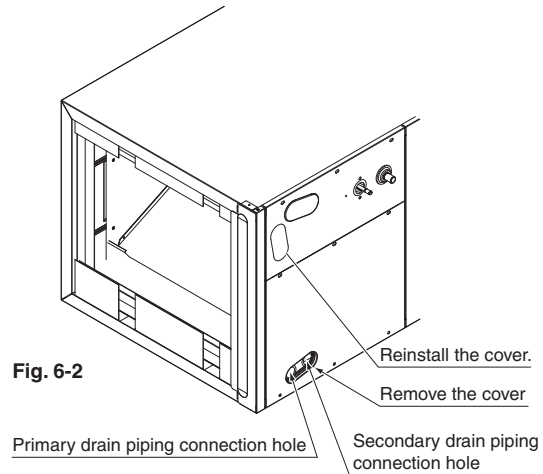


Fig. 6-2

- Perform drain work so that the unit is drained thoroughly. (Be sure to insulate the following 2 locations since condensation may cause water leakage.)
  - Drain piping
  - Drain socket
- The drain pan has connections for a primary and secondary drain.
- Use 3/4 PVC piping for drain piping connections.
- Keep piping runs short with a downward slope of at least 1/100 to prevent air pocket from forming.
- Be sure to install a drain trap at the drain outlet since the inside of the unit is at negative pressure relative to atmospheric pressure during operation.
- Knock out the plastic seal with a screwdriver and a hammer. (Refer to Fig. 7)

**NOTE**

- In case of horizontal installation, carefully knock out the plastic seal. Operation without opening the drain piping connection hole causes water leakage.

- To keep the piping from becoming clogged with dirt, avoid bends where possible and install so that traps can be cleaned.

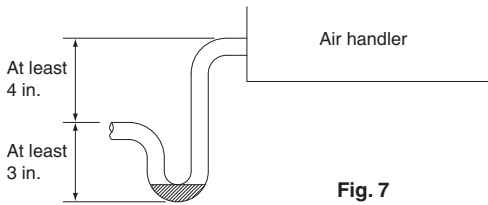


Fig. 7

- Observe the following guidelines when installing concentrated drain piping. Select the thickness of the concentrated drain piping to reflect the capacity of the machine to which it will be connected. (Install a drain trap for each indoor unit.) (Refer to Fig. 8)

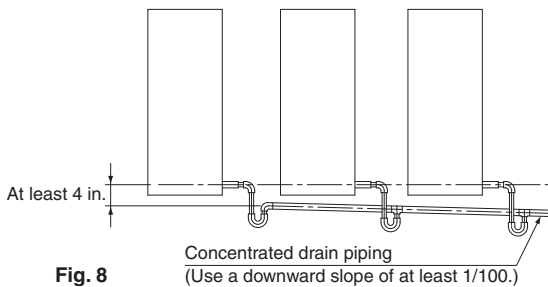


Fig. 8

**CAUTION**

- Water accumulating in the drain piping can cause the drain to clog.

**(PRECAUTIONS)**

**Drain piping connections**

- Do not connect the drain piping directly to sewage piping that smell of ammonia. The ammonia in the sewage might enter the indoor unit through the drain piping and corrode the heat exchanger.
- Do not twist or bend the drain hose, as excessive force may cause it to leak.

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

- Gradually insert approximately 1 quart of water into the drain pan to check drainage in the manner described below.

**7. INSTALLING THE DUCT**

Exercise care regarding the following when performing duct work.

- Verify that duct work does not exceed the unit's setting range of external static pressure (up to 0.5 Wg at "H" speed).
- Install canvas ducts at air outlets and inlets so that vibrations from the main unit are not transmitted to ducts or the floor. Additionally, line the duct with sound-absorbing material (heat insulation material) as necessary.
- Be sure to install an optional air filter to the product's air inlet or to a field-supplied air inlet inside the air passage on the suction side.
- Perform the curing and other work during duct welding so that the inside of the product is not exposed to spatter.

- If the metal duct passes through a metal lath, wire lath, or metal plate of a wooden structure, isolate the duct from the wall electrically.
- Be sure to heat-insulate the duct to prevent the formation of condensation. (Material: Glass wool or polyethylene foam; thickness: 1 inch.)
- Explain to the customer how to operate and clean field-supplied components such as air filters, air inlet grilles, air outlet grilles.
- To prevent drafts, locate the air outlet grille on the indoor side so that warm air from the outlet does not come into direct contact with room occupants.
- When an electric heater (optional) is installed, use metal duct and wrap the duct with a glass-wool insulation material.

**8. ELECTRIC WIRING WORK**

**8-1 GENERAL INSTRUCTIONS**

- Shut off the power before doing any work.
- All field supplied parts and materials, electric works must conform to local codes.
- Use copper wire only.
- See also the "Wiring Diagram Label" located inside the unit's fan housing.
- For details on hooking up the remote controller, refer to the "REMOTE CONTROLLER INSTALLATION MANUAL"
- All wiring must be performed by an authorized electrician.
- This system consists of multiple indoor units. Mark each indoor unit as unit A, unit B . . . , and be sure the terminal board wiring to the outdoor unit and Branch Selector unit are properly matched. If wiring and piping between the outdoor unit and an indoor unit are mismatched, the system may cause a malfunction.
- Install a wiring interrupter or ground-fault circuit interrupter for the power wiring.
- Make sure the ground resistance is no greater than 100Ω.
- To avoid short circuiting the power supply wire, be sure to use insulated terminals.
- Do not turn on the power supply (wiring interrupter or ground-fault circuit interrupter) until all other work is done.

**DANGER**

- Do not ground units to water piping, telephone wires or lightning rods because incomplete grounding could cause a severe shock hazard resulting in severe injury or death, nor to gas piping because a gas leak could result in an explosion which could lead to severe injury or death.

**8-2 LIST OF STANDARD WIRING EQUIPMENT**

Power supply wiring (including ground wire)		Transmission wiring Remote controller wiring	
Fuse/breaker ☐	Size	Wire	Size
15A	Must comply with local codes.	2-conductor, stranded, non-shielded copper/PVC or vinyl jacket	AWG18 – 16

**NOTES**

1. If the wiring is in a place where people it can be easily touched by people, install a ground-fault circuit interrupter to prevent electric shock.
2. When using a ground-fault circuit interrupter, make sure to select one useful also to protection against overcurrent and short-circuit.  
When using a ground-fault circuit interrupter only for grounding device, make sure to use a wiring interrupter together.
  - The length of the transmission wiring and remote controller wiring are as follows.

Length of the transmission wiring and remote controller wiring

Outdoor unit – Indoor unit	Max. 3280 ft. (Total wiring length: 6560 ft.)
Indoor unit – Remote controller	Max. 1640 ft.

**8-3 ELECTRICAL CHARACTERISTICS**

Units				Power supply		Fan motor	
Model	Hz	Volts	Voltage range	MCA	MOP	HP	FLA
12 type	60	208/ 230	Min. 187 Max. 229/ Min. 207 Max. 253	1.1	15	1/2	0.9
18 type				1.9			1.5
24 type				1.6			1.3
30 type				2.4			1.9
36 type				3.3		3/4	2.6
42 type				4.0			3.2
48 type				6.0			4.8
54 type				8.0			6.4

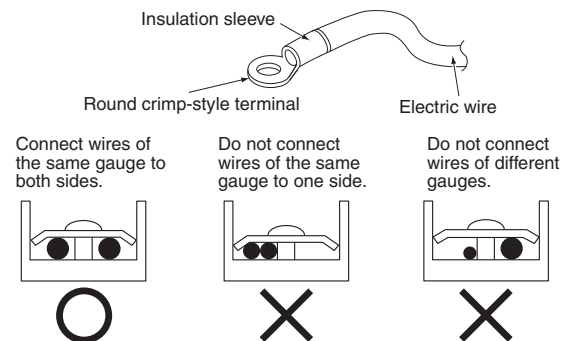
MCA: Minimum Circuit Amps (A)  
 MOP: Max Overcurrent Protective Device (A)  
 HP: Fan motor output (HP)      FLA: Full Load Amps (A)

**9. WIRING EXAMPLE**

**9-1 HOW TO CONNECT WIRINGS**

**(Precautions when laying power supply wiring)**

- Wiring of different thicknesses cannot be connected to the power supply wiring terminal block. Slack in the power supply wiring may cause abnormal heat.
- Use sleeve-insulated round crimp-style terminals for connections to the power supply wiring terminal block. When none are available, connect wires of the same diameter to both sides, as shown in the figure.



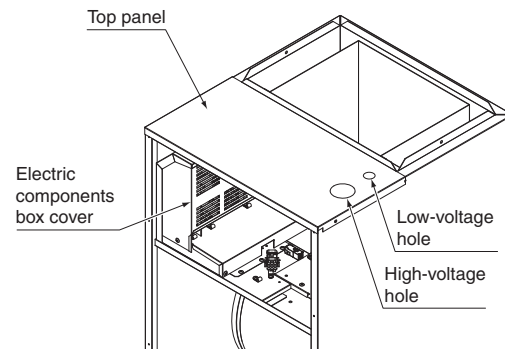
**If the wiring gets too hot due to loose power-supply wiring, use the following precautions:**

- For wiring, use the designated power supply wiring and connect firmly, then secure to prevent outside pressure being exerted on the terminal board.
- 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 Table 2 for the tightening torque of the terminal screws.

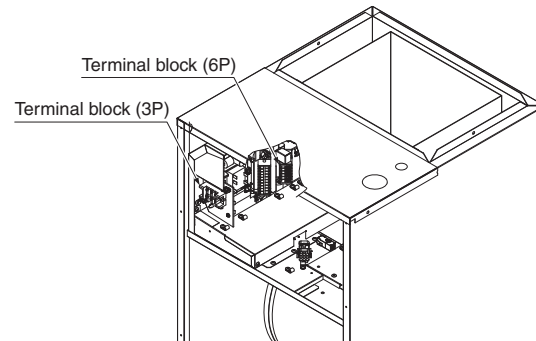
**Table 2**

Terminal block	Tightening torque (ft · lbf)
Remote controller / transmission wiring terminal block (6P) (10P)	0.58 – 0.72
Power supply wiring terminal block (3P)	0.87 – 1.06

**(1) Remove the front panel (upper).**



**(2) Remove the electric component box cover.**



**(3) Pass the power supply wiring and the ground wire through the top panel's high-voltage hole (requires use of conduit) and pass the remote controller wiring and transmission wiring through the top panel's low-voltage hole.**

- Pass the included insulation tube through the hole in the panel before connecting the electric wires and the ground wire to the terminal block (3P) shown in Fig. 9.
- Pass the included insulation tube through the hole in the panel before connecting the remote controller wiring and transmission wires to the terminal block (6P) shown

in Fig. 10.

- Then secure them in place with the included clamp material (1) as shown in Fig. 10 to protect them from external force from outside the unit.
- If the power supply voltage is 208V, change the transformer wire connection from the 240V terminal to the 208V terminal. (Refer to Fig. 11)

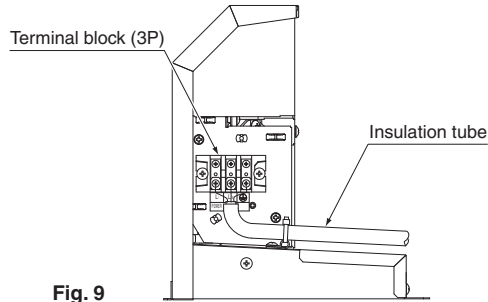


Fig. 9

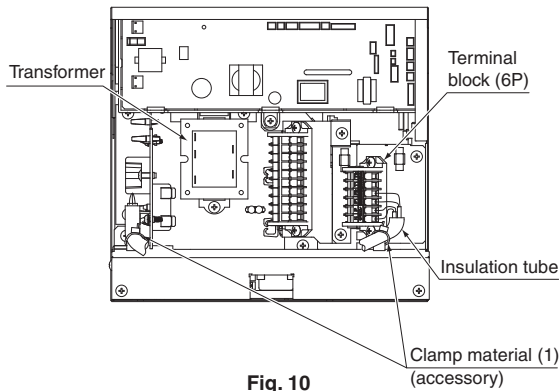


Fig. 10

**Changing the transformer wire connection**

Connector  
(Connect the wire to the 208V terminal. Be sure to insert the wire securely until a clicking sound is produced.)

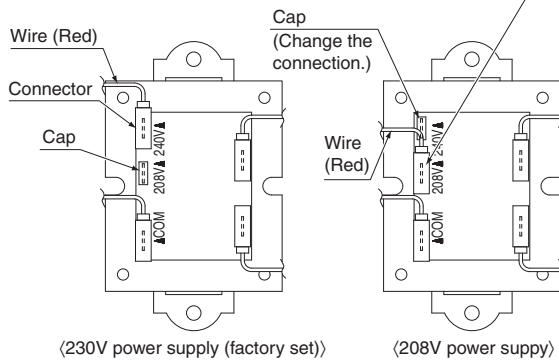
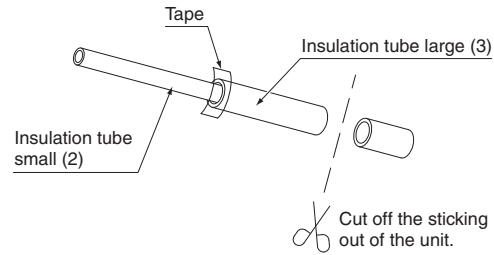


Fig. 11

**How to use insulation tube.**

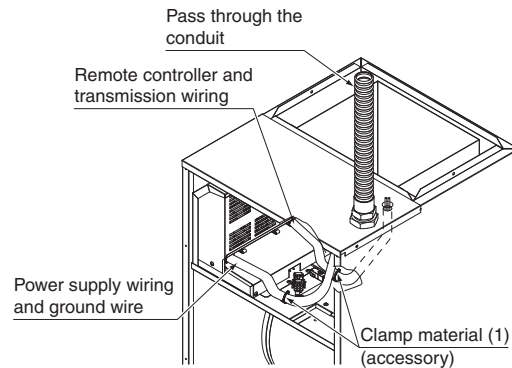
- Use the insulation tube to cover the wiring.
- Joint the insulation tube with the tape and cut off the tube sticking out of the unit.



**(4) Install the electric component box cover.**

**(5) Pass the power supply wiring and the ground wire through the conduit (conduit should be field supplied). The hole for running wires through should be sealed completely to prevent air from entering.**

\* When installing an optional electric heater kit, run both the power supply wiring and ground wire of the electric heater kit through the conduit. (Refer to 10-5 (8))



**(6) Install the front panel (upper).**

**⚠ DANGER**

- Use only specified wire and connect wires to terminals tightly. Be careful that wires do not place external stress on terminals. Keep wires in neat order so as to not to obstruct other equipment. Make sure that the electric component box cover closes tightly. Incomplete connections could result in overheating, and in worse cases, electric shock or fire.

**⚠ WARNING**

- Never connect power supply wiring to the terminal block for remote controller wiring as this could damage the entire system.

**⚠ CAUTION**

- When doing the wiring, make sure the wiring is neat and does not cause the electric component box cover to stick up, then close the cover firmly. When attaching the electric component box cover, make sure you do not pinch any wires.



- Outside the air conditioners, separate the low voltage wiring (remote controller and transmission wiring) and high voltage wiring (ground wire and power supply wiring) by at least 5 in. so that they do not pass through the same place together. Proximity may cause electrical interference, malfunctions, and breakage.

[ PRECAUTIONS ]

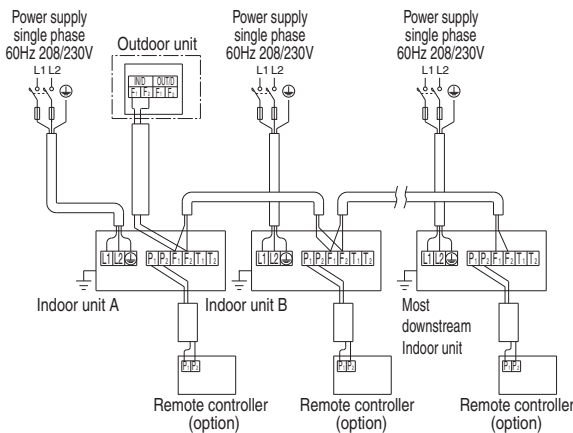
- Refer to the "REMOTE CONTROLLER INSTALLATION MANUAL" on how to install and lay the wiring for the remote controller.
- See also the "Wiring Diagram Label" located inside the unit's fan housing.
- Connect the remote controller and transmission wiring their respective terminal blocks.

**⚠ CAUTION**

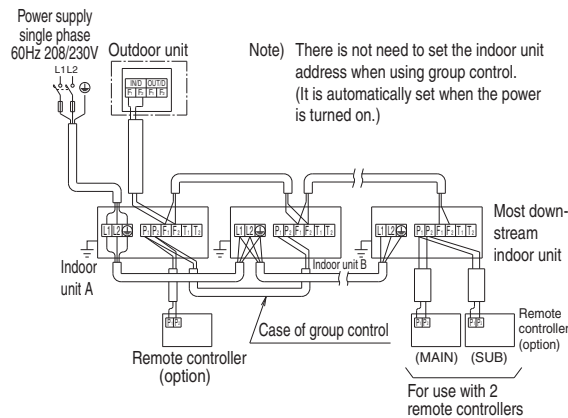
- Do not, under any circumstances, connect the power supply wiring to the remote controller or transmission wiring terminal block. Doing so can destroy the entire system.

[ WIRING EXAMPLE ]

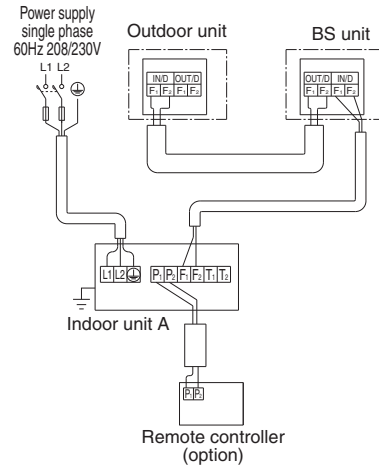
**No. 1 system When using 1 remote controller for 1 indoor unit**



**No. 2 system For group control or use with 2 remote controllers**



**No. 3 system When including BS unit**

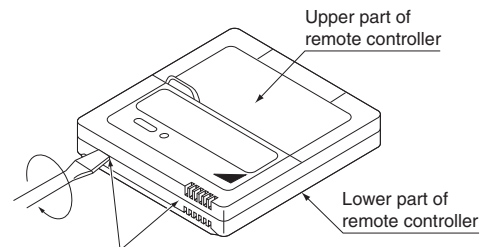


**9-2 CONTROL BY 2 REMOTE CONTROLLERS (Controlling 1 indoor unit by 2 remote controllers)**

- When using 2 remote controllers, one must be set to "MAIN" and the other to "SUB".
- If the remote controller to be used is Model BRC1E71, read the installation manual supplied with the remote controller.

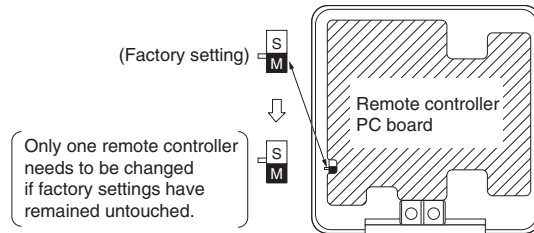
**MAIN/SUB CHANGEOVER**

- (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.



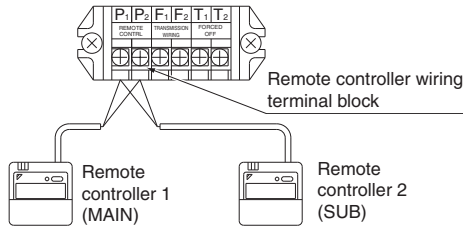
Insert the screwdriver here and gently work off the upper part of remote controller.

- (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".)



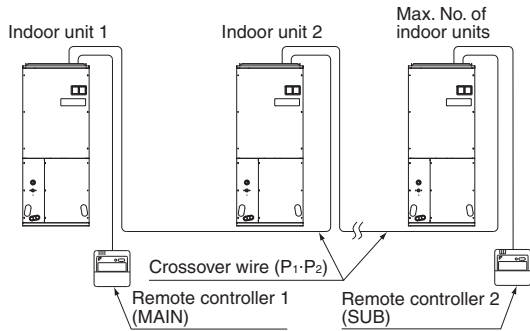
**Wiring Method** (See “8. ELECTRIC WIRING WORK”)

- (3) Remove the electric component box cover.
- (4) Add remote controller 2 (SUB) to the terminal block for remote controller (P<sub>1</sub>, P<sub>2</sub>) in the electric component box.  
(There is no polarity.)



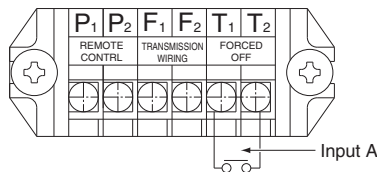
**[ PRECAUTIONS ]**

- Crossover wiring is needed when using group control and 2 remote controllers at the same time.
- Connect the indoor unit at the end of the crossover wire (P<sub>1</sub>, P<sub>2</sub>) to remote controller 2 (SUB).



**9-3 REMOTE CONTROL (FORCED OFF AND ON/OFF OPERATION)**

- Connect input lines from the outside to the terminals T<sub>1</sub> and T<sub>2</sub> on the terminal block (6P) for remote controller to achieve remote control.
- See the “10. FIELD SETTING AND TEST RUN” for details on operation.



Wire specification	Sheathed vinyl cord or cable (2 wires)
Gauge	AWG18 – 16
Length	Max. 328 ft.
External terminal	Contact that can ensure the minimum applicable load of 16 V DC, 1 mA.

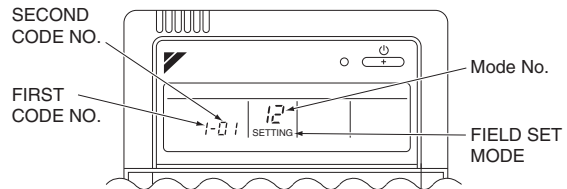
**9-4 CENTRALIZED CONTROL**

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

**10. FIELD SETTING AND TEST RUN**

〈Field settings may have to be performed using the remote controller, depending on the type of installation.〉

- (1) Make sure the electric component box covers are closed on the indoor and outdoor units.
- (2) Depending on the type of installation, make the field settings from the remote controller after the power is turned on, following the “Field Settings” manual which came with the remote controller.
  - The settings can select “Mode No.,” “FIRST CODE NO.” and “SECOND CODE NO.”
  - The “Field Settings” included with the remote controller lists the order of the settings and method of operation.



- Lastly, make sure the customer keeps the “Field Settings” manual, along with the operating manual, in a safe place.

**10-1 SETTINGS WHEN USING THE OPTIONAL REMOTE SENSOR**

This product does not include an air inlet thermistor. It uses a remote controller thermistor for control purposes. For this reason, it is necessary to install an optional remote thermistor in the following cases:

- When the remote controller will be installed at a location where it cannot accurately measure the indoor temperature.
- When using a remote controller without a built-in thermistor (simple remote controller, wireless remote controller, no remote controller).

When using an optional remote sensor, change the settings as described Table 3:

**Table 3**

	Mode No.	FIRST CODE NO.	SECOND CODE NO.
To use both the remote controller thermistor and the remote sensor	10 (20)	2	01
To use only the remote sensor			02
To use only the remote controller thermistor			03*

\* factory set

**10-2 REMOTE CONTROL SETTING**

- Forced off and ON/OFF operation should be selected by selecting the SECOND CODE NO. as shown in Table 4.

**Table 4**

External ON/OFF input	Mode No.	FIRST CODE NO.	SECOND CODE NO.
Forced off	12 (22)	1	01*
ON/OFF operation			02

\* factory set

- Input A of forced off and ON/OFF operation work as shown in Table 5.

**Table 5**

Forced off	ON/OFF operation
Input A "on" to force a stop (remote controller reception prohibited)	Unit operated by changing input A from "off" to "on"
Input A "off" to allow remote controller	Unit stopped by changing input A from "on" to "off"

**10-3 SETTING THE FILTER SIGN DISPLAY INTERVAL**

- Explain the following to the customer if the filter dirt settings have been changed.
- The filter sign display time is set to 2500 hours (equivalent to 1 year's use) when shipped.
- The settings can be changed to not display.
- When installing the unit in a dusty place, set the filter sign display time to shorter intervals (1,250 hours).
- Explain it to the customer that the filter needs to be cleaned regularly to prevent clogging and also the time that is set.

Mode No.	FIRST CODE NO.		SECOND CODE NO.	
			01	02
10 (20)	0	Filter dirt	low	high
	1 (low/high)	Displayed time (units: hours)	2500/ 1250	10000/ 5000
	3	Filter sign display	ON	OFF

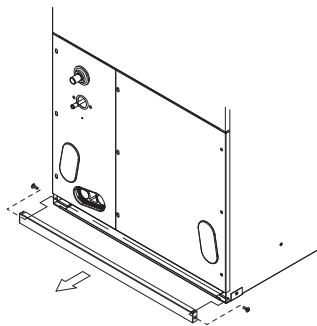
**10-4 INSTALLATION OF THE OPTIONAL AIR FILTER**

- Purchase and install the air filter as in Table 6.

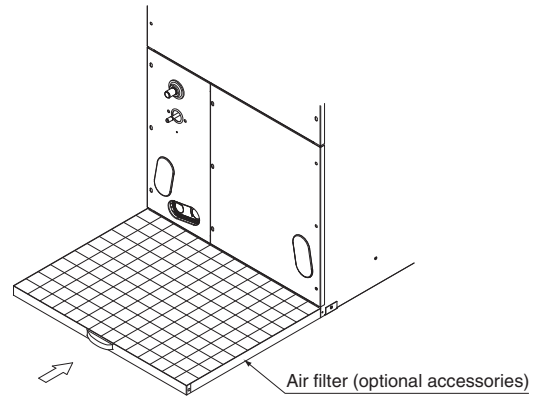
**Table 6**

	Air filter
12 · 18 type	FIL 36-42
24 · 30 · 36 · 42 · 48 · 54 type	FIL 48-61

(1) Take off the part on the bottom of the front panel.



(2) Insert the air filter as far as it can go.



**10-5 INSTALLATION OF THE ELECTRIC HEATER KIT**

**WARNING**

- All phases of the electrical installation must comply with - national, state, provincial, and local codes.
- When connecting an electric heater, be sure to install a ground leakage breaker.
- If a ground circuit is not installed, electrical shock or fire may result.
- Regarding the rated current of the ground leakage circuit breaker to be installed, refer to the H.M.C.A. value indicated on the manufacturer's label or in a technical document.
- The recommended rapid sensitive current and tripping time are indicated below.

**Recommended specifications of circuit breaker**

Rapid sensitive current	30mA
Tripping time	0.1sec

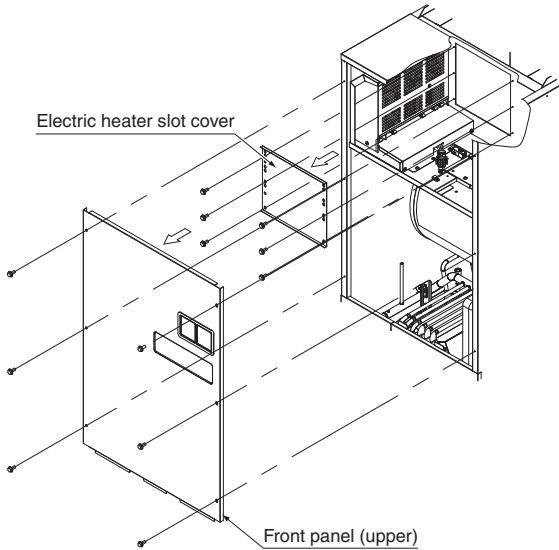
- Purchase and install the electric heater kit as in Table 7.
- Also refer to the installation and operating instructions that come with the electric heater kit.
- The indoor unit fan operates at H speed during HEATER operation.

**Table 7**

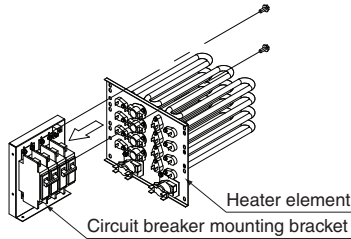
Model	Electric heater kit model name						
	HKR-03	HKR-05C	HKR-06	HKR-08C	HKR-10C	HKR-15C	HKR-20C
12 type	×	×					
18 type	× <sup>1</sup>	×	×				
24 type	× <sup>1</sup>	×	×	×	×		
30 · 36 type	× <sup>1</sup>	× <sup>1</sup>	×	×	×		
42 type	× <sup>1</sup>	× <sup>1</sup>	× <sup>1</sup>	× <sup>1</sup>	×	× <sup>2</sup>	
48 · 54 type	× <sup>1</sup>	× <sup>1</sup>	× <sup>1</sup>	× <sup>1</sup>	×	× <sup>2</sup>	× <sup>2</sup>

- ×<sup>1</sup> : Auxiliary and Heat Pump Lockout: Electric heater operation with heat pump is allowed.
- × : Heat Pump Lockout: Only electric heater operation is allowed. Heat pump and electric heater cannot operate at the same time.
- ×<sup>2</sup> : Heat Pump Lockout: Only electric heater operation is allowed. Heat pump and electric heater cannot operate at the same time. In addition, acceptable 2 step heating control.

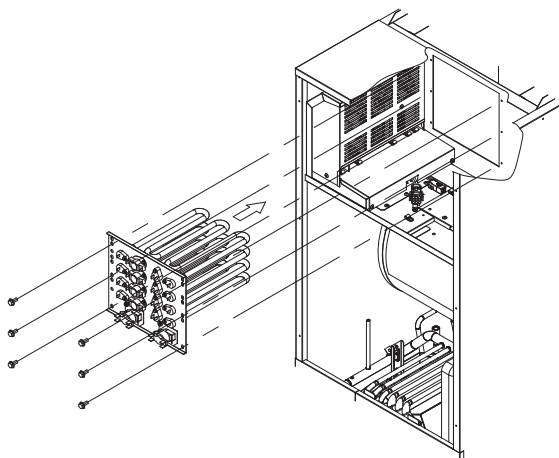
- (1) Turn off power supply to all indoor and outdoor units.
- (2) Remove the front panel (upper) and the electric heater slot cover.



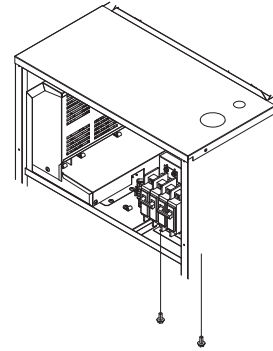
- (3) Remove the circuit breaker mounting bracket from the heater element in the electric heater kit by removing the 2 screws. (Do not remove the harness)
- \* The HKR-03 and HKR-06 have no circuit breaker mounting bracket, so proceed from the next step.



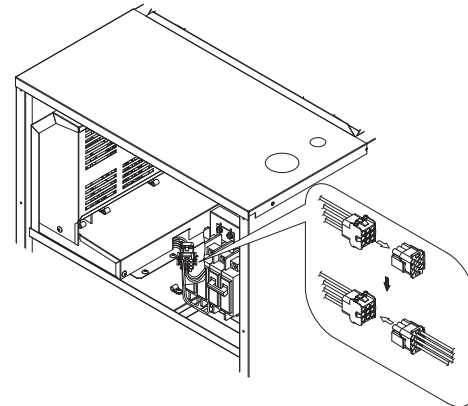
- (4) Insert the heater element in the electric heater kit into the electric heater slot, and use six of the screws taken out in step (2) to install it. When doing so, check that airflow is matched. Refer to the heater kit for details of airflow.



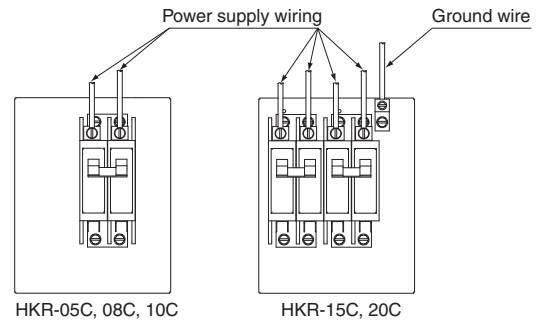
- (5) Install the circuit breaker mounting bracket removed in step (3) into the blower deck.
- \* The HKR-03 and HKR-06 have no circuit breaker mounting bracket; Procure and install a circuit breaker.



- (6) Connect the relay connector of the heater kit to the relay connector of the product. Disconnect the empty connector connected to the relay connector of the product.



- (7) Check that the circuit breaker is turned off, and connect the heater kit to the wiring on site.



HKR-05C, 08C, 10C

HKR-15C, 20C

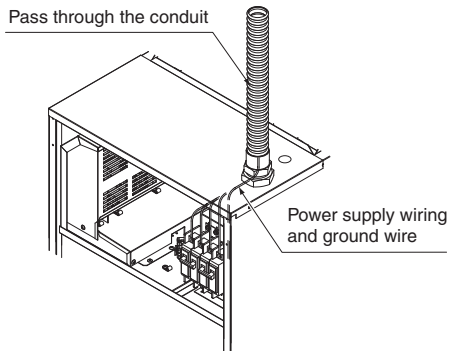
\* When using HKR-03, 06, connect the power supply wire to the terminal block located inside the main unit of the heater element.

\* When using HKR-03, 05C, 06, 08C, 10C, connect the ground wire to the terminal block for indoor units. (The terminal block is located on the air outlet side of the blower deck.)

\* If the HKR-15C/20C is used, connect the ground wire to the both terminals.

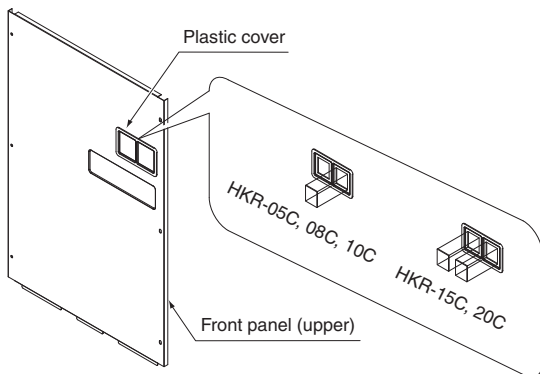
The terminal blocks for ground wire are located on the air outlet side of the indoor unit blower deck and on the circuit breaker mounting bracket of the electric heater kit.

- (8) Pass the power supply wiring and the ground wire through the conduit (conduit should be field supplied). The hole for running wires through should be sealed completely to prevent air from entering.

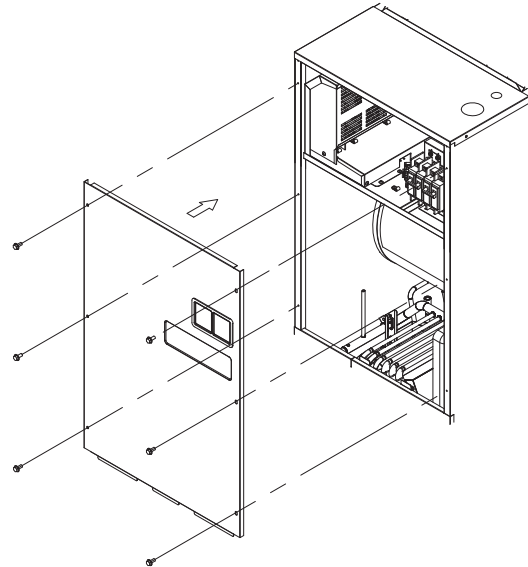


- (9) Select the corresponding electric heater from the electrical wiring diagram and mark the checkbox (☐) for the electric heater with “×”.
- (10) Open the knock hole of the plastic cover provided for the front panel (upper) so that the circuit breaker will be turned on and off through the hole.

\* This step is not required for HKR-03 and HKR-06. Proceed to the next step.



- (11) Confirm that there are no mistakes with the wiring, and install the front panel (upper).



(12) On-site setting of heater

(12)-1 Electric heater capacity setting

Electric Heater capacity setting (Optional kit)	Mode No.	FIRST CODE NO.	SECOND CODE NO.
HKR-03, 05, 06, 08, 10, 15, 20 type	11 (21)	5	01
Without heater			03*

\* factory set

**(12)-2 Electric heater operating mode setting**

⟨When electric heater is used in “Heat Pump lockout mode”⟩

- Check the heater capacity. (Select heater marked with “X” or “X<sup>2</sup>” in Table 8.)
- Perform on-site setting using the remote controller.
- Set the “heat pump lockout mode” using the outdoor unit. (Refer to the service manual for the outdoor unit.)

⟨When used as “Auxiliary electric heater”⟩

- Check the heater capacity. (Select heater marked with “X<sup>1</sup>” in Table 8.)
- Perform on-site setting using the remote controller.

**Table 8**

Model	Electric heater kit model name						
	HKR-03	HKR-05C	HKR-06	HKR-08C	HKR-10C	HKR-15C	HKR-20C
12 type	X	X					
18 type	X <sup>1</sup>	X	X				
24 type	X <sup>1</sup>	X	X	X	X		
30 - 36 type	X <sup>1</sup>	X <sup>1</sup>	X	X	X		
42 type	X <sup>1</sup>	X <sup>1</sup>	X <sup>1</sup>	X <sup>1</sup>	X	X <sup>2</sup>	
48 - 54 type	X <sup>1</sup>	X <sup>1</sup>	X <sup>1</sup>	X <sup>1</sup>	X	X <sup>2</sup>	X <sup>2</sup>

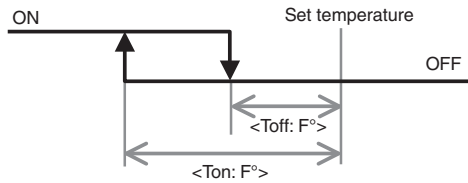
  

Electric Heater kit setting (Optional kit)	Mode No.	FIRST CODE NO.	SECOND CODE NO.
Heat Pump lock out mode	11 (21)	3	01*
Auxiliary electric heater & Heat Pump Lockout mode available			03

\* factory set

**(12)-3 Electric heater ON/OFF temperature setting**

- While in heating operation, the heater control (ON/OFF) is conducted as shown below;



- Perform on-site setting using the remote controller.

Mode No.	FIRST CODE NO.	CODE	SECOND CODE NO.						
			01*	02	03	04	05	06	
10 (20)	7	<Ton>	-7.2	-6.3	-5.4	-4.5	-3.6	-2.7	
		<Toff>	-3.6	-2.7	-1.8	-0.9	0	0.9	

\* factory set

**10-6 SETTING FOR LOCAL SUPPLIED OPTION.**

**(1) Installation of the humidifier, economizer and air purifier (UV lamp)**

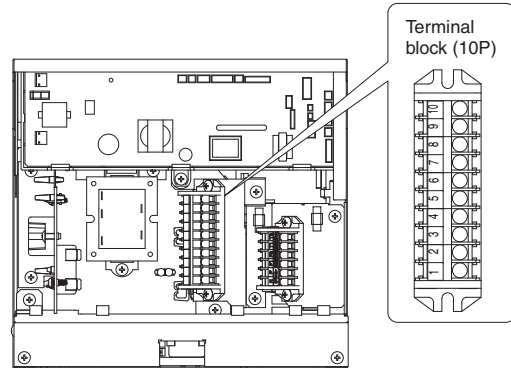
- Humidifier, economizer and air purifier (UV lamp) are sold separately. For the method of installation, refer to the manual provided with each optional product.

**⚠ WARNING**

- If the unit is installed with an electric heater, install the optional product at a location where it is not exposed directly to the heat from the electric heater. Direct exposure to heat can result in an equipment malfunction or fire.

**(2) Connect the wires**

- Run the wires through the low-voltage hole.
- Connect the wires to the terminal block (10P) of the product. The terminal Nos. for wire connection are shown below. Refer to the information as needed. Terminal Nos. are indicated on the name plate for the terminal block.



Terminal No.	Input/output signal
1, 2	Outputs: indoor unit ON signal. (AC 24V)
3, 4	Outputs: indoor unit cooling THERMO ON signal. (AC 24V)
5, 6	Receives input: Air purifier operation ON signal. (dry contact)
7, 8	Receives input: Humidifier operation ON signal. (dry contact)
9, 10	Receives input: Forced closure of Indoor Unit Electronic Expansion Valve during cooling operation. (dry contact)

**(3) On-site setting of air purifier/humidifier**

Mode No.	FIRST CODE NO.	01	02	03
14 (24)	4	FAN SPEED UNDER OPERATING purifier and humidifier	Refer to remote controller setting SPEED	H*
14 (24)	5	FAN RESIDUE TIME FOR HUMIDIFIER	30 [sec]	60* [sec] 120 [sec]

\* factory set

**10-7 SETTINGS FOR SEPARATELY SOLD ACCESSORIES**

- See the instruction manuals included with optional accessories for the necessary settings.

**(When using a wireless remote controller)**

- A wireless remote controller address needs to be set when using a wireless remote controller. See the installation manual included with the wireless remote controller for details on how to make the settings.

**Perform a test run according to the outdoor unit's installation manual.**

- The operation lamp of the remote controller will flash when a 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 outdoor unit.

If the display shows any of the following, there is a possibility that the wiring was done incorrectly or that the power is not on, so check again.


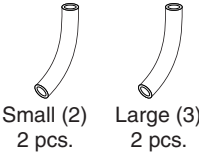
Remote control display	Content
"CENTRAL CONTROL" display	<ul style="list-style-type: none"> <li>• There is a short circuit at the FORCED OFF terminals (T<sub>1</sub>, T<sub>2</sub>).</li> </ul>
"U3" display	<ul style="list-style-type: none"> <li>• The test-run has not been performed.</li> </ul>
"U4" display "U4" display	<ul style="list-style-type: none"> <li>• The power on the outdoor unit is off.</li> <li>• The outdoor unit has not been wired for power supply.</li> <li>• Wiring is incorrect for the transmission wiring and / or FORCED OFF wiring.</li> <li>• The transmission wiring is cut.</li> </ul>
"U5" display	<ul style="list-style-type: none"> <li>• Reversed transmission wiring</li> </ul>
No display	<ul style="list-style-type: none"> <li>• The power on the indoor unit is off.</li> <li>• The indoor unit has not been wired for power supply.</li> <li>• Wiring is incorrect for the remote controller wiring, the transmission wiring and / or the FORCED OFF wiring.</li> <li>• The remote controller wiring is cut.</li> </ul>

**⚠ CAUTION**

- Always stop the test run using the remote controller to stop operation.

## 9. Accessories

### Standard Accessories

Name	Clamp material (1)	Insulation tube	(Other) • Operation manual • Installation manual
Quantity	4 pcs.	1 set	
Shape		 Small (2) 2 pcs.      Large (3) 2 pcs.	

3P250363-2B

### Optional Accessories (For Controls): Refer to booklet of “Controls”.

### Optional Accessories (For Unit)

No.	Item	FXTQ~PAVJU							
		12	18	24	30	36	42	48	54
1	Air filter	FIL 36-42			FIL 48-61				
2	Insulation kit (Vertical installation)	DPI 36-42/20			DPI 48-60/20				
3	Insulation kit (Horizontal installation)	DPIH 36-42			DPIH 48-61				
4	Electric heater kit	HKR-03, HKR-05C, HKR-06, HKR-08C, HKR-10C, HKR-15C, HKR-20C. • HKR-**C has circuit breaker. • For details, see below table.							

Model name	Electric heater capacity						
	HKR-03	HKR-05C	HKR-06	HKR-08C	HKR-10C	HKR-15C	HKR-20C
FXTQ12PAVJU	○	○	×	×	×	×	×
FXTQ18PAVJU	◎	○	○	×	×	×	×
FXTQ24PAVJU	◎	○	○	○	○	×	×
FXTQ30PAVJU	◎	◎	○	○	○	×	×
FXTQ36PAVJU	◎	◎	○	○	○	×	×
FXTQ42PAVJU	◎	◎	◎	◎	○	○ Note 1)	×
FXTQ48PAVJU	◎	◎	◎	◎	○	○ Note 1)	○ Note 1)
FXTQ54PAVJU	◎	◎	◎	◎	○	○ Note 1)	○ Note 1)

◎ : Electric heater operation with heat pump is allowed.

○ : Only electric heater operation is allowed.

× : Not allowed.

**Note:** 1. Acceptable for 2-step control.

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Warning



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Ask a qualified installer or contractor to install this product. Do not try to install the product yourself. Improper installation can result in water or refrigerant leakage, electrical shock, fire, or explosion.

Use only those parts and accessories supplied or specified by Daikin. Ask a qualified installer or contractor to install those parts and accessories. Use of unauthorized parts and accessories or improper installation of parts and accessories can result in water or refrigerant leakage, electrical shock, fire, or explosion.

Read the User's Manual carefully before using this product. The User's Manual provides important safety instructions and warnings. Be sure to follow these instructions and warnings.

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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.



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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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