

## TECHNICAL MANUAL

### Spec Sheet

## INVERTER DRIVEN MULTI-INDOOR UNIT CLIMATE CONTROL SYSTEM

### Alternative refrigerant R410A use models

#### (OUTDOOR UNIT)

FDC112KXEN6 (1phase)  
FDC140KXEN6 (1phase)  
FDC155KXEN6 (1phase)

FDC112KXES6 (3phase)  
FDC140KXES6 (3phase)  
FDC155KXES6 (3phase)

#### (INDOOR UNIT)

FDT28KXE6	FDTW28KXE6	FDU71KXE6	FDQS22KXE6	FDE36KXE6
FDT36KXE6	FDTW45KXE6	FDU90KXE6	FDQS28KXE6	FDE45KXE6
FDT45KXE6	FDTW56KXE6	FDU112KXE6	FDQS36KXE6	FDE56KXE6
FDT56KXE6	FDTW71KXE6	FDU140KXE6	FDQS45KXE6	FDE71KXE6
FDT71KXE6	FDTW90KXE6	FDU224KXE6	FDQS56KXE6	FDE112KXE6
FDT90KXE6	FDTW112KXE6	FDU280KXE6		FDE140KXE6
FDT112KXE6	FDTW140KXE6		FDK22KXE6	
FDT140KXE6		FDUM22KXE6	FDK28KXE6	FDFL28KXE6
FDT160KXE6	FDTQ22KXE6	FDUM28KXE6	FDK36KXE6	FDFL45KXE6
	FDTQ28KXE6	FDUM36KXE6	FDK45KXE6	FDFL71KXE6
FDTC22KXE6	FDTQ36KXE6	FDUM45KXE6	FDK56KXE6	
FDTC28KXE6		FDUM56KXE6	FDK71KXE6	FDFU28KXE6
FDTC36KXE6	FDTS45KXE6	FDUM71KXE6		FDFU45KXE6
FDTC45KXE6	FDTS71KXE6	FDUM90KXE6		FDFU56KXE6
FDTC56KXE6		FDUM112KXE6		FDFU71KXE6
		FDUM140KXE6		

# CONTENTS

## 1. OUTDOOR UNIT

1.2 Specifications	2 page
2.2 Exterior dimensions	3
2.3 Electrical wiring	4

## 2. INDOOR UNIT

### 2.1 Specifications

(a) Ceiling Cassette -4way- (FDT)	6
(b) Ceiling Cassette -4way- Compact (600x600mm) (FDTC)	8
(c) Ceiling Cassette -2way- (FDTW)	9
(d) Ceiling Cassette -1way Compact- (FDTQ)	11
(e) Ceiling Cassette -1way- (FDTS)	14
(f) Duct Connected -High Static Pressure- (FDU)	15
(g) Duct Connected -Low/middle Static Pressure- (FDUM)	17
(h) Duct Connected (Ultra thin) -Low Static Pressure- (FDQS)	19
(i) Wall Mounted (FDK)	22
(j) Ceiling Suspended (FDE)	24
(k) Floor Standing (with casing) (FDL)	26
(l) Floor Standing (without casing) (FDL)	27

2.2 Exterior dimensions	28
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2.3 Electrical wiring	58
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3. Refrigerant cycle	78
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OUTDOOR UNIT (FDC)



Models		FDC112KXEN6	FDC140KXEN6	FDC155KXEN6	FDC112KXES6	FDC140KXES6	FDC155KXES6
Nominal cooling capacity*(1)	kW	11.2	14.0	15.5	11.2	14.0	15.5
Nominal heating capacity*(1)		12.5	16.0	16.3	12.5	16.0	16.3
Power source		1 Phase 220-240V 50Hz , 220V 60Hz			3 Phase 380-415V 50Hz , 380V 60Hz		
Power consumption	Cool	2.80	4.17	4.71	2.80	4.17	4.71
	Heat	2.89	4.31	4.38	2.89	4.31	4.38
Running current	Cool	13.5 / 12.4	20.6 / 18.9	23.3 / 21.3	4.5 / 4.1	6.9 / 6.3	7.8 / 7.1
	Heat	14.1 / 12.9	21.5 / 19.7	21.9 / 20.1	4.7 / 4.3	7.2 / 6.6	7.3 / 6.7
Sound Pressure Level	dB(A)	52 / 54	53 / 55	53 / 56	52 / 54	53 / 55	53 / 56
Exterior dimensions Height x Width x Depth	mm	845 × 970 × 370					
Net weight	kg	82					
Refrigerant equipment compressor type & Q'ty		RMT5126MDE21 × 1			RMT5126MDE31 × 1		
Motor	kW	1.9	2.9	3.2	1.9	2.9	3.2
Starting method		Direct line start					
capacity control	%	29-113	22-110	21-101	29-113	22-112	21-109
Crankcase heater	W	20					
Refrigerant equipment Heat exchanger		Straight fin & inner grooved tubing					
Refrigerant control		Electronic expansion valve					
Refrigerant		R410A					
Quantity	kg	5.0					
Refrigerant oil	l	1.0 (M-MA68)					
Defrost control		MC controlled De-Icer					
Air handling equipment fan type & Q'ty		Propeller fan × 1					
Motor	W	86					
Starting method		Direct line start					
Air flow(Standard)	CMM	75 / 75	75 / 82	75 / 82	75 / 75	75 / 82	75 / 82
Shock & vibration absorber		Rubber mount ( for compressor & fan motor )					
Safety equipment		Compressor over current protection / abnormal high pressure protection abnormal low pressure protection / abnomal discharge temperature protection / over current protection					
Installation data Refrigerant piping size	mm(in)	Liquid line: 9.52 (3/8") Gas line: 15.88 (5/8")					
Connecting method		Flare ( both Liquid & Gas lines )					
Drain		Hole for drain ( 20 × 3pcs )					
Insullation for piping		Necessary ( both Liquid & Gas lines )					
Accessories		-	-	-	-	-	-
Exterior dimensions		PCA001Z546	PCA001Z546	PCA001Z546	PCA001Z546	PCA001Z546	PCA001Z546
Electrical wiring		PCA001Z547	PCA001Z547	PCA001Z547	PCA001Z549	PCA001Z549	PCA001Z549

Notes

(1) The data are measured at the following conditions.

Item	Indoor air temperature		Outdoor air temperature		Standards
	DB	WB	DB	WB	
Cooling*1	27	19	35	24	ISO-T1
Heating*2	20	-	7	6	

(2) This packaged air-conditioner is manufactured and tested in conformity with the following standard.  
ISO-T1 "UNITARY AIR-CONDITIONERS"

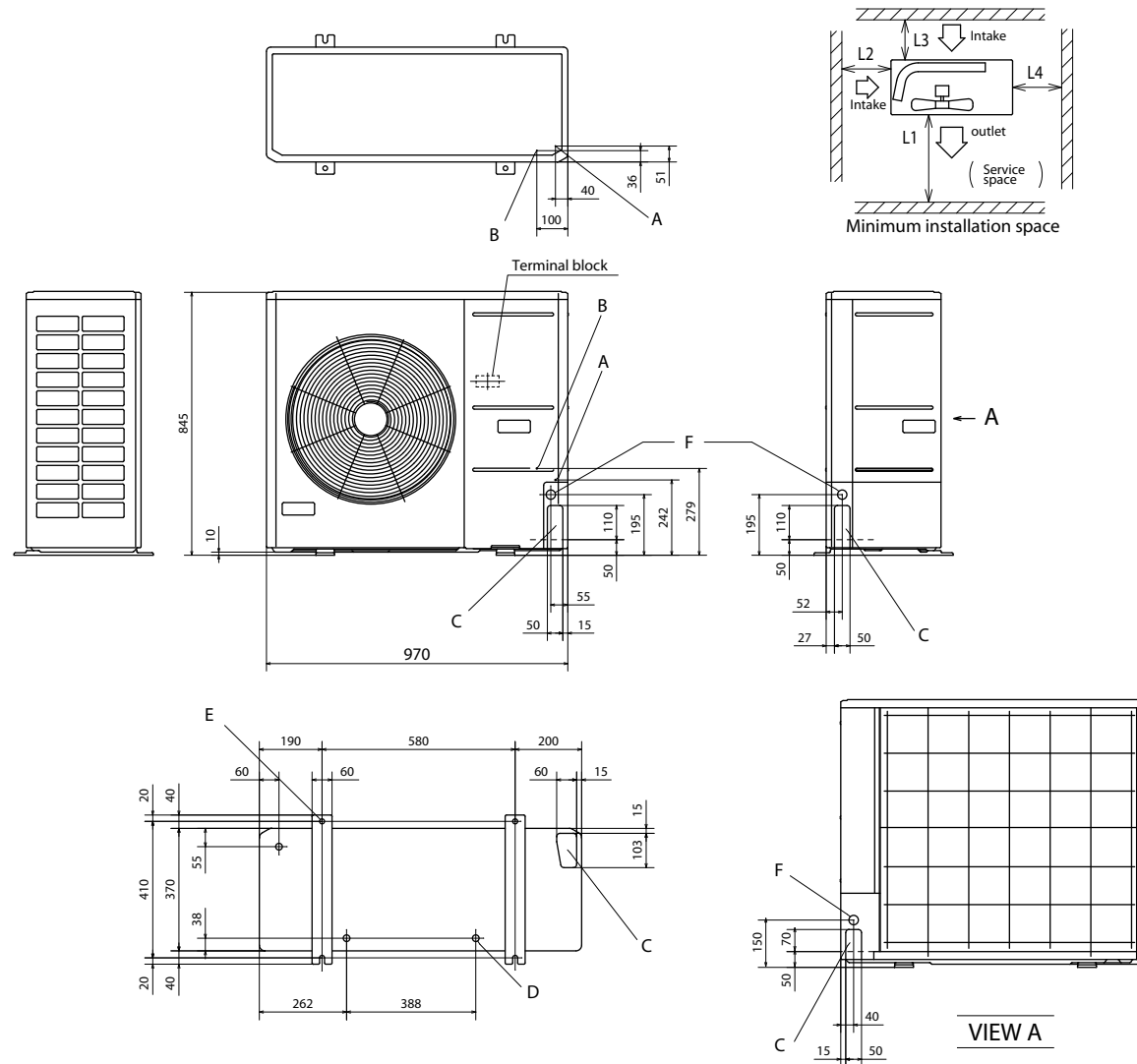
(3) Indoor unit other than KXE6 cannot be connected.

Adapted to RoHS directive

MODEL NAME	FDC112KXEN6,140KXEN6,155KXEN6 FDC112KXES6,140KXES6,155KXES6		
MODEL TYPE	FDC - KXE - 6		
ISSUE	CLASSIFICATION		
SASAKURA	SPECIFICATION (OUTDOOR UNIT)		
	DWG.No.	REV.MARK	PAGE
08.01.30	PCA001Z545		1/1

# Dimensions

All measurements in mm.



Mark	Item	
A	Service valve connection (gas side)	ø5/8" (15.88) (flare)
B	Service valve connection (liquid line)	ø3/8" (9.52) (flare)
C	Pipe/cable draw-out port	4 places
D	Drain discharge port	ø20 x 3 places
E	Anchor bolt hole	M10 x 4 places
F	Cable draw-out port	ø30 x 3 places

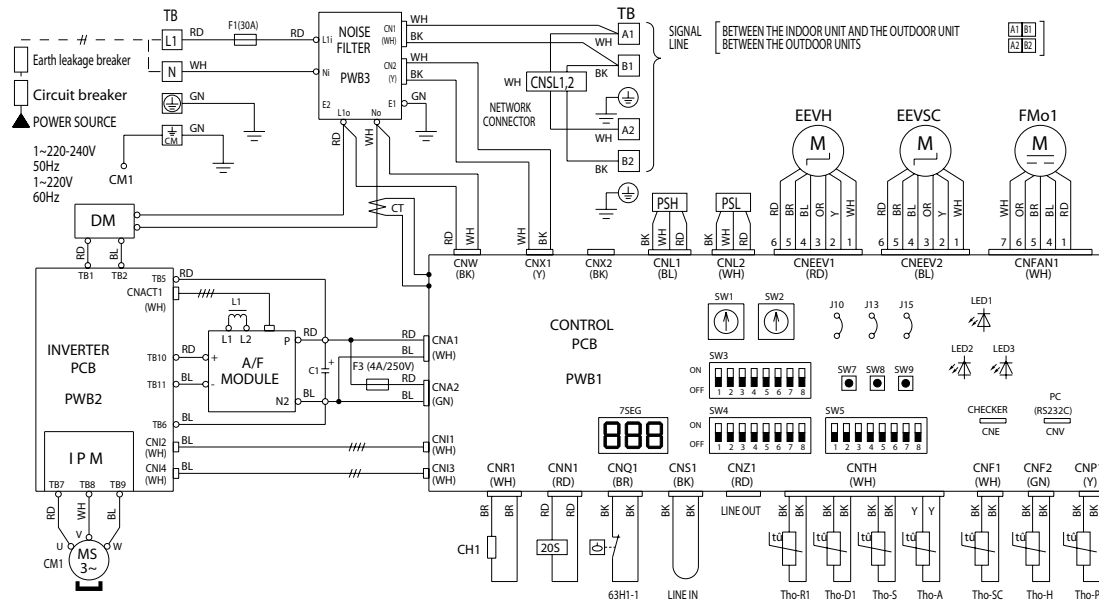
**Notes:**

- (1) It must not be surrounded by walls on the four sides.
- (2) The unit must be fixed with anchor bolts. An anchor bolt must not protrude more than 15mm.
- (3) Where the unit is subject to strong winds, lay it in such a direction that the blower outlet faces perpendicularly to the dominant wind direction.
- (4) Leave a 1m or larger space above the unit.
- (5) A wall in front of the blower outlet must not exceed the units height.
- (6) The unit name plate is attached on the lower right corner of the front panel.

	I	II	II
L1	Open	Open	500
L2	300	5	Open
L3	150	300	150
L4	5	5	5

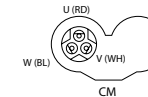
1m overhead clearance required





Color mark

Mark	Color	Mark	Color
BR	Brown	BK	Black
RD	Red	OR	Orange
WH	White	Y	Yellow
BL	Blue	Y/GN	Yellow/Green



1. Instructions for correct operation

- Before you turn on power, please carefully read the installation manual and the operation manual supplied with the unit.
- Please check the following points before operation.
  - 1 This unit is designed exclusively for use with R410A. Do not use any refrigerant other than R410A.
  - 2 To protect the compressor, turn on power for the air conditioner 6 hours before operation so as to warm up sufficiently the dome temperature of compressor.
  - 3 Open the service valve of liquid pipe at first. Secondly open the one of gas pipe. Before you operate the unit, make sure again that the service valve are in open position.
  - 4 Please note that the pressure values detected at the charge port in the unit and the gas service valve are different during the cooling operation and the heating operation. High pressure is replaced with the low pressure depending on whether it is in the cooling or heating operation.
  - 5 You should test run the unit before starting normal operation to see if the addresses are set correctly and if the indoor electronic expansion valve operates properly. For more information, please refer to the technical manual.

2. Error Indication

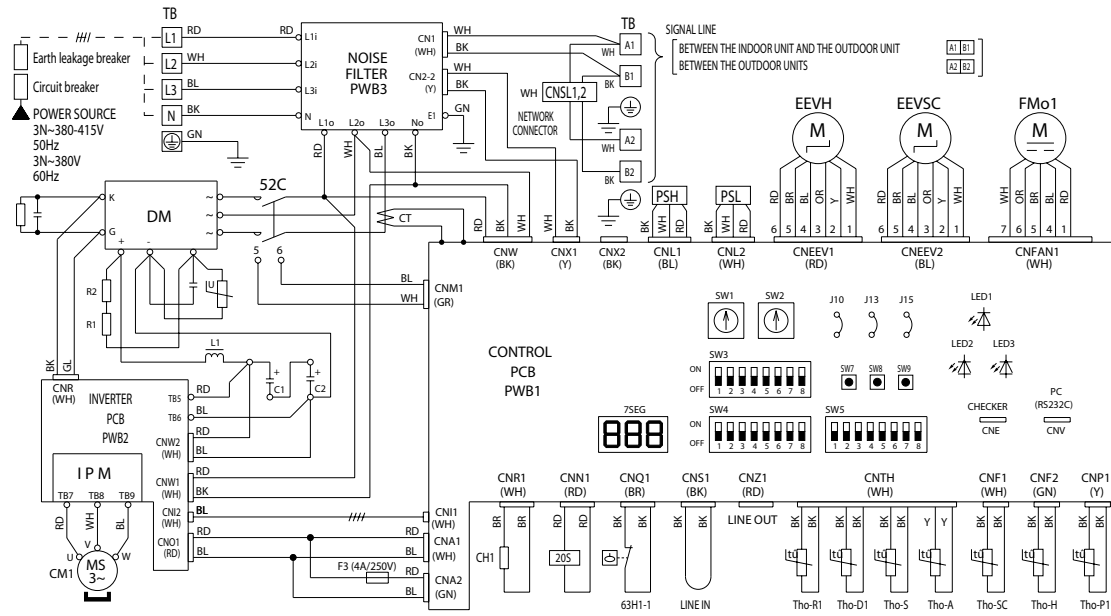
Outdoorunit LED	7-segment display	Inspection
Green	Red	
Cont.	1-time E30	Unmatched indoor/outdoor connection
Cont.	1-time E31	Duplicating outdoor unit address No.
Cont.	1-time E32	Outdoor unit address setting error
Cont.	1-time E33	Power supply phase interruption
Cont.	1-time E34	Td error (Tho-D1)
Cont.	3-time E35	Liquid pack error
Cont.	1-time E36	Heat exchanger sensor 1 disconnection (Tho-R1)
Cont.	5-time E37	Overcooling coil sensor 1 disconnection (Tho-SC)
Cont.	6-time E38	Overcooling coil sensor 2 disconnection (Tho-H)
Cont.	1-time E39	Outdoor air temperature sensor disconnection (Tho-A)
Cont.	1-time E40	Td sensor 1 disconnection (Tho-D1)
Cont.	1-time E41	High pressure switch operation (63H1-1)
Cont.	1-time E42	Power transistor overheat (CM1) (5-time/hour)
Cont.	1-time E43	Current cut (CM1)
Cont.	1-time E44	Too many units connected
Cont.	2-time E45	Too many units connected beyond capacity
Cont.	1-time E46	Transmission error between inverter and outdoor unit PCB (CM1)
Cont.	Dark E47	Auto address and remote control address are mixed in the same network.
Cont.	1-time E48	FM01 error
Cont.	1-time E49	Low pressure error (PSL operated)
Cont.	1-time E50	Power transistor overheat (CM1) (Continued for 15 min.)
Cont.	1-time E51	Suction pipe temperature sensor disconnection (Tho-S)
Cont.	1-time E52	Low pressure sensor disconnection (PSL)/output error
Cont.	2-time E53	High pressure sensor disconnection (PSH)/output error
Cont.	1-time E54	Power transistor temperature sensor 1 disconnection (Tho-P1)
Cont.	3-time E55	Active filter temperature sensor disconnection
Cont.	1-time E56	Anomalous compressor induced voltage and torque (CM1)
Cont.	1-time E57	Compressor startup error (CM1)
Cont.	1-time E58	Compressor position detection error (CM1)
Cont.	1-time E59	Outdoor unit emergency stop error

Mark	Name
C	Electrolytic capacitor
CH	Crankcase heater
CM	Compressor motor
CNA-Z	Connector
CT	Current sensor
DM	Diode module
EEVSC	Electronic expansion valve (For overcooling)
EEVH	Electronic expansion valve (For heating)
FM01	Fan motor
F	Fuse
PSH	High pressure sensor
IPM	Intelligent power module
J10	Superlink terminal setting (spare/normal)
J13	External input switch (pulse/level)
J15	Defrost start temperature (cold weather district/normal)
L	Reactor
LED1	Indicator lamp (Red-Inspection indicator)
LED2	Indicator lamp (Green-Microcomputer normality indication)
LED3	Indicator lamp (Green-For service)
PSL	Low pressure sensor
SW1	Outdoor unit No. (ten's place number)
SW2	Outdoor unit No. (one's place number)
SW3-1	Inspection LED reset
SW3-5	Check operation start
SW3-7	Forced cooling/heating switching
SW4-7	Demand switching
SW4-8	Demand switching
SW5-1	Test run start (normal/start)
SW5-2	Test run cooling setting (heating/cooling)
SW5-3	Pump down (normal/valid)
SW5-5	Superlink protocol setting (new/previous)
SW7/Button	Data erasing/writing
SW8/Button	7-seg display UP, one's place number
SW9/Button	7-seg display UP, ten's place number
TB	Terminal board
Tho-A	Thermistor (outdoor air temperature)
Tho-D	Thermistor (discharge pipe)
Tho-P1	Thermistor (power transistor)
Tho-R1	Thermistor (heat exchanger)
Tho-S	Thermistor (suction pipe)
Tho-SC	Thermistor (sub-cooling coil, liquid)
Tho-H	Thermistor (sub-cooling coil, gas)
205	4-way valve coil
63H1-1	High pressure switch (Protection)

3. 7-segment display

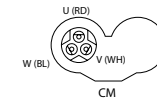
- Select the code No. for each item by pressing SW9 for ten's place and SW8 for one's place.

Code No.	Item displayed
C00	CM1 operation frequency
C02	Tho-A outdoor air temperature
C03	Tho-R1 heat exchanger temperature 1
C07	Tho-D1 discharge pipe temperature (CM1)
C12	Tho-P1 power transistor temperature (CM1)
C14	Tho-SC overcooling coil temperature 1
C15	Tho-H overcooling coil temperature 2
C16	Tho-S suction pipe temperature
C18	CT1 (CM1) current
C20	EEVH heating expansion valve aperture
C22	EEVSC overcooling coil expansion valve aperture
C23	FM01 actual r.p.m.
C25	PSH high pressure sensor
C26	PSL low pressure sensor
C40	Number of connected indoor units
C41	Capacity of connected indoor units
C42	Number of indoor units with thermostat ON
C43	Total request frequency
C44	Integrated time of compressor operation (CM1)



Color mark

Mark	Color	Mark	Color
BR	Brown	BK	Black
RD	Red	OR	Orange
WH	White	Y	Yellow
BL	Blue	Y/GN	Yellow/Green



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  - 4 Please note that the pressure values detected at the charge port in the unit and the gas service valve are different during the cooling operation and the heating operation. High pressure is replaced with the low pressure depending on whether it is in the cooling or heating operation.
  - 5 You should test run the unit before starting normal operation to see if the addresses are set correctly and if the indoor electronic expansion valve operates properly. For more information, please refer to the technical manual.

2. Error Indication

Outdoorunit LED	7-segment display	Inspection
Green	Red	
Cont.	1-time E30	Unmatched indoor/outdoor connection
Cont.	1-time E31	Duplicating outdoor unit address No. Outdoor unit address setting error
Cont.	1-time E32	Power supply phase interruption
Cont.	1-time E36	Td error (Tho-D1)
Cont.	3-time E36	Liquid pack error
Cont.	1-time E37	Heat exchanger sensor 1 disconnection (Tho-R1)
Cont.	5-time E37	Overcooling coil sensor 1 disconnection (Tho-SC)
Cont.	6-time E37	Overcooling coil sensor 2 disconnection (Tho-H)
Cont.	1-time E38	Outdoor air temperature sensor disconnection (Tho-A)
Cont.	1-time E39	Td sensor 1 disconnection (Tho-D1)
Cont.	1-time E40	High pressure switch operation (63H1-1)
Cont.	1-time E41	Power transistor overheat (CM1) (5-time/hour)
Cont.	1-time E42	Current cut (CM1)
Cont.	1-time E43	Too many units connected
Cont.	2-time E43	Too many units connected beyond capacity
Cont.	1-time E45	Transmission error between inverter and outdoor unit PCB (CM1)
Cont.	Dark D	Auto address and remote control address are mixed in the same network.
Cont.	1-time E48	FM01 error
Cont.	1-time E49	Low pressure error (PSL operated)
Cont.	1-time E51	Power transistor overheat (CM1) (Continued for 15 min.)
Cont.	1-time E53	Suction pipe temperature sensor disconnection (Tho-S)
Cont.	1-time E54	Low pressure sensor disconnection (PSL)/output error
Cont.	2-time E54	High pressure sensor disconnection (PSH)/output error
Cont.	1-time E56	Power transistor temperature sensor 1 disconnection (Tho-P1)
Cont.	3-time E56	Active filter temperature sensor disconnection
Cont.	1-time E58	Anomalous compressor induced voltage and torque (CM1)
Cont.	1-time E59	Compressor startup error (CM1)
Cont.	1-time E60	Compressor position detection error (CM1)
Cont.	1-time E63	Outdoor unit emergency stop error

Mark	Name
C	Electrolytic capacitor
CH	Crankcase heater
CM	Compressor motor
CNA-Z	Connector
CT	Current sensor
DM	Diode module
EeVSC	Electronic expansion valve (For overcooling)
EeVH	Electronic expansion valve (For heating)
FMo1	Fan motor
F	Fuse
PSH	High pressure sensor
IPM	Intelligent power module
J10	Superlink terminal setting (spare/normal)
J13	External input switch (pulse/level)
J15	Defrost start temperature (cold weather district/normal)
L	Reactor
LED1	Indicator lamp (Red-Inspection indicator)
LED2	Indicator lamp (Green-Microcomputer normality indication)
LED3	Indicator lamp (Green-For service)
PSL	Low pressure sensor
SW1	Outdoor unit No. (tenOs place number)
SW2	Outdoor unit No. (oneOs place number)
SW3-1	Inspection LED reset
SW3-5	Check operation start
SW3-7	Forced cooling/heating switching
SW4-7	Demand switching
SW4-8	Demand switching
SW5-1	Test run start (normal/start)
SW5-2	Test run cooling setting (heating/cooling)
SW5-3	Pump down (normal/valid)
SW5-5	Superlink protocol setting (new/previous)
SW7 (Button)	Data erasing/writing
SW8 (Button)	7-seg display UP, tenOs place number
SW9 (Button)	7-seg display UP, tenOs place number
TB	Terminal board
Tho-A	Thermistor (outdoor air temperature)
Tho-D	Thermistor (discharge pipe)
Tho-P1	Thermistor (power transistor)
Tho-R1	Thermistor (heat exchanger)
Tho-S	Thermistor (suction pipe)
Tho-SC	Thermistor (sub-cooling coil, liquid)
Tho-H	Thermistor (sub-cooling coil, gas)
20S	4-way valve coil
63H1-1	High pressure switch (Protection)

3. 7-segment display

- Select the code No. for each item by pressing SW9 for tenOs place and SW8 for oneOs place.

Code No.	Item displayed
C00	CM1 operation frequency
C02	Tho-A outdoor air temperature
C03	Tho-R1 heat exchanger temperature 1
C07	Tho-D1 discharge pipe temperature (CM1)
C12	Tho-P1 power transistor temperature (CM1)
C14	Tho-SC overcooling coil temperature 1
C15	Tho-H overcooling coil temperature 2
C16	Tho-S suction pipe temperature
C18	CT1 (CM1) current
C20	EeVH heating expansion valve aperture
C22	EeVSC overcooling coil expansion valve aperture
C23	FM01 actual r.p.m.
C25	PSH high pressure sensor
C26	PSL low pressure sensor
C40	Number of connected indoor units
C41	Capacity of connected indoor units
C42	Number of indoor units with thermostat ON
C43	Total request frequency
C44	Integrated time of compressor operation (CM1)

# Ceiling Cassette -4way- type (FDT)

Models		FDT28KXE6	FDT36KXE6	FDT45KXE6	FDT56KXE6	FDT71KXE6
Panel model (Option)		T-PSA-36W-E	T-PSA-36W-E	T-PSA-36W-E	T-PSA-36W-E	T-PSA-36W-E
Nominal cooling capacity*1	kW	2.8	3.6	4.5	5.6	7.1
Nominal heating capacity*2		3.2	4.0	5.0	6.3	8.0
Power source		220-240V ~ 50Hz / 220V ~ 60Hz	220-240V ~ 50Hz / 220V ~ 60Hz	220-240V ~ 50Hz / 220V ~ 60Hz	220-240V ~ 50Hz / 220V ~ 60Hz	220-240V ~ 50Hz / 220V ~ 60Hz
Power consumption	Cool	kW	0.03 - 0.03 / 0.03	0.03 - 0.03 / 0.03	0.03 - 0.03 / 0.03	0.04 - 0.04 / 0.04
	Heat		0.03 - 0.03 / 0.03	0.03 - 0.03 / 0.03	0.03 - 0.03 / 0.03	0.04 - 0.04 / 0.04
Running current	Cool	A	0.20 - 0.18 / 0.20	0.20 - 0.18 / 0.20	0.20 - 0.18 / 0.20	0.20 - 0.18 / 0.20
	Heat		0.20 - 0.18 / 0.20	0.20 - 0.18 / 0.20	0.20 - 0.18 / 0.20	0.20 - 0.18 / 0.20
Sound Pressure Level		dB(A)		Hi : 35 Me : 33 Lo : 31	Hi : 35 Me : 33 Lo : 31	Hi : 35 Me : 33 Lo : 31
Exterior dimensions Height x Width x Depth		mm		Unit : 246 × 840 × 840 Panel : 35 × 950 × 950	Unit : 246 × 840 × 840 Panel : 35 × 950 × 950	Unit : 246 × 840 × 840 Panel : 35 × 950 × 950
Exterior appearance ( Munsell color )		Plaster White ( 6.8Y8.9/0.2 ) near equivalent		Plaster White ( 6.8Y8.9/0.2 ) near equivalent	Plaster White ( 6.8Y8.9/0.2 ) near equivalent	Plaster White ( 6.8Y8.9/0.2 ) near equivalent
Net weight		kg		Unit : 22 Panel : 5.5	Unit : 22 Panel : 5.5	Unit : 24 Panel : 5.5
Refrigerant equipment Heat exchanger		Louver fin & inner grooved tubing		Louver fin & inner grooved tubing	Louver fin & inner grooved tubing	Louver fin & inner grooved tubing
Refrigerant control		Electronic Expansion Valve		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Air handling equipment Fan type & Q'ty		Turbo fan × 1		Turbo fan × 1	Turbo fan × 1	Turbo fan × 1
Motor		W		50	50	50
Starting method		Direct line start		Direct line start	Direct line start	Direct line start
Air flow(Standard)		CMM		Hi : 18 Me : 16 Lo : 14	Hi : 18 Me : 16 Lo : 14	Hi : 18 Me : 16 Lo : 14
Available static pressure		Pa		0	0	0
Outside air intake		Possible		Possible	Possible	Possible
Air filter, Q'ty		Pocket plastic net × 1 (Washable)		Pocket plastic net × 1 (Washable)	Pocket plastic net × 1 (Washable)	Pocket plastic net × 1 (Washable)
Shock & vibration absorber		Rubber sleeve(for fan motor)		Rubber sleeve(for fan motor)	Rubber sleeve(for fan motor)	Rubber sleeve(for fan motor)
Insulation (noise & heat)		Polyurethane form		Polyurethane form	Polyurethane form	Polyurethane form
Operation control Operation switch		Remote control switch Option: RC-E3		Remote control switch Option: RC-E3	Remote control switch Option: RC-E3	Remote control switch Option: RC-E3
Room temperature control		Thermostat by electronics		Thermostat by electronics	Thermostat by electronics	Thermostat by electronics
Safety equipment		Overload protection for fan motor Frost protection thermostat		Overload protection for fan motor Frost protection thermostat	Overload protection for fan motor Frost protection thermostat	Overload protection for fan motor Frost protection thermostat
Installation data Refrigerant piping size		Liquid line: φ 6.35 (1/4") Gas line: φ 9.52 (3/8")		Liquid line: φ 6.35 (1/4") Gas line: φ 12.7 (1/2")	Liquid line: φ 6.35 (1/4") Gas line: φ 12.7 (1/2")	Liquid line: φ 9.52 (3/8") Gas line: φ 15.88 (5/8")
Connecting method		Flare piping		Flare piping	Flare piping	Flare piping
Refrigerant		R410A		R410A	R410A	R410A
Drain pump		Built-in Drain pump		Built-in Drain pump	Built-in Drain pump	Built-in Drain pump
Drain hose		Connectable with V P 2 0		Connectable with V P 2 0	Connectable with V P 2 0	Connectable with V P 2 0
Insulation for piping		Necessary(both Liquid & Gas line)		Necessary(both Liquid & Gas line)	Necessary(both Liquid & Gas line)	Necessary(both Liquid & Gas line)
Accessories		Mounting kit, Drain hose		Mounting kit, Drain hose	Mounting kit, Drain hose	Mounting kit, Drain hose
Exterior dimensions		PJF000Z051		PJF000Z051	PJF000Z051	PJF000Z051
Electrical wiring		PJF000Z053		PJF000Z053	PJF000Z053	PJF000Z053

Notes (1) The data are measured at the following conditions.

Item	Indoor air temperature		Outdoor air temperature		Standards
	DB	WB	DB	WB	
Cooling*1	27 °C	19 °C	35 °C	24 °C	ISO-T1
Heating*2	20 °C		7 °C	6 °C	

(2) This packaged air-conditioner is manufactured and tested in conformity with the following standard.  
ISO-T1 "UNITARY AIR-CONDITIONERS"

Adapted to **RoHS** directive

MODEL NAME		FDT28KXE6,36KXE6,45KXE6,56KXE6,71KXE6		
MODEL TYPE		F D T - K X E 6		
ISSUE	CLASSIFICATION			
KASAHARA	SPECIFICATION (INDOOR UNIT)			
	DWG.No.	REV.MARK	PAGE	
'07.10.31.	P J F 0 0 0 Z 0 4 9		1 / 2	

**Ceiling Cassette -4way- type (FDT)**

Models		FDT90KXE6	FDT112KXE6	FDT140KXE6	FDT160KXE6
Panel model (Option)		T-PSA-36W-E	T-PSA-36W-E	T-PSA-36W-E	T-PSA-36W-E
Nominal cooling capacity*1	kW	9.0	11.2	14.0	16.0
Nominal heating capacity*2		10.0	12.5	16.0	18.0
Power source		220-240V ~ 50Hz / 220V ~ 60Hz	220-240V ~ 50Hz / 220V ~ 60Hz	220-240V ~ 50Hz / 220V ~ 60Hz	220-240V ~ 50Hz / 220V ~ 60Hz
Power consumption	Cool	kW	0.14 - 0.14 / 0.14	0.14 - 0.14 / 0.14	0.14 - 0.14 / 0.14
	Heat		0.14 - 0.14 / 0.14	0.14 - 0.14 / 0.14	0.14 - 0.14 / 0.14
Running current	Cool	A	0.50 - 0.45 / 0.50	0.50 - 0.45 / 0.50	0.50 - 0.45 / 0.50
	Heat		0.50 - 0.45 / 0.50	0.50 - 0.45 / 0.50	0.50 - 0.45 / 0.50
Sound Pressure Level		dB(A)	Hi : 42 Me : 39 Lo : 36	Hi : 42 Me : 39 Lo : 36	Hi : 45 Me : 43 Lo : 40
Exterior dimensions		mm	Unit : 298 × 840 × 840	Unit : 298 × 840 × 840	Unit : 298 × 840 × 840
Height x Width x Depth			Panel : 35 × 950 × 950	Panel : 35 × 950 × 950	Panel : 35 × 950 × 950
Exterior appearance ( Munsell color )		Plaster White ( 6.8Y8.9/0.2 ) near equivalent	Plaster White ( 6.8Y8.9/0.2 ) near equivalent	Plaster White ( 6.8Y8.9/0.2 ) near equivalent	Plaster White ( 6.8Y8.9/0.2 ) near equivalent
Net weight		kg	Unit : 27 Panel : 5.5	Unit : 27 Panel : 5.5	Unit : 27 Panel : 5.5
Refrigerant equipment		Louver fin & inner grooved tubing	Louver fin & inner grooved tubing	Louver fin & inner grooved tubing	Louver fin & inner grooved tubing
Heat exchanger		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Refrigerant control		Turbo fan × 1	Turbo fan × 1	Turbo fan × 1	Turbo fan × 1
Air handling equipment		W	140	140	140
Fan type & Q'ty		Direct line start	Direct line start	Direct line start	Direct line start
Motor		CMM	Hi : 27 Me : 24 Lo : 20	Hi : 27 Me : 24 Lo : 20	Hi : 30 Me : 27 Lo : 23
Starting method		Pa	0	0	0
Air flow(Standard)		Possible	Possible	Possible	Possible
Available static pressure		Pocket plastic net × 1 (Washable)	Pocket plastic net × 1 (Washable)	Pocket plastic net × 1 (Washable)	Pocket plastic net × 1 (Washable)
Outside air intake		Rubber sleeve(for fan motor)	Rubber sleeve(for fan motor)	Rubber sleeve(for fan motor)	Rubber sleeve(for fan motor)
Air filter, Q'ty		Polyurethane form	Polyurethane form	Polyurethane form	Polyurethane form
Shock & vibration absorber		Remote control switch	Remote control switch	Remote control switch	Remote control switch
Insulation (noise & heat)		Option: RC-E3	Option: RC-E3	Option: RC-E3	Option: RC-E3
Operation control		Thermostat by electronics	Thermostat by electronics	Thermostat by electronics	Thermostat by electronics
Operation switch		Overload protection for fan motor	Overload protection for fan motor	Overload protection for fan motor	Overload protection for fan motor
Room temperature control		Frost protection thermostat	Frost protection thermostat	Frost protection thermostat	Frost protection thermostat
Safety equipment		Liquid line: φ 9.52 (3/8")	Liquid line: φ 9.52 (3/8")	Liquid line: φ 9.52 (3/8")	Liquid line: φ 9.52 (3/8")
Installation data		Gas line: φ 15.88 (5/8")	Gas line: φ 15.88 (5/8")	Gas line: φ 15.88 (5/8")	Gas line: φ 15.88 (5/8")
Refrigerant piping size		Flare piping	Flare piping	Flare piping	Flare piping
Connecting method		R410A	R410A	R410A	R410A
Refrigerant		Built-in Drain pump	Built-in Drain pump	Built-in Drain pump	Built-in Drain pump
Drain pump		Connectable with V P 2 0	Connectable with V P 2 0	Connectable with V P 2 0	Connectable with V P 2 0
Drain hose		Necessary(both Liquid & Gas line)	Necessary(both Liquid & Gas line)	Necessary(both Liquid & Gas line)	Necessary(both Liquid & Gas line)
Insulation for piping		Mounting kit, Drain hose	Mounting kit, Drain hose	Mounting kit, Drain hose	Mounting kit, Drain hose
Accessories		PJF000Z052	PJF000Z052	PJF000Z052	PJF000Z052
Exterior dimensions		PJF000Z053	PJF000Z053	PJF000Z053	PJF000Z053
Electrical wiring					

Notes (1) The data are measured at the following conditions.

Item	Indoor air temperature		Outdoor air temperature		Standards
	DB	WB	DB	WB	
Cooling*1	27 °C	19 °C	35 °C	24 °C	ISO-T1
Heating*2	20 °C		7 °C	6 °C	

(2) This packaged air-conditioner is manufactured and tested in conformity with the following standard.  
ISO-T1 "UNITARY AIR-CONDITIONERS"

Adapted to **RoHS** directive

MODEL NAME		FDT90KXE6,112KXE6,140KXE6,160KXE6		
MODEL TYPE		F D T - K X E 6		
ISSUE	CLASSIFICATION			
	SPECIFICATION (INDOOR UNIT)			
KASAHARA	DWG.No.	REV.MARK	PAGE	
	'07.10.31.	P J F 0 0 0 Z 0 4 9		2 / 2

**Ceiling Cassette -4way- Compact (600x600mm) type (FDTC)**



Models		FDTC22KXE6	FDTC28KXE6	FDTC36KXE6	FDTC45KXE6	FDTC56KXE6	
Panel model (Option)		TC-PSA-24W-ER	TC-PSA-24W-ER	TC-PSA-24W-ER	TC-PSA-24W-ER	TC-PSA-24W-ER	
Nominal cooling capacity*1	kW	2.2	2.8	3.6	4.5	5.6	
Nominal heating capacity*2		2.5	3.2	4.0	5.0	6.3	
Power source		220-240V ~ 50Hz / 220V ~ 60Hz	220-240V ~ 50Hz / 220V ~ 60Hz	220-240V ~ 50Hz / 220V ~ 60Hz	220-240V ~ 50Hz / 220V ~ 60Hz	220-240V ~ 50Hz / 220V ~ 60Hz	
Power consumption	Cool	kW	0.03 - 0.03 / 0.03	0.03 - 0.03 / 0.03	0.03 - 0.03 / 0.03	0.04 - 0.04 / 0.04	
	Heat		0.03 - 0.03 / 0.03	0.03 - 0.03 / 0.03	0.03 - 0.03 / 0.03	0.04 - 0.04 / 0.04	0.04 - 0.04 / 0.04
Running current	Cool	A	0.10 - 0.09 / 0.10	0.10 - 0.09 / 0.10	0.11 - 0.10 / 0.11	0.14 - 0.13 / 0.14	
	Heat		0.10 - 0.09 / 0.10	0.10 - 0.09 / 0.10	0.11 - 0.10 / 0.11	0.14 - 0.13 / 0.14	0.15 - 0.14 / 0.15
Sound Pressure Level		dB(A)	Hi : 35 Me : 33 Lo : 32	Hi : 35 Me : 33 Lo : 32	Hi : 38 Me : 36 Lo : 34	Hi : 40 Me : 38 Lo : 36	Hi : 45 Me : 42 Lo : 39
Exterior dimensions		mm	Unit : 248 × 570 × 570	Unit : 248 × 570 × 570	Unit : 248 × 570 × 570	Unit : 248 × 570 × 570	Unit : 248 × 570 × 570
Height x Width x Depth			Panel : 35 × 700 × 700	Panel : 35 × 700 × 700	Panel : 35 × 700 × 700	Panel : 35 × 700 × 700	Panel : 35 × 700 × 700
Exterior appearance ( Munsell color )		Plaster White ( 6.8Y8.9/0.2 ) near equivalent	Plaster White ( 6.8Y8.9/0.2 ) near equivalent	Plaster White ( 6.8Y8.9/0.2 ) near equivalent	Plaster White ( 6.8Y8.9/0.2 ) near equivalent	Plaster White ( 6.8Y8.9/0.2 ) near equivalent	
Net weight		kg	Unit : 14 Panel : 3.5	Unit : 14 Panel : 3.5	Unit : 15 Panel : 3.5	Unit : 15 Panel : 3.5	
Refrigerant equipment		Louver fin & inner grooved tubing					
Heat exchanger		Electronic Expansion Valve					
Refrigerant control		Electronic Expansion Valve					
Air handling equipment		Turbo fan × 1					
Fan type & Q'ty		Turbo fan × 1					
Motor		W	52	52	52	52	
Starting method		Direct line start					
Air flow(Standard)		CMM	Hi : 9.5 Me : 8.5 Lo : 8	Hi : 9.5 Me : 8.5 Lo : 8	Hi : 10 Me : 9 Lo : 8	Hi : 11 Me : 10 Lo : 9	Hi : 13 Me : 11.5 Lo : 10
Available static pressure		Pa	0	0	0	0	
Outside air intake		Not possible					
Air filter, Q'ty		Pocket plastic net × 1 (Washable)					
Shock & vibration absorber		Rubber sleeve(for fan motor)					
Insulation (noise & heat)		Polyurethane form					
Operation control		Remote control switch					
Operation switch		Option: RC-E3					
Room temperature control		Thermostat by electronics					
Safety equipment		Overload protection for fan motor Frost protection thermostat					
Installation data		Liquid line: φ 6.35 (1/4") Gas line: φ 9.52 (3/8")					
Refrigerant piping size		Liquid line: φ 6.35 (1/4") Gas line: φ 9.52 (3/8")					
Connecting method		Flare piping					
Refrigerant		R410A					
Drain pump		Built-in Drain pump					
Drain hose		Connectable with V P 2 0					
Insulation for piping		Necessary(both Liquid & Gas line)					
Accessories		Mounting kit,Drain hose					
Exterior dimensions		PJA003Z330					
Electrical wiring		PJA003Z331					

Notes (1) The data are measured at the following conditions.

Item	Indoor air temperature		Outdoor air temperature		Standards
	DB	WB	DB	WB	
Cooling*1	27 °C	19 °C	35 °C	24 °C	ISO-T1
Heating*2	20 °C		7 °C	6 °C	

(2) This packaged air-conditioner is manufactured and tested in conformity with the following standard.  
ISO-T1 "UNITARY AIR-CONDITIONERS"

Adapted to **RoHS** directive

MODEL NAME		FDTC22KXE6,28KXE6,36KXE6,45KXE6,56KXE6		
MODEL TYPE		F D T C - K X E 6		
ISSUE	CLASSIFICATION			
	SPECIFICATION (INDOOR UNIT)			
KASAHARA	DWG.No.	REV.MARK	PAGE	
	'07.10.31.	P J A 0 0 3 Z 3 2 8	1 / 1	

**Ceiling Cassete -2way- type**

Models		FDTW28KXE6	FDTW45KXE6	FDTW56KXE6		
Panel model (Option)		TW-PSA-24W-E	TW-PSA-24W-E	TW-PSA-24W-E		
Nominal cooling capacity*1	kW	2.8	4.5	5.6		
Nominal heating capacity*2		3.2	5.0	6.3		
Power source		220-240V ~ 50Hz / 220V ~ 60Hz	220-240V ~ 50Hz / 220V ~ 60Hz	220-240V ~ 50Hz / 220V ~ 60Hz		
Power consumption	Cool	kW	0.09 - 0.10 / 0.09	0.09 - 0.10 / 0.09	0.09 - 0.10 / 0.09	
	Heat		0.09 - 0.10 / 0.09	0.09 - 0.10 / 0.09	0.09 - 0.10 / 0.09	
Running current	Cool	A	0.43 - 0.44 / 0.43	0.43 - 0.44 / 0.43	0.43 - 0.44 / 0.43	
	Heat		0.43 - 0.44 / 0.43	0.43 - 0.44 / 0.43	0.43 - 0.44 / 0.43	
Sound Pressure Level		dB(A)	Hi : 39 Me : 34 Lo : 32	Hi : 39 Me : 34 Lo : 32	Hi : 39 Me : 34 Lo : 32	
Exterior dimensions Height x Width x Depth		mm	Unit : 287 × 817 × 620 Panel : 8 × 1,055 × 680	Unit : 287 × 817 × 620 Panel : 8 × 1,055 × 680	Unit : 287 × 817 × 620 Panel : 8 × 1,055 × 680	
Exterior appearance ( Munsell color )			Plaster White ( 6.8Y8.9/0.2 ) near equivalent	Plaster White ( 6.8Y8.9/0.2 ) near equivalent	Plaster White ( 6.8Y8.9/0.2 ) near equivalent	
Net weight		kg	Unit : 18 Panel : 7	Unit : 19 Panel : 7	Unit : 19 Panel : 7	
Refrigerant equipment Heat exchanger			Louver fin & inner grooved tubing	Louver fin & inner grooved tubing	Louver fin & inner grooved tubing	
Refrigerant control			Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve	
Air handling equipment Fan type & Q'ty			Turbo fan × 1	Turbo fan × 1	Turbo fan × 1	
Motor		W	30	30	30	
Starting method			Direct line start	Direct line start	Direct line start	
Air flow(Standard)		CMM	Hi : 14 Me : 12 Lo : 10	Hi : 14 Me : 12 Lo : 10	Hi : 14 Me : 12 Lo : 10	
Available static pressure		Pa	0	0	0	
Outside air intake			Possible	Possible	Possible	
Air filter, Q'ty			Pocket plastic net × 1 (Washable)	Pocket plastic net × 1 (Washable)	Pocket plastic net × 1 (Washable)	
Shock & vibration absorber			Rubber sleeve(for fan motor)	Rubber sleeve(for fan motor)	Rubber sleeve(for fan motor)	
Insulation (noise & heat)			Polyurethane form	Polyurethane form	Polyurethane form	
Operation control Operation switch			Remote control switch Option: RC-E3	Remote control switch Option: RC-E3	Remote control switch Option: RC-E3	
Room temperature control			Thermostat by electronics	Thermostat by electronics	Thermostat by electronics	
Safety equipment			Internal thermostat for fan motor Frost protection thermostat	Internal thermostat for fan motor Frost protection thermostat	Internal thermostat for fan motor Frost protection thermostat	
Installation data Refrigerant piping size			Liquid line: φ 6.35 (1/4") Gas line: φ 9.52 (3/8")	Liquid line: φ 6.35 (1/4") Gas line: φ 12.7 (1/2")	Liquid line: φ 6.35 (1/4") Gas line: φ 12.7 (1/2")	
Connecting method			Flare piping	Flare piping	Flare piping	
Refrigerant			R410A	R410A	R410A	
Drain pump			Built-in Drain pump	Built-in Drain pump	Built-in Drain pump	
Drain hose			Connectable with V P 2 0	Connectable with V P 2 0	Connectable with V P 2 0	
Insulation for piping			Necessary(both Liquid & Gas line)	Necessary(both Liquid & Gas line)	Necessary(both Liquid & Gas line)	
Accessories			Mounting kit,Drain hose	Mounting kit,Drain hose	Mounting kit,Drain hose	
Exterior dimensions			PJB001Z557	PJB001Z557	PJB001Z557	
Electrical wiring			PJB001Z560	PJB001Z560	PJB001Z560	

Notes (1) The data are measured at the following conditions.

Item	Indoor air temperature		Outdoor air temperature		Standards
	DB	WB	DB	WB	
Cooling*1	27 °C	19 °C	35 °C	24 °C	ISO-T1
Heating*2	20 °C		7 °C	6 °C	

(2) This packaged air-conditioner is manufactured and tested in conformity with the following standard.  
ISO-T1 "UNITARY AIR-CONDITIONERS"

Adapted to **RoHS** directive

MODEL NAME		FDTW28KXE6,45KXE6,56KXE6		
MODEL TYPE		F D T W - K X E 6		
ISSUE	CLASSIFICATION			
KASAHARA	SPECIFICATION (INDOOR UNIT)			
	DWG.No.	REV.MARK	PAGE	
'07.10.31.	P J B 0 0 1 Z 5 5 5		1 / 2	



**Ceiling Cassete -2way- type**

Models		FDTW71KXE6	FDTW90KXE6	FDTW112KXE6	FDTW140KXE6	
Panel model (Option)		TW-PSA-34W-E	TW-PSA-34W-E	TW-PSA-44W-E	TW-PSA-44W-E	
Nominal cooling capacity*1	kW	7.1	9.0	11.2	14.0	
Nominal heating capacity*2		8.0	10.0	12.5	16.0	
Power source		220-240V ~ 50Hz	220-240V ~ 50Hz	220-240V ~ 50Hz	220-240V ~ 50Hz	
Power consumption	Cool	kW	0.10 - 0.11	0.12 - 0.13	0.18 - 0.20	0.20 - 0.24
	Heat		0.10 - 0.11	0.12 - 0.13	0.18 - 0.20	0.20 - 0.24
Running current	Cool	A	0.48 - 0.50	0.57 - 0.59	0.86 - 0.89	0.90 - 0.98
	Heat		0.48 - 0.50	0.57 - 0.59	0.86 - 0.89	0.90 - 0.98
Sound Pressure Level		dB(A)	Hi : 41 Me : 36 Lo : 35	Hi : 41 Me : 37 Lo : 36	Hi : 44 Me : 38 Lo : 37	Hi : 45 Me : 41 Lo : 39
Exterior dimensions Height x Width x Depth		mm	Unit : 342 × 1,054 × 620 Panel : 8 × 1,300 × 680	Unit : 342 × 1,054 × 620 Panel : 8 × 1,300 × 680	Unit : 357 × 1,524 × 620 Panel : 8 × 1,770 × 680	Unit : 357 × 1,524 × 620 Panel : 8 × 1,770 × 680
Exterior appearance ( Munsell color )			Plaster White ( 6.8Y8.9/0.2 ) near equivalent	Plaster White ( 6.8Y8.9/0.2 ) near equivalent	Plaster White ( 6.8Y8.9/0.2 ) near equivalent	Plaster White ( 6.8Y8.9/0.2 ) near equivalent
Net weight		kg	Unit : 26 Panel : 9	Unit : 26 Panel : 9	Unit : 38 Panel : 11	Unit : 38 Panel : 11
Refrigerant equipment Heat exchanger			Louver fin & inner grooved tubing	Louver fin & inner grooved tubing	Louver fin & inner grooved tubing	Louver fin & inner grooved tubing
Refrigerant control			Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Air handling equipment Fan type & Q'ty			Turbo fan × 1	Turbo fan × 1	Turbo fan × 2	Turbo fan × 2
Motor		W	35	40	40 × 2	50 × 2
Starting method			Direct line start	Direct line start	Direct line start	Direct line start
Air flow(Standard)		CMM	Hi : 16 Me : 13 Lo : 11	Hi : 19 Me : 16 Lo : 12	Hi : 28 Me : 25 Lo : 23	Hi : 32 Me : 28 Lo : 24
Available static pressure		Pa	0	0	0	0
Outside air intake			Possible	Possible	Possible	Possible
Air filter, Q'ty			Pocket plastic net × 1 (Washable)	Pocket plastic net × 1 (Washable)	Pocket plastic net × 2 (Washable)	Pocket plastic net × 2 (Washable)
Shock & vibration absorber			Rubber sleeve(for fan motor)	Rubber sleeve(for fan motor)	Rubber sleeve(for fan motor)	Rubber sleeve(for fan motor)
Insulation (noise & heat)			Polyurethane form	Polyurethane form	Polyurethane form	Polyurethane form
Operation control Operation switch			Remote control switch Option: RC-E3	Remote control switch Option: RC-E3	Remote control switch Option: RC-E3	Remote control switch Option: RC-E3
Room temperature control			Thermostat by electronics	Thermostat by electronics	Thermostat by electronics	Thermostat by electronics
Safety equipment			Internal thermostat for fan motor Frost protection thermostat	Internal thermostat for fan motor Frost protection thermostat	Internal thermostat for fan motor Frost protection thermostat	Internal thermostat for fan motor Frost protection thermostat
Installation data Refrigerant piping size			Liquid line: φ 9.52 (3/8") Gas line: φ 15.88 (5/8")	Liquid line: φ 9.52 (3/8") Gas line: φ 15.88 (5/8")	Liquid line: φ 9.52 (3/8") Gas line: φ 15.88 (5/8")	Liquid line: φ 9.52 (3/8") Gas line: φ 15.88 (5/8")
Connecting method			Flare piping	Flare piping	Flare piping	Flare piping
Refrigerant			R410A	R410A	R410A	R410A
Drain pump			Built-in Drain pump	Built-in Drain pump	Built-in Drain pump	Built-in Drain pump
Drain hose			Connectable with V P 2 0	Connectable with V P 2 0	Connectable with V P 2 0	Connectable with V P 2 0
Insulation for piping			Necessary(both Liquid & Gas line)	Necessary(both Liquid & Gas line)	Necessary(both Liquid & Gas line)	Necessary(both Liquid & Gas line)
Accessories			Mounting kit,Drain hose	Mounting kit,Drain hose	Mounting kit,Drain hose	Mounting kit,Drain hose
Exterior dimensions			PJB001Z558	PJB001Z558	PJB001Z559	PJB001Z559
Electrical wiring			PJB001Z561	PJB001Z561	PJB001Z562	PJB001Z562

Notes (1) The data are measured at the following conditions.

Item	Indoor air temperature		Outdoor air temperature		Standards
	DB	WB	DB	WB	
Cooling*1	27 °C	19 °C	35 °C	24 °C	ISO-T1
Heating*2	20 °C		7 °C	6 °C	

(2) This packaged air-conditioner is manufactured and tested in conformity with the following standard.  
ISO-T1 "UNITARY AIR-CONDITIONERS"

Adapted to **RoHS** directive

MODEL NAME		FDTW71KXE6,90KXE6,112KXE6,140KXE6		
MODEL TYPE		F D T W - K X E 6		
ISSUE	CLASSIFICATION			
KASAHARA	SPECIFICATION (INDOOR UNIT)			
	DWG.No.	REV.MARK	PAGE	
'07.10.31.	P J B 0 0 1 Z 5 5 5		2 / 2	

**Ceiling Cassette -1way- Compact type (FDTQ)**

Models		FDTQ22KXE6		FDTQ22KXE6		FDTQ22KXE6		FDTQ22KXE6	
Panel model (Option)		Direct blow panel TQ-PSA-15W-E		Direct blow panel TQ-PSB-15W-E		Duct panel QR-PNA-14W-ER		Duct panel QR-PNB-14W-ER	
Nominal cooling capacity*1	kW	2.2		2.2		2.2		2.2	
Nominal heating capacity*2		2.5		2.5		2.5		2.5	
Power source		220-240V ~ 50Hz / 220V ~ 60Hz		220-240V ~ 50Hz / 220V ~ 60Hz		220-240V ~ 50Hz / 220V ~ 60Hz		220-240V ~ 50Hz / 220V ~ 60Hz	
Power consumption	Cool	0.04 - 0.05 / 0.05		0.04 - 0.05 / 0.05		0.04 - 0.05 / 0.05		0.04 - 0.05 / 0.05	
	Heat	0.04 - 0.05 / 0.05		0.04 - 0.05 / 0.05		0.04 - 0.05 / 0.05		0.04 - 0.05 / 0.05	
Running current	Cool	0.20 - 0.22 / 0.23		0.20 - 0.22 / 0.23		0.20 - 0.22 / 0.23		0.20 - 0.22 / 0.23	
	Heat	0.20 - 0.22 / 0.23		0.20 - 0.22 / 0.23		0.20 - 0.22 / 0.23		0.20 - 0.22 / 0.23	
Sound Pressure Level	dB(A)	Hi : 38 Lo : 33		Hi : 38 Lo : 33		Hi : 42 Lo : 39		Hi : 42 Lo : 39	
Exterior dimensions	mm	Unit : 250 × 570 × 570		Unit : 250 × 570 × 570		Unit : 250 × 570 × 570		Unit : 250 × 570 × 570	
Height x Width x Depth		Panel : 35 × 625 × 650		Panel : 35 × 780 × 650		Panel : 35 × 625 × 650		Panel : 35 × 780 × 650	
Exterior appearance ( Munsell color )		Plaster White ( 6.8Y8.9/0.2 ) near equivalent		Plaster White ( 6.8Y8.9/0.2 ) near equivalent		Plaster White ( 6.8Y8.9/0.2 ) near equivalent		Plaster White ( 6.8Y8.9/0.2 ) near equivalent	
Net weight	kg	Unit : 19 Panel : 2.5		Unit : 19 Panel : 3		Unit : 19 Panel : 2.5		Unit : 19 Panel : 3	
Refrigerant equipment		Louver fin & inner grooved tubing		Louver fin & inner grooved tubing		Louver fin & inner grooved tubing		Louver fin & inner grooved tubing	
Heat exchanger		Electronic Expansion Valve		Electronic Expansion Valve		Electronic Expansion Valve		Electronic Expansion Valve	
Air handling equipment		Centrifugal fan × 1		Centrifugal fan × 1		Centrifugal fan × 1		Centrifugal fan × 1	
Fan type & Q'ty		Centrifugal fan × 1		Centrifugal fan × 1		Centrifugal fan × 1		Centrifugal fan × 1	
Motor	W	20		20		20		20	
Starting method		Direct line start		Direct line start		Direct line start		Direct line start	
Air flow(Standard)	CMM	Hi : 7 Lo : 5.4		Hi : 7 Lo : 5.4		Hi : 7 Lo : 6.5		Hi : 7 Lo : 6.5	
Available static pressure	Pa	0		0		30		30	
Outside air intake		Possible		Possible		Possible		Possible	
Air filter, Q'ty		Pocket plastic net × 1 (Washable)		Pocket plastic net × 1 (Washable)		Pocket plastic net × 1 (Washable)		Pocket plastic net × 1 (Washable)	
Shock & vibration absorber		Rubber sleeve(for fan motor)		Rubber sleeve(for fan motor)		Rubber sleeve(for fan motor)		Rubber sleeve(for fan motor)	
Insulation (noise & heat)		Polyurethane form		Polyurethane form		Polyurethane form		Polyurethane form	
Operation control		Remote control switch		Remote control switch		Remote control switch		Remote control switch	
Operation switch		Option: RC-E3		Option: RC-E3		Option: RC-E3		Option: RC-E3	
Room temperature control		Thermostat by electronics		Thermostat by electronics		Thermostat by electronics		Thermostat by electronics	
Safety equipment		Internal thermostat for fan motor Frost protection thermostat		Internal thermostat for fan motor Frost protection thermostat		Internal thermostat for fan motor Frost protection thermostat		Internal thermostat for fan motor Frost protection thermostat	
Installation data		Liquid line: φ 6.35 (1/4")		Liquid line: φ 6.35 (1/4")		Liquid line: φ 6.35 (1/4")		Liquid line: φ 6.35 (1/4")	
Refrigerant piping size		Gas line: φ 9.52 (3/8")		Gas line: φ 9.52 (3/8")		Gas line: φ 9.52 (3/8")		Gas line: φ 9.52 (3/8")	
Connecting method		Flare piping		Flare piping		Flare piping		Flare piping	
Refrigerant		R410A		R410A		R410A		R410A	
Drain pump		Built-in Drain pump		Built-in Drain pump		Built-in Drain pump		Built-in Drain pump	
Drain hose		Connectable with V P 2 0		Connectable with V P 2 0		Connectable with V P 2 0		Connectable with V P 2 0	
Insulation for piping		Necessary(both Liquid & Gas line)		Necessary(both Liquid & Gas line)		Necessary(both Liquid & Gas line)		Necessary(both Liquid & Gas line)	
Accessories		Mounting kit,Drain hose		Mounting kit,Drain hose		Mounting kit,Drain hose		Mounting kit,Drain hose	
Exterior dimensions		PJC001Z188		PJC001Z189		PJC001Z236		PJC001Z237	
Electrical wiring		PJC001Z190		PJC001Z190		PJC001Z240		PJC001Z240	

Notes (1) The data are measured at the following conditions.

Item	Indoor air temperature		Outdoor air temperature		Standards
	DB	WB	DB	WB	
Cooling*1	27 °C	19 °C	35 °C	24 °C	ISO-T1
Heating*2	20 °C		7 °C	6 °C	

(2) This packaged air-conditioner is manufactured and tested in conformity with the following standard.  
ISO-T1 "UNITARY AIR-CONDITIONERS"

Adapted to **RoHS** directive

MODEL NAME		FDTQ22KXE6	
MODEL TYPE		F D T Q - K X E 6	
ISSUE	CLASSIFICATION		
KASAHARA	SPECIFICATION (INDOOR UNIT)		
'07.10.31.	DWG.No.	REV.MARK	PAGE
	P J C 0 0 1 Z 1 8 5		1 / 3



**Ceiling Cassette -1way- Compact type (FDTQ)**

Models		FDTQ28KXE6	FDTQ28KXE6	FDTQ28KXE6	FDTQ28KXE6
Panel model (Option)		Direct blow panel TQ-PSA-15W-E	Direct blow panel TQ-PSB-15W-E	Duct panel QR-PNA-14W-ER	Duct panel QR-PNB-14W-ER
Nominal cooling capacity*1	kW	2.8	2.8	2.8	2.8
Nominal heating capacity*2		3.2	3.2	3.2	3.2
Power source		220-240V ~ 50Hz / 220V ~ 60Hz	220-240V ~ 50Hz / 220V ~ 60Hz	220-240V ~ 50Hz / 220V ~ 60Hz	220-240V ~ 50Hz / 220V ~ 60Hz
Power consumption	Cool	kW	0.04 - 0.05 / 0.05	0.04 - 0.05 / 0.05	0.04 - 0.05 / 0.05
	Heat		0.04 - 0.05 / 0.05	0.04 - 0.05 / 0.05	0.04 - 0.05 / 0.05
Running current	Cool	A	0.20 - 0.22 / 0.23	0.20 - 0.22 / 0.23	0.20 - 0.22 / 0.23
	Heat		0.20 - 0.22 / 0.23	0.20 - 0.22 / 0.23	0.20 - 0.22 / 0.23
Sound Pressure Level		dB(A)	Hi : 38 Lo : 33	Hi : 38 Lo : 33	Hi : 42 Lo : 39
Exterior dimensions Height x Width x Depth		mm	Unit : 250 × 570 × 570 Panel : 35 × 625 × 650	Unit : 250 × 570 × 570 Panel : 35 × 780 × 650	Unit : 250 × 570 × 570 Panel : 35 × 780 × 650
Exterior appearance ( Munsell color )			Plaster White ( 6.8Y8.9/0.2 ) near equivalent	Plaster White ( 6.8Y8.9/0.2 ) near equivalent	Plaster White ( 6.8Y8.9/0.2 ) near equivalent
Net weight		kg	Unit : 19 Panel : 2.5	Unit : 19 Panel : 3	Unit : 19 Panel : 2.5
Refrigerant equipment Heat exchanger			Slit fin & inner grooved tubing	Slit fin & inner grooved tubing	Slit fin & inner grooved tubing
Refrigerant control			Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Air handling equipment Fan type & Q'ty			Centrifugal fan × 1	Centrifugal fan × 1	Centrifugal fan × 1
Motor		W	20	20	20
Starting method			Direct line start	Direct line start	Direct line start
Air flow(Standard)		CMM	Hi : 7 Lo : 5.4	Hi : 7 Lo : 5.4	Hi : 7 Lo : 6.5
Available static pressure		Pa	0	0	30
Outside air intake			Possible	Possible	Possible
Air filter, Q'ty			Pocket plastic net × 1 (Washable)	Pocket plastic net × 1 (Washable)	Pocket plastic net × 1 (Washable)
Shock & vibration absorber			Rubber sleeve(for fan motor)	Rubber sleeve(for fan motor)	Rubber sleeve(for fan motor)
Insulation (noise & heat)			Polyurethane form	Polyurethane form	Polyurethane form
Operation control Operation switch			Remote control switch Option: RC-E3	Remote control switch Option: RC-E3	Remote control switch Option: RC-E3
Room temperature control			Thermostat by electronics	Thermostat by electronics	Thermostat by electronics
Safety equipment			Internal thermostat for fan motor Frost protection thermostat	Internal thermostat for fan motor Frost protection thermostat	Internal thermostat for fan motor Frost protection thermostat
Installation data Refrigerant piping size			Liquid line: φ 6.35 (1/4") Gas line: φ 9.52 (3/8")	Liquid line: φ 6.35 (1/4") Gas line: φ 9.52 (3/8")	Liquid line: φ 6.35 (1/4") Gas line: φ 9.52 (3/8")
Connecting method			Flare piping	Flare piping	Flare piping
Refrigerant			R410A	R410A	R410A
Drain pump			Built-in Drain pump	Built-in Drain pump	Built-in Drain pump
Drain hose			Connectable with V P 2 0	Connectable with V P 2 0	Connectable with V P 2 0
Insulation for piping			Necessary(both Liquid & Gas line)	Necessary(both Liquid & Gas line)	Necessary(both Liquid & Gas line)
Accessories			Mounting kit,Drain hose	Mounting kit,Drain hose	Mounting kit,Drain hose
Exterior dimensions			PJC001Z188	PJC001Z189	PJC001Z237
Electrical wiring			PJC001Z190	PJC001Z190	PJC001Z240

Notes (1) The data are measured at the following conditions.

Item	Indoor air temperature		Outdoor air temperature		Standards
	DB	WB	DB	WB	
Cooling*1	27 °C	19 °C	35 °C	24 °C	ISO-T1
Heating*2	20 °C		7 °C	6 °C	

(2) This packaged air-conditioner is manufactured and tested in conformity with the following standard.  
ISO-T1 "UNITARY AIR-CONDITIONERS"

Adapted to **RoHS** directive

MODEL NAME		FDTQ28KXE6	
MODEL TYPE		FDTQ - KXE6	
ISSUE	CLASSIFICATION		
	SPECIFICATION (INDOOR UNIT)		
KASAHARA	DWG.No.	REV.MARK	PAGE
	'07.10.31.	P J C 0 0 1 Z 1 8 5	2 / 3

**Ceiling Cassette -1way- Compact type (FDTQ)**

Models		FDTQ36KXE6	FDTQ36KXE6	FDTQ36KXE6	FDTQ36KXE6
Panel model (Option)		Direct blow panel TQ-PSA-15W-E	Direct blow panel TQ-PSB-15W-E	Duct panel QR-PNA-14W-ER	Duct panel QR-PNB-14W-ER
Nominal cooling capacity*1	kW	3.6	3.6	3.6	3.6
Nominal heating capacity*2		4.0	4.0	4.0	4.0
Power source		220-240V ~ 50Hz / 220V ~ 60Hz	220-240V ~ 50Hz / 220V ~ 60Hz	220-240V ~ 50Hz / 220V ~ 60Hz	220-240V ~ 50Hz / 220V ~ 60Hz
Power consumption	Cool	kW	0.04 - 0.05 / 0.05	0.04 - 0.05 / 0.05	0.04 - 0.05 / 0.05
	Heat		0.04 - 0.05 / 0.05	0.04 - 0.05 / 0.05	0.04 - 0.05 / 0.05
Running current	Cool	A	0.20 - 0.22 / 0.23	0.20 - 0.22 / 0.23	0.20 - 0.22 / 0.23
	Heat		0.20 - 0.22 / 0.23	0.20 - 0.22 / 0.23	0.20 - 0.22 / 0.23
Sound Pressure Level		dB(A)	Hi : 38 Lo : 33	Hi : 38 Lo : 33	Hi : 42 Lo : 39
Exterior dimensions		mm	Unit : 250 × 570 × 570	Unit : 250 × 570 × 570	Unit : 250 × 570 × 570
Height x Width x Depth			Panel : 35 × 625 × 650	Panel : 35 × 780 × 650	Panel : 35 × 625 × 650
Exterior appearance ( Munsell color )		Plaster White ( 6.8Y8.9/0.2 ) near equivalent		Plaster White ( 6.8Y8.9/0.2 ) near equivalent	
Net weight		kg	Unit : 19 Panel : 2.5	Unit : 19 Panel : 3	Unit : 19 Panel : 2.5
Refrigerant equipment		Slit fin & inner grooved tubing		Slit fin & inner grooved tubing	
Heat exchanger		Electronic Expansion Valve		Electronic Expansion Valve	
Refrigerant control		Centrifugal fan × 1		Centrifugal fan × 1	
Air handling equipment		Centrifugal fan × 1		Centrifugal fan × 1	
Fan type & Q'ty		Centrifugal fan × 1		Centrifugal fan × 1	
Motor		W	20	20	20
Starting method		Direct line start		Direct line start	
Air flow(Standard)		CMM	Hi : 7 Lo : 5.4	Hi : 7 Lo : 5.4	Hi : 7 Lo : 6.5
Available static pressure		Pa	0	0	30
Outside air intake		Possible		Possible	
Air filter, Q'ty		Pocket plastic net × 1 (Washable)		Pocket plastic net × 1 (Washable)	
Shock & vibration absorber		Rubber sleeve(for fan motor)		Rubber sleeve(for fan motor)	
Insulation (noise & heat)		Polyurethane form		Polyurethane form	
Operation control		Remote control switch		Remote control switch	
Operation switch		Option: RC-E3		Option: RC-E3	
Room temperature control		Thermostat by electronics		Thermostat by electronics	
Safety equipment		Internal thermostat for fan motor Frost protection thermostat		Internal thermostat for fan motor Frost protection thermostat	
Installation data		Liquid line: φ 6.35 (1/4")		Liquid line: φ 6.35 (1/4")	
Refrigerant piping size		Gas line: φ 12.7 (1/2")		Gas line: φ 12.7 (1/2")	
Connecting method		Flare piping		Flare piping	
Refrigerant		R410A		R410A	
Drain pump		Built-in Drain pump		Built-in Drain pump	
Drain hose		Connectable with V P 2 0		Connectable with V P 2 0	
Insulation for piping		Necessary(both Liquid & Gas line)		Necessary(both Liquid & Gas line)	
Accessories		Mounting kit,Drain hose		Mounting kit,Drain hose	
Exterior dimensions		PJC001Z188		PJC001Z237	
Electrical wiring		PJC001Z190		PJC001Z240	

Notes (1) The data are measured at the following conditions.

Item	Indoor air temperature		Outdoor air temperature		Standards
	DB	WB	DB	WB	
Operation	27 °C	19 °C	35 °C	24 °C	ISO-T1
Cooling*1	27 °C	19 °C	35 °C	24 °C	
Heating*2	20 °C		7 °C		

(2) This packaged air-conditioner is manufactured and tested in conformity with the following standard.  
ISO-T1 "UNITARY AIR-CONDITIONERS"

Adapted to **RoHS** directive

MODEL NAME		FDTQ36KXE6		
MODEL TYPE		F D T Q - K X E 6		
ISSUE	CLASSIFICATION			
	SPECIFICATION (INDOOR UNIT)			
KASAHARA	DWG.No.	REV.MARK	PAGE	
	'07.10.31.	P J C 0 0 1 Z 1 8 5		3 / 3

**Ceiling Cassette -1way- type (FDTs)**

Models		FDTs45KXE6	FDTs71KXE6		
Panel model (Option)		TS-PSA-29W-E	TS-PSA-39W-E		
Nominal cooling capacity*1	kW	4.5	7.1		
Nominal heating capacity*2		5.0	8.0		
Power source		220-240V ~ 50Hz / 220V ~ 60Hz	220-240V ~ 50Hz / 220V ~ 60Hz		
Power consumption	Cool	kW	0.09 - 0.11 / 0.09	0.12 - 0.15 / 0.12	
	Heat		0.09 - 0.11 / 0.09	0.12 - 0.15 / 0.12	
Running current	Cool	A	0.43 - 0.46 / 0.43	0.58 - 0.63 / 0.58	
	Heat		0.43 - 0.46 / 0.43	0.58 - 0.63 / 0.58	
Sound Pressure Level		dB(A)	Hi : 43 Me : 38 Lo : 36	Hi : 44 Me : 38 Lo : 36	
Exterior dimensions · Height x Width x Depth		mm	Unit : 194 × 1,040 × 650 Panel : 10 × 1,290 × 770	Unit : 194 × 1,300 × 650 Panel : 10 × 1,500 × 770	
Exterior appearance ( Munsell color )			Plaster White ( 6.8Y8.9/0.2 ) near equivalent	Plaster White ( 6.8Y8.9/0.2 ) near equivalent	
Net weight		kg	Unit : 27 Panel : 6	Unit : 31 Panel : 7	
Refrigerant equipment · Heat exchanger			Louver fin & inner grooved tubing	Louver fin & inner grooved tubing	
Refrigerant control			Electronic Expansion Valve	Electronic Expansion Valve	
Air handling equipment · Fan type & Q'ty			Centrifugal fan × 2	Centrifugal fan × 4	
Motor		W	40	35×2	
Starting method			Direct line start	Direct line start	
Air flow(Standard)		CMM	Hi : 14 Me : 12 Lo : 10	Hi : 18 Me : 15 Lo : 12	
Available static pressure		Pa	0	0	
Outside air intake			Possible	Possible	
Air filter, Q'ty			Pocket plastic net × 2 (Washable)	Pocket plastic net × 3 (Washable)	
Shock & vibration absorber			Rubber sleeve(for fan motor)	Rubber sleeve(for fan motor)	
Insulation (noise & heat)			Polyurethane form	Polyurethane form	
Operation control · Operation switch			Remote control switch Option: RC-E3	Remote control switch Option: RC-E3	
Room temperature control			Thermostat by electronics	Thermostat by electronics	
Safety equipment			Internal thermostat for fan motor Frost protection thermostat	Internal thermostat for fan motor Frost protection thermostat	
Installation data · Refrigerant piping size			Liquid line: φ 6.35 (1/4") Gas line: φ 12.7 (1/2")	Liquid line: φ 9.52 (3/8") Gas line: φ 15.88 (5/8")	
Connecting method			Flare piping	Flare piping	
Refrigerant			R410A	R410A	
Drain pump			Built-in Drain pump	Built-in Drain pump	
Drain hose			Connectable with V P 2 0	Connectable with V P 2 0	
Insulation for piping			Necessary(both Liquid & Gas line)	Necessary(both Liquid & Gas line)	
Accessories			Mounting kit,Drain hose	Mounting kit,Drain hose	
Exterior dimensions			PJC001Z193	PJC001Z194	
Electrical wiring			PJC001Z195	PJC001Z196	

Notes (1) The data are measured at the following conditions.

Item	Indoor air temperature		Outdoor air temperature		Standards
	DB	WB	DB	WB	
Cooling*1	27 °C	19 °C	35 °C	24 °C	ISO-T1
Heating*2	20 °C		7 °C	6 °C	

(2) This packaged air-conditioner is manufactured and tested in conformity with the following standard.  
ISO-T1 "UNITARY AIR-CONDITIONERS"

Adapted to **RoHS** directive

MODEL NAME		FDTs45KXE6,71KXE6		
MODEL TYPE		F D T S - K X E 6		
ISSUE	CLASSIFICATION			
KASAHARA	SPECIFICATION (INDOOR UNIT)			
	DWG.No.	REV.MARK	PAGE	
'07.10.31.	P J C 0 0 1 Z 1 9 1		1 / 1	

**Duct Connected -High static pressure- type (FDU)**

Models		FDU71KXE6	FDU90KXE6	FDU112KXE6	FDU140KXE6
Nominal cooling capacity*1	kW	7.1	9.0	11.2	14.0
Nominal heating capacity*2		8.0	10.0	12.5	16.0
Power source		220-240V ~ 50Hz	220-240V ~ 50Hz	220-240V ~ 50Hz	220-240V ~ 50Hz
Power consumption	Cool	0.29 - 0.32	0.35 - 0.39	0.39 - 0.45	0.39 - 0.45
	Heat	0.27 - 0.30	0.34 - 0.38	0.34 - 0.39	0.34 - 0.39
Running current	Cool	1.40 - 1.44	1.65 - 1.79	1.83 - 1.94	1.83 - 1.94
	Heat	1.33 - 1.37	1.63 - 1.74	1.65 - 1.76	1.65 - 1.76
Sound Pressure Level	dB(A)	Hi : 41 Lo : 37	Hi : 42 Lo : 37	Hi : 42 Lo : 38	Hi : 43 Lo : 39
Exterior dimensions Height x Width x Depth	mm	295 × 850 × 650	350 × 1,370 × 650	350 × 1,370 × 650	350 × 1,370 × 650
Net weight	kg	40	63	63	63
Refrigerant equipment					
Heat exchanger		Louver fin & inner grooved tubing	Louver fin & inner grooved tubing	Louver fin & inner grooved tubing	Louver fin & inner grooved tubing
Refrigerant control		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Air handling equipment					
Fan type & Q'ty		Centrifugal fan × 2	Centrifugal fan × 2	Centrifugal fan × 2	Centrifugal fan × 2
Motor	W	230	280	460	460
Starting method		Direct line start	Direct line start	Direct line start	Direct line start
Air flow(Standard)	CMM	Hi : 25 Lo : 20	Hi : 34 Lo : 27	Hi : 34 Lo : 27	Hi : 42 Lo : 33.5
Available static pressure	Pa	Standrd : 50 , Max : 130	Standrd : 50 , Max : 130	Standrd : 50 , Max : 130	Standrd : 50 , Max : 130
Outside air intake		-	-	-	-
Air filter, Q'ty		Installed on site	Installed on site	Installed on site	Installed on site
Shock & vibration absorber		Rubber sleeve(for fan motor)	Rubber sleeve(for fan motor)	Rubber sleeve(for fan motor)	Rubber sleeve(for fan motor)
Insulation (noise & heat)		Polyurethane form	Polyurethane form	Polyurethane form	Polyurethane form
Operation control		Remote control switch	Remote control switch	Remote control switch	Remote control switch
Operation switch		Option: RC-E3	Option: RC-E3	Option: RC-E3	Option: RC-E3
Room temperature control		Thermostat by electronics	Thermostat by electronics	Thermostat by electronics	Thermostat by electronics
Safety equipment		Internal thermostat for fan motor Frost protection thermostat	Internal thermostat for fan motor Frost protection thermostat	Internal thermostat for fan motor Frost protection thermostat	Internal thermostat for fan motor Frost protection thermostat
Installation data		Liquid line: φ 9.52 (3/8") Gas line: φ 15.88 (5/8")	Liquid line: φ 9.52 (3/8") Gas line: φ 15.88 (5/8")	Liquid line: φ 9.52 (3/8") Gas line: φ 15.88 (5/8")	Liquid line: φ 9.52 (3/8") Gas line: φ 15.88 (5/8")
Refrigerant piping size					
Connecting method		Flare piping	Flare piping	Flare piping	Flare piping
Refrigerant		R410A	R410A	R410A	R410A
Drain pump		Built-in Drain pump	Built-in Drain pump	Built-in Drain pump	Built-in Drain pump
Drain hose		Connectable with V P 2 0	Connectable with V P 2 0	Connectable with V P 2 0	Connectable with V P 2 0
Insulation for piping		Necessary(both Liquid & Gas line)	Necessary(both Liquid & Gas line)	Necessary(both Liquid & Gas line)	Necessary(both Liquid & Gas line)
Accessories		Drain hose	Drain hose	Drain hose	Drain hose
Exterior dimensions		PJD001Z226	PJD001Z227	PJD001Z227	PJD001Z227
Electrical wiring		PJD001Z229	PJD001Z229	PJD001Z229	PJD001Z229

Notes (1) The data are measured at the following conditions.

Item	Indoor air temperature		Outdoor air temperature		Standards
	DB	WB	DB	WB	
Cooling*1	27 °C	19 °C	35 °C	24 °C	ISO-T1
Heating*2	20 °C		7 °C	6 °C	

(2) This packaged air-conditioner is manufactured and tested in conformity with the following standard.  
ISO-T1 "UNITARY AIR-CONDITIONERS"

Adapted to **RoHS** directive

MODEL NAME	FDU71KXE6,90KXE6,112KXE6,140KXE6		
MODEL TYPE	F D U - K X E 6		
ISSUE	CLASSIFICATION		
KASAHARA	SPECIFICATION (INDOOR UNIT)		
	DWG.No.	REV.MARK	PAGE
'07.10.31.	P J D 0 0 1 Z 2 2 4		1 / 2

PJD001Z224 1/2

**Duct Connected -High static pressure- type (FDU)** ※ not used with FDC112/140/155 KXEN6/S6



Models		FDU224KXE6 ※	FDU280KXE6 ※		
Nominal cooling capacity*1	kW	22.4	28.0		
Nominal heating capacity*2		25.0	31.5		
Power source		220-240V ~ 50Hz / 220V ~ 60Hz	220-240V ~ 50Hz / 220V ~ 60Hz		
Power consumption	Cool	kW	0.94 - 1.03 / 1.46	0.96 - 1.05 / 1.48	
	Heat		0.86 - 0.90 / 1.28	0.86 - 0.96 / 1.36	
Running current	Cool	A	4.30 - 4.34 / 6.60	4.36 - 4.38 / 6.72	
	Heat		3.74 - 3.77 / 5.74	3.98 - 4.00 / 6.13	
Sound Pressure Level	dB(A)	Hi : 48 / 50	Hi : 49 / 51		
Exterior dimensions Height x Width x Depth	mm	360 × 1,570 × 830	360 × 1,570 × 830		
Net weight	kg	92	92		
Refrigerant equipment					
Heat exchanger		Louver fin & inner grooved tubing	Louver fin & inner grooved tubing		
Refrigerant control		Electronic Expansion Valve	Electronic Expansion Valve		
Air handling equipment					
Fan type & Q'ty		Centrifugal fan × 4	Centrifugal fan × 4		
Motor	W	270x2	270x2		
Starting method		Direct line start	Direct line start		
Air flow(Standard)	CMM	Hi : 51 / 60	Hi : 68 / 80		
Available static pressure	Pa	Standrd : 100 , Max : 200	Standrd : 100 , Max : 200		
Outside air intake		-	-		
Air filter, Q'ty		Installed on site	Installed on site		
Shock & vibration absorber		Rubber sleeve(for fan motor)	Rubber sleeve(for fan motor)		
Insulation (noise & heat)		Polyurethane form	Polyurethane form		
Operation control		Remote control switch	Remote control switch		
Operation switch		Option: RC-E3	Option: RC-E3		
Room temperature control		Thermostat by electronics	Thermostat by electronics		
Safety equipment		Internal thermostat for fan motor Frost protection thermostat	Internal thermostat for fan motor Frost protection thermostat		
Installation data					
Refrigerant piping size		Liquid line: φ 9.52 (3/8") Gas line: φ 19.05(3/4")	Liquid line: φ 9.52 (3/8") Gas line: φ 22.22(7/8")		
Connecting method		Brazing	Brazing		
Refrigerant		R410A	R410A		
Drain hose		Connectable with V P 2 5	Connectable with V P 2 5		
Insulation for piping		Necessary(both Liquid & Gas line)	Necessary(both Liquid & Gas line)		
Exterior dimensions		PJD001Z228	PJD001Z228		
Electrical wiring		PJD001Z230	PJD001Z230		

Notes (1) The data are measured at the following conditions.

Item	Indoor air temperature		Outdoor air temperature		Standards
	DB	WB	DB	WB	
Operation	27 °C	19 °C	35 °C	24 °C	ISO-T1
Cooling*1					
Heating*2	20 °C		7 °C	6 °C	

(2) This packaged air-conditioner is manufactured and tested in conformity with the following standard.  
ISO-T1 "UNITARY AIR-CONDITIONERS"

Adapted to **RoHS** directive

MODEL NAME	FDU224KXE6,280KXE6		
MODEL TYPE	F D U - K X E 6		
ISSUE	CLASSIFICATION		
KASAHARA	SPECIFICATION (INDOOR UNIT)		
'07.10.31.	DWG.No.	REV.MARK	PAGE
	P J D 0 0 1 Z 2 2 4		2 / 2

PJD001Z224 2/2

**Duct Connected -Middle static pressure- type (FDUM)**

Models		FDUM22KXE6	FDUM28KXE6	FDUM36KXE6	FDUM45KXE6	FDUM56KXE6
Nominal cooling capacity*1	kW	2.2	2.8	3.6	4.5	5.6
Nominal heating capacity*2		2.5	3.2	4.0	5.0	6.3
Power source		220-240V ~ 50Hz / 220V ~ 60Hz	220-240V ~ 50Hz / 220V ~ 60Hz	220-240V ~ 50Hz / 220V ~ 60Hz	220-240V ~ 50Hz / 220V ~ 60Hz	220-240V ~ 50Hz / 220V ~ 60Hz
Power consumption	Cool	0.09 - 0.11 / 0.09	0.11 - 0.13 / 0.11	0.11 - 0.13 / 0.11	0.14 - 0.16 / 0.14	0.14 - 0.16 / 0.14
	Heat	0.09 - 0.11 / 0.09	0.11 - 0.13 / 0.11	0.11 - 0.13 / 0.11	0.14 - 0.16 / 0.14	0.14 - 0.16 / 0.14
Running current	Cool	0.41 - 0.46 / 0.41	0.51 - 0.56 / 0.51	0.51 - 0.56 / 0.51	0.63 - 0.67 / 0.63	0.63 - 0.67 / 0.63
	Heat	0.41 - 0.46 / 0.41	0.51 - 0.56 / 0.51	0.51 - 0.56 / 0.51	0.63 - 0.67 / 0.63	0.63 - 0.67 / 0.63
Sound Pressure Level		dB(A) Hi : 33, Me : 31, Lo : 28	Hi : 34, Me : 31, Lo : 28	Hi : 34, Me : 31, Lo : 28	Hi : 35, Me : 32, Lo : 29	Hi : 35, Me : 32, Lo : 29
Exterior dimensions Height x Width x Depth		mm 299 x 750 x 635	299 x 750 x 635	299 x 750 x 635	299 x 750 x 635	299 x 750 x 635
Net weight		kg 33	34	34	34	34
Refrigerant equipment						
Heat exchanger		Louver fin & inner grooved tubing	Louver fin & inner grooved tubing	Louver fin & inner grooved tubing	Louver fin & inner grooved tubing	Louver fin & inner grooved tubing
Refrigerant control		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Air handling equipment						
Fan type & Q'ty		Centrifugal fan x 2	Centrifugal fan x 2	Centrifugal fan x 2	Centrifugal fan x 2	Centrifugal fan x 2
Motor		W 32	60	60	60	60
Starting method		Direct line start	Direct line start	Direct line start	Direct line start	Direct line start
Air flow(Standard)		CMM Hi : 10, Me : 9, Lo : 8	Hi : 12, Me : 11, Lo : 10	Hi : 12, Me : 11, Lo : 10	Hi : 14, Me : 12, Lo : 11	Hi : 14, Me : 12, Lo : 11
Available static pressure		Pa Standrd : 50 Max : 85	Standrd : 50 Max : 85	Standrd : 50 Max : 85	Standrd : 50 Max : 85	Standrd : 50 Max : 85
Outside air intake		Side	Side	Side	Side	Side
Air filter, Q'ty		Installed on site	Installed on site	Installed on site	Installed on site	Installed on site
Shock & vibration absorber		Rubber sleeve(for fan motor)	Rubber sleeve(for fan motor)	Rubber sleeve(for fan motor)	Rubber sleeve(for fan motor)	Rubber sleeve(for fan motor)
Insulation (noise & heat)		Polyurethane form	Polyurethane form	Polyurethane form	Polyurethane form	Polyurethane form
Operation control		Remote control switch	Remote control switch	Remote control switch	Remote control switch	Remote control switch
Operation switch		Option: RC-E3	Option: RC-E3	Option: RC-E3	Option: RC-E3	Option: RC-E3
Room temperature control		Thermostat by electronics	Thermostat by electronics	Thermostat by electronics	Thermostat by electronics	Thermostat by electronics
Safety equipment		Internal thermostat for fan motor Frost protection thermostat	Internal thermostat for fan motor Frost protection thermostat	Internal thermostat for fan motor Frost protection thermostat	Internal thermostat for fan motor Frost protection thermostat	Internal thermostat for fan motor Frost protection thermostat
Installation data		Liquid line: φ 6.35 (1/4") Gas line: φ 9.52 (3/8")	Liquid line: φ 6.35 (1/4") Gas line: φ 9.52 (3/8")	Liquid line: φ 6.35 (1/4") Gas line: φ 12.7 (1/2")	Liquid line: φ 6.35 (1/4") Gas line: φ 12.7 (1/2")	Liquid line: φ 6.35 (1/4") Gas line: φ 12.7 (1/2")
Refrigerant piping size						
Connecting method		Flare piping	Flare piping	Flare piping	Flare piping	Flare piping
Refrigerant		R410A	R410A	R410A	R410A	R410A
Drain pump		Built-in Drain pump	Built-in Drain pump	Built-in Drain pump	Built-in Drain pump	Built-in Drain pump
Drain hose		Connectable with V P 2 0	Connectable with V P 2 0	Connectable with V P 2 0	Connectable with V P 2 0	Connectable with V P 2 0
Insulation for piping		Necessary(both Liquid & Gas line)	Necessary(both Liquid & Gas line)	Necessary(both Liquid & Gas line)	Necessary(both Liquid & Gas line)	Necessary(both Liquid & Gas line)
Accessories		Drain hose	Drain hose	Drain hose	Drain hose	Drain hose
Exterior dimensions		PJR002Z254	PJR002Z255	PJR002Z255	PJR002Z255	PJR002Z255
Electrical wiring		PJR002Z258	PJR002Z258	PJR002Z258	PJR002Z258	PJR002Z258

Notes (1) The data are measured at the following conditions.

Item	Indoor air temperature		Outdoor air temperature		Standards
	DB	WB	DB	WB	
Cooling*1	27 °C	19 °C	35 °C	24 °C	ISO-T1
Heating*2	20 °C		7 °C	6 °C	

(2) This packaged air-conditioner is manufactured and tested in conformity with the following standard.  
ISO-T1 "UNITARY AIR-CONDITIONERS"

Adapted to **RoHS** directive

MODEL NAME		FDUM22KXE6,28KXE6,36KXE6,45KXE6, 56KXE6		
MODEL TYPE		FDUM - K X E 6		
ISSUE	CLASSIFICATION			
KASAHARA	SPECIFICATION (INDOOR UNIT)			
	DWG.No.	REV.MARK	PAGE	
'07.10.31.	P J R 0 0 2 Z 2 5 2		1 / 2	

**Duct Connected -Middle static pressure- type (FDUM)**

Models		FDUM71KXE6	FDUM90KXE6	FDUM112KXE6	FDUM140KXE6	
Nominal cooling capacity*1	kW	7.1	9.0	11.2	14.0	
Nominal heating capacity*2		8.0	10.0	12.5	16.0	
Power source		220-240V ~ 50Hz / 220V ~ 60Hz	220-240V ~ 50Hz / 220V ~ 60Hz	220-240V ~ 50Hz / 220V ~ 60Hz	220-240V ~ 50Hz / 220V ~ 60Hz	
Power consumption	Cool	kW	0.15 - 0.17 / 0.15	0.16 - 0.19 / 0.16	0.24 - 0.28 / 0.24	0.28 - 0.32 / 0.32
	Heat		0.15 - 0.17 / 0.15	0.16 - 0.19 / 0.16	0.24 - 0.28 / 0.24	0.28 - 0.32 / 0.28
Running current	Cool	A	0.68 - 0.71 / 0.71	0.73 - 0.79 / 0.73	1.07 - 1.17 / 1.07	1.28 - 1.32 / 1.28
	Heat		0.68 - 0.71 / 0.71	0.73 - 0.79 / 0.73	1.07 - 1.17 / 1.07	1.28 - 1.32 / 1.28
Sound Pressure Level		dB(A)	Hi : 35, Me : 32, Lo : 29	Hi : 36, Me : 33, Lo : 30	Hi : 37, Me : 35, Lo : 32	Hi : 38, Me : 36, Lo : 33
Exterior dimensions Height x Width x Depth		mm	299 × 950 × 635	299 × 950 × 635	350 × 1,370 × 635	350 × 1,370 × 635
Net weight		kg	40	40	59	59
Refrigerant equipment Heat exchanger			Louver fin & inner grooved tubing	Louver fin & inner grooved tubing	Louver fin & inner grooved tubing	Louver fin & inner grooved tubing
Refrigerant control			Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Air handling equipment Fan type & Q'ty			Centrifugal fan × 2	Centrifugal fan × 2	Centrifugal fan × 2	Centrifugal fan × 2
Motor		W	100	100	50+100	50+100
Starting method			Direct line start	Direct line start	Direct line start	Direct line start
Air flow(Standard)		CMM	Hi : 18, Me : 16, Lo : 14	Hi : 20, Me : 18, Lo : 15	Hi : 28, Me : 25, Lo : 22	Hi : 34, Me : 31, Lo : 27
Available static pressure		Pa	Standrd : 50 Max : 85	Standrd : 50 Max : 85	Standrd : 60 Max : 90	Standrd : 60 Max : 85
Outside air intake			Side	Side	Side	Side
Air filter, Q'ty			Installed on site	Installed on site	Installed on site	Installed on site
Shock & vibration absorber			Rubber sleeve(for fan motor)	Rubber sleeve(for fan motor)	Rubber sleeve(for fan motor)	Rubber sleeve(for fan motor)
Insulation (noise & heat)			Polyurethane form	Polyurethane form	Polyurethane form	Polyurethane form
Operation control Operation switch			Remote control switch Option: RC-E3	Remote control switch Option: RC-E3	Remote control switch Option: RC-E3	Remote control switch Option: RC-E3
Room temperature control			Thermostat by electronics	Thermostat by electronics	Thermostat by electronics	Thermostat by electronics
Safety equipment			Internal thermostat for fan motor Frost protection thermostat	Internal thermostat for fan motor Frost protection thermostat	Internal thermostat for fan motor Frost protection thermostat	Internal thermostat for fan motor Frost protection thermostat
Installation data Refrigerant piping size			Liquid line: φ9.52 (3/8") Gas line: φ15.88 (5/8")	Liquid line: φ9.52 (3/8") Gas line: φ15.88 (5/8")	Liquid line: φ9.52 (3/8") Gas line: φ15.88 (5/8")	Liquid line: φ9.52 (3/8") Gas line: φ15.88 (5/8")
Connecting method			Flare piping	Flare piping	Flare piping	Flare piping
Refrigerant			R410A	R410A	R410A	R410A
Drain pump			Built-in Drain pump	Built-in Drain pump	Built-in Drain pump	Built-in Drain pump
Drain hose			Connectable with V P 2 0	Connectable with V P 2 0	Connectable with V P 2 0	Connectable with V P 2 0
Insulation for piping			Necessary(both Liquid & Gas line)	Necessary(both Liquid & Gas line)	Necessary(both Liquid & Gas line)	Necessary(both Liquid & Gas line)
Accessories			Drain hose	Drain hose	Drain hose	Drain hose
Exterior dimensions			PJR002Z256	PJR002Z256	PJR002Z257	PJR002Z257
Electrical wiring			PJR002Z258	PJR002Z258	PJR002Z259	PJR002Z259

Notes (1) The data are measured at the following conditions.

Item	Indoor air temperature		Outdoor air temperature		Standards
	DB	WB	DB	WB	
Cooling*1	27 °C	19 °C	35 °C	24 °C	ISO-T1
Heating*2	20 °C		7 °C	6 °C	

(2) This packaged air-conditioner is manufactured and tested in conformity with the following standard.  
ISO-T1 "UNITARY AIR-CONDITIONERS"

Adapted to **RoHS** directive

MODEL NAME		FDUM71KXE6,90KXE6,112KXE6,140KXE6		
MODEL TYPE		FDUM - K X E 6		
KASAHARA	ISSUE	CLASSIFICATION		
	'07.10.31.	SPECIFICATION (INDOOR UNIT)		
	DWG.No.	REV.MARK	PAGE	
	P J R 0 0 2 Z 2 5 2		2 / 2	



**Duct Connected (Ultra thin) -Low static pressure- type (FDQS)**



Models		FDQS22KXE6	FDQS22KXE6	FDQS28KXE6	FDQS28KXE6
		Rear air return	Bottom air return	Rear air return	Bottom air return
Nominal cooling capacity*1	kW	2.2	2.2	2.8	2.8
Nominal heating capacity*2		2.5	2.5	3.2	3.2
Power source		220-240V ~ 50Hz / -	220-240V ~ 50Hz / -	220-240V ~ 50Hz / -	220-240V ~ 50Hz / -
Power consumption	Cool	kW	0.06 - 0.07 / -	0.06 - 0.07 / -	0.06 - 0.07 / -
	Heat		0.06 - 0.07 / -	0.06 - 0.07 / -	0.06 - 0.07 / -
Running current	Cool	A	0.35 - 0.38 / -	0.35 - 0.38 / -	0.35 - 0.38 / -
	Heat		0.35 - 0.38 / -	0.35 - 0.38 / -	0.35 - 0.38 / -
Sound Pressure Level		dB(A)	Hi : 37 Me : 35 Lo : 33	Hi : 43 Me : 41 Lo : 39	Hi : 37 Me : 35 Lo : 33
Exterior dimensions Height x Width x Depth		mm	180 × 940 × 580	180 × 940 × 580	180 × 940 × 580
Net weight		kg	27	27	27
Refrigerant equipment Heat exchanger			Louver fin & inner grooved tubing	Louver fin & inner grooved tubing	Louver fin & inner grooved tubing
Refrigerant control			Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Air handling equipment Fan type & Q'ty			Centrifugal fan × 1	Centrifugal fan × 1	Centrifugal fan × 1
Motor		W	25	25	25
Starting method			Direct line start	Direct line start	Direct line start
Air flow(Standard)		CMM	Hi : 9 Me : 8 Lo : 7.5	Hi : 9 Me : 8 Lo : 7.5	Hi : 9 Me : 8 Lo : 7.5
Available static pressure		Pa	Standrd : 15 , Max : 30	Standrd : 15 , Max : 30	Standrd : 15 , Max : 30
Outside air intake			-	-	-
Air filter, Q'ty			Installed on site	Installed on site	Installed on site
Shock & vibration absorber			Rubber sleeve(for fan motor)	Rubber sleeve(for fan motor)	Rubber sleeve(for fan motor)
Insulation (noise & heat)			Polyurethane form	Polyurethane form	Polyurethane form
Operation control Operation switch			Remote control switch Option: RC-E3	Remote control switch Option: RC-E3	Remote control switch Option: RC-E3
Room temperature control			Thermostat by electronics	Thermostat by electronics	Thermostat by electronics
Safety equipment			Internal thermostat for fan motor Frost protection thermostat	Internal thermostat for fan motor Frost protection thermostat	Internal thermostat for fan motor Frost protection thermostat
Installation data Refrigerant piping size			Liquid line: φ 6.35 (1/4") Gas line: φ 9.52 (3/8")	Liquid line: φ 6.35 (1/4") Gas line: φ 9.52 (3/8")	Liquid line: φ 6.35 (1/4") Gas line: φ 9.52 (3/8")
Connecting method			Flare piping	Flare piping	Flare piping
Refrigerant			R410A	R410A	R410A
Drain pump			Built-in Drain pump	Built-in Drain pump	Built-in Drain pump
Drain hose			Connectable with V P 2 0	Connectable with V P 2 0	Connectable with V P 2 0
Insulation for piping			Necessary(both Liquid & Gas line)	Necessary(both Liquid & Gas line)	Necessary(both Liquid & Gas line)
Accessories			Mounting kit,Drain hose	Mounting kit,Drain hose	Mounting kit,Drain hose
Exterior dimensions			PJC001Z199	PJC001Z241	PJC001Z241
Electrical wiring			PJC001Z200	PJC001Z200	PJC001Z200

Notes (1) The data are measured at the following conditions.

Item	Indoor air temperature		Outdoor air temperature		Standards
	DB	WB	DB	WB	
Cooling*1	27 °C	19 °C	35 °C	24 °C	ISO-T1
Heating*2	20 °C		7 °C	6 °C	

(2) This packaged air-conditioner is manufactured and tested in conformity with the following standard.  
ISO-T1 "UNITARY AIR-CONDITIONERS"

Adapted to **RoHS** directive

MODEL NAME		FDQS22KXE6,28KXE6		
MODEL TYPE		FDQS - KXE6		
ISSUE	CLASSIFICATION			
	SPECIFICATION (INDOOR UNIT)			
KASAHARA	DWG.No.	REV.MARK	PAGE	
	'07.10.31.	P J C 0 0 1 Z 1 9 7	1 / 3	



**Duct Connected (Ultra thin) -Low static pressure- type (FDQS)**

Models		FDQS36KXE6	FDQS36KXE6		
		Rear air return	Bottom air return		
Nominal cooling capacity*1	kW	3.6	3.6		
Nominal heating capacity*2		4.0	4.0		
Power source		220-240V ~ 50Hz / -	220-240V ~ 50Hz / -		
Power consumption	Cool	0.07 - 0.08 / -	0.07 - 0.08 / -		
	Heat	0.07 - 0.08 / -	0.07 - 0.08 / -		
Running current	Cool	0.36 - 0.39 / -	0.36 - 0.39 / -		
	Heat	0.36 - 0.39 / -	0.36 - 0.39 / -		
Sound Pressure Level	dB(A)	Hi : 37 Me : 35 Lo : 33	Hi : 43 Me : 41 Lo : 39		
Exterior dimensions Height x Width x Depth	mm	180 × 940 × 580	180 × 940 × 580		
		-	-		
Net weight	kg	28	28		
Refrigerant equipment Heat exchanger		Louver fin & inner grooved tubing	Louver fin & inner grooved tubing		
Refrigerant control		Electronic Expansion Valve	Electronic Expansion Valve		
Air handling equipment Fan type & Q'ty		Centrifugal fan × 1	Centrifugal fan × 1		
Motor	W	25	25		
Starting method		Direct line start	Direct line start		
Air flow(Standard)	CMM	Hi : 9 Me : 8 Lo : 7.5	Hi : 9 Me : 8 Lo : 7.5		
Available static pressure	Pa	Standrd : 15 , Max : 30	Standrd : 15 , Max : 30		
Outside air intake		-	-		
Air filter, Q'ty		Installed on site	Installed on site		
Shock & vibration absorber		Rubber sleeve(for fan motor)	Rubber sleeve(for fan motor)		
Insulation (noise & heat)		Polyurethane form	Polyurethane form		
Operation control Operation switch		Remote control switch Option: RC-E3	Remote control switch Option: RC-E3		
Room temperature control		Thermostat by electronics	Thermostat by electronics		
Safety equipment		Internal thermostat for fan motor Frost protection thermostat	Internal thermostat for fan motor Frost protection thermostat		
Installation data Refrigerant piping size		Liquid line: φ 6.35 (1/4") Gas line: φ 12.7 (1/2")	Liquid line: φ 6.35 (1/4") Gas line: φ 12.7 (1/2")		
Connecting method		Flare piping	Flare piping		
Refrigerant		R410A	R410A		
Drain pump		Built-in Drain pump	Built-in Drain pump		
Drain hose		Connectable with V P 2 0	Connectable with V P 2 0		
Insulation for piping		Necessary(both Liquid & Gas line)	Necessary(both Liquid & Gas line)		
Accessories		Mounting kit,Drain hose	Mounting kit,Drain hose		
Exterior dimensions		PJC001Z199	PJC001Z241		
Electrical wiring		PJC001Z200	PJC001Z200		

Notes (1) The data are measured at the following conditions.

Item	Indoor air temperature		Outdoor air temperature		Standards
	DB	WB	DB	WB	
Cooling*1	27 °C	19 °C	35 °C	24 °C	ISO-T1
Heating*2	20 °C		7 °C	6 °C	

(2) This packaged air-conditioner is manufactured and tested in conformity with the following standard.  
ISO-T1 "UNITARY AIR-CONDITIONERS"

Adapted to **RoHS** directive

MODEL NAME		FDQS36KXE6		
MODEL TYPE		F D Q S - K X E 6		
ISSUE	CLASSIFICATION			
KASAHARA	SPECIFICATION (INDOOR UNIT)			
	DWG.No.	REV.MARK	PAGE	
'07.10.31.	P J C 0 0 1 Z 1 9 7		2 / 3	

**Duct Connected (Ultra thin) -Low static pressure- type (FDQS)**

Models		FDQS45KXE6	FDQS45KXE6	FDQS56KXE6	FDQS56KXE6
		Rear air return	Bottom air return	Rear air return	Bottom air return
Nominal cooling capacity*1	kW	4.5	4.5	5.6	5.6
Nominal heating capacity*2		5.0	5.0	6.0	6.0
Power source		220-240V ~ 50Hz / -	220-240V ~ 50Hz / -	220-240V ~ 50Hz / -	220-240V ~ 50Hz / -
Power consumption	Cool	kW	0.07 - 0.08 / -	0.07 - 0.08 / -	0.08 - 0.09 / -
	Heat		0.07 - 0.08 / -	0.07 - 0.08 / -	0.08 - 0.09 / -
Running current	Cool	A	0.36 - 0.39 / -	0.36 - 0.39 / -	0.37 - 0.40 / -
	Heat		0.36 - 0.39 / -	0.36 - 0.39 / -	0.37 - 0.40 / -
Sound Pressure Level		dB(A)	Hi : 37 Me : 35 Lo : 33	Hi : 43 Me : 41 Lo : 39	Hi : 37 Me : 35 Lo : 33
Exterior dimensions Height x Width x Depth		mm	180 × 940 × 580	180 × 940 × 580	180 × 940 × 580
Net weight		kg	28	28	28
Refrigerant equipment Heat exchanger			Louver fin & inner grooved tubing	Louver fin & inner grooved tubing	Louver fin & inner grooved tubing
Refrigerant control			Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Air handling equipment Fan type & Q'ty			Centrifugal fan × 1	Centrifugal fan × 1	Centrifugal fan × 1
Motor		W	25	25	25
Starting method			Direct line start	Direct line start	Direct line start
Air flow(Standard)		CMM	Hi : 11 Me : 10 Lo : 9	Hi : 11 Me : 10 Lo : 9	Hi : 11 Me : 10 Lo : 9
Available static pressure		Pa	Standrd : 15 , Max : 30	Standrd : 15 , Max : 30	Standrd : 15 , Max : 30
Outside air intake			-	-	-
Air filter, Q'ty			Installed on site	Installed on site	Installed on site
Shock & vibration absorber			Rubber sleeve(for fan motor)	Rubber sleeve(for fan motor)	Rubber sleeve(for fan motor)
Insulation (noise & heat)			Polyurethane form	Polyurethane form	Polyurethane form
Operation control Operation switch			Remote control switch Option: RC-E3	Remote control switch Option: RC-E3	Remote control switch Option: RC-E3
Room temperature control			Thermostat by electronics	Thermostat by electronics	Thermostat by electronics
Safety equipment			Internal thermostat for fan motor Frost protection thermostat	Internal thermostat for fan motor Frost protection thermostat	Internal thermostat for fan motor Frost protection thermostat
Installation data Refrigerant piping size			Liquid line: φ 6.35 (1/4") Gas line: φ 12.7 (1/2")	Liquid line: φ 6.35 (1/4") Gas line: φ 12.7 (1/2")	Liquid line: φ 6.35 (1/4") Gas line: φ 12.7 (1/2")
Connecting method			Flare piping	Flare piping	Flare piping
Refrigerant			R410A	R410A	R410A
Drain pump			Built-in Drain pump	Built-in Drain pump	Built-in Drain pump
Drain hose			Connectable with V P 2 0	Connectable with V P 2 0	Connectable with V P 2 0
Insulation for piping			Necessary(both Liquid & Gas line)	Necessary(both Liquid & Gas line)	Necessary(both Liquid & Gas line)
Accessories			Mounting kit,Drain hose	Mounting kit,Drain hose	Mounting kit,Drain hose
Exterior dimensions			PJC001Z199	PJC001Z241	PJC001Z199
Electrical wiring			PJC001Z200	PJC001Z200	PJC001Z200

Notes (1) The data are measured at the following conditions.

Item	Indoor air temperature		Outdoor air temperature		Standards
	DB	WB	DB	WB	
Cooling*1	27 °C	19 °C	35 °C	24 °C	ISO-T1
Heating*2	20 °C		7 °C	6 °C	

(2) This packaged air-conditioner is manufactured and tested in conformity with the following standard.  
ISO-T1 "UNITARY AIR-CONDITIONERS"

Adapted to **RoHS** directive

MODEL NAME				FDQS45KXE6,56KXE6	
MODEL TYPE				FDQS - KXE6	
ISSUE		CLASSIFICATION			
KASAHARA		SPECIFICATION (INDOOR UNIT)			
		DWG.No.		REV.MARK	PAGE
'07.10.31.		P J C 0 0 1 Z 1 9 7			3 / 3

**Wall Mounted type (FDK)**

Models		FDK22KXE6	FDK28KXE6	FDK36KXE6	FDK45KXE6	FDK56KXE6
Nominal cooling capacity*1		2.2	2.8	3.6	4.5	5.6
Nominal heating capacity*2		2.5	3.2	4.0	5.0	6.3
Power source		220-240V ~ 50Hz / 220V ~ 60Hz	220-240V ~ 50Hz / 220V ~ 60Hz	220-240V ~ 50Hz / 220V ~ 60Hz	220-240V ~ 50Hz / 220V ~ 60Hz	220-240V ~ 50Hz / 220V ~ 60Hz
Power consumption	Cool	0.05	0.05	0.05	0.05	0.05
	Heat	0.04	0.04	0.04	0.05	0.05
Running current	Cool	0.23 - 0.21 / 0.23	0.23 - 0.21 / 0.23	0.23 - 0.21 / 0.23	0.23 - 0.21 / 0.23	0.23 - 0.21 / 0.23
	Heat	0.23 - 0.21 / 0.23	0.23 - 0.21 / 0.23	0.23 - 0.21 / 0.23	0.23 - 0.21 / 0.23	0.23 - 0.21 / 0.23
Sound Pressure Level	dB(A)	Hi : 40 Me : 39 Lo : 37	Hi : 40 Me : 39 Lo : 37	Hi : 41 Me : 39 Lo : 37	Hi : 41 Me : 39 Lo : 37	Hi : 46 Me : 39 Lo : 37
Exterior dimensions Height x Width x Depth	mm	298 × 840 × 259	298 × 840 × 259	298 × 840 × 259	298 × 840 × 259	298 × 840 × 259
Exterior appearance ( Munsell color )		Cool White ( 9.3G8.7/0.1 ) near equivalent	Cool White ( 9.3G8.7/0.1 ) near equivalent	Cool White ( 9.3G8.7/0.1 ) near equivalent	Cool White ( 9.3G8.7/0.1 ) near equivalent	Cool White ( 9.3G8.7/0.1 ) near equivalent
Net weight	kg	12	12	12	12.5	13
Refrigerant equipment Heat exchanger		Louver fin & inner grooved tubing	Louver fin & inner grooved tubing	Louver fin & inner grooved tubing	Louver fin & inner grooved tubing	Louver fin & inner grooved tubing
Refrigerant control		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Air handling equipment Fan type & Q'ty		Tangential fan × 1	Tangential fan × 1	Tangential fan × 1	Tangential fan × 1	Tangential fan × 1
Motor	W	33	33	33	33	33
Starting method		Direct line start	Direct line start	Direct line start	Direct line start	Direct line start
Air flow(Standard)	CMM	Hi : 8	Hi : 8	Hi : 10	Hi : 11	Hi : 14
Available static pressure	Pa	0	0	0	0	0
Outside air intake		Not possible	Not possible	Not possible	Not possible	Not possible
Air filter, Q'ty		Polypropylene net × 2 (Washable)	Polypropylene net × 2 (Washable)	Polypropylene net × 2 (Washable)	Polypropylene net × 2 (Washable)	Polypropylene net × 2 (Washable)
Shock & vibration absorber		Rubber sleeve(for fan motor)	Rubber sleeve(for fan motor)	Rubber sleeve(for fan motor)	Rubber sleeve(for fan motor)	Rubber sleeve(for fan motor)
Insulation (noise & heat)		Polyurethane form	Polyurethane form	Polyurethane form	Polyurethane form	Polyurethane form
Operation control Operation switch		Remote control switch Option: RC-E3	Remote control switch Option: RC-E3	Remote control switch Option: RC-E3	Remote control switch Option: RC-E3	Remote control switch Option: RC-E3
Room temperature control		Thermostat by electronics	Thermostat by electronics	Thermostat by electronics	Thermostat by electronics	Thermostat by electronics
Safety equipment		Overload protection for fan motor Frost protection thermostat	Overload protection for fan motor Frost protection thermostat	Overload protection for fan motor Frost protection thermostat	Overload protection for fan motor Frost protection thermostat	Overload protection for fan motor Frost protection thermostat
Installation data Refrigerant piping size		Liquid line: φ 6.35 (1/4") Gas line: φ 9.52 (3/8")	Liquid line: φ 6.35 (1/4") Gas line: φ 9.52 (3/8")	Liquid line: φ 6.35 (1/4") Gas line: φ 12.7 (1/2")	Liquid line: φ 6.35 (1/4") Gas line: φ 12.7 (1/2")	Liquid line: φ 6.35 (1/4") Gas line: φ 12.7 (1/2")
Connecting method		Flare piping	Flare piping	Flare piping	Flare piping	Flare piping
Refrigerant		R410A	R410A	R410A	R410A	R410A
Drain hose		Connectable with V P 1 6	Connectable with V P 1 6	Connectable with V P 1 6	Connectable with V P 1 6	Connectable with V P 1 6
Insulation for piping		Necessary(both Liquid & Gas line)	Necessary(both Liquid & Gas line)	Necessary(both Liquid & Gas line)	Necessary(both Liquid & Gas line)	Necessary(both Liquid & Gas line)
Accessories		Mounting kit	Mounting kit	Mounting kit	Mounting kit	Mounting kit
Exterior dimensions		PHA000Z981	PHA000Z981	PHA000Z981	PHA000Z981	PHA000Z981
Electrical wiring		PHA000Z983	PHA000Z983	PHA000Z983	PHA000Z983	PHA000Z983

Notes (1) The data are measured at the following conditions.

Item	Indoor air temperature		Outdoor air temperature		Standards
	DB	WB	DB	WB	
Operation					ISO-T1
Cooling*1	27 °C	19 °C	35 °C	24 °C	
Heating*2	20 °C		7 °C	6 °C	

(2) This packaged air-conditioner is manufactured and tested in conformity with the following standard.  
ISO-T1 "UNITARY AIR-CONDITIONERS"

Adapted to **RoHS** directive

MODEL NAME	FDK22KXE6,28KXE6,36KXE6,45KXE6,56KXE6		
MODEL TYPE	F D K - K X E 6		
ISSUE	CLASSIFICATION		
KASAHARA	SPECIFICATION (INDOOR UNIT)		
	DWG.No.	REV.MARK	PAGE
'07.10.31.	PH A 0 0 0 Z 9 7 9		1 / 2

**Wall Mounted type (FDK)**

Models		FDK71KXE6				
Nominal cooling capacity*1		kW	7.1			
Nominal heating capacity*2			8.0			
Power source		220-240V ~ 50Hz / 220V ~ 60Hz				
Power consumption	Cool	kW	0.09			
	Heat		0.09			
Running current	Cool	A	0.41 - 0.48 / 0.41			
	Heat		0.41 - 0.48 / 0.41			
Sound Pressure Level		dB(A)	Hi : 47 Me : 43 Lo : 39			
Exterior dimensions· Height x Width x Depth		mm	318 × 1,098 × 248			
Exterior appearance ( Munsell color )		Cool White ( 9.3G8.7/0.1 ) near equivalent				
Net weight		kg	15.5			
Refrigerant equipment· Heat exchanger		Louver fin & inner grooved tubing				
Refrigerant control		Electronic Expansion Valve				
Air handling equipment· Fan type & Q'ty		Tangential fan × 1				
Motor		W	45			
Starting method		Direct line start				
Air flow(Standard)		CMM	Hi : 21			
Available static pressure		Pa	0			
Outside air intake		Not possible				
Air filter, Q'ty		Polypropylene net × 2 (Washable)				
Shock & vibration absorber		Rubber sleeve(for fan motor)				
Insulation (noise & heat)		Polyurethane form				
Operation control· Operation switch		Remote control switch Option: RC-E3				
Room temperature control		Thermostat by electronics				
Safety equipment		Overload protection for fan motor Frost protection thermostat				
Installation data· Refrigerant piping size		Liquid line: φ9.52 (3/8") Gas line: φ15.88 (5/8")				
Connecting method		Flare piping				
Refrigerant		R410A				
Drain hose		Connectable with V P 1 6				
Insulation for piping		Necessary(both Liquid & Gas line)				
Accessories		Mounting kit				
Exterior dimensions		PHA000Z982				
Electrical wiring		PHA000Z984				

Notes (1) The data are measured at the following conditions.

Item	Indoor air temperature		Outdoor air temperature		Standards
	DB	WB	DB	WB	
Cooling*1	27 °C	19 °C	35 °C	24 °C	ISO-T1
Heating*2	20 °C		7 °C	6 °C	

(2) This packaged air-conditioner is manufactured and tested in conformity with the following standard.  
ISO-T1 "UNITARY AIR-CONDITIONERS"

Adapted to **RoHS** directive

MODEL NAME		FDK71KXE6		
MODEL TYPE		FDK - K X E 6		
ISSUE	CLASSIFICATION			
	SPECIFICATION (INDOOR UNIT)			
KASAHARA	DWG.No.	REV.MARK	PAGE	
	'07.10.31.	PHA000Z979	2 / 2	

PHA000Z979 2/2

**Ceiling Suspended type (FDE)**

Models		FDE36KXE6	FDE45KXE6	FDE56KXE6	FDE71KXE6
Nominal cooling capacity*1	kW	3.6	4.5	5.6	7.1
Nominal heating capacity*2		4.0	5.0	6.3	8.0
Power source		220-240V ~ 50Hz / 220V ~ 60Hz	220-240V ~ 50Hz / 220V ~ 60Hz	220-240V ~ 50Hz / 220V ~ 60Hz	220-240V ~ 50Hz / 220V ~ 60Hz
Power consumption	Cool	0.04 - 0.05 / 0.05	0.04 - 0.05 / 0.05	0.04 - 0.05 / 0.05	0.08 - 0.09 / 0.09
	Heat	0.04 - 0.05 / 0.05	0.04 - 0.05 / 0.05	0.04 - 0.05 / 0.05	0.07 - 0.08 / 0.08
Running current	Cool	0.19 - 0.21 / 0.23	0.19 - 0.21 / 0.23	0.19 - 0.21 / 0.23	0.37 - 0.38 / 0.41
	Heat	0.19 - 0.21 / 0.23	0.19 - 0.21 / 0.23	0.19 - 0.21 / 0.23	0.34 - 0.35 / 0.37
Sound Pressure Level	dB(A)	Hi : 39 Me : 38 Lo : 36	Hi : 39 Me : 38 Lo : 36	Hi : 39 Me : 38 Lo : 36	Hi : 41 Me : 39 Lo : 37
Exterior dimensions Height x Width x Depth	mm	210 × 1,070 × 690	210 × 1,070 × 690	210 × 1,070 × 690	210 × 1,320 × 690
Exterior appearance ( Munsell color )		Plaster White ( 6.8Y8.9/0.2 ) near equivalent	Plaster White ( 6.8Y8.9/0.2 ) near equivalent	Plaster White ( 6.8Y8.9/0.2 ) near equivalent	Plaster White ( 6.8Y8.9/0.2 ) near equivalent
Net weight	kg	30	30	30	36
Refrigerant equipment Heat exchanger		Louver fin & inner grooved tubing	Louver fin & inner grooved tubing	Louver fin & inner grooved tubing	Louver fin & inner grooved tubing
Refrigerant control		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Air handling equipment Fan type & Q'ty		Centrifugal fan × 2	Centrifugal fan × 2	Centrifugal fan × 2	Centrifugal fan × 4
Motor	W	25	25	25	20 × 2
Starting method		Direct line start	Direct line start	Direct line start	Direct line start
Air flow(Standard)	CMM	Hi : 11 Me : 9 Lo : 7	Hi : 11 Me : 9 Lo : 7	Hi : 11 Me : 9 Lo : 7	Hi : 18 Me : 14 Lo : 12
Available static pressure	Pa	0	0	0	0
Outside air intake		Not possible	Not possible	Not possible	Not possible
Air filter, Q'ty		Pocket plastic net × 2 (Washable)	Pocket plastic net × 2 (Washable)	Pocket plastic net × 2 (Washable)	Pocket plastic net × 2 (Washable)
Shock & vibration absorber		Rubber sleeve(for fan motor)	Rubber sleeve(for fan motor)	Rubber sleeve(for fan motor)	Rubber sleeve(for fan motor)
Insulation (noise & heat)		Polyurethane form	Polyurethane form	Polyurethane form	Polyurethane form
Operation control Operation switch		Remote control switch Option: RC-E3	Remote control switch Option: RC-E3	Remote control switch Option: RC-E3	Remote control switch Option: RC-E3
Room temperature control		Thermostat by electronics	Thermostat by electronics	Thermostat by electronics	Thermostat by electronics
Safety equipment		Internal thermostat for fan motor Frost protection thermostat	Internal thermostat for fan motor Frost protection thermostat	Internal thermostat for fan motor Frost protection thermostat	Internal thermostat for fan motor Frost protection thermostat
Installation data Refrigerant piping size		Liquid line: φ 6.35 (1/4") Gas line: φ 12.7 (1/2")	Liquid line: φ 6.35 (1/4") Gas line: φ 12.7 (1/2")	Liquid line: φ 6.35 (1/4") Gas line: φ 12.7 (1/2")	Liquid line: φ 9.52 (3/8") Gas line: φ 15.88 (5/8")
Connecting method		Flare piping	Flare piping	Flare piping	Flare piping
Refrigerant		R410A	R410A	R410A	R410A
Drain hose		Connectable with V P 2 0	Connectable with V P 2 0	Connectable with V P 2 0	Connectable with V P 2 0
Insulation for piping		Necessary(both Liquid & Gas line)	Necessary(both Liquid & Gas line)	Necessary(both Liquid & Gas line)	Necessary(both Liquid & Gas line)
Accessories		Mounting kit,Drain hose	Mounting kit,Drain hose	Mounting kit,Drain hose	Mounting kit,Drain hose
Exterior dimensions		PFA003Z738	PFA003Z738	PFA003Z738	PFA003Z739
Electrical wiring		PFA003Z741	PFA003Z741	PFA003Z741	PFA003Z742

Notes (1) The data are measured at the following conditions.

Item	Indoor air temperature		Outdoor air temperature		Standards
	DB	WB	DB	WB	
Cooling*1	27 °C	19 °C	35 °C	24 °C	ISO-T1
Heating*2	20 °C		7 °C	6 °C	

(2) This packaged air-conditioner is manufactured and tested in conformity with the following standard.  
ISO-T1 "UNITARY AIR-CONDITIONERS"

Adapted to **RoHS** directive

MODEL NAME		FDE36KXE6,45KXE6,56KXE6,71KXE6		
MODEL TYPE		F D E - K X E 6		
ISSUE	CLASSIFICATION			
KASAHARA	SPECIFICATION (INDOOR UNIT)			
	DWG.No.	REV.MARK	PAGE	
'07.10.31.	P F A 0 0 3 Z 7 3 6		1 / 2	

**Ceiling Suspended type (FDE)**

Models		FDE112KXE6	FDE140KXE6		
		-	-		
Nominal cooling capacity*1	kW	11.2	14.0		
Nominal heating capacity*2		12.5	16.0		
Power source		220-240V ~ 50Hz / 220V ~ 60Hz	220-240V ~ 50Hz / 220V ~ 60Hz		
Power consumption	Cool	0.12 - 0.14 / 0.14	0.14 - 0.15 / 0.16		
	Heat	0.11 - 0.13 / 0.13	0.13 - 0.14 / 0.15		
Running current	Cool	0.56 - 0.59 / 0.65	0.64 - 0.65 / 0.73		
	Heat	0.52 - 0.54 / 0.59	0.59 - 0.59 / 0.68		
Sound Pressure Level	dB(A)	Hi : 44 Me : 41 Lo : 39	Hi : 46 Me : 44 Lo : 43		
Exterior dimensions Height x Width x Depth	mm	250 × 1,620 × 690	250 × 1,620 × 690		
Exterior appearance ( Munsell color )		Plaster White ( 6.8Y8.9/0.2 ) near equivalent	Plaster White ( 6.8Y8.9/0.2 ) near equivalent		
Net weight	kg	46	46		
Refrigerant equipment Heat exchanger		Louver fin & inner grooved tubing	Louver fin & inner grooved tubing		
Refrigerant control		Electronic Expansion Valve	Electronic Expansion Valve		
Air handling equipment Fan type & Q'ty		Centrifugal fan × 4	Centrifugal fan × 4		
Motor	W	30 × 2	40 × 2		
Starting method		Direct line start	Direct line start		
Air flow(Standard)	CMM	Hi : 26 Me : 23 Lo : 21	Hi : 29 Me : 26 Lo : 23		
Available static pressure	Pa	0	0		
Outside air intake		Not possible	Not possible		
Air filter, Q'ty		Pocket plastic net × 2 (Washable)	Pocket plastic net × 2 (Washable)		
Shock & vibration absorber		Rubber sleeve(for fan motor)	Rubber sleeve(for fan motor)		
Insulation (noise & heat)		Polyurethane form	Polyurethane form		
Operation control Operation switch		Remote control switch Option: RC-E3	Remote control switch Option: RC-E3		
Room temperature control		Thermostat by electronics	Thermostat by electronics		
Safety equipment		Internal thermostat for fan motor Frost protection thermostat	Internal thermostat for fan motor Frost protection thermostat		
Installation data Refrigerant piping size		Liquid line: φ 9.52 (3/8") Gas line: φ 15.88 (5/8")	Liquid line: φ 9.52 (3/8") Gas line: φ 15.88 (5/8")		
Connecting method		Flare piping	Flare piping		
Refrigerant		R410A	R410A		
Drain hose		Connectable with V P 2 0	Connectable with V P 2 0		
Insulation for piping		Necessary(both Liquid & Gas line)	Necessary(both Liquid & Gas line)		
Accessories		Mounting kit,Drain hose	Mounting kit,Drain hose		
Exterior dimensions		PFA003Z740	PFA003Z740		
Electrical wiring		PFA003Z742	PFA003Z742		

Notes (1) The data are measured at the following conditions.

Item	Indoor air temperature		Outdoor air temperature		Standards
	DB	WB	DB	WB	
Cooling*1	27 °C	19 °C	35 °C	24 °C	ISO-T1
Heating*2	20 °C		7 °C	6 °C	

(2) This packaged air-conditioner is manufactured and tested in conformity with the following standard.  
ISO-T1 "UNITARY AIR-CONDITIONERS"

Adapted to **RoHS** directive

MODEL NAME				FDE112KXE6,140KXE6	
MODEL TYPE				F D E - K X E 6	
ISSUE		CLASSIFICATION			
KASAHARA		SPECIFICATION (INDOOR UNIT)			
		DWG.No.		REV.MARK	PAGE
'07.10.31.		P F A 0 0 3 Z 7 3 6			2 / 2

**Floor Standing (with casing) type (FDFL)**

Models		FDL28KXE6	FDL45KXE6	FDL71KXE6		
Nominal cooling capacity*1	kW	2.8	4.5	7.1		
Nominal heating capacity*2		3.2	5.0	8.0		
Power source		220-240V ~ 50Hz	220-240V ~ 50Hz	220-240V ~ 50Hz		
Power consumption	Cool	kW	0.09 - 0.10	0.09 - 0.10	0.09 - 0.10	
	Heat		0.09 - 0.10	0.09 - 0.10	0.09 - 0.10	
Running current	Cool	A	0.41 - 0.42	0.40 - 0.41	0.40 - 0.41	
	Heat		0.41 - 0.42	0.40 - 0.41	0.40 - 0.41	
Sound Pressure Level		dB(A)	Hi : 41 Me : 38 Lo : 36	Hi : 43 Me : 41 Lo : 40	Hi : 43 Me : 41 Lo : 40	
Exterior dimensions Height x Width x Depth		mm	630 × 1,196 × 225	630 × 1,196 × 225	630 × 1,481 × 225	
Exterior appearance ( Munsell color )			Ceramic White ( N8.0 ) near equivalent	Ceramic White ( N8.0 ) near equivalent	Ceramic White ( N8.0 ) near equivalent	
Net weight		kg	32	32	40	
Refrigerant equipment Heat exchanger			Louver fin & inner grooved tubing	Louver fin & inner grooved tubing	Louver fin & inner grooved tubing	
Refrigerant control			Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve	
Air handling equipment Fan type & Q'ty			Centrifugal fan × 2	Centrifugal fan × 2	Centrifugal fan × 2	
Motor		W	30	40	40	
Starting method			Direct line start	Direct line start	Direct line start	
Air flow(Standard)		CMM	Hi : 12 Me : 11 Lo : 10	Hi : 14 Me : 12 Lo : 10	Hi : 18 Me : 15 Lo : 12	
Available static pressure		Pa	0	0	0	
Outside air intake			Not possible	Not possible	Not possible	
Air filter, Q'ty			Polypropylene net × 1 (Washable)	Polypropylene net × 1 (Washable)	Polypropylene net × 1 (Washable)	
Shock & vibration absorber			Rubber sleeve(for fan motor)	Rubber sleeve(for fan motor)	Rubber sleeve(for fan motor)	
Insulation (noise & heat)			Polyurethane form	Polyurethane form	Polyurethane form	
Operation control Operation switch			Remote control switch Option: RC-E3	Remote control switch Option: RC-E3	Remote control switch Option: RC-E3	
Room temperature control			Thermostat by electronics	Thermostat by electronics	Thermostat by electronics	
Safety equipment			Internal thermostat for fan motor Frost protection thermostat	Internal thermostat for fan motor Frost protection thermostat	Internal thermostat for fan motor Frost protection thermostat	
Installation data Refrigerant piping size			Liquid line: φ 6.35 (1/4") Gas line: φ 9.52 (3/8")	Liquid line: φ 6.35 (1/4") Gas line: φ 12.7 (1/2")	Liquid line: φ 9.52 (3/8") Gas line: φ 15.88 (5/8")	
Connecting method			Flare piping	Flare piping	Flare piping	
Refrigerant			R410A	R410A	R410A	
Drain hose			Connectable with V P 2 0	Connectable with V P 2 0	Connectable with V P 2 0	
Insulation for piping			Necessary(both Liquid & Gas line)	Necessary(both Liquid & Gas line)	Necessary(both Liquid & Gas line)	
Accessories			Mounting kit,Drain hose	Mounting kit,Drain hose	Mounting kit,Drain hose	
Exterior dimensions			PGD000Z051	PGD000Z051	PGD000Z052	
Electrical wiring			PGD000Z053	PGD000Z053	PGD000Z053	

Notes (1) The data are measured at the following conditions.

Item	Indoor air temperature		Outdoor air temperature		Standards
	DB	WB	DB	WB	
Cooling*1	27 °C	19 °C	35 °C	24 °C	ISO-T1
Heating*2	20 °C		7 °C	6 °C	

(2) This packaged air-conditioner is manufactured and tested in conformity with the following standard.  
ISO-T1 "UNITARY AIR-CONDITIONERS"

Adapted to **RoHS** directive

MODEL NAME				FDL28KXE6,45KXE6,71KXE6	
MODEL TYPE				F D F L - K X E 6	
ISSUE		CLASSIFICATION			
KASAHARA		SPECIFICATION (INDOOR UNIT)			
		DWG.No.		REV.MARK	PAGE
'07.10.31.		P G D 0 0 0 Z 0 4 9			1 / 1



**Floor Standing (without casing) type (FDU)**

Models		DFDU28KXE6	DFDU45KXE6	DFDU56KXE6	DFDU71KXE6
Nominal cooling capacity*1		2.8	4.5	5.6	7.1
Nominal heating capacity*2		3.2	5.0	6.3	8.0
Power source		220-240V ~ 50Hz	220-240V ~ 50Hz	220-240V ~ 50Hz	220-240V ~ 50Hz
Power consumption	Cool	0.09 - 0.10	0.09 - 0.10	0.09 - 0.10	0.09 - 0.10
	Heat	0.09 - 0.10	0.09 - 0.10	0.09 - 0.10	0.09 - 0.10
Running current	Cool	0.41 - 0.42	0.40 - 0.41	0.40 - 0.41	0.40 - 0.41
	Heat	0.41 - 0.42	0.40 - 0.41	0.40 - 0.41	0.40 - 0.41
Sound Pressure Level	dB(A)	Hi : 41 Me : 38 Lo : 36	Hi : 43 Me : 41 Lo : 40	Hi : 43 Me : 41 Lo : 40	Hi : 43 Me : 41 Lo : 40
Exterior dimensions Height x Width x Depth	mm	630 × 1,077 × 225	630 × 1,077 × 225	630 × 1,077 × 225	630 × 1,362 × 225
Net weight	kg	25	25	25	32
Refrigerant equipment Heat exchanger		Louver fin & inner grooved tubing	Louver fin & inner grooved tubing	Louver fin & inner grooved tubing	Louver fin & inner grooved tubing
Refrigerant control		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Air handling equipment Fan type & Q'ty		Centrifugal fan × 2	Centrifugal fan × 2	Centrifugal fan × 2	Centrifugal fan × 2
Motor	W	30	40	40	40
Starting method		Direct line start	Direct line start	Direct line start	Direct line start
Air flow(Standard)	CMM	Hi : 12 Me : 11 Lo : 10	Hi : 14 Me : 12 Lo : 10	Hi : 14 Me : 12 Lo : 10	Hi : 18 Me : 15 Lo : 12
Available static pressure	Pa	0	0	0	0
Outside air intake		Not possible	Not possible	Not possible	Not possible
Air filter, Q'ty		Polypropylene net × 1 (Washable)	Polypropylene net × 1 (Washable)	Polypropylene net × 1 (Washable)	Polypropylene net × 1 (Washable)
Shock & vibration absorber		Rubber sleeve(for fan motor)	Rubber sleeve(for fan motor)	Rubber sleeve(for fan motor)	Rubber sleeve(for fan motor)
Insulation (noise & heat)		Polyurethane form	Polyurethane form	Polyurethane form	Polyurethane form
Operation control Operation switch		Remote control switch Option: RC-E3	Remote control switch Option: RC-E3	Remote control switch Option: RC-E3	Remote control switch Option: RC-E3
Room temperature control		Thermostat by electronics	Thermostat by electronics	Thermostat by electronics	Thermostat by electronics
Safety equipment		Internal thermostat for fan motor Frost protection thermostat	Internal thermostat for fan motor Frost protection thermostat	Internal thermostat for fan motor Frost protection thermostat	Internal thermostat for fan motor Frost protection thermostat
Installation data Refrigerant piping size		Liquid line: φ6.35 (1/4") Gas line: φ9.52 (3/8")	Liquid line: φ6.35 (1/4") Gas line: φ12.7 (1/2")	Liquid line: φ6.35 (1/4") Gas line: φ12.7 (1/2")	Liquid line: φ9.52 (3/8") Gas line: φ15.88 (5/8")
Connecting method		Flare piping	Flare piping	Flare piping	Flare piping
Refrigerant		R410A	R410A	R410A	R410A
Drain hose		Connectable with V P 2 0	Connectable with V P 2 0	Connectable with V P 2 0	Connectable with V P 2 0
Insulation for piping		Necessary(both Liquid & Gas line)	Necessary(both Liquid & Gas line)	Necessary(both Liquid & Gas line)	Necessary(both Liquid & Gas line)
Accessories		Mounting kit,Drain hose	Mounting kit,Drain hose	Mounting kit,Drain hose	Mounting kit,Drain hose
Exterior dimensions		PGD000Z056	PGD000Z056	PGD000Z056	PGD000Z057
Electrical wiring		PGD000Z058	PGD000Z058	PGD000Z058	PGD000Z058

Notes (1) The data are measured at the following conditions.

Item	Indoor air temperature		Outdoor air temperature		Standards
	DB	WB	DB	WB	
Cooling*1	27 °C	19 °C	35 °C	24 °C	ISO-T1
Heating*2	20 °C		7 °C	6 °C	

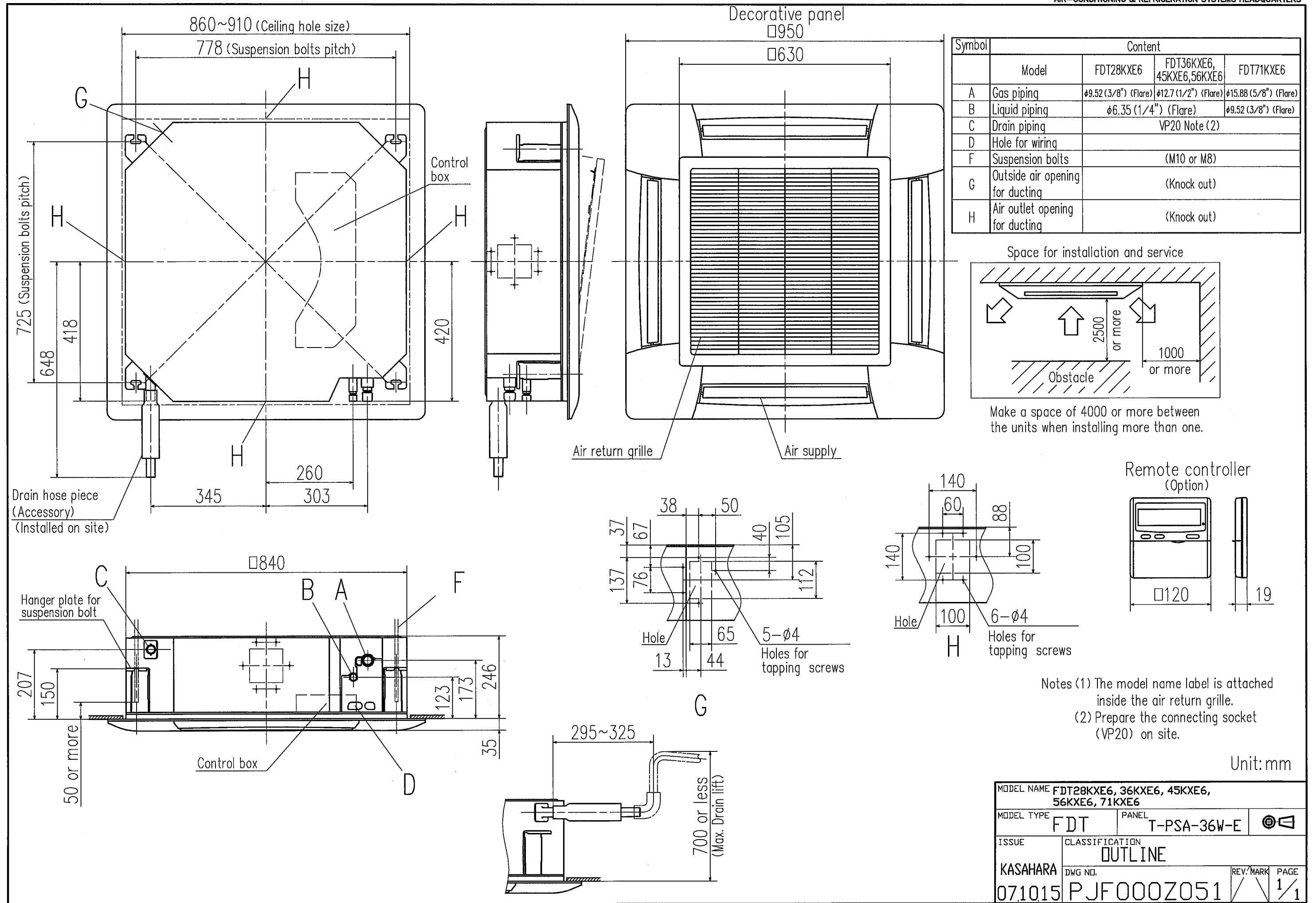
(2) This packaged air-conditioner is manufactured and tested in conformity with the following standard.  
ISO-T1 "UNITARY AIR-CONDITIONERS"

Adapted to **RoHS** directive

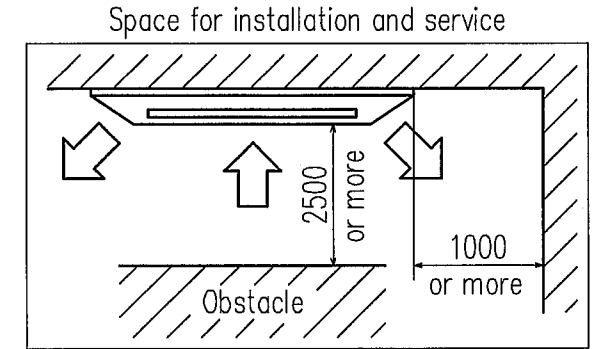
MODEL NAME		DFDU28KXE6,45KXE6,56KXE6,71KXE6		
MODEL TYPE		F D F U - K X E 6		
ISSUE	CLASSIFICATION			
KASAHARA	SPECIFICATION (INDOOR UNIT)			
	DWG.No.	REV.MARK	PAGE	
'07.10.31.	PGD000Z054		1 / 1	

PGD000Z054 1 / 1



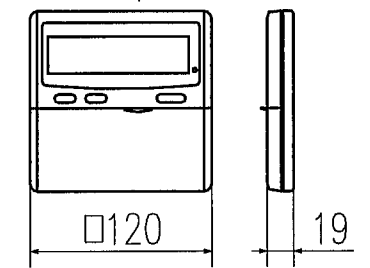


Symbol	Model	Content		
		FDT28KXE6	FDT36KXE6, 45KXE6, 56KXE6	FDT71KXE6
A	Gas piping	φ9.52 (3/8") (Flare)	φ12.7 (1/2") (Flare)	φ15.88 (5/8") (Flare)
B	Liquid piping	φ6.35 (1/4") (Flare)		φ9.52 (3/8") (Flare)
C	Drain piping	VP20 Note (2)		
D	Hole for wiring			
F	Suspension bolts	(M10 or M8)		
G	Outside air opening for ducting	(Knock out)		
H	Air outlet opening for ducting	(Knock out)		



Make a space of 4000 or more between the units when installing more than one.

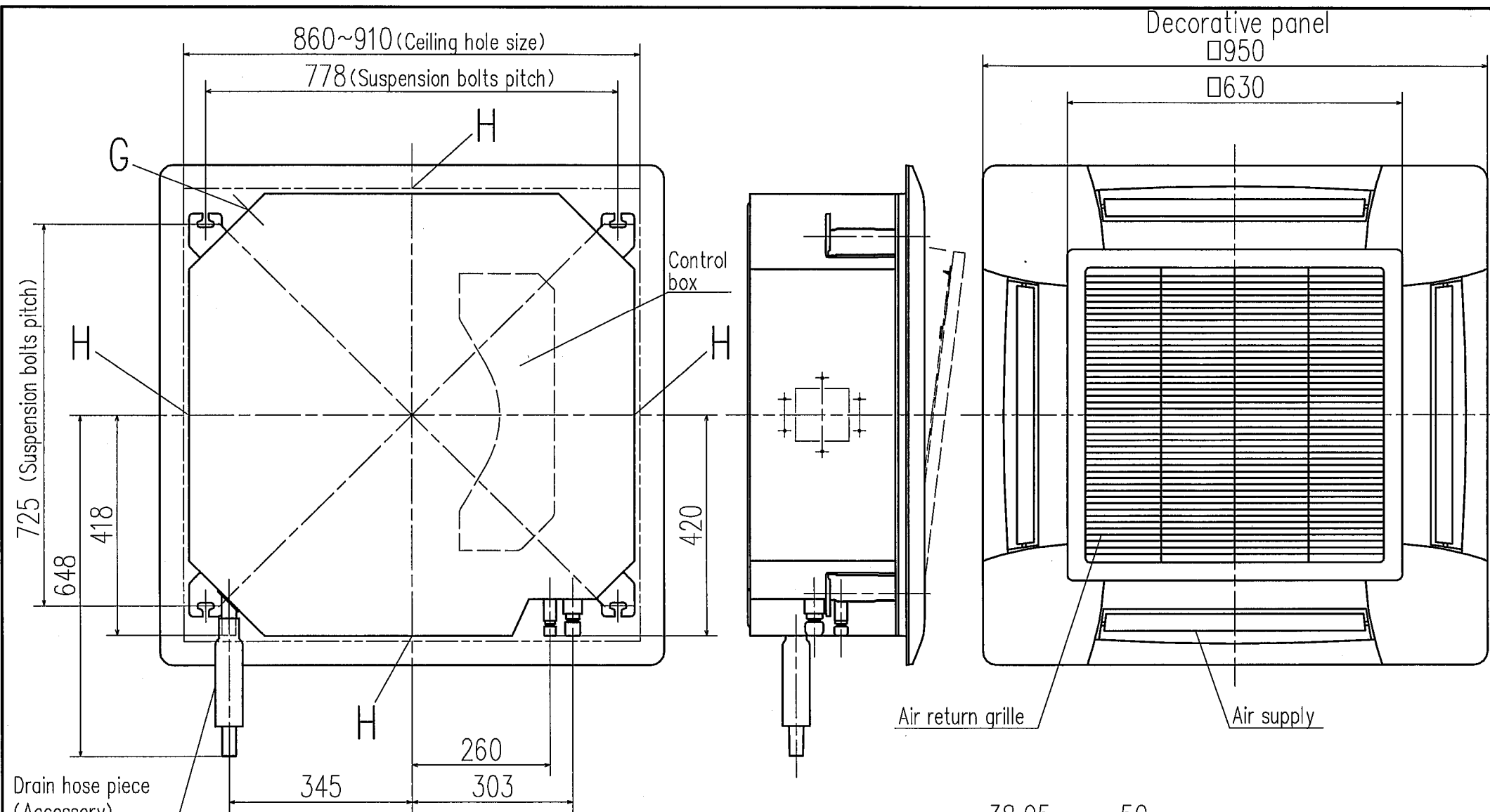
Remote controller (Option)



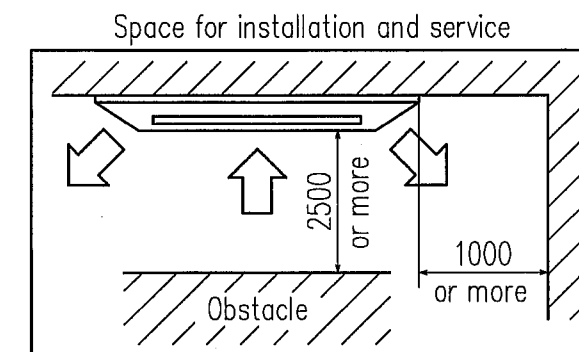
Notes (1) The model name label is attached inside the air return grille.  
(2) Prepare the connecting socket (VP20) on site.

Unit: mm

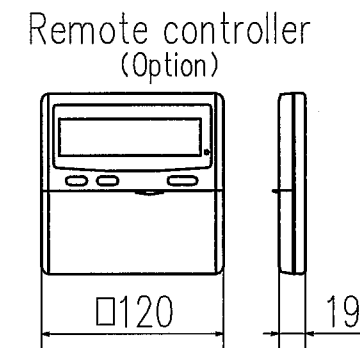
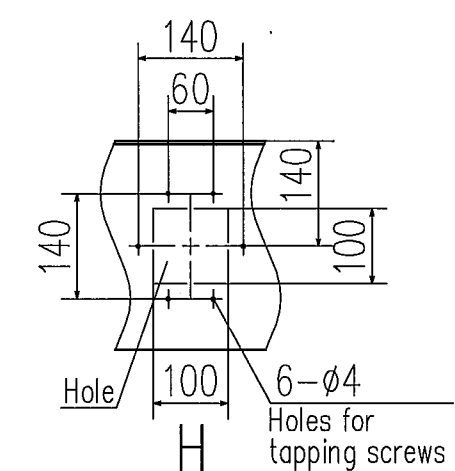
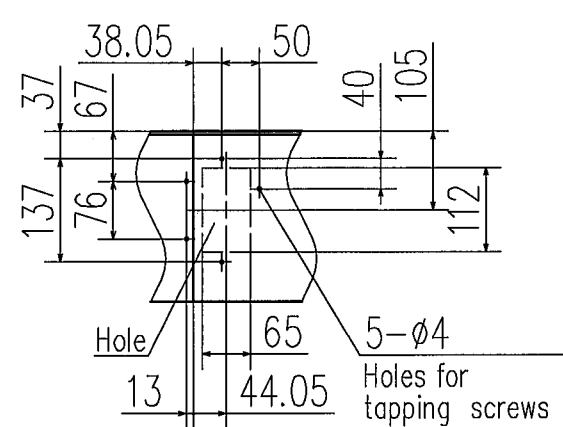
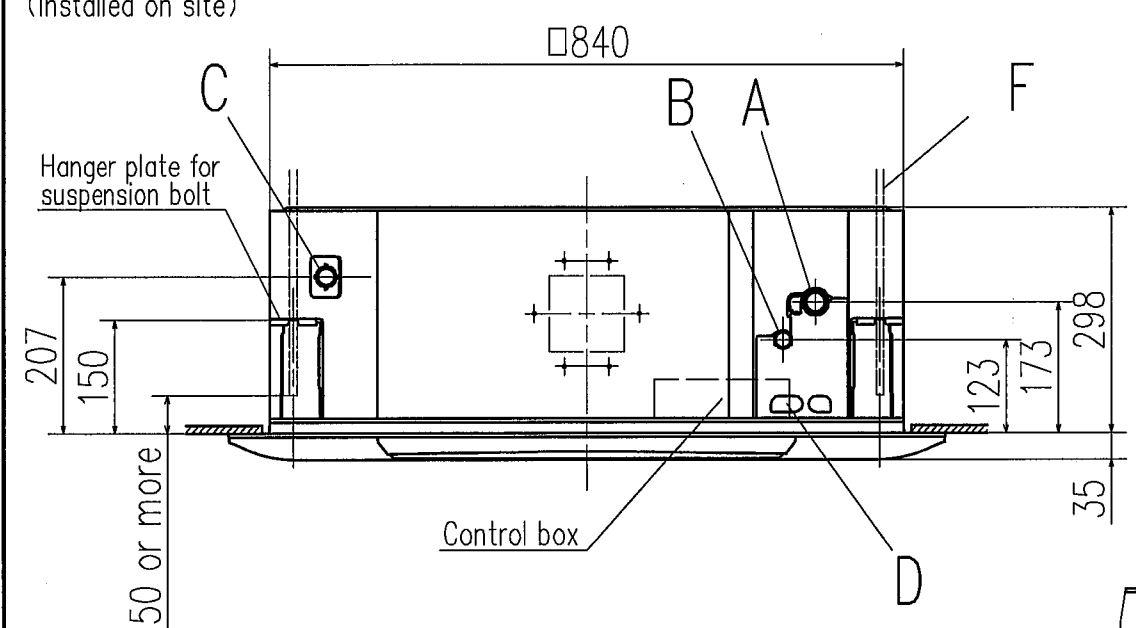
MODEL NAME FDT28KXE6, 36KXE6, 45KXE6, 56KXE6, 71KXE6			
MODEL TYPE	FDT	PANEL	T-PSA-36W-E
ISSUE	CLASSIFICATION		
	OUTLINE		
KASAHARA	DWG NO.	REV./MARK	PAGE
071015	PJF000Z051		1/1



Symbol	Content	
A	Gas piping	φ15.88 (5/8") (Flare)
B	Liquid piping	φ9.52 (3/8") (Flare)
C	Drain piping	VP20 Note (2)
D	Hole for wiring	
F	Suspension bolts	(M10 or M8)
G	Outside air opening for ducting	(Knock out)
H	Air outlet opening for ducting	(Knock out)

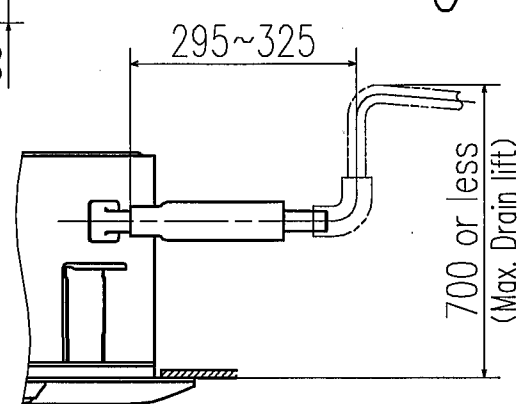


Make a space of 5000 or more between the units when installing more than one.

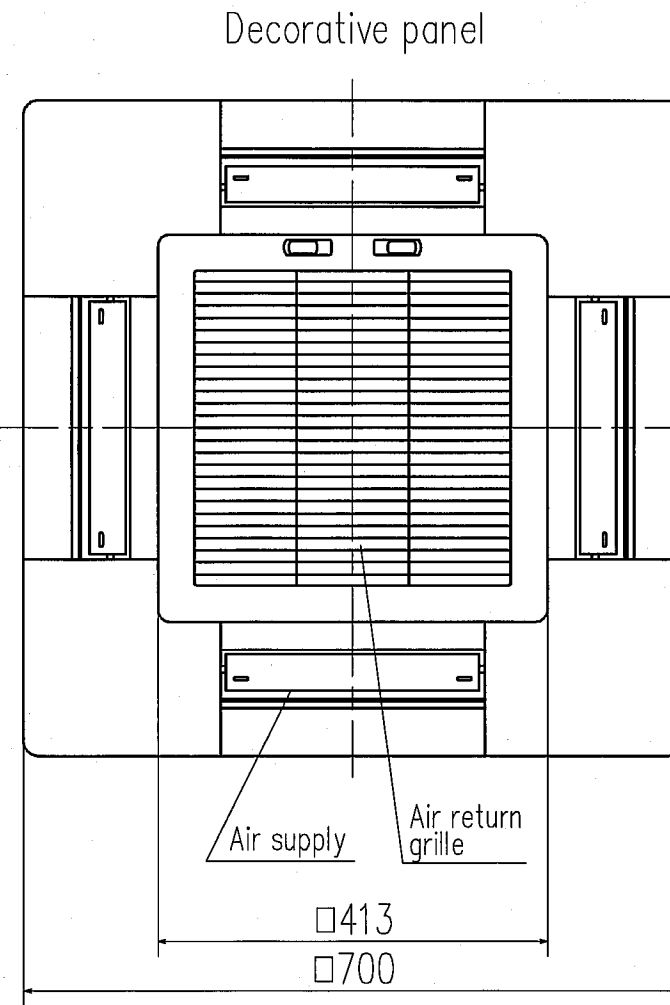
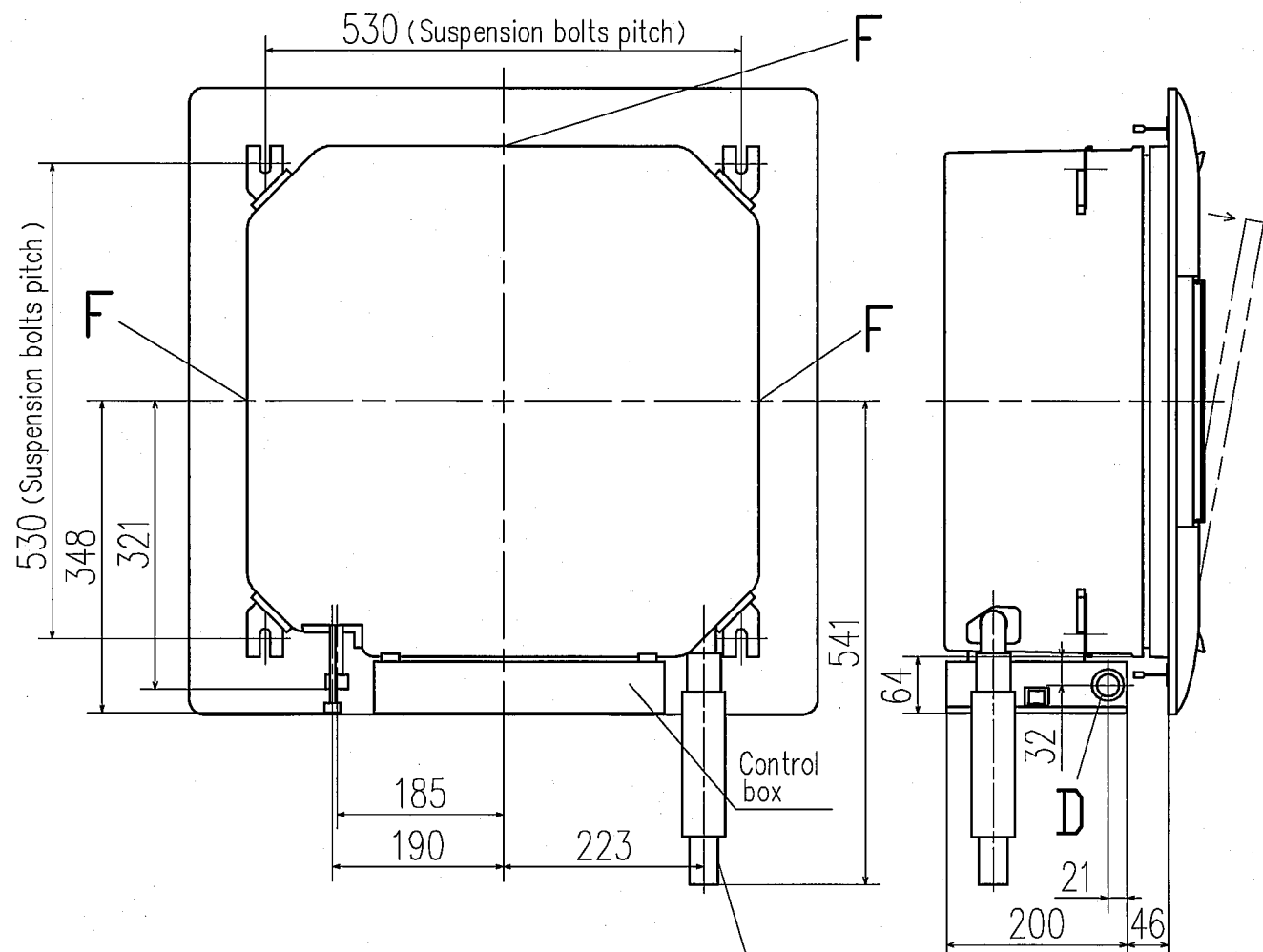


Notes (1) The model name label is attached inside the air return grille.  
(2) Prepare the connecting socket (VP20) on site.

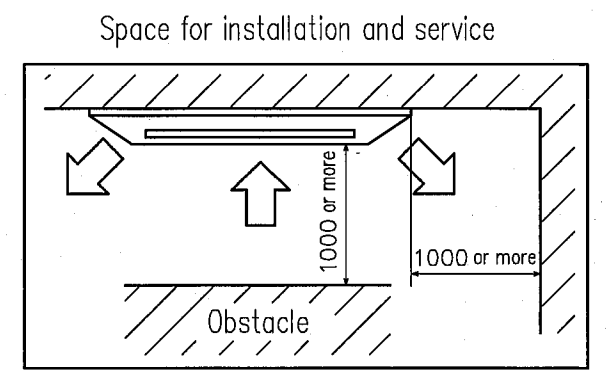
Unit:mm



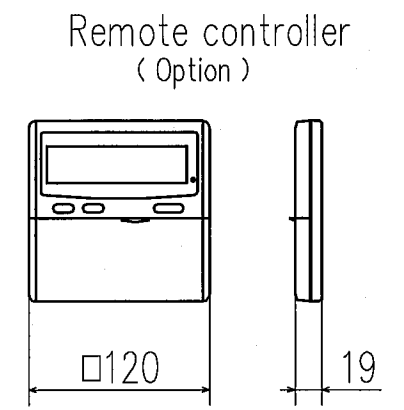
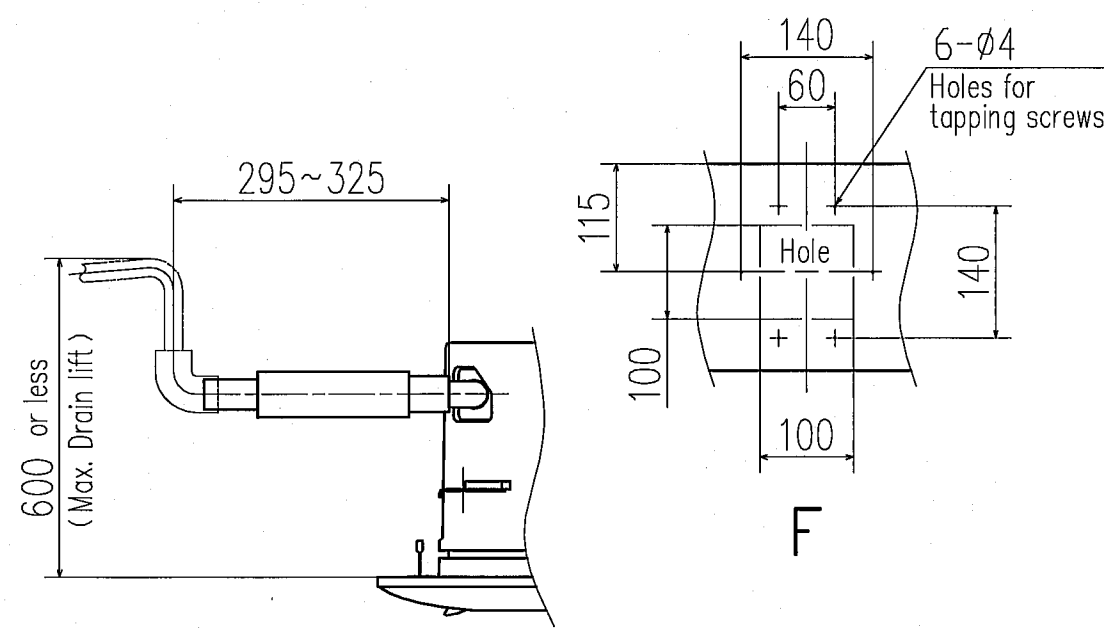
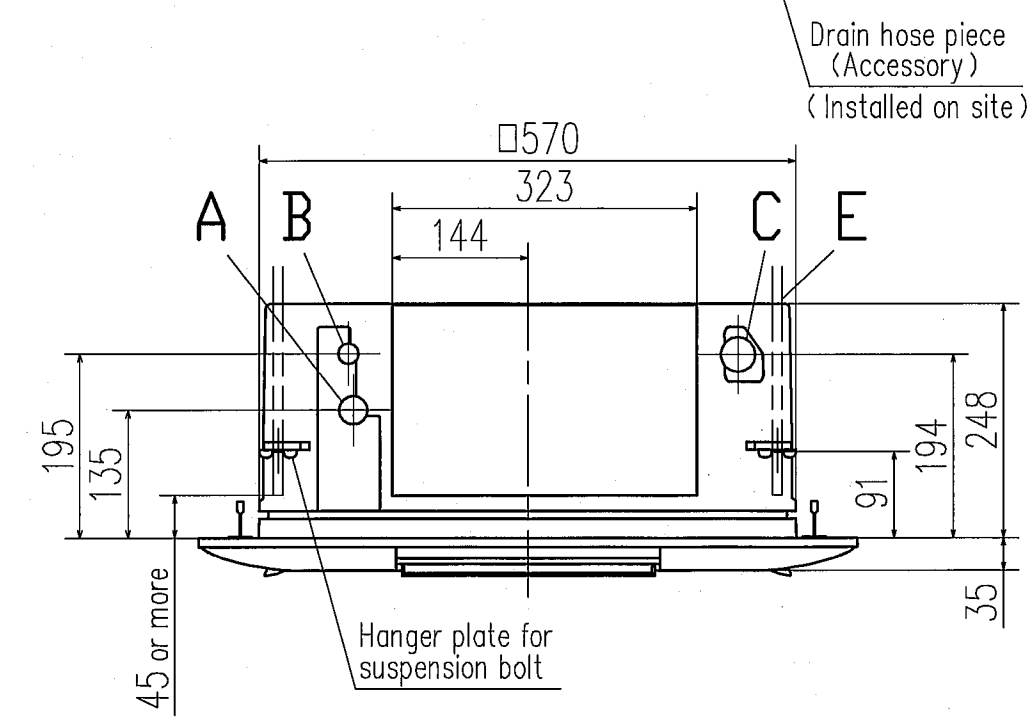
MODEL NAME FDT90KXE6, 112KXE6, 140KXE6, 160KXE6			
MODEL TYPE FDT	PANEL T-PSA-36W-E		
ISSUE KASAHARA	CLASSIFICATION OUTLINE	REV. MARK	PAGE 1/1
DWG. NO. 071015	PJF000Z052		



Symbol	Content	Model	FDT22KXE6, 28KXE6	FDT36KXE6, 45KXE6, 56KXE6
A	Gas piping		φ9.52 (3/8") (Flare)	φ12.7 (1/2") (Flare)
B	Liquid piping		φ6.35 (1/4") (Flare)	
C	Drain piping		VP20 Note (2)	
D	Hole for wiring		φ25	
E	Suspension bolts		(M10 or M8)	
F	Air outlet opening for ducting		(Knock out)	



Make a space of 4000 or more between the units when installing more than one.

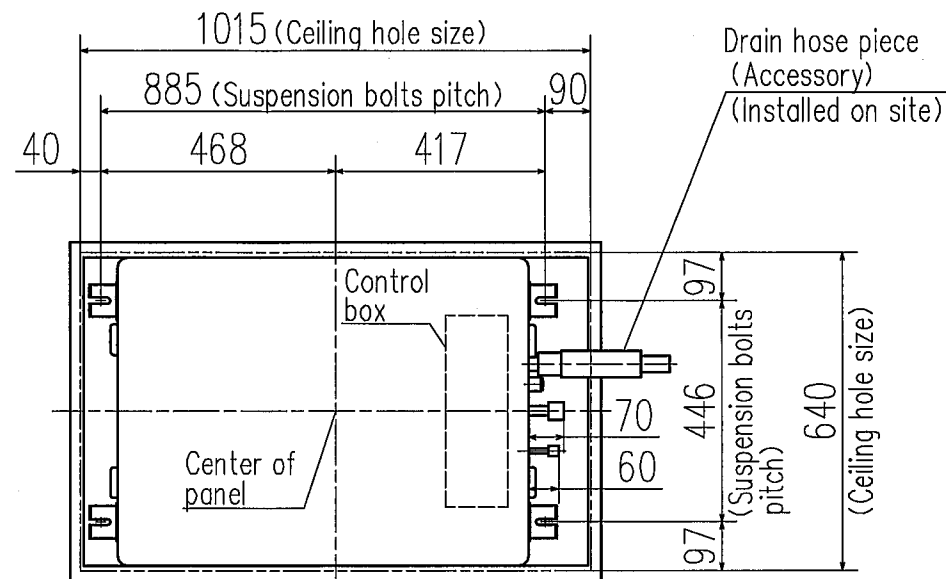
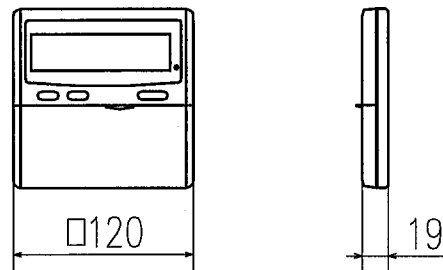


- Notes (1) The model name label is attached on the control box lid inside the air return grille.  
 (2) Prepare the connecting socket (VP20) on site.  
 (3) This unit is designed for 2x2 grid ceiling.  
 If it is installed on a ceiling other than 2x2 grid ceiling, provide an inspection port on the control box side.

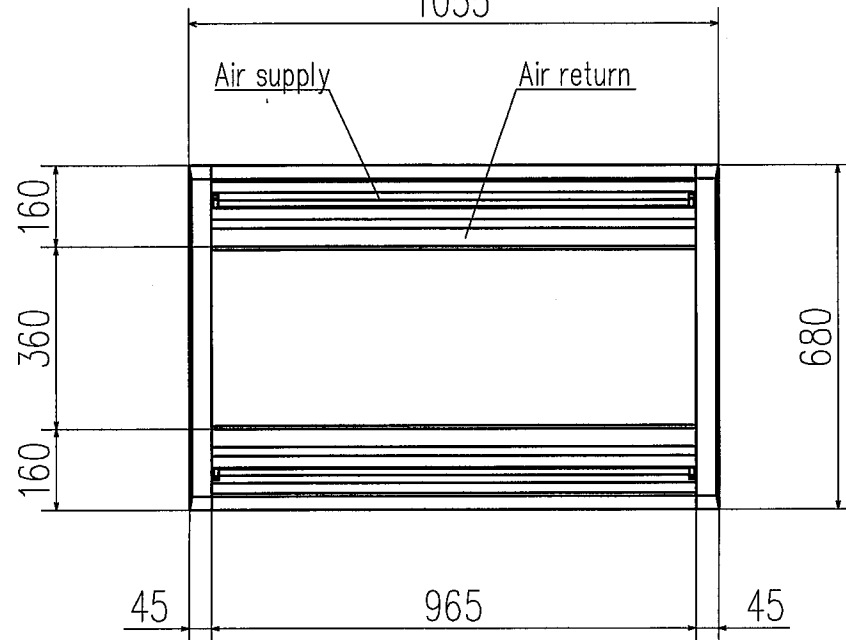
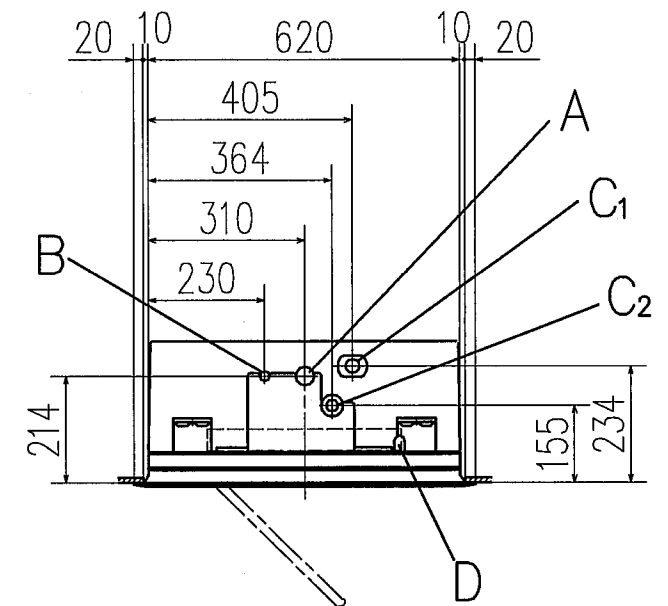
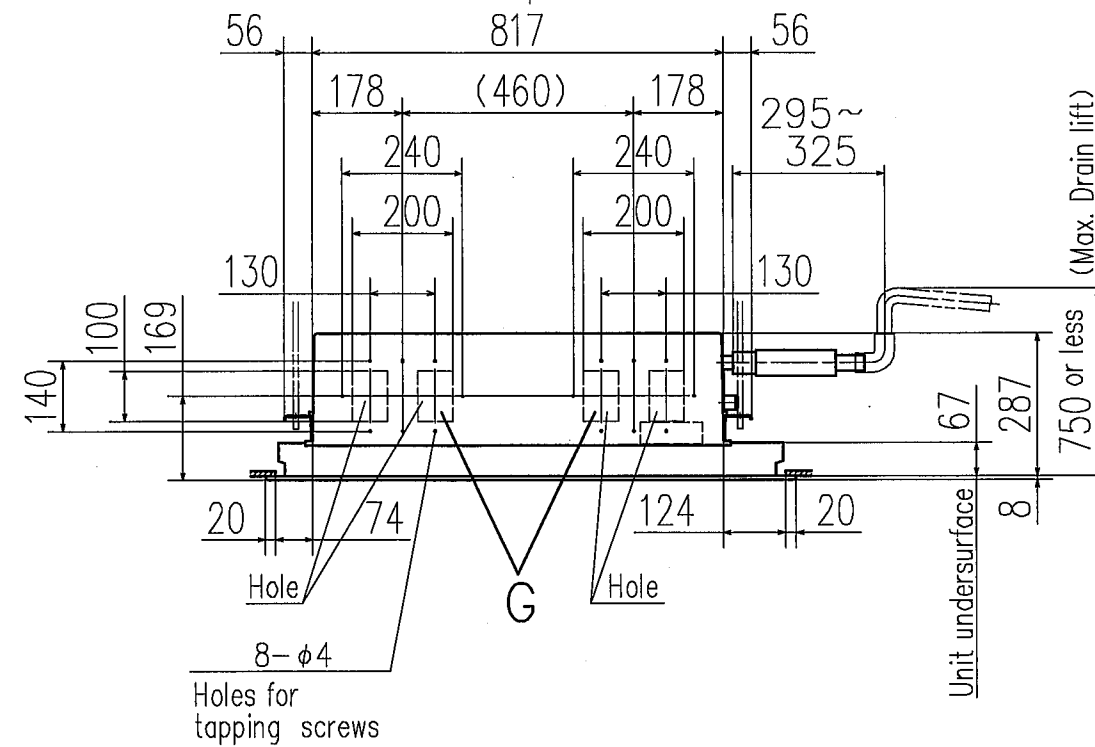
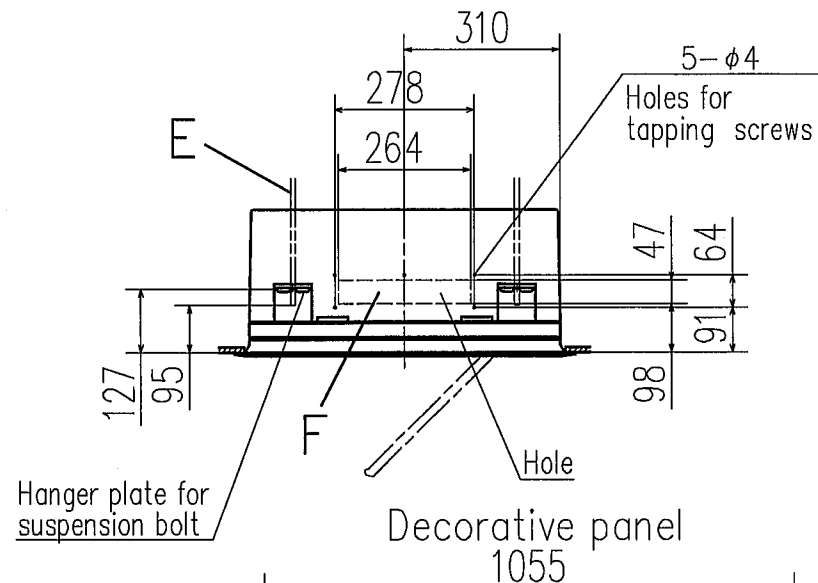
MODEL NAME		FDT22KXE6, 28KXE6, 36KXE6 FDT45KXE6, 56KXE6	
MODEL TYPE	PANEL	FDT22	TC-PSA-24W-ER
ISSUE	CLASSIFICATION	OUTLINE	
KASAHARA	DWG NO.	PJA003Z330	REV. MARK PAGE 1/1

Unit:mm

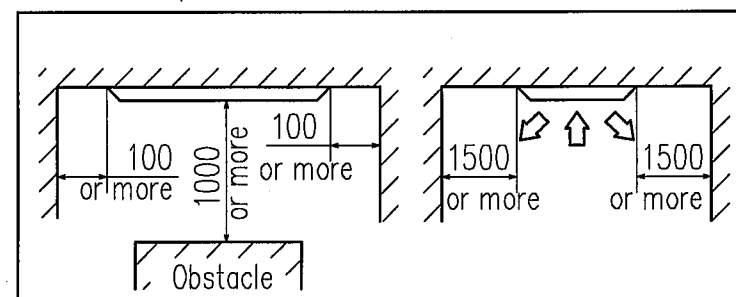
Remote controller  
(Option)



Symbol	Content	FDTW28KXE6	FDTW45KXE6, 56KXE6
A	Gas piping	φ9.52 (3/8") (Flare)	φ12.7 (1/2") (Flare)
B	Liquid piping	φ6.35 (1/4") (Flare)	
C1	Drain piping	VP20 Note (2)	
C2	Drain piping (Gravity drainage)	VP20	
D	Hole for wiring		
E	Suspension bolts	(M10)	
F	Outside air opening for ducting	(Knock out)	
G	Air outlet opening for ducting	(Knock out)	



Space for installation and service



Make a space of 4000 or more between the units when installing more than one.

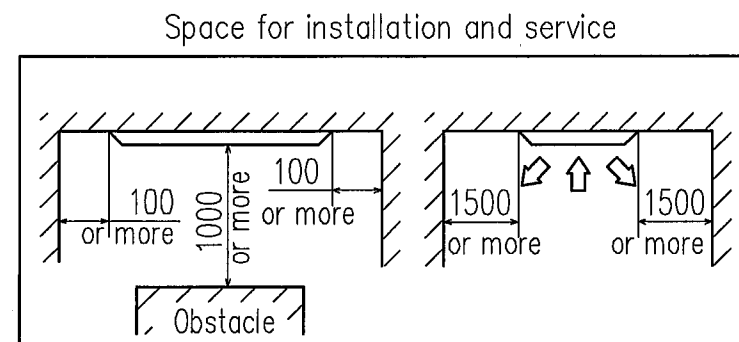
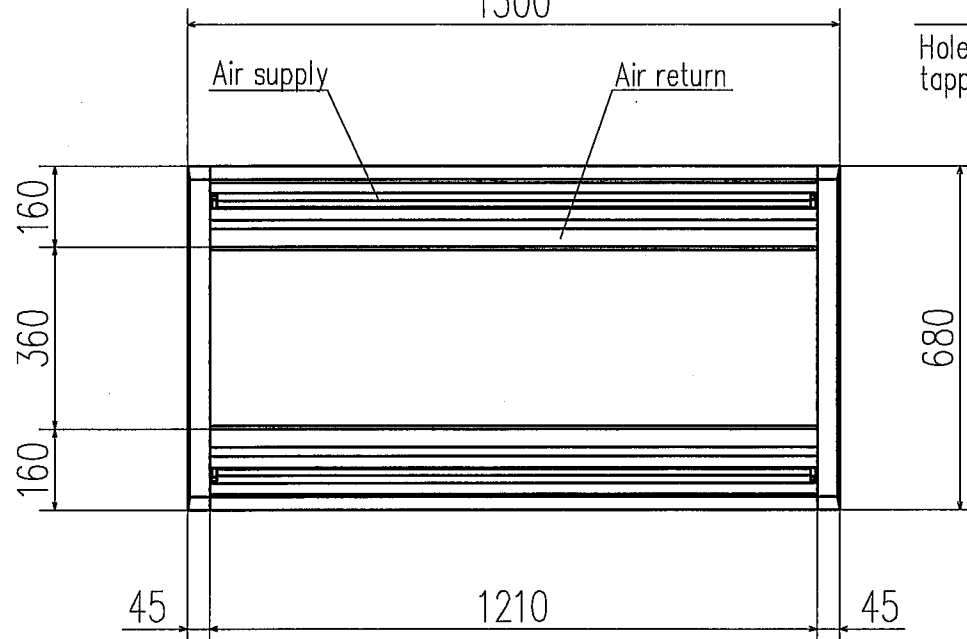
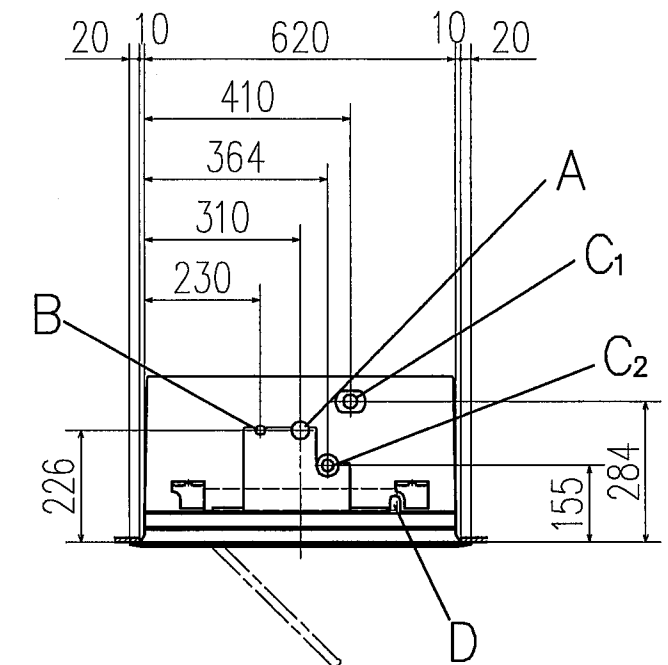
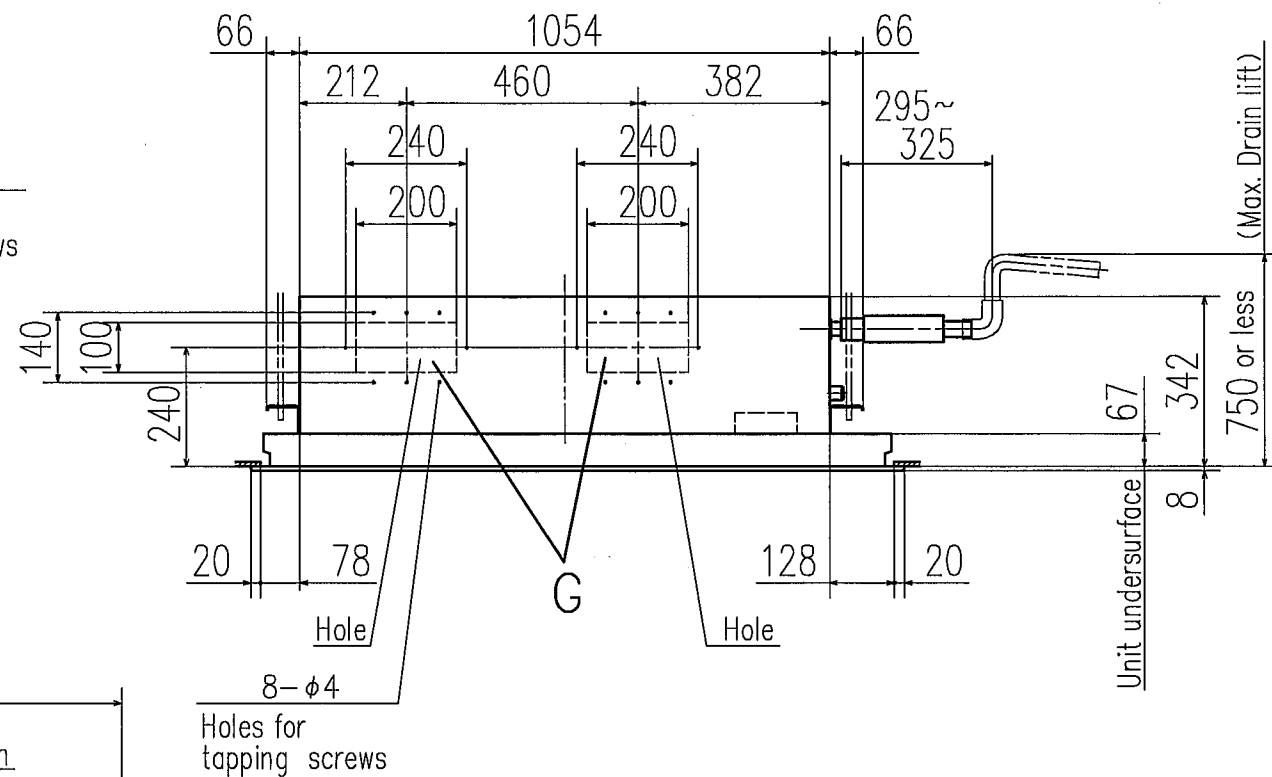
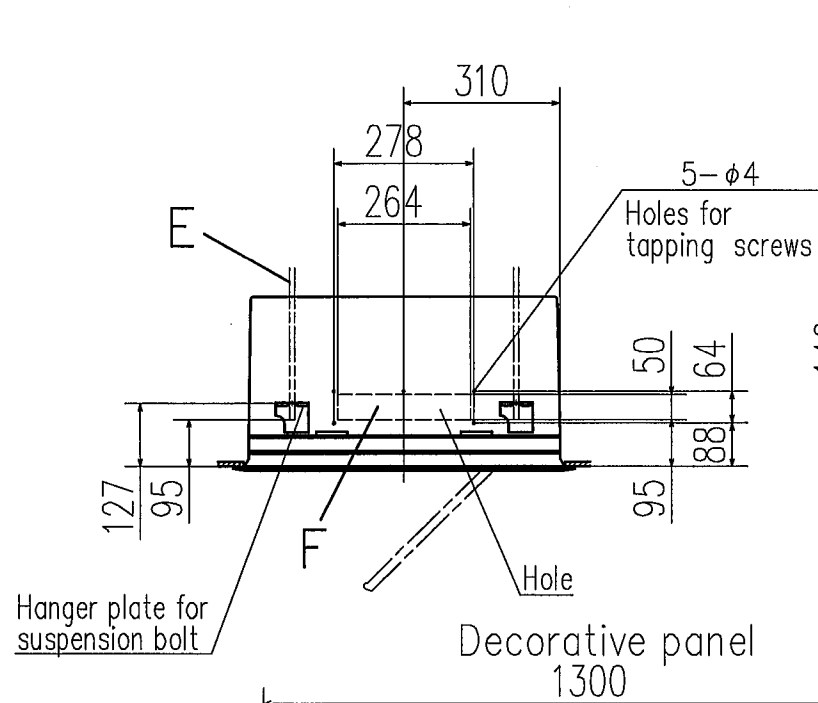
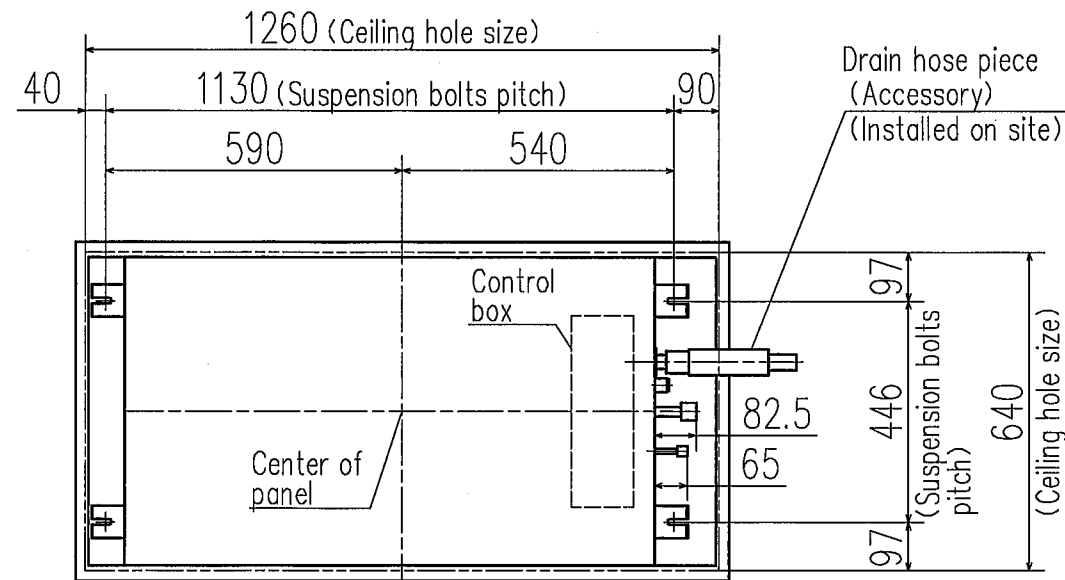
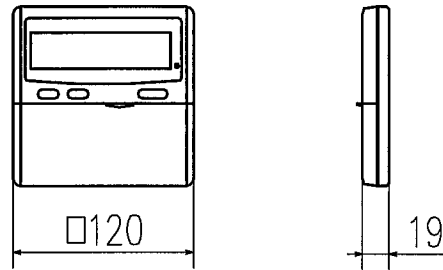
Notes (1) The model name label is attached on the lid of the control box.  
(2) Prepare the connecting socket (VP20) on site.

Unit: mm

MODEL NAME FDTW28KXE6, 45KXE6, 56KXE6			
MODEL TYPE FDTW	PANEL TW-PSA-24W-E		
ISSUE	CLASSIFICATION OUTLINE		
KASAHARA	DWG NO. PJB001Z557	REV. MARK	PAGE 1/1
071015			

Symbol	Content	
A	Gas piping	φ15.88 (5/8") (Flare)
B	Liquid piping	φ9.52 (3/8") (Flare)
C1	Drain piping	VP20 Note (2)
C2	Drain piping (Gravity drainage)	VP20
D	Hole for wiring	
E	Suspension bolts	(M10)
F	Outside air opening for ducting	(Knock out)
G	Air outlet opening for ducting	(Knock out)

Remote controller  
(Option)

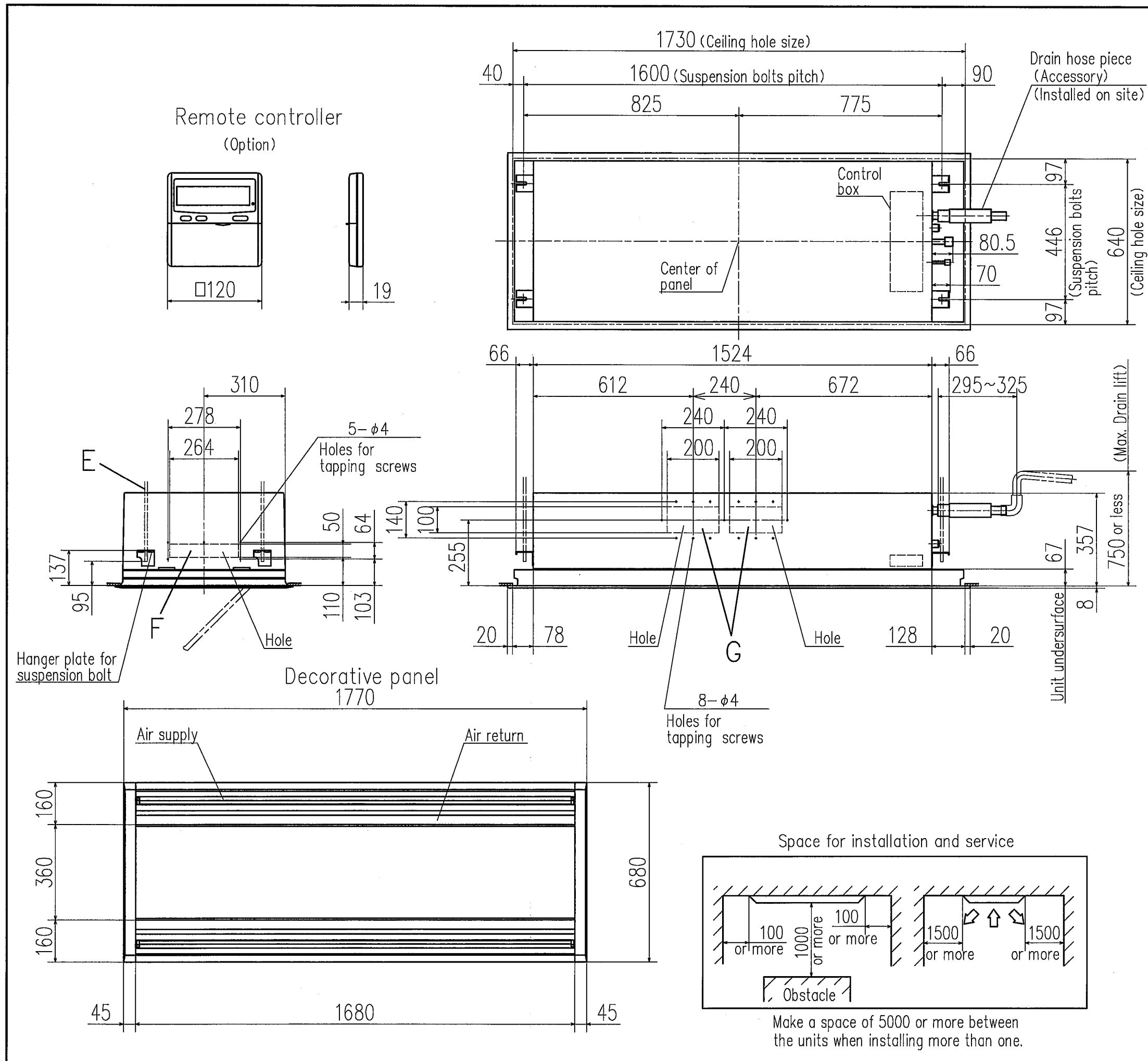


Make a space of 4500 or more between the units when installing more than one.

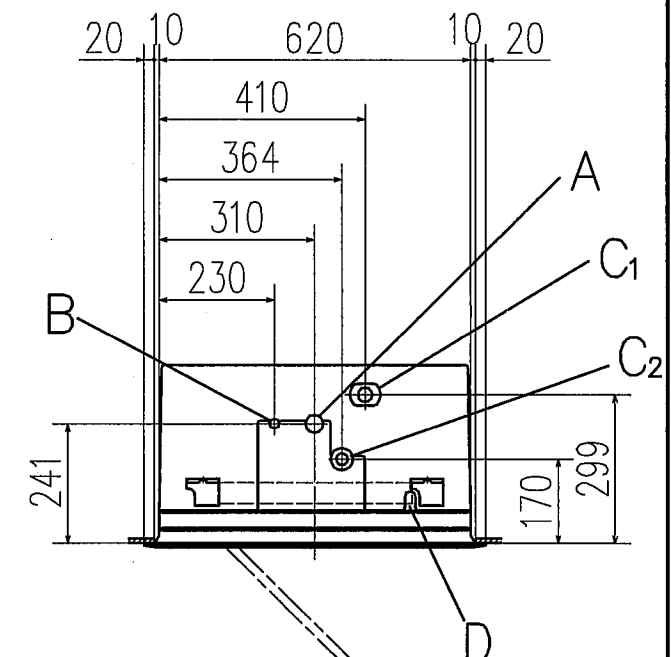
Notes (1) The model name label is attached on the lid of control box.  
(2) Prepare the connecting socket (VP20) on site.

Unit:mm

MODEL NAME		FDTW71KXE6, 90KXE6	
MODEL TYPE	FDTW	PANEL	TW-PSA-34W-E
ISSUE	CLASSIFICATION OUTLINE		
KASAHARA	DWG NO.	REV/MARK	PAGE
071015	PJB001Z558		1/1



Symbol	Content	
A	Gas piping	φ15.88 (5/8") (Flare)
B	Liquid piping	φ9.52 (3/8") (Flare)
C1	Drain piping	VP20 Note (2)
C2	Drain piping (Gravity drainage)	VP20
D	Hole for wiring	
E	Suspension bolts	(M10)
F	Outside air opening for ducting	(Knock out)
G	Air outlet opening for ducting	(Knock out)

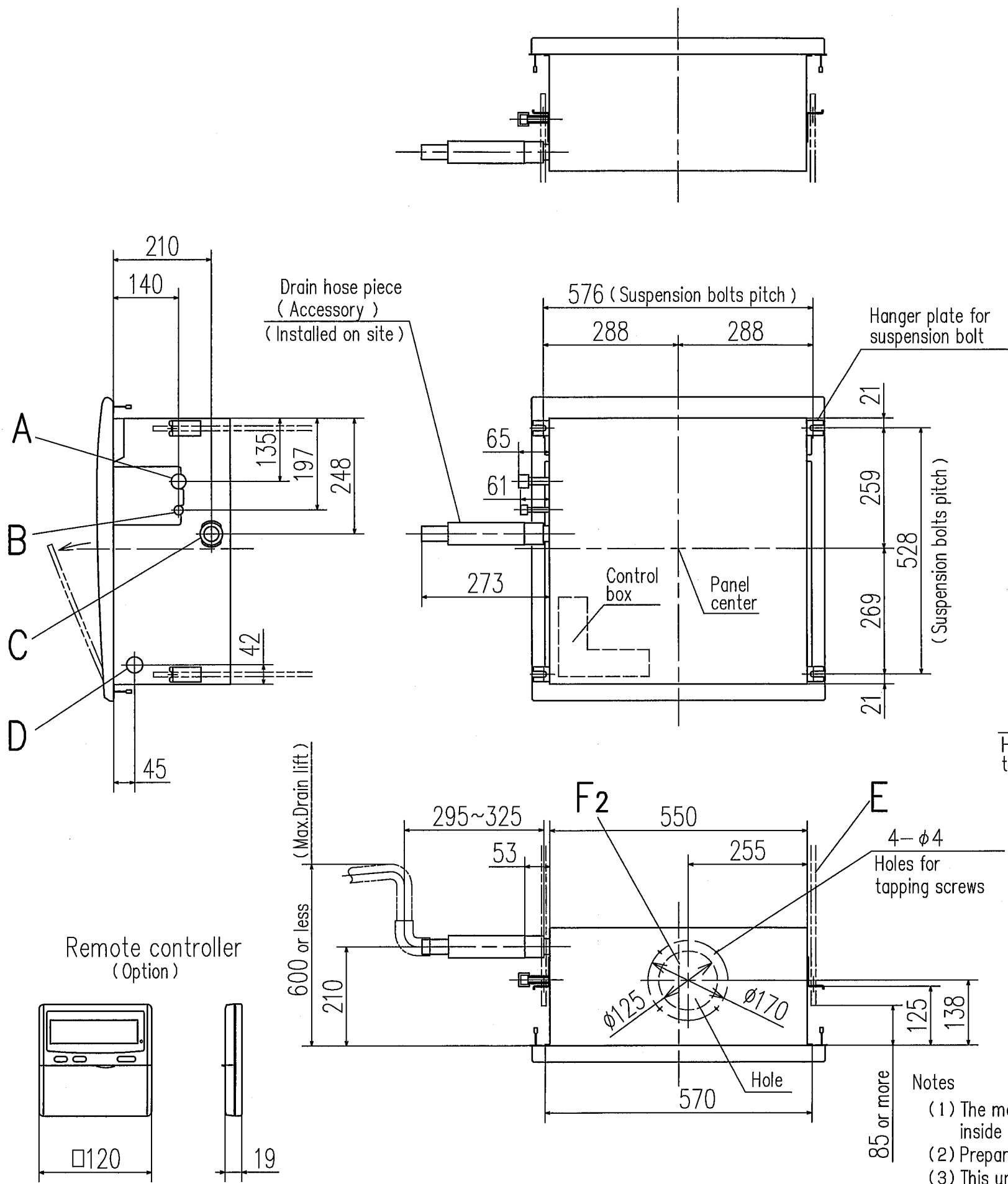


Notes (1) The model name label is attached on the lid of control box.  
(2) Prepare the connecting socket (VP20) on site.

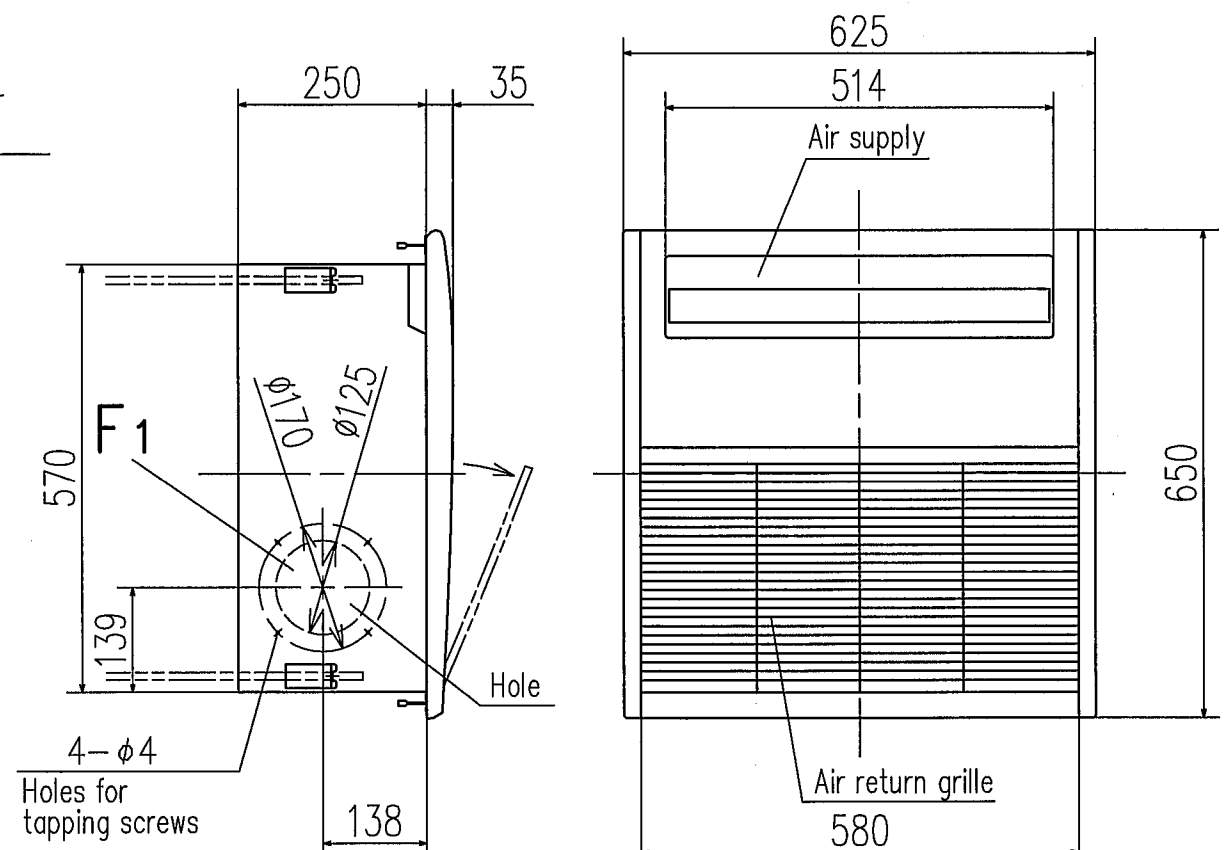
Unit: mm

MODEL NAME		FDTW112XE6, 140KXE6	
MODEL TYPE	FDTW	PANEL	TW-PSA-44W-E
ISSUE	CLASSIFICATION		
	OUTLINE		
KASAHARA	DWG. NO.	REV. MARK	PAGE
071015	PJB001Z559		1/1

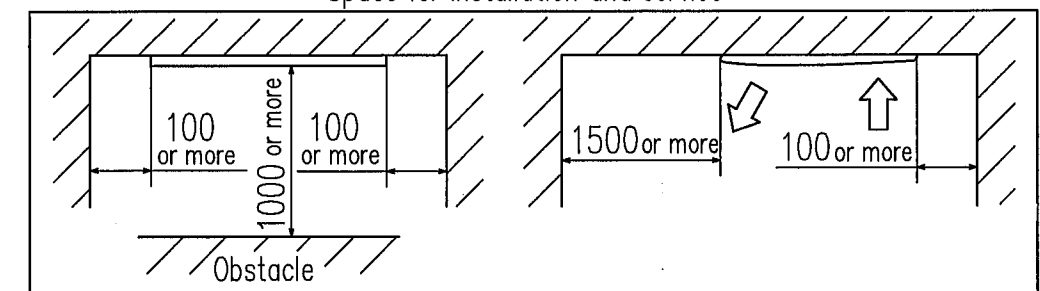
Symbol	Content		
	Model	FDTQ22KXE6, 28KXE6	FDTQ36KXE6
A	Gas piping	φ9.52 (3/8") (Flare)	φ12.7 (1/2") (Flare)
B	Liquid piping	φ6.35 (1/4") (Flare)	
C	Drain piping	VP20 Note (2)	
D	Hole for wiring	φ30	
E	Suspension bolts	(M10)	
F1,2	Outside air opening for ducting	(Knock out)	



Decorative panel



Space for installation and service



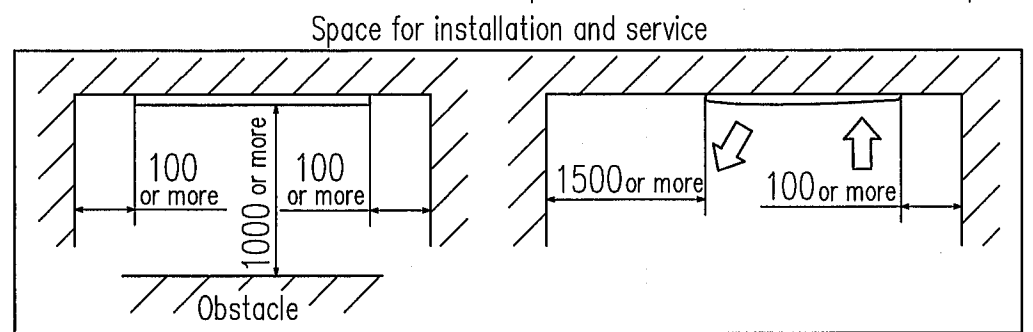
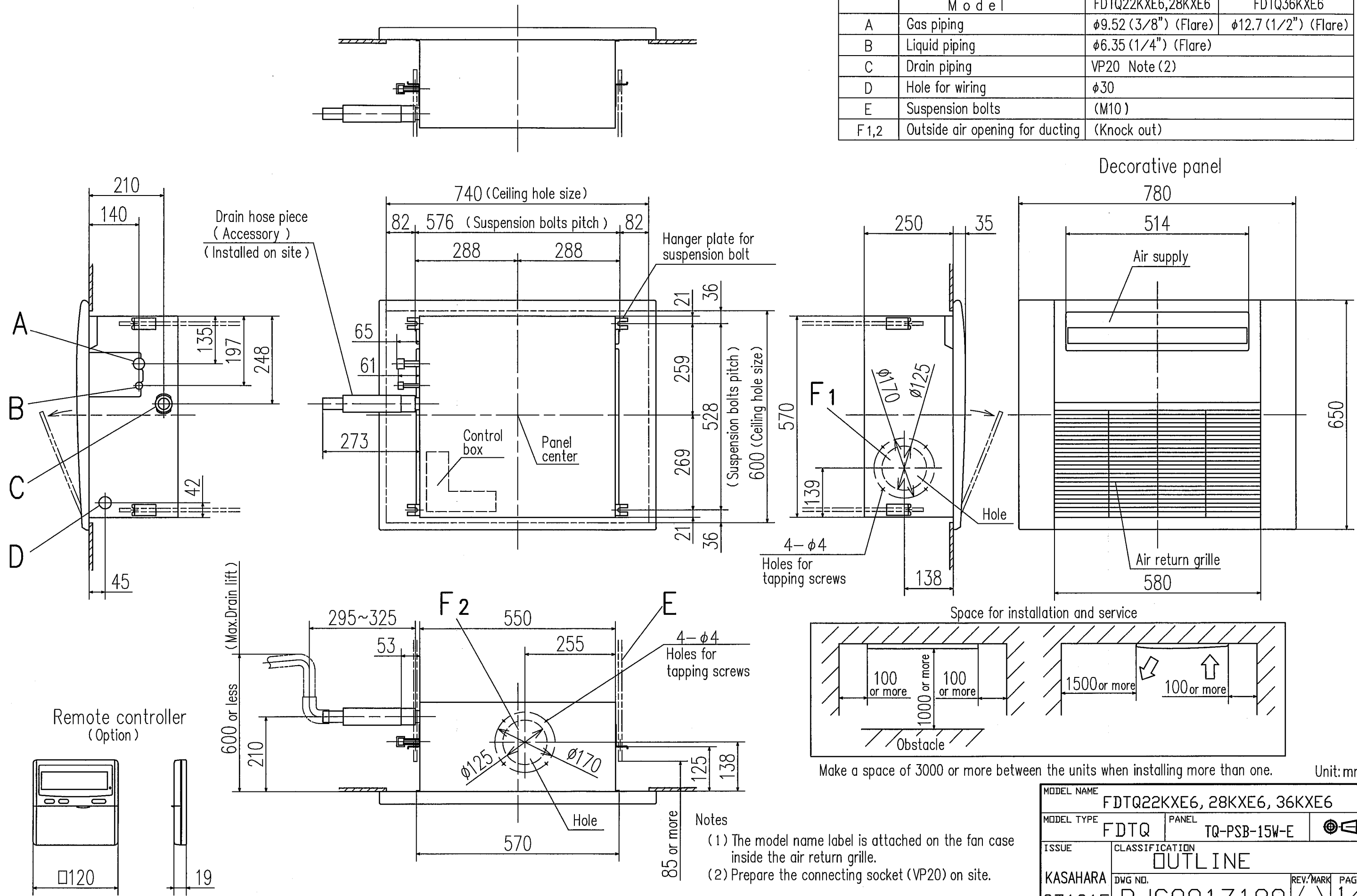
Make a space of 3000 or more between the units when installing more than one.

Unit: mm

- Notes
- (1) The model name label is attached on the fan case inside the air return grille.
  - (2) Prepare the connecting socket (VP20) on site.
  - (3) This unit is designed for 2X2 grid ceiling.

MODEL NAME		FDTQ22KXE6, 28KXE6, 36KXE6	
MODEL TYPE	FDTQ	PANEL	TQ-PSA-15W-E
ISSUE	CLASSIFICATION		
	OUTLINE		
KASAHARA	DWG. NO.	REV./MARK	PAGE
071015	PJC001Z188		1/1

Symbol	Content		
	Model	FDTQ22KXE6, 28KXE6	FDTQ36KXE6
A	Gas piping	φ9.52 (3/8") (Flare)	φ12.7 (1/2") (Flare)
B	Liquid piping	φ6.35 (1/4") (Flare)	
C	Drain piping	VP20 Note (2)	
D	Hole for wiring	φ30	
E	Suspension bolts	(M10)	
F 1,2	Outside air opening for ducting	(Knock out)	



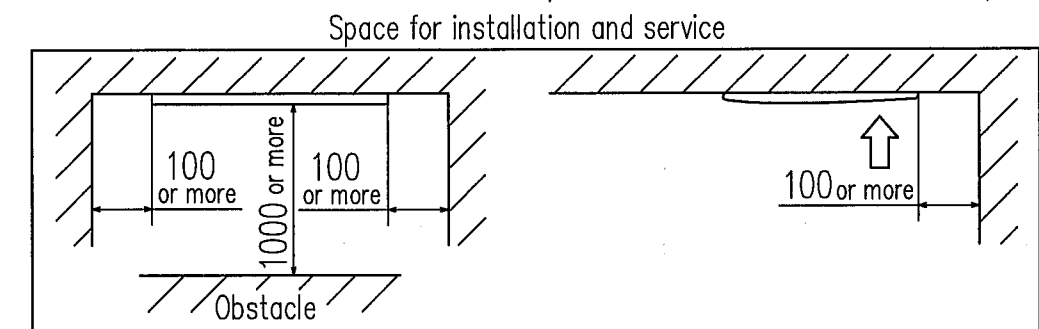
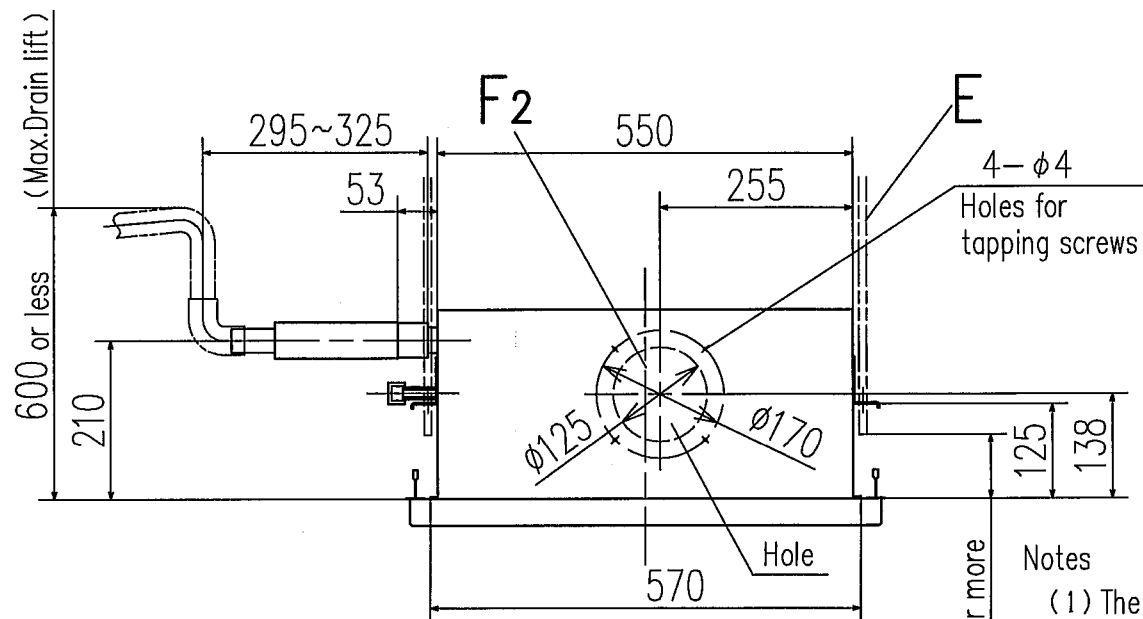
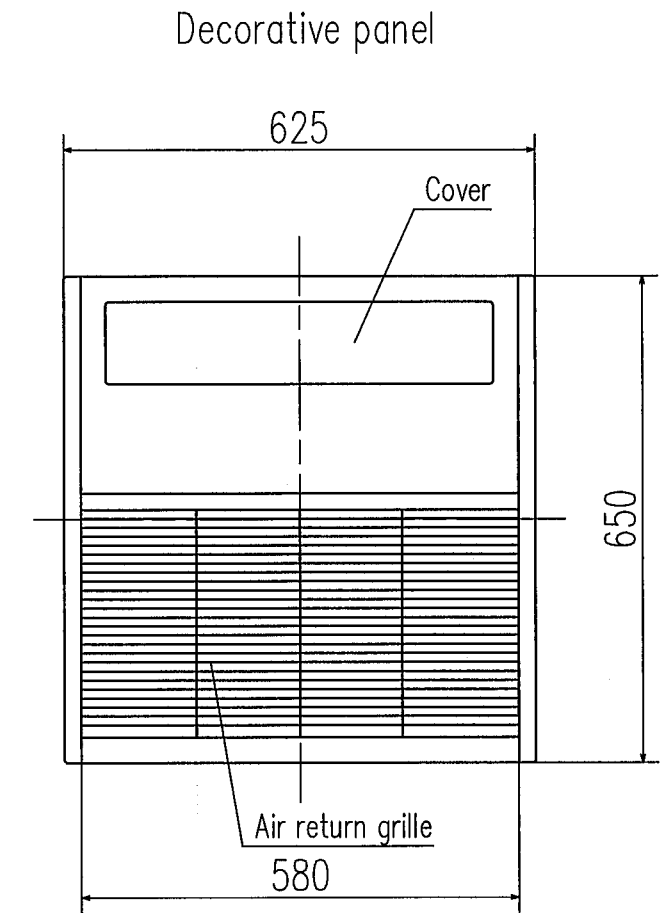
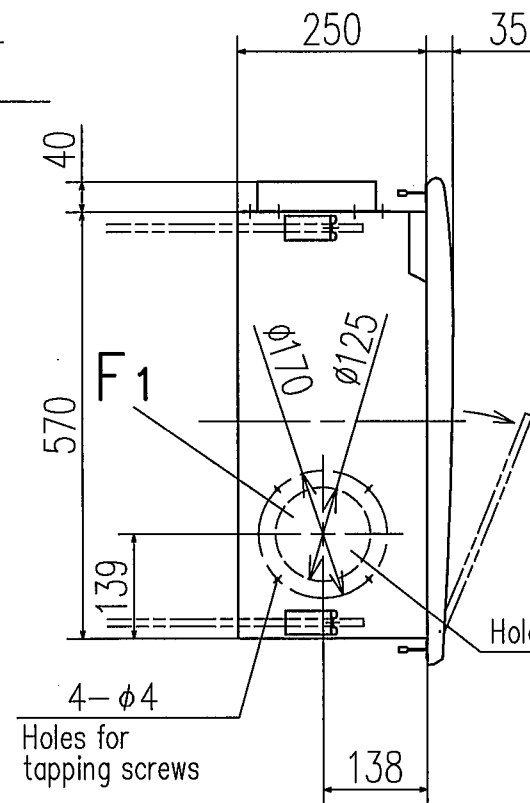
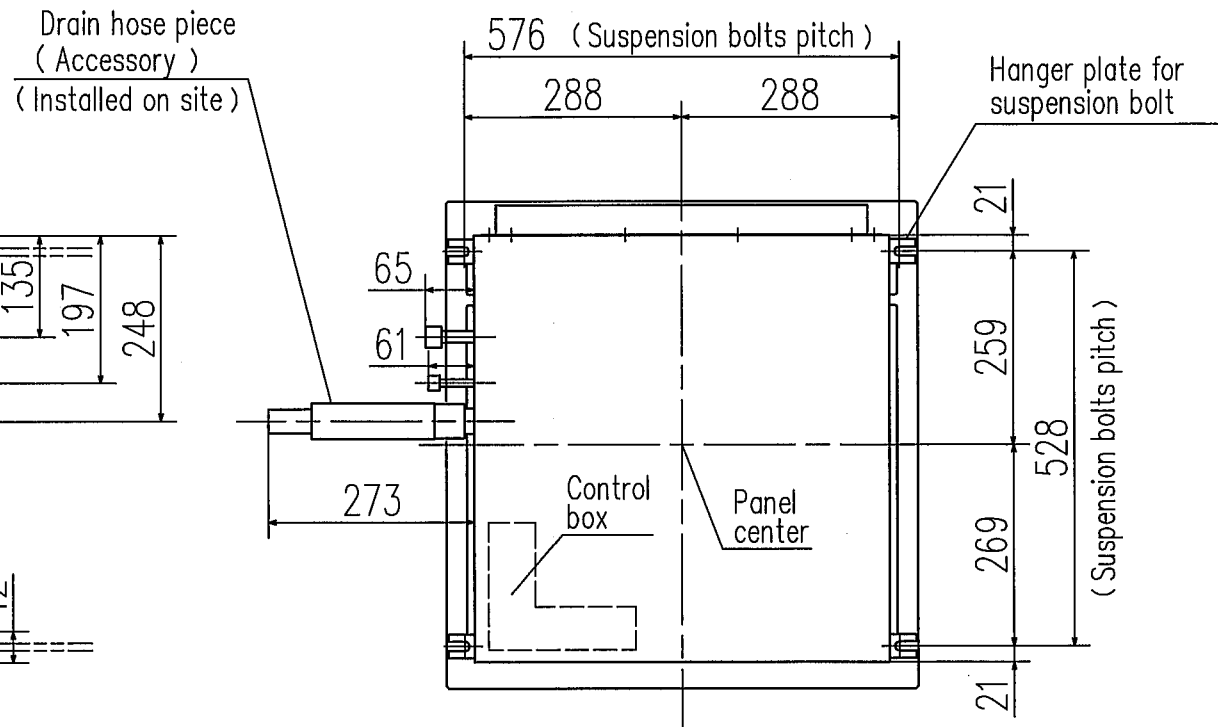
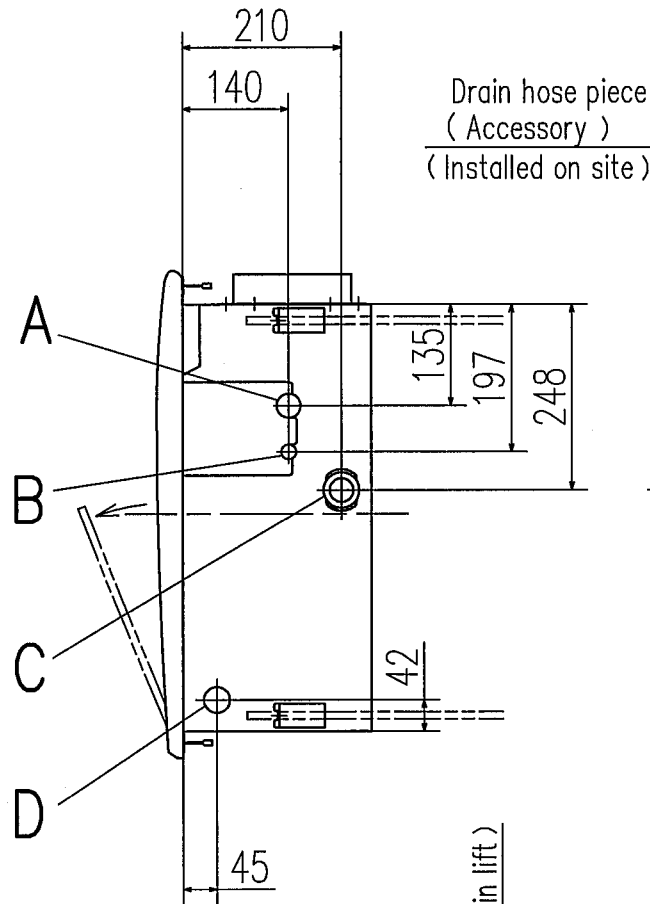
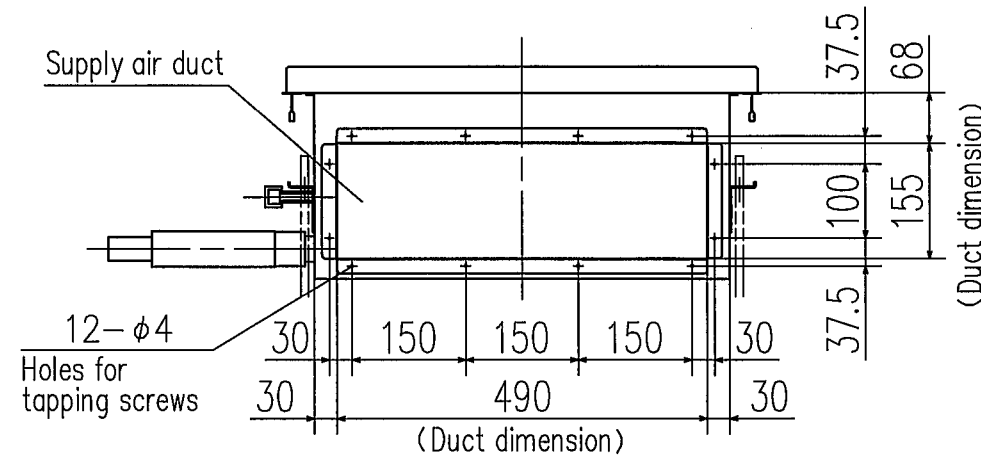
Make a space of 3000 or more between the units when installing more than one. Unit: mm

MODEL NAME FDTQ22KXE6, 28KXE6, 36KXE6			
MODEL TYPE FDTQ	PANEL TQ-PSB-15W-E		
ISSUE KASAHARA	CLASSIFICATION OUTLINE		
DWG NO. 071015	PJC001Z189	REV. MARK	PAGE 1/1

- Notes
- (1) The model name label is attached on the fan case inside the air return grille.
  - (2) Prepare the connecting socket (VP20) on site.



Symbol	Content		
	Model	FDTQ22KXE6, 28KXE6	FDTQ36KXE6
A	Gas piping	φ9.52 (3/8") (Flare)	φ12.7 (1/2") (Flare)
B	Liquid piping	φ6.35 (1/4") (Flare)	
C	Drain piping	VP20 Note (2)	
D	Hole for wiring	φ30	
E	Suspension bolts	(M10)	
F 1,2	Outside air opening for ducting	(Knock out)	



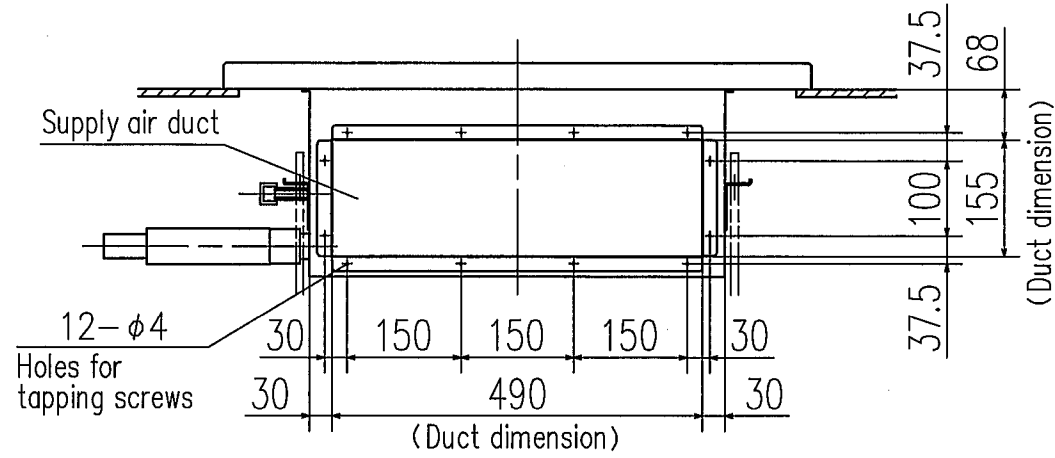
Make a space of 3000 or more between the units when installing more than one.

Unit:mm

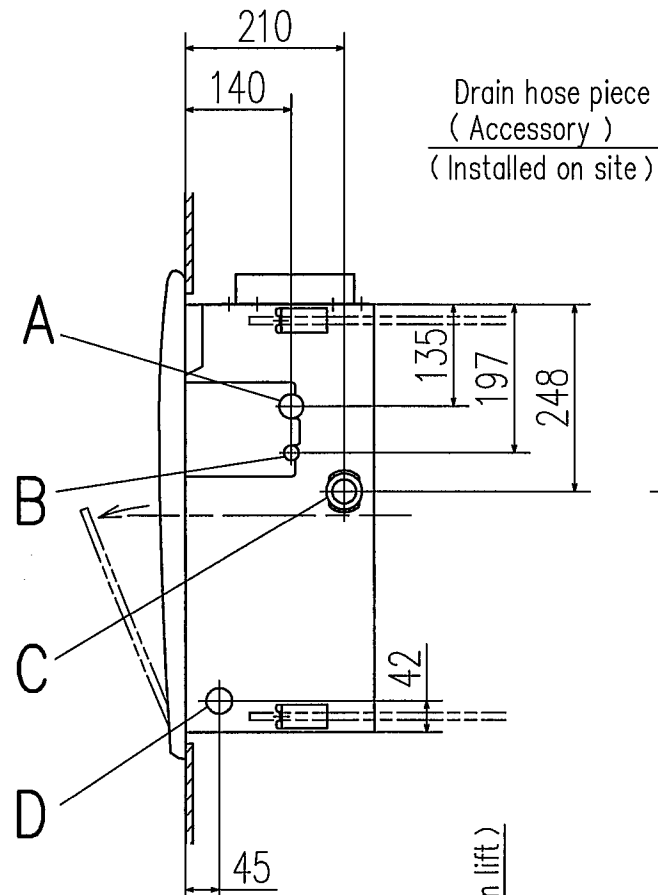
Notes

- (1) The model name label is attached on the fan case inside the air return grille.
- (2) Prepare the connecting socket (VP20) on site.
- (3) This unit is designed for 2X2 grid ceiling.

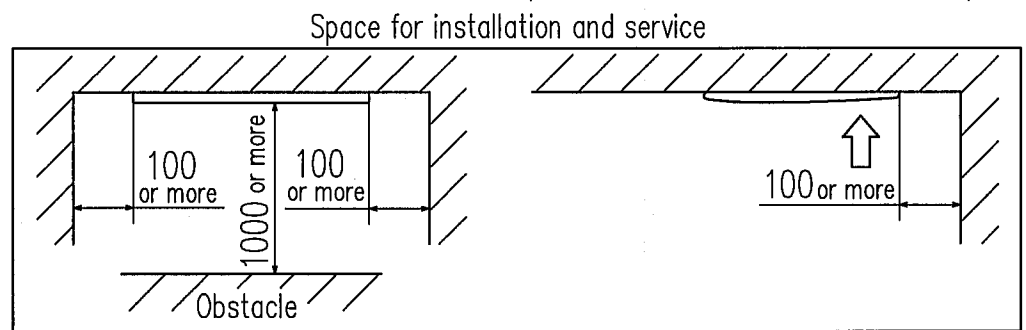
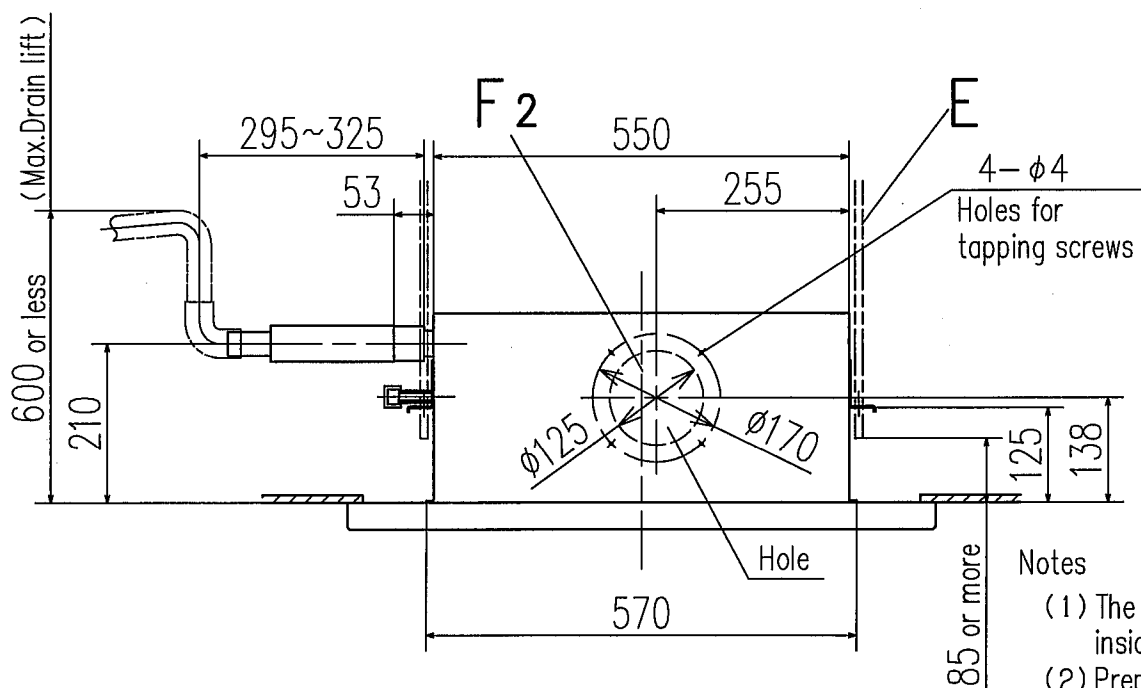
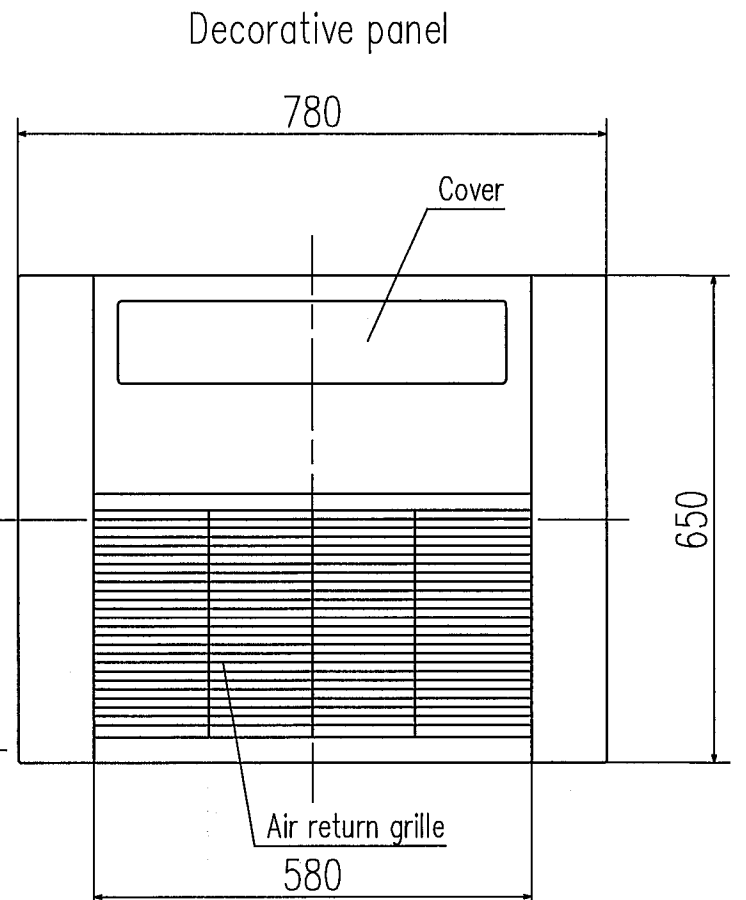
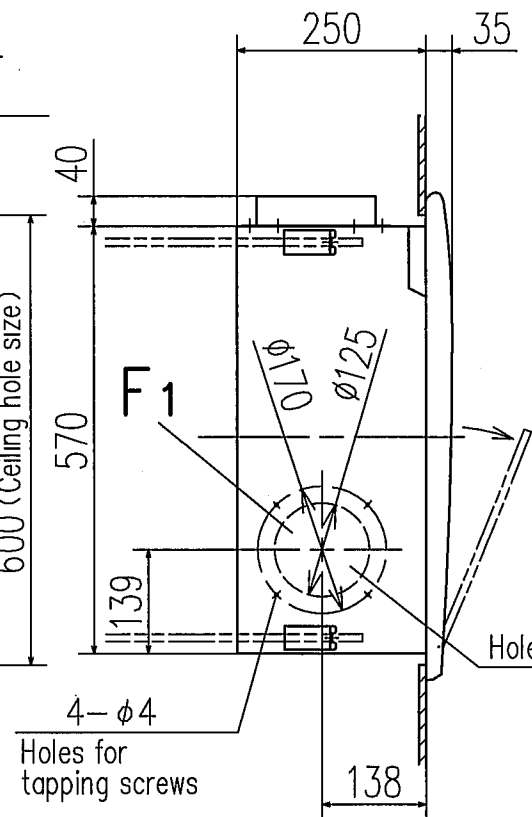
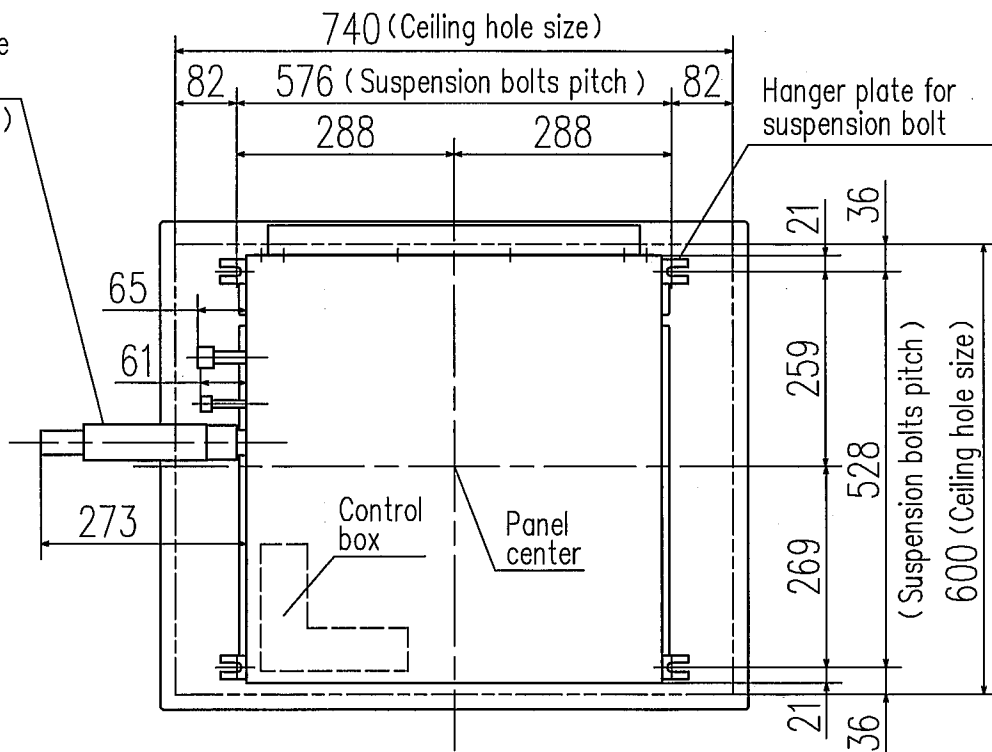
MODEL NAME		FDTQ22KXE6, 28KXE6, 36KXE6	
MODEL TYPE	FDTQ	PANEL	QR-PNA-14W-ER
ISSUE	CLASSIFICATION OUTLINE		
KASAHARA	DWG NO.	REV. MARK	PAGE
071015	PJC001Z236		1/1



Symbol	Content		
	Model	FDTQ22KXE6, 28KXE6	FDTQ36KXE6
A	Gas piping	φ9.52 (3/8") (Flare)	φ12.7 (1/2") (Flare)
B	Liquid piping	φ6.35 (1/4") (Flare)	
C	Drain piping	VP20 Note (2)	
D	Hole for wiring	φ30	
E	Suspension bolts	(M10)	
F1,2	Outside air opening for ducting	(Knock out)	



Drain hose piece  
(Accessory)  
(Installed on site)



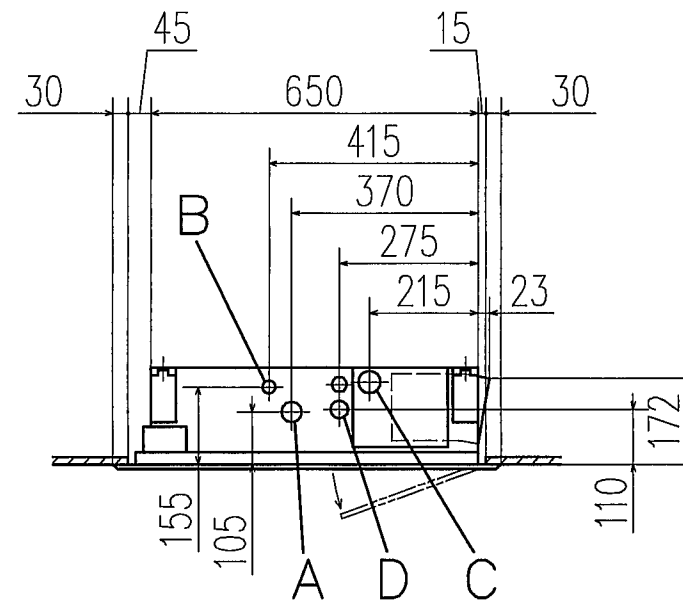
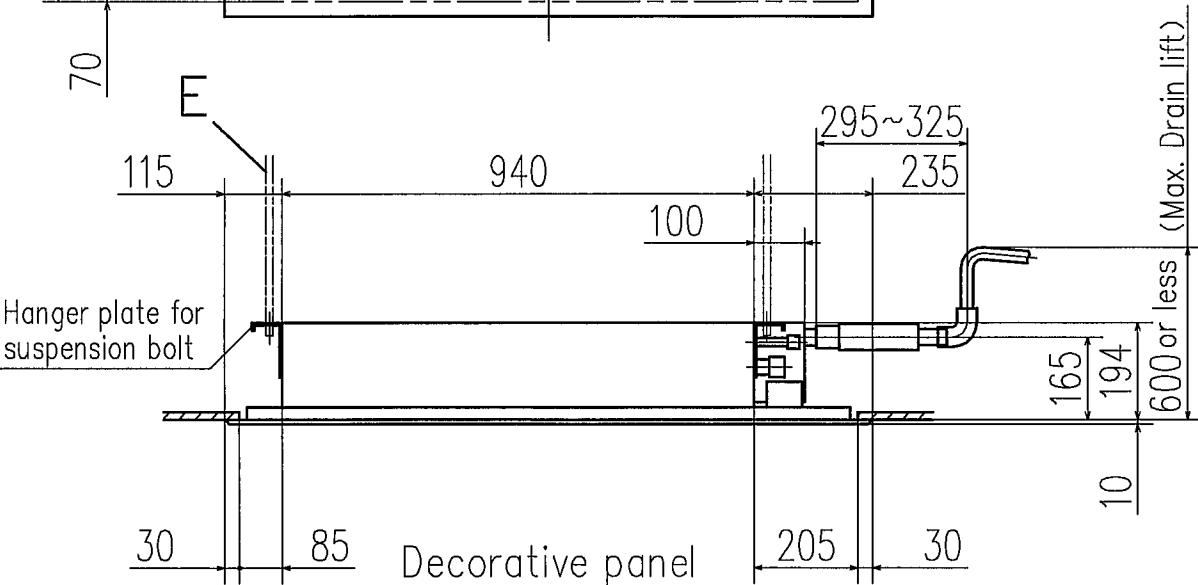
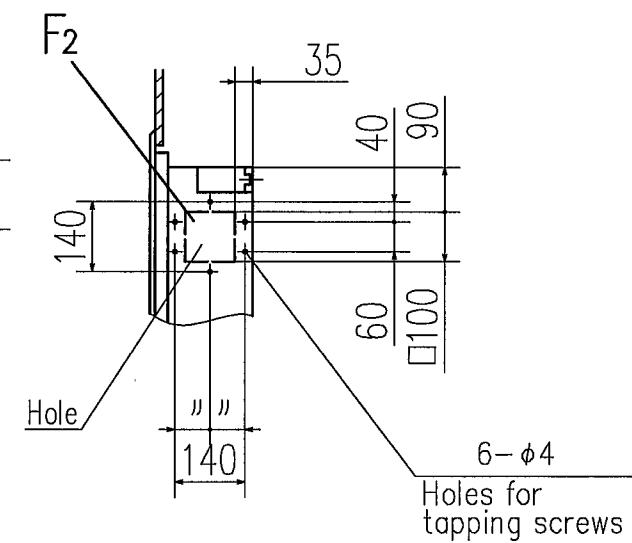
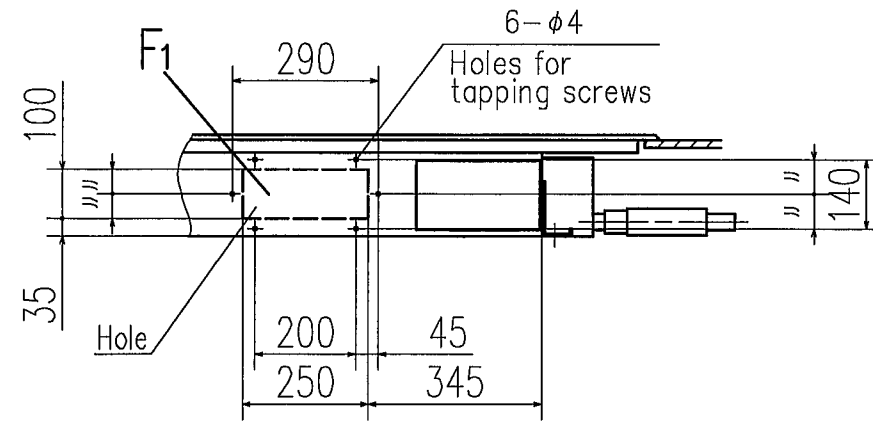
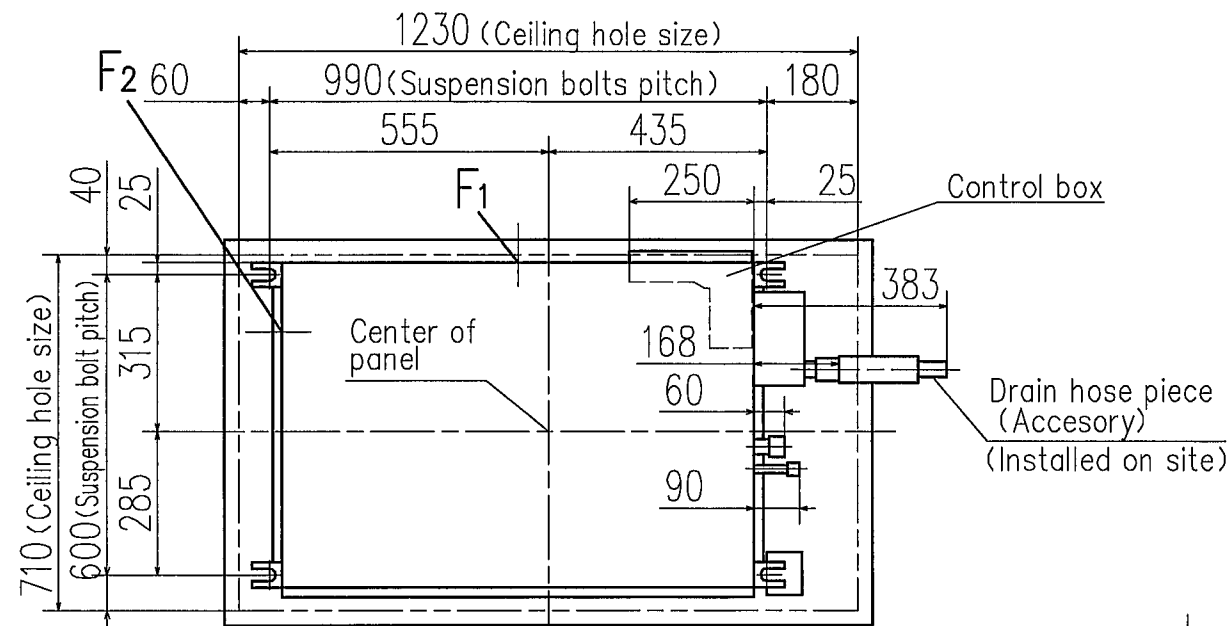
Make a space of 3000 or more between the units when installing more than one.

Unit: mm

Notes

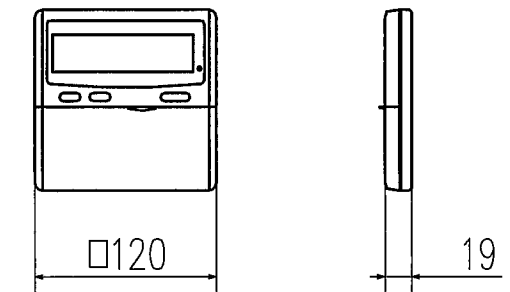
- (1) The model name label is attached on the fan case inside the air return grille.
- (2) Prepare the connecting socket (VP20) on site.

MODEL NAME			
FDTQ22KXE6, 28KXE6, 36KXE6			
MODEL TYPE	PANEL		
FDTQ	QR-PNB-14W-ER		
ISSUE	CLASSIFICATION		
	OUTLINE		
KASAHARA	DWG NO.	REV. MARK	PAGE
071015	PJC001Z237		1/1



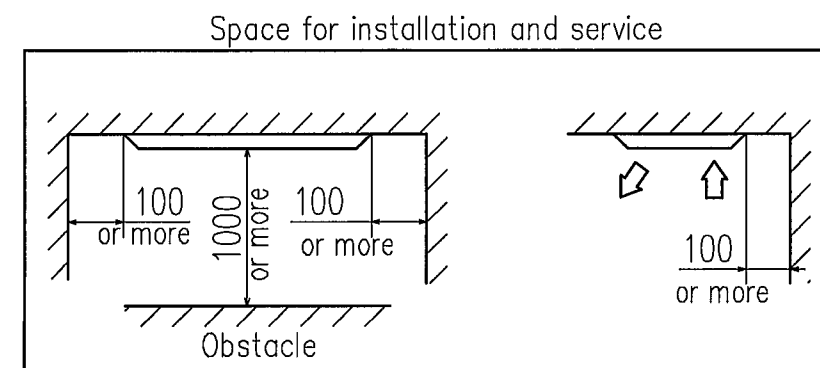
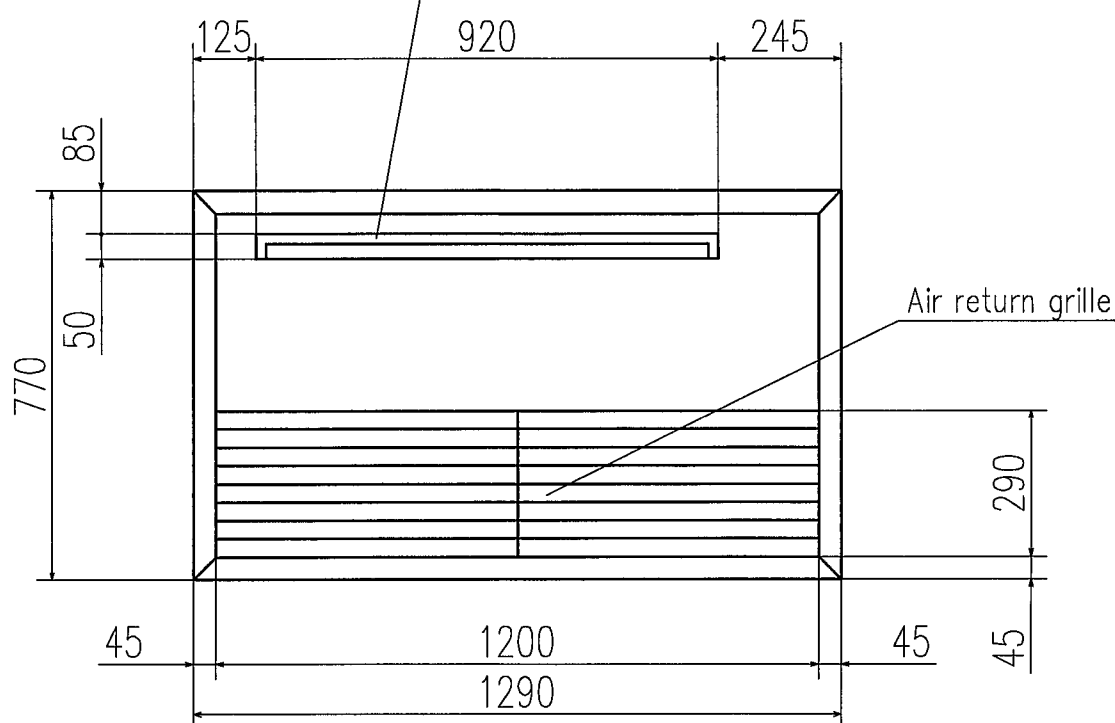
Symbol	Content	
A	Gas piping	φ12.7 (1/2") (Flare)
B	Liquid piping	φ6.35 (1/4") (Flare)
C	Drain piping	VP20 Note (2)
D	Hole for wiring	φ35
E	Suspension bolts	(M10)
F1,2	Outside air opening for ducting	(Knock out)

Remote controller (Option)



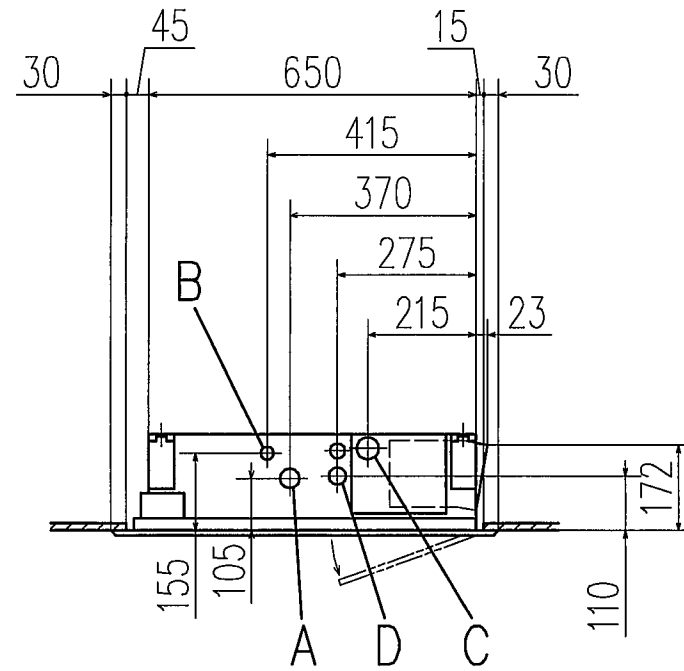
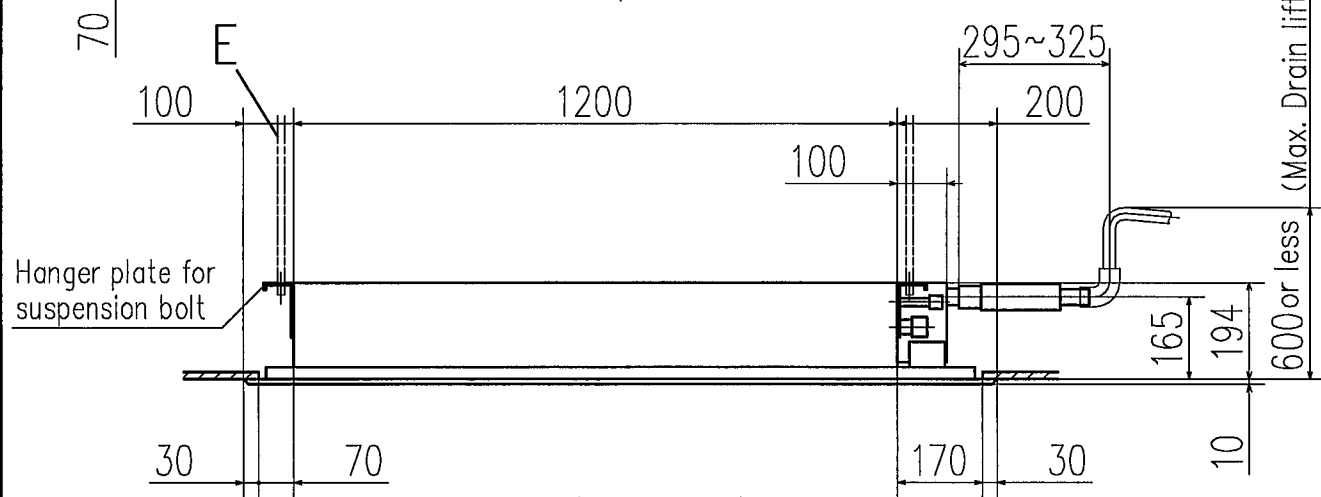
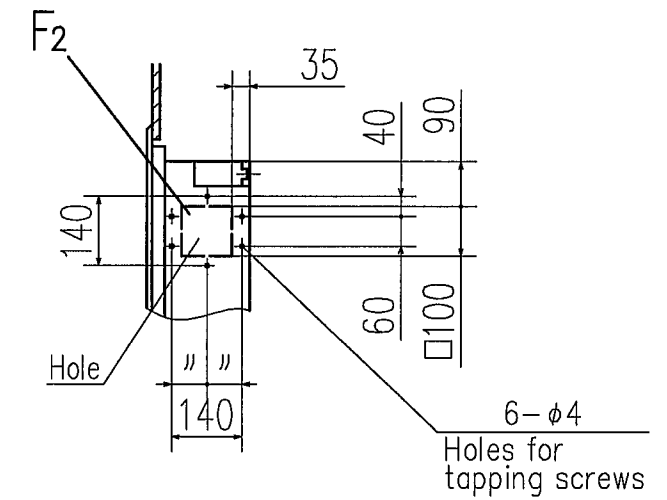
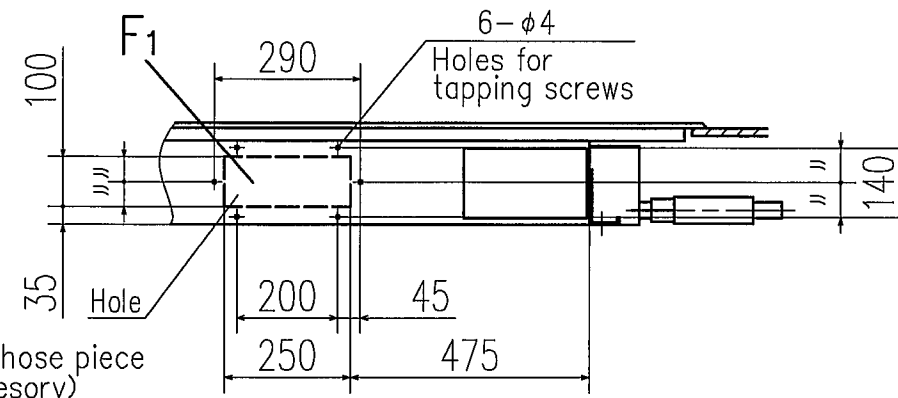
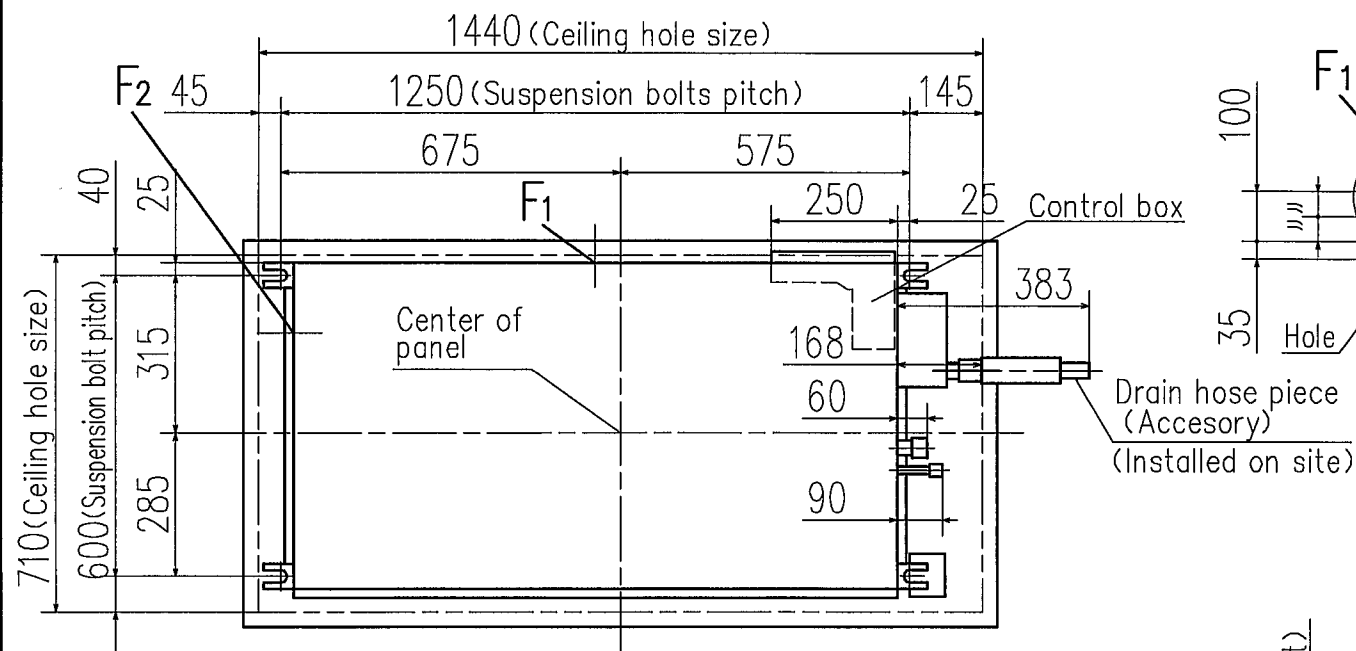
Notes (1) The model name label is attached on the fan case inside the air return grille.  
(2) Prepare the connecting socket (VP20) on site.

Unit: mm



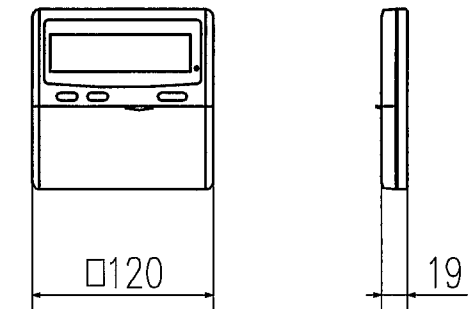
Make a space of 4000 or more between the units when installing more than one.

MODEL NAME		FDTS45KXE6	
MODEL TYPE	FDTS	PANEL	TS-PSA-29W-E
ISSUE	CLASSIFICATION		
	OUTLINE		
KASAHARA	DWG NO.	REV. MARK	PAGE
071015	PJC001Z193	/	1/1



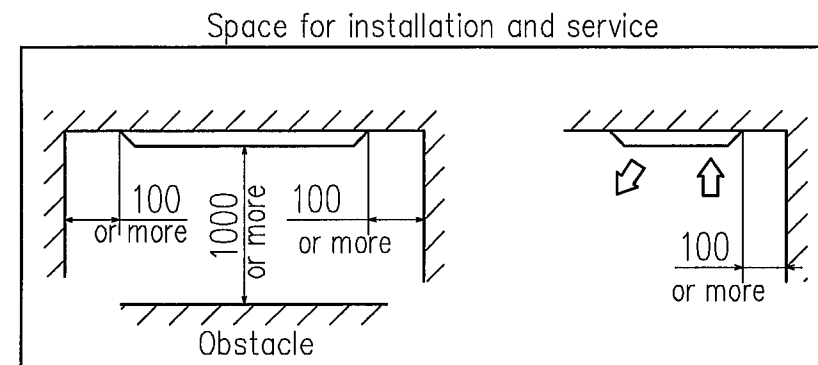
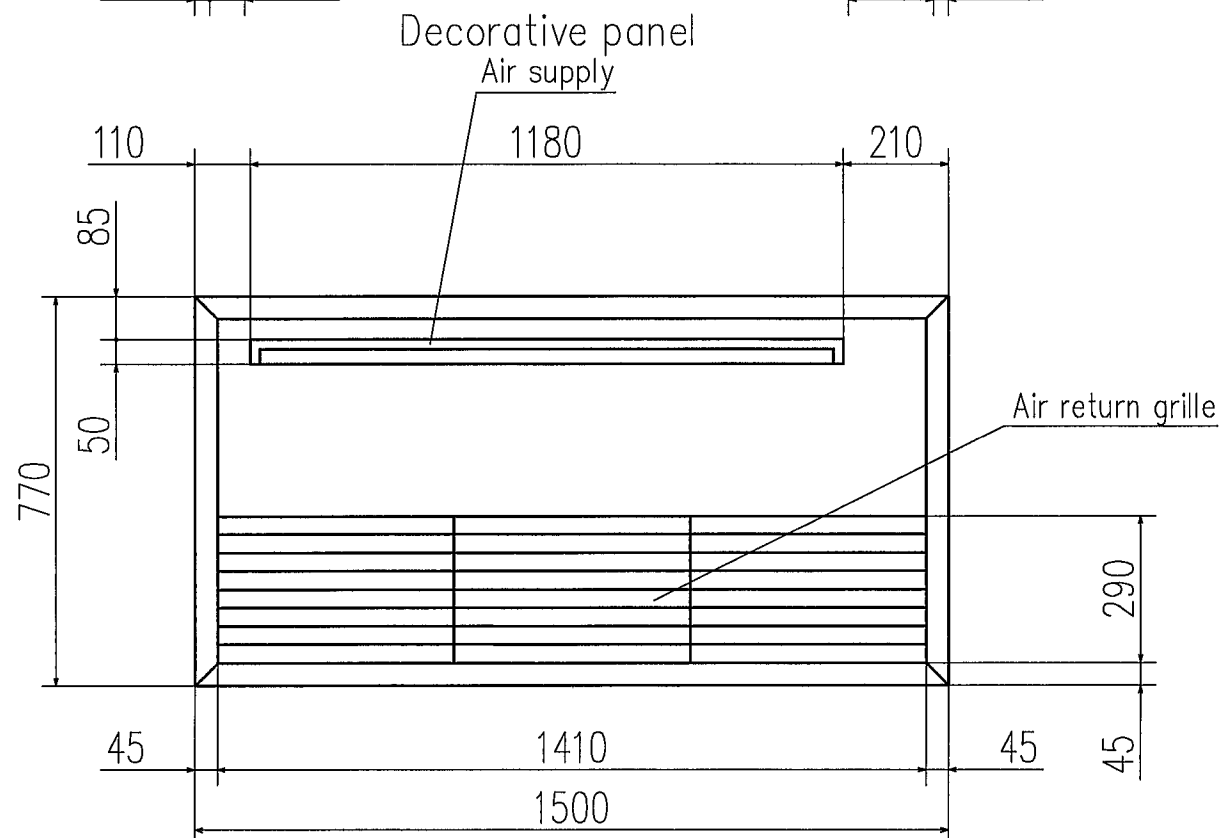
Symbol	Content	
A	Gas piping	φ15.88 (5/8") (Flare)
B	Liquid piping	φ9.52 (3/8") (Flare)
C	Drain piping	VP20 Note (2)
D	Hole for wiring	φ35
E	Suspension bolts	(M10)
F1,2	Outside air opening for ducting	(Knock out)

Remote controller (Option)



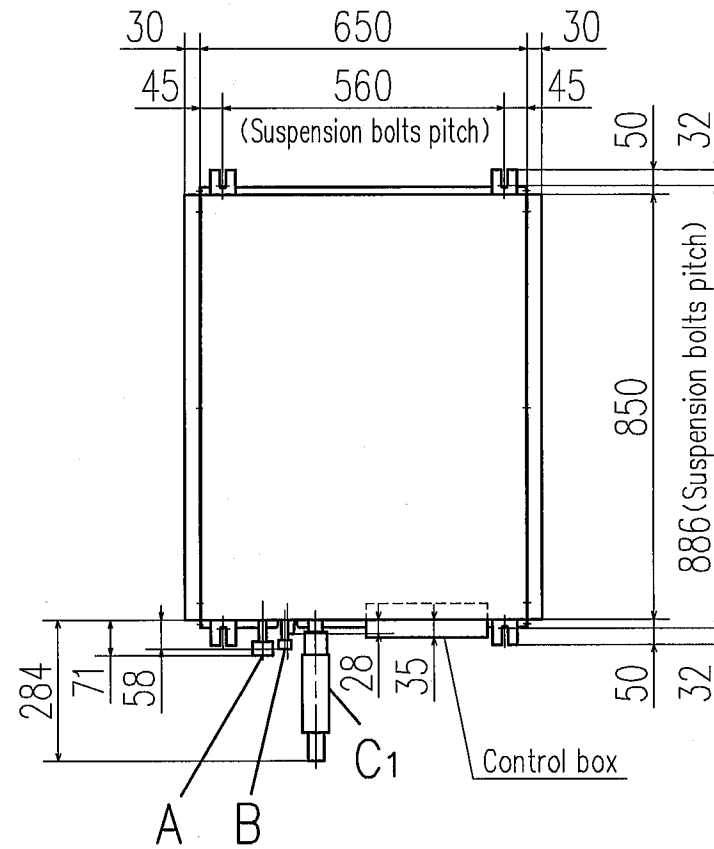
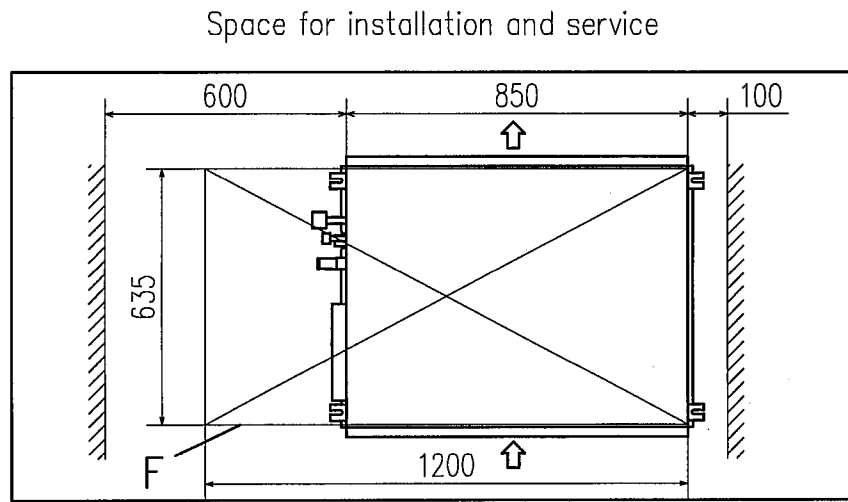
Notes (1) The model name label is attached on the fan case inside the air return grille.  
(2) Prepare the connecting socket (VP20) on site.

Unit: mm



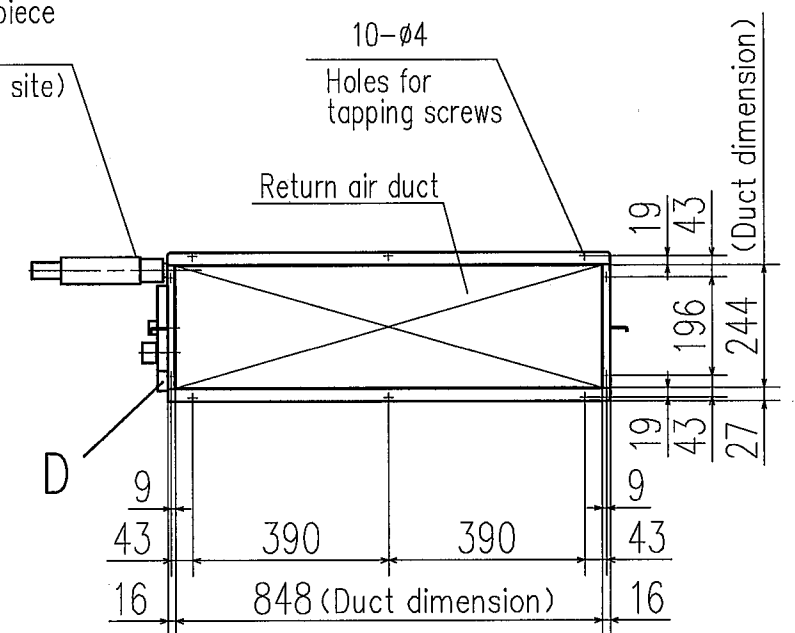
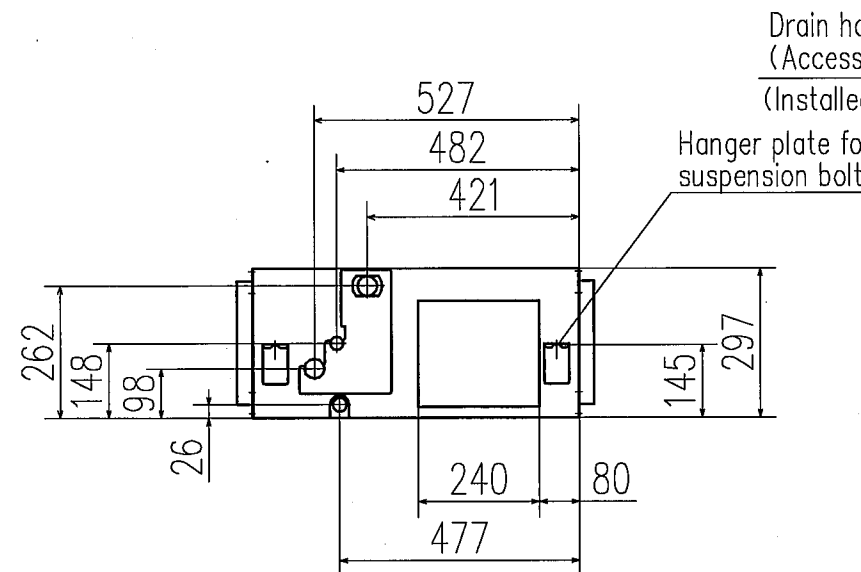
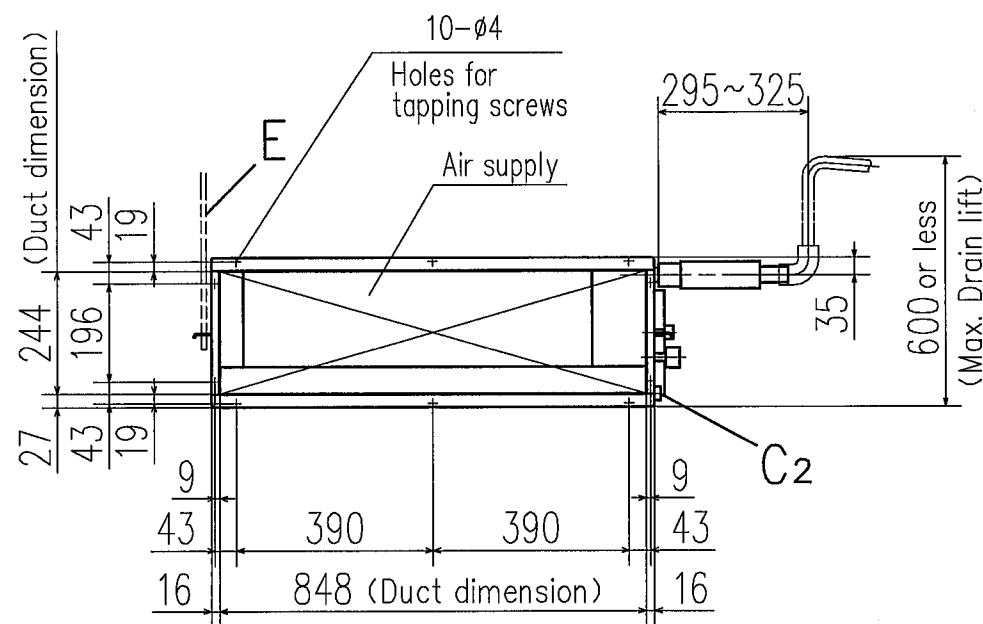
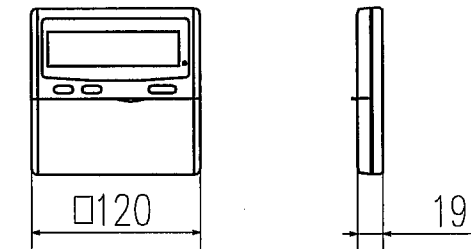
Make a space of 4500 or more between the units when installing more than one.

MODEL NAME		FDT571KXE6	
MODEL TYPE	FDT5	PANEL	TS-PSA-39W-E
ISSUE	CLASSIFICATION		
	OUTLINE		
KASAHARA	DWG NO.	REV./MARK	PAGE
071015	PJC001Z194		1/1



Symbol	Content	
A	Gas piping	φ15.88 (5/8") (Flare)
B	Liquid piping	φ9.52 (3/8") (Flare)
C1	Drain piping	VP20 Note (2)
C2	Drain piping (Gravity drainage)	VP20
D	Hole for wiring	
E	Suspension bolts	(M10)
F	Inspection hole	(635X1200)

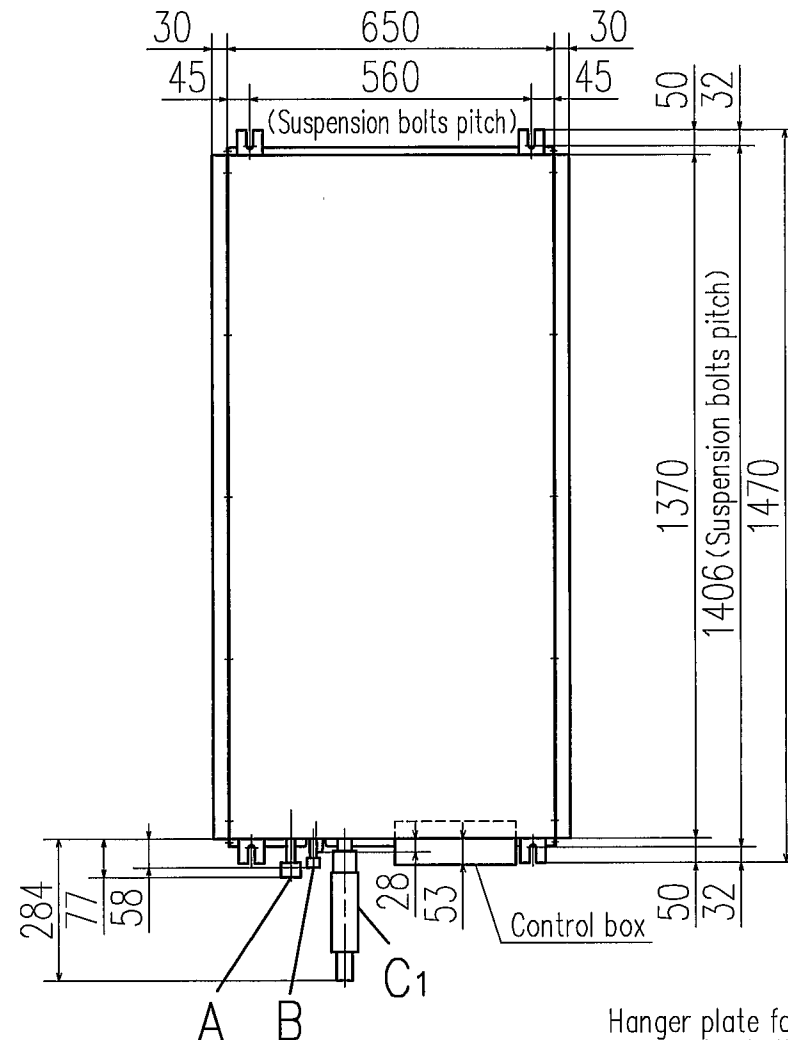
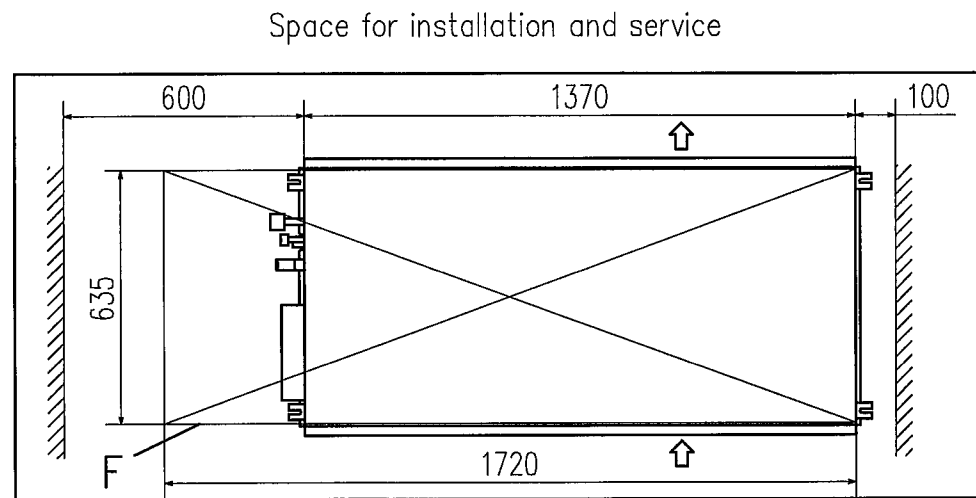
Remote controller (Option)



Unit : mm

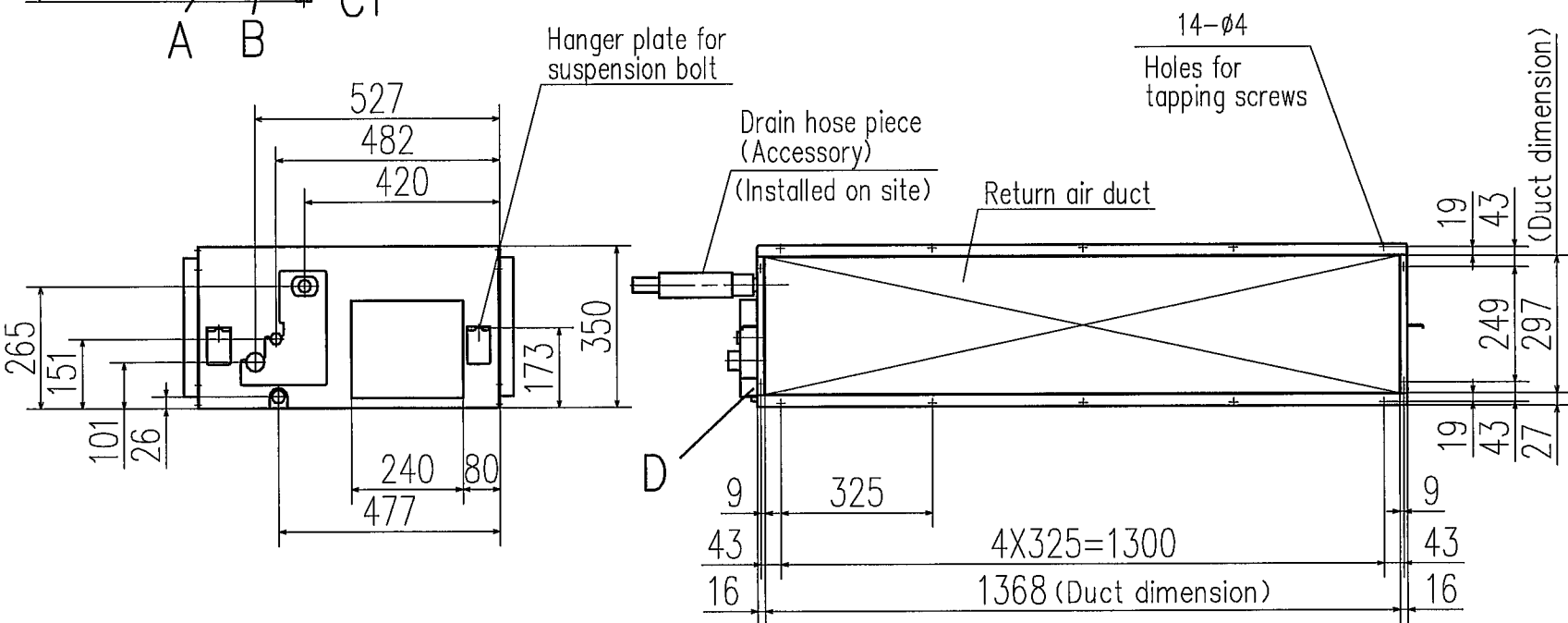
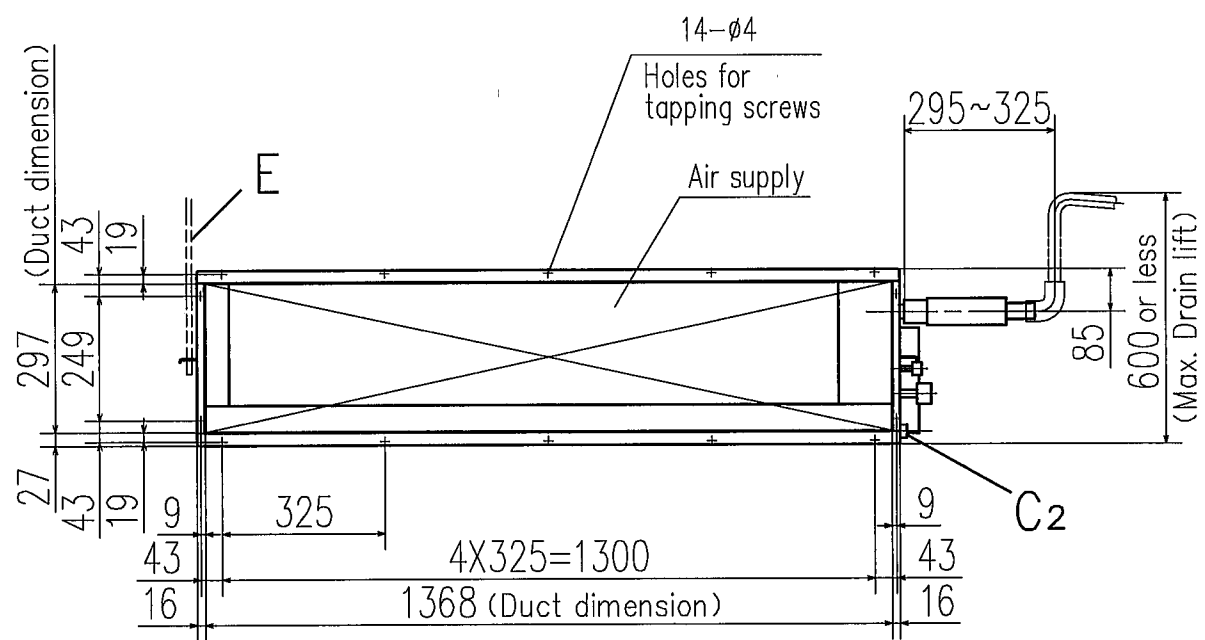
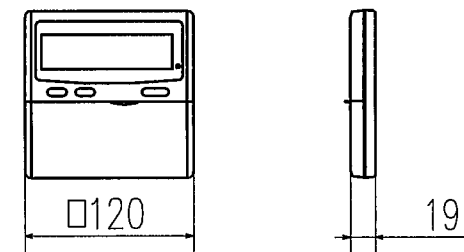
Notes (1) The model name label is attached on the lid of the control box.  
(2) Prepare the connecting socket (VP20) on site.

MODEL NAME		FDU71KXE6	
MODEL TYPE		FDU	
ISSUE	CLASSIFICATION		
KASAHARA	OUTLINE		
DWG NO.	REV. MARK	PAGE	
071015	PJD001Z226	1/1	



Symbol	Content	
A	Gas piping	φ15.88 (5/8") (Flare)
B	Liquid piping	φ9.52 (3/8") (Flare)
C1	Drain piping	VP20 Note (2)
C2	Drain piping (Gravity drainage)	VP20
D	Hole for wiring	
E	Suspension bolts	(M10)
F	Inspection hole	(635X1720)

Remote controller (Option)

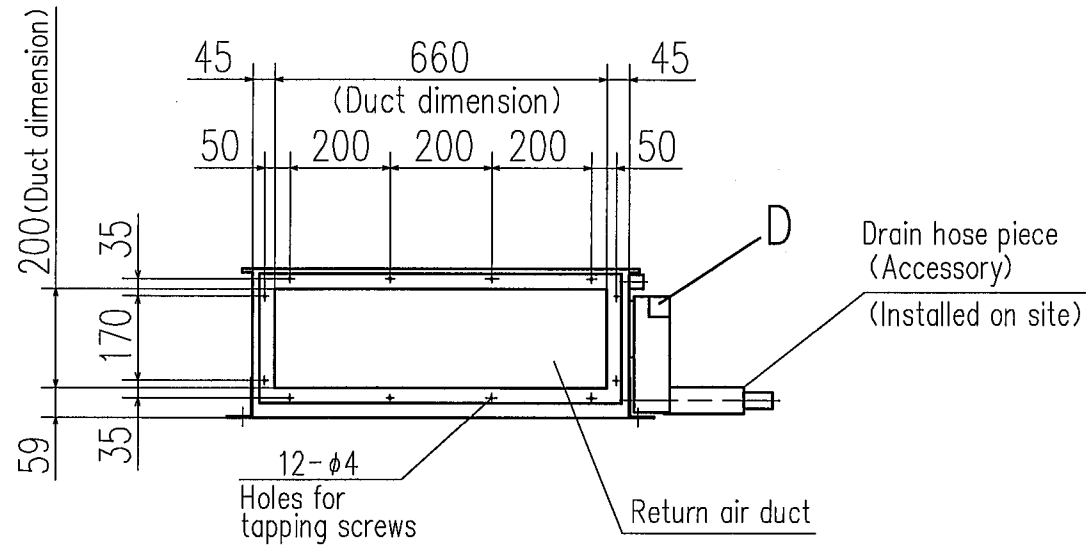


Unit : mm

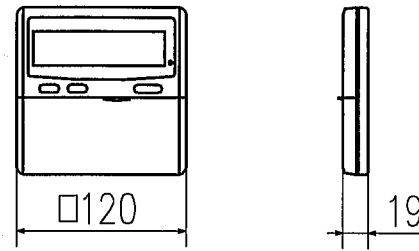
Notes (1) The model name label is attached on the lid of the control box.  
(2) Prepare the connecting socket (VP20) on site.

MODEL NAME		FDUP90KXE6, 112KXE6, 140KXE6	
MODEL TYPE		FDU	
ISSUE	CLASSIFICATION		
KASAHARA	OUTLINE		
DWG NO.	REV. MARK	PAGE	
071015	PJD001Z227	1/1	

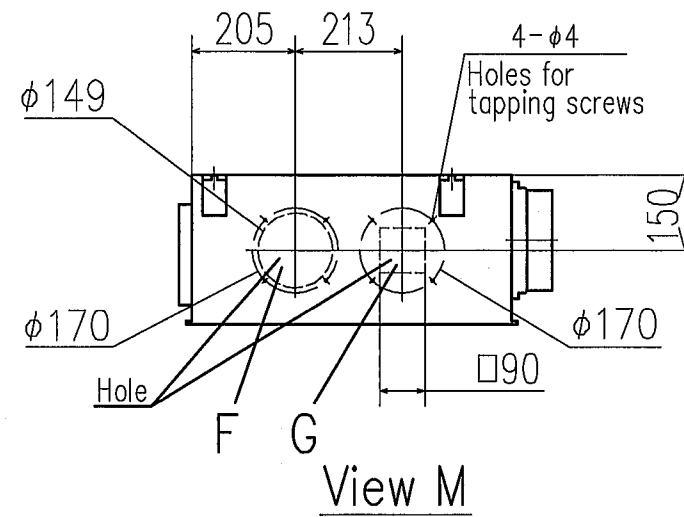
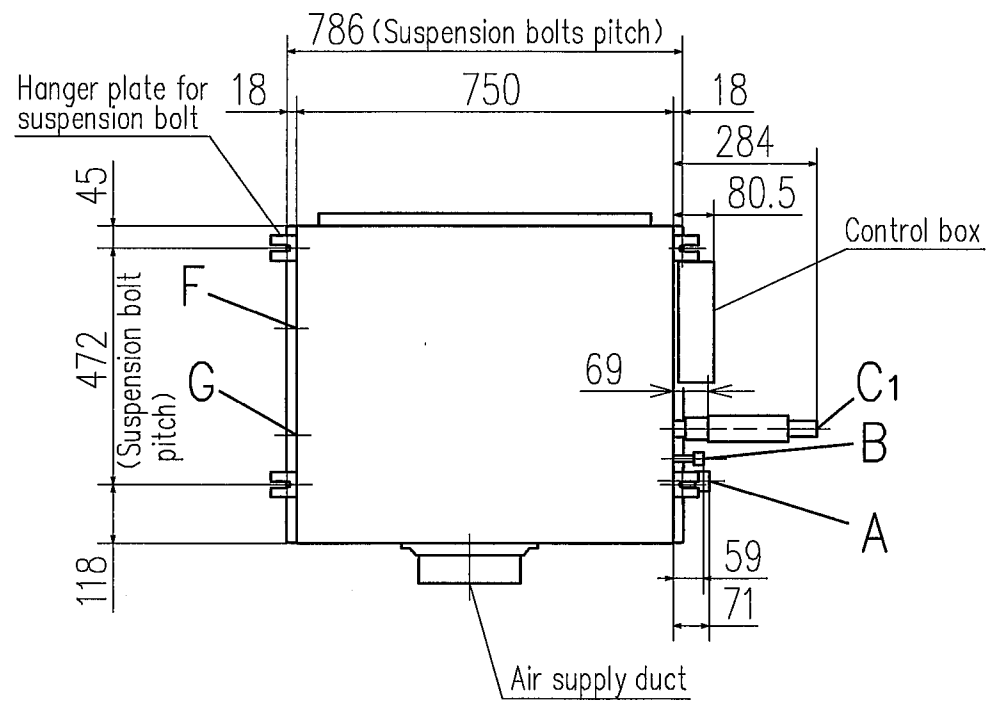




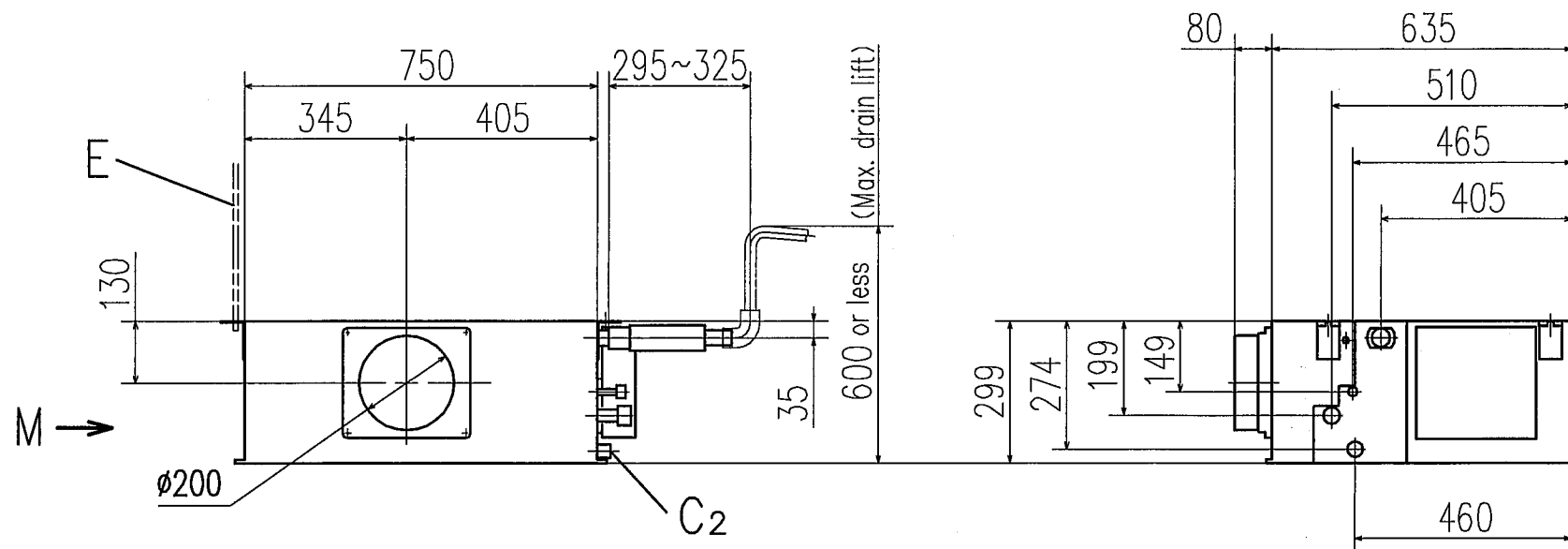
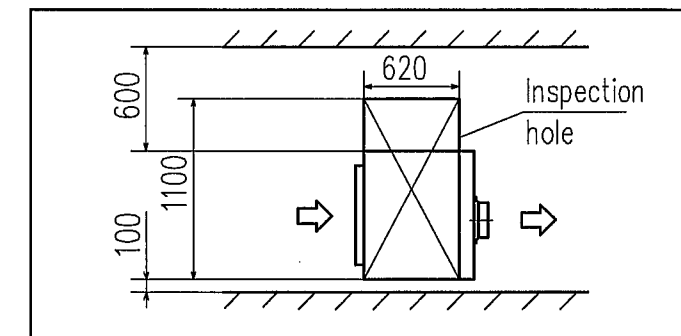
Remote controller  
(Option)



Symbol	Content	
A	Gas piping	φ9.52 (3/8") (Flare)
B	Liquid piping	φ6.35 (1/4") (Flare)
C1	Drain piping	VP20 Note (2)
C2	Drain piping (Gravity drainage)	VP20
D	Hole for wiring	
E	Suspension bolts	(M10)
F	Outside air opening for ducting	(φ150) (Knock out)
G	Air outlet opening for ducting	(φ125) (Knock out)



Space for installation and service

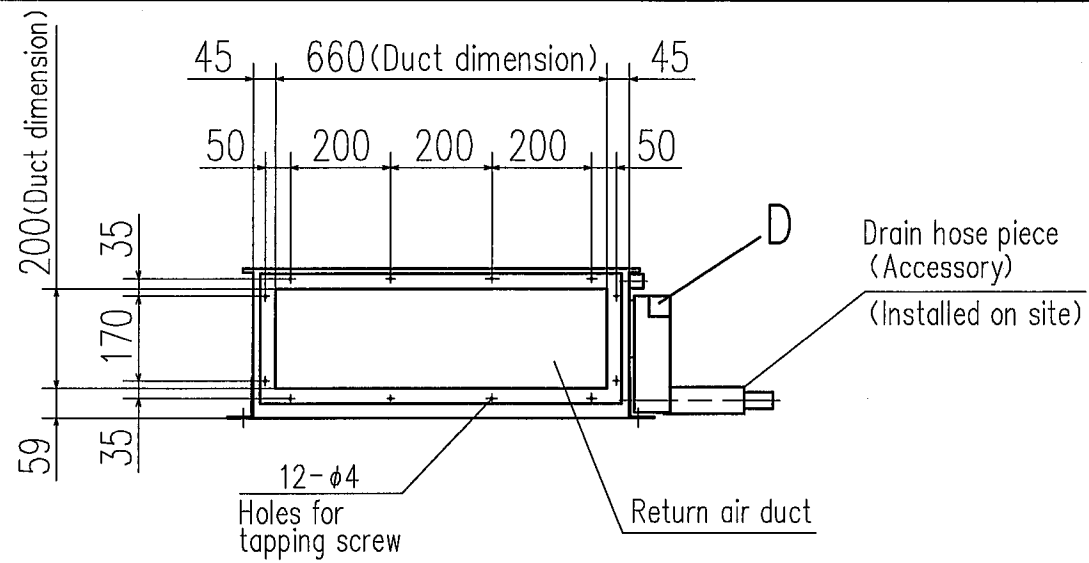


Notes (1) The model name label is attached on the lid of the control box.  
(2) Prepare the connecting socket (VP20) on site.

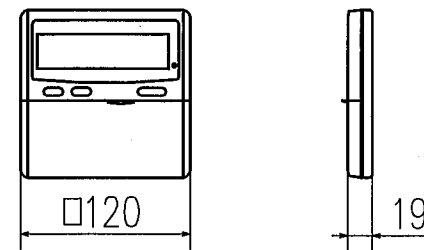
Unit: mm

MODEL NAME		FDUM22KXE6	
MODEL TYPE		FDUM	
ISSUE	CLASSIFICATION		
	OUTLINE		
KASAHARA	DWG. NO.	REV./MARK	PAGE
071015	PJR002Z254	/	1/1

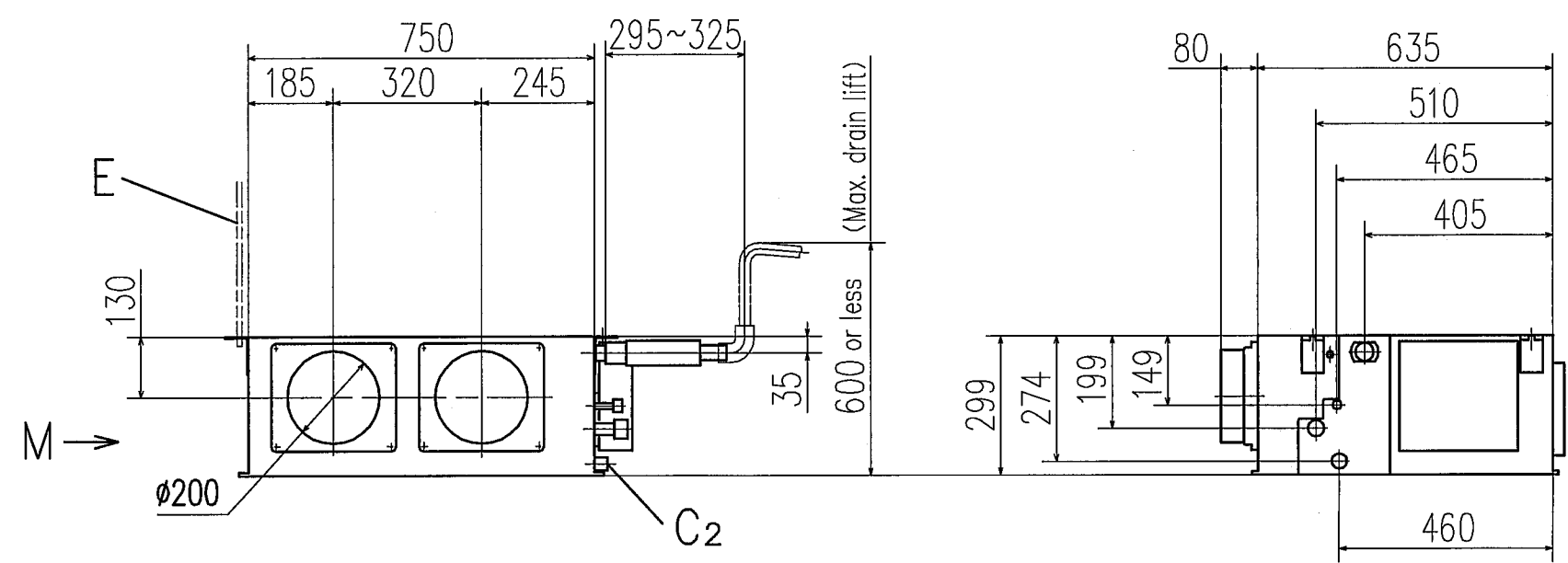
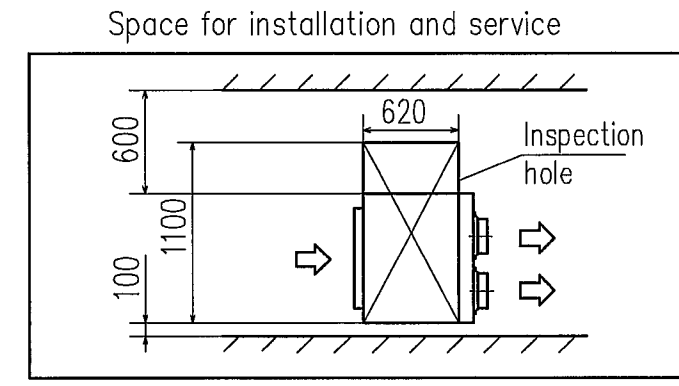
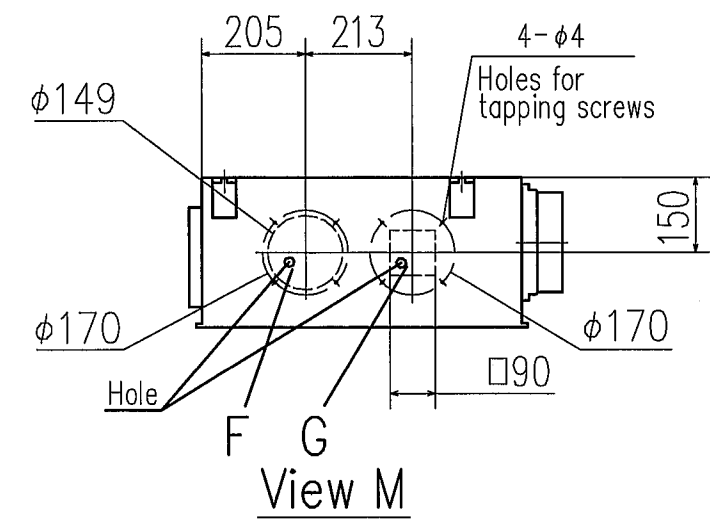
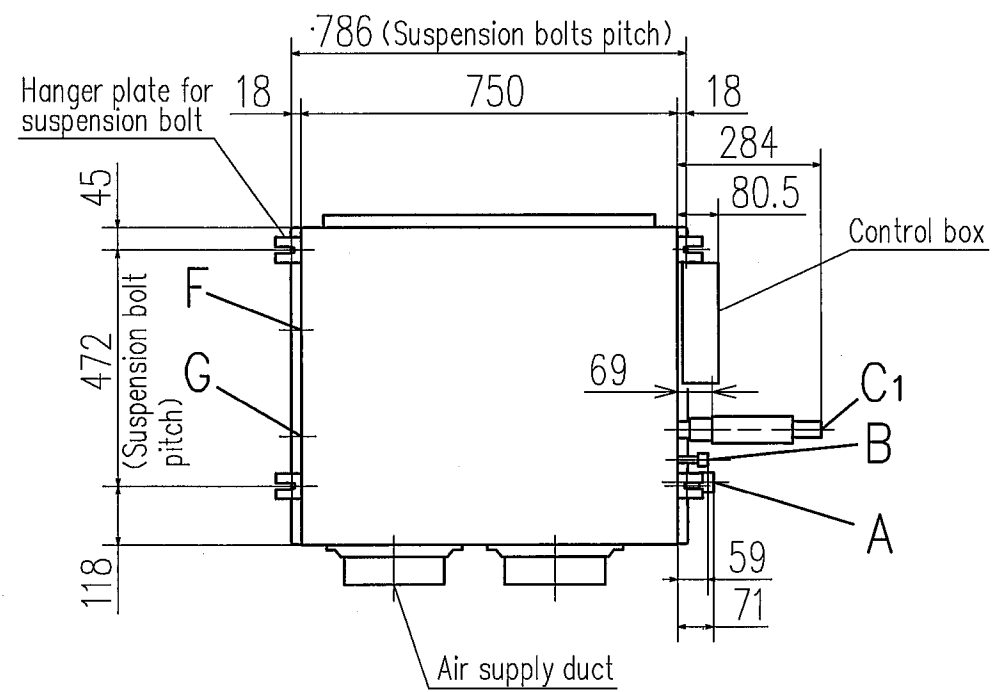




Remote controller (Option)



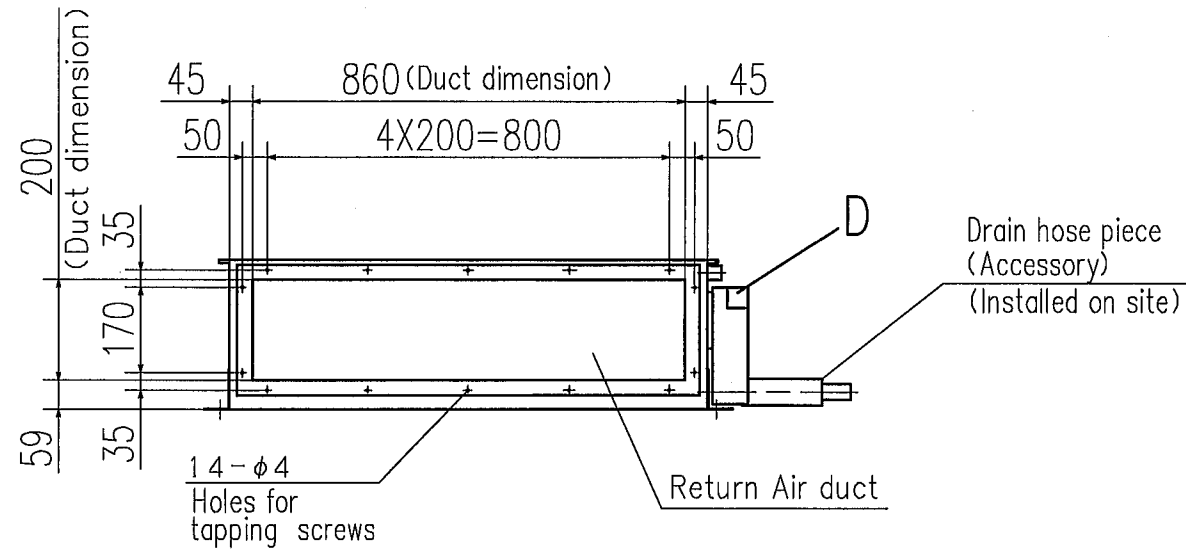
Symbol	Content		
	Model	FDUM28KXE6	FDUM36KXE6, 45KXE6, 56KXE6
A	Gas piping	φ9.52 (3/8") (Flare)	φ12.7 (1/2") (Flare)
B	Liquid piping	φ6.35 (1/4") (Flare)	
C1	Drain piping	VP20 Note (2)	
C2	Drain piping (Gravity drainage)	VP20	
D	Hole for wiring		
E	Suspension bolts	(M10)	
F	Outside air opening for ducting	(φ150) (Knock out)	
G	Air outlet opening for ducting	(φ125) (Knock out)	



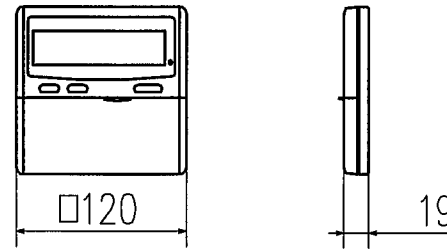
Notes (1) The model name label is attached on the lid of the control box.  
(2) Prepare the connecting socket (VP20) on site.

Unit: mm

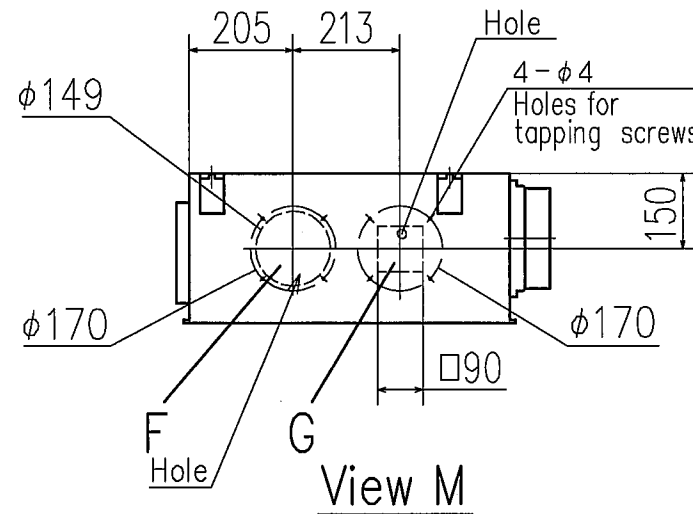
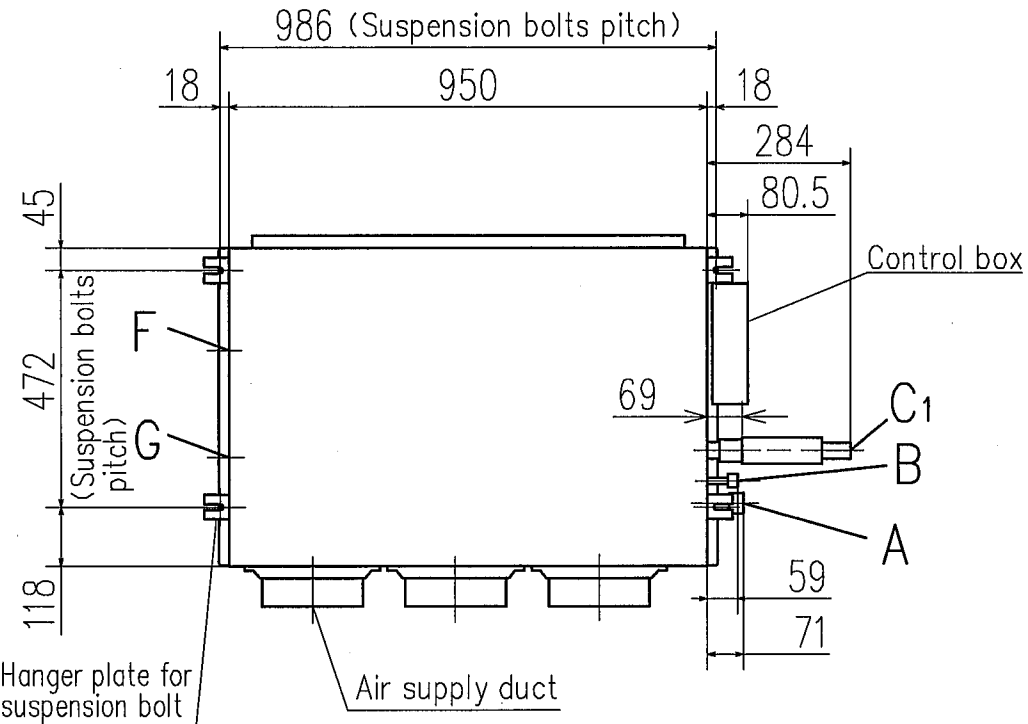
MODEL NAME		FDUM28KXE6, 36KXE6, 45KXE6, 56KXE6	
MODEL TYPE		FDUM	
ISSUE	CLASSIFICATION		
	OUTLINE		
KASAHARA	DWG NO.	REV./MARK	PAGE
071015	PJR002Z255		1/1



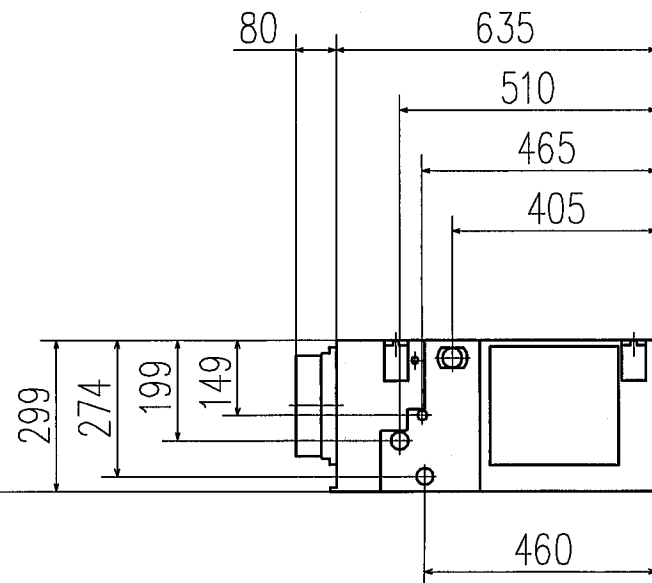
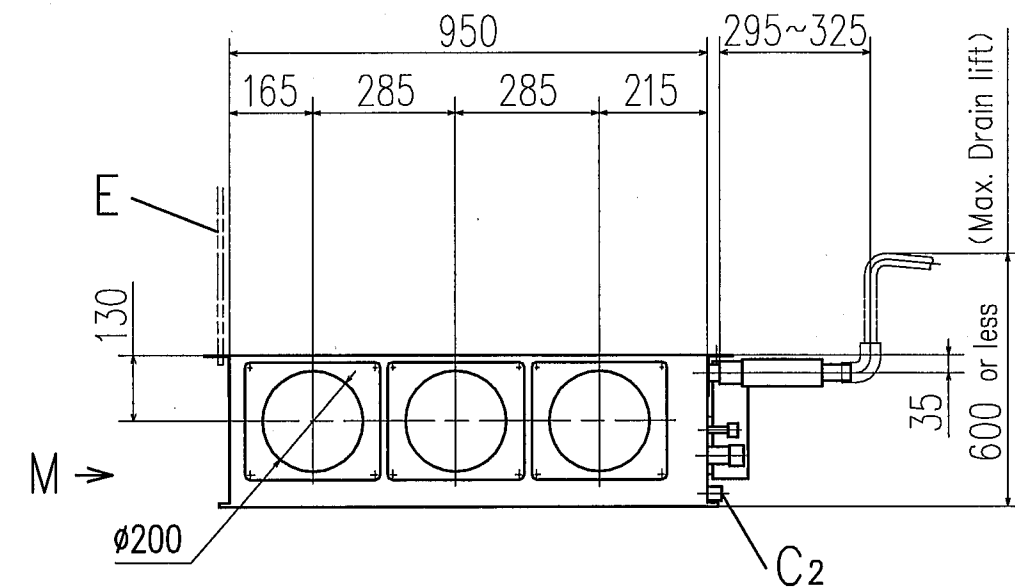
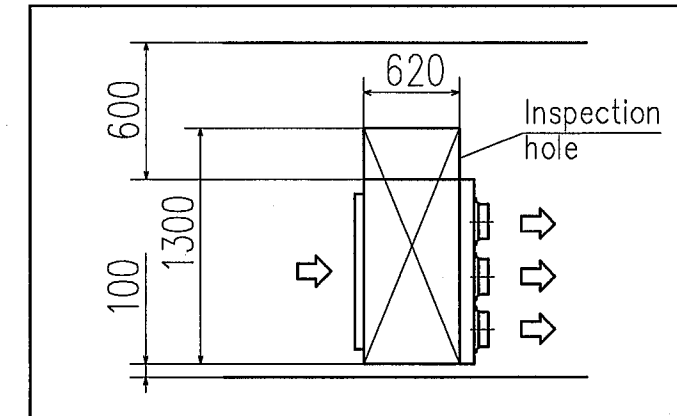
Remote controller  
(Option)



Symbol	Content	
A	Gas piping	φ15.88 (5/8") (Flare)
B	Liquid piping	φ9.52 (3/8") (Flare)
C1	Drain piping	VP20 Note (2)
C2	Drain piping (Gravity drainage)	VP20
D	Hole for wiring	
E	Suspension bolts	(M10)
F	Outside air opening for ducting	(φ150) (Knock out)
G	Air outlet opening for ducting	(φ125) (Knock out)



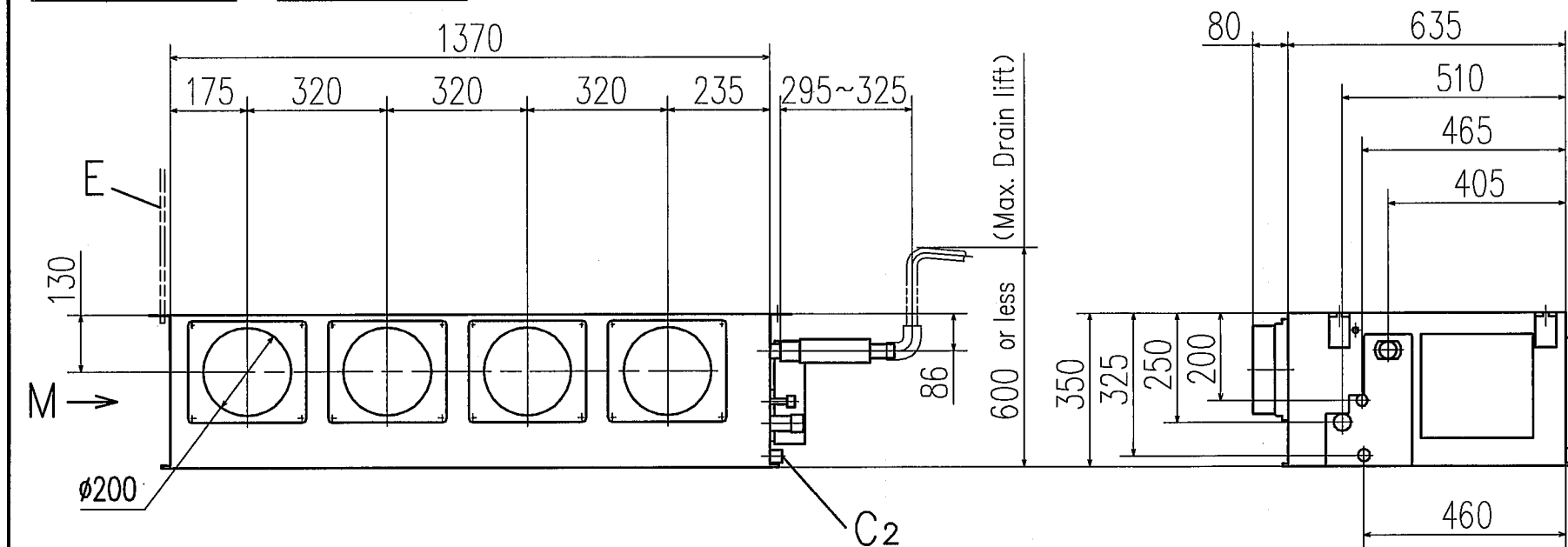
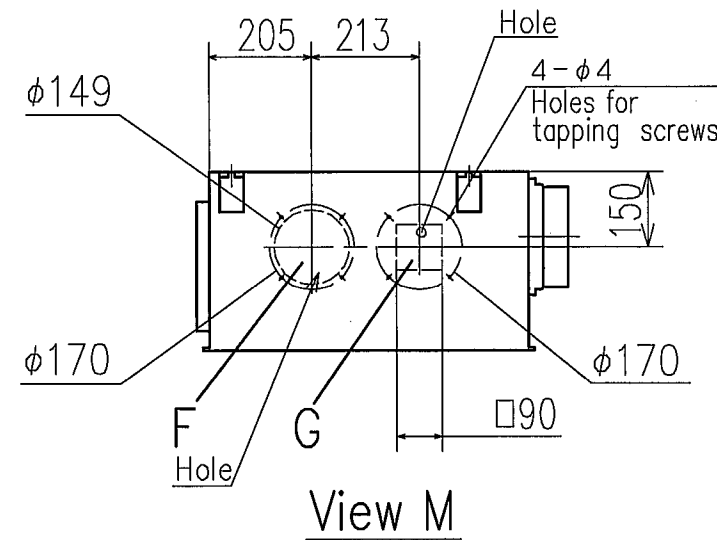
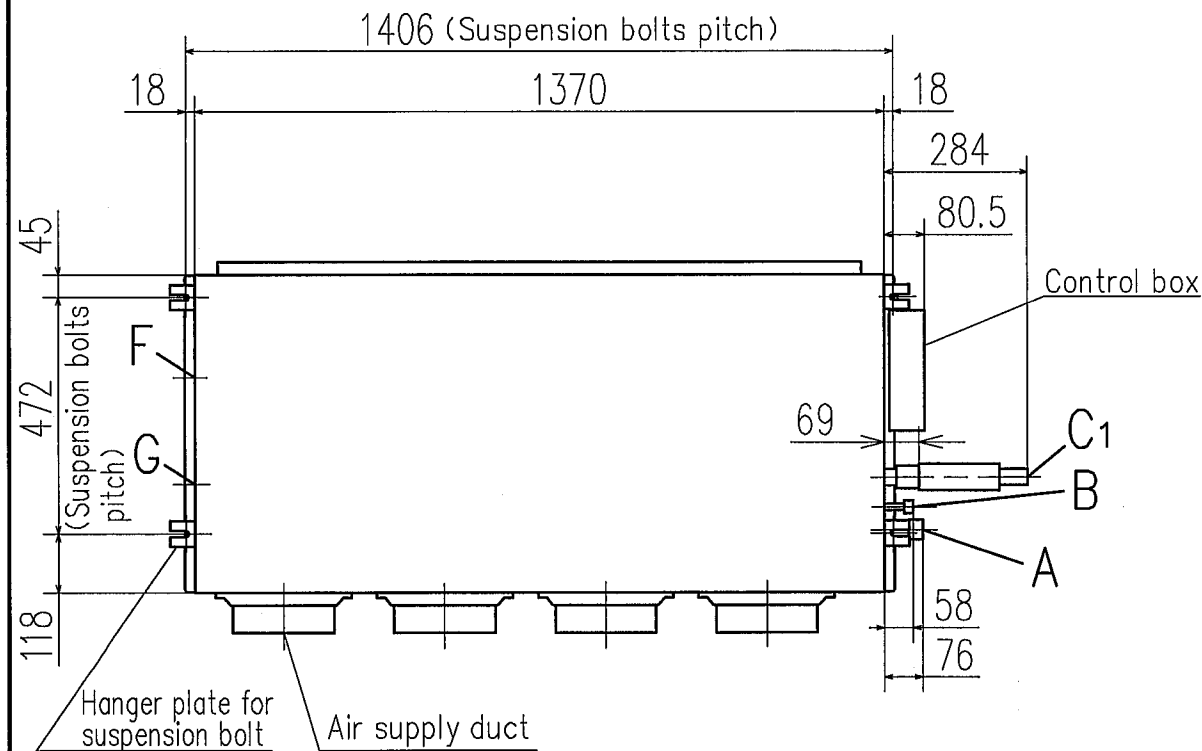
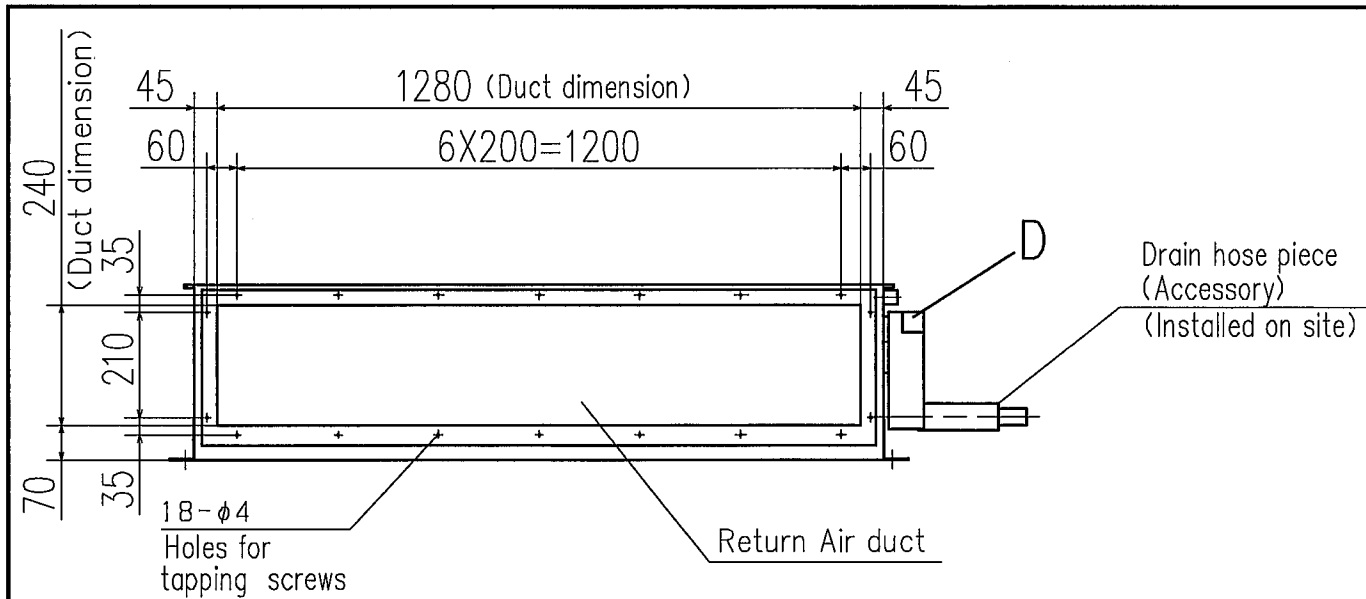
Space for installation and service



Notes (1) The model name label is attached on the lid of the control box.  
(2) Prepare the connecting socket (VP20) on site.

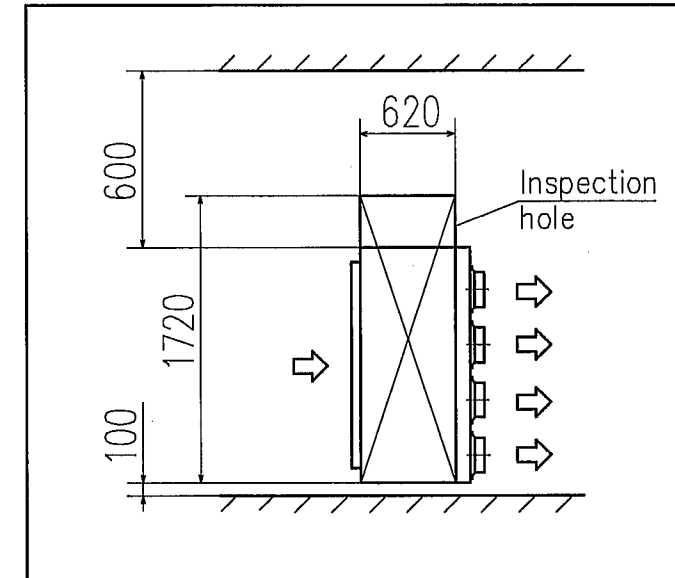
Unit:mm

MODEL NAME	FDUM71KXE6, 90KXE6		
MODEL TYPE	FDUM	⊙ ⊚	
ISSUE	CLASSIFICATION OUTLINE		
KASAHARA	DWG. NO.	REV. MARK	PAGE
071015	PJR002Z256	/	1/1



Symbol	Content	
A	Gas piping	φ15.88 (5/8") (Flare)
B	Liquid piping	φ9.52 (3/8") (Flare)
C1	Drain piping	VP20 Note (2)
C2	Drain piping (Gravity drainage)	VP20
D	Hole for wiring	
E	Suspension bolts	(M10)
F	Outside air opening for ducting	(φ150) (Knock out)
G	Air outlet opening for ducting	(φ125) (Knock out)

Space for installation and service

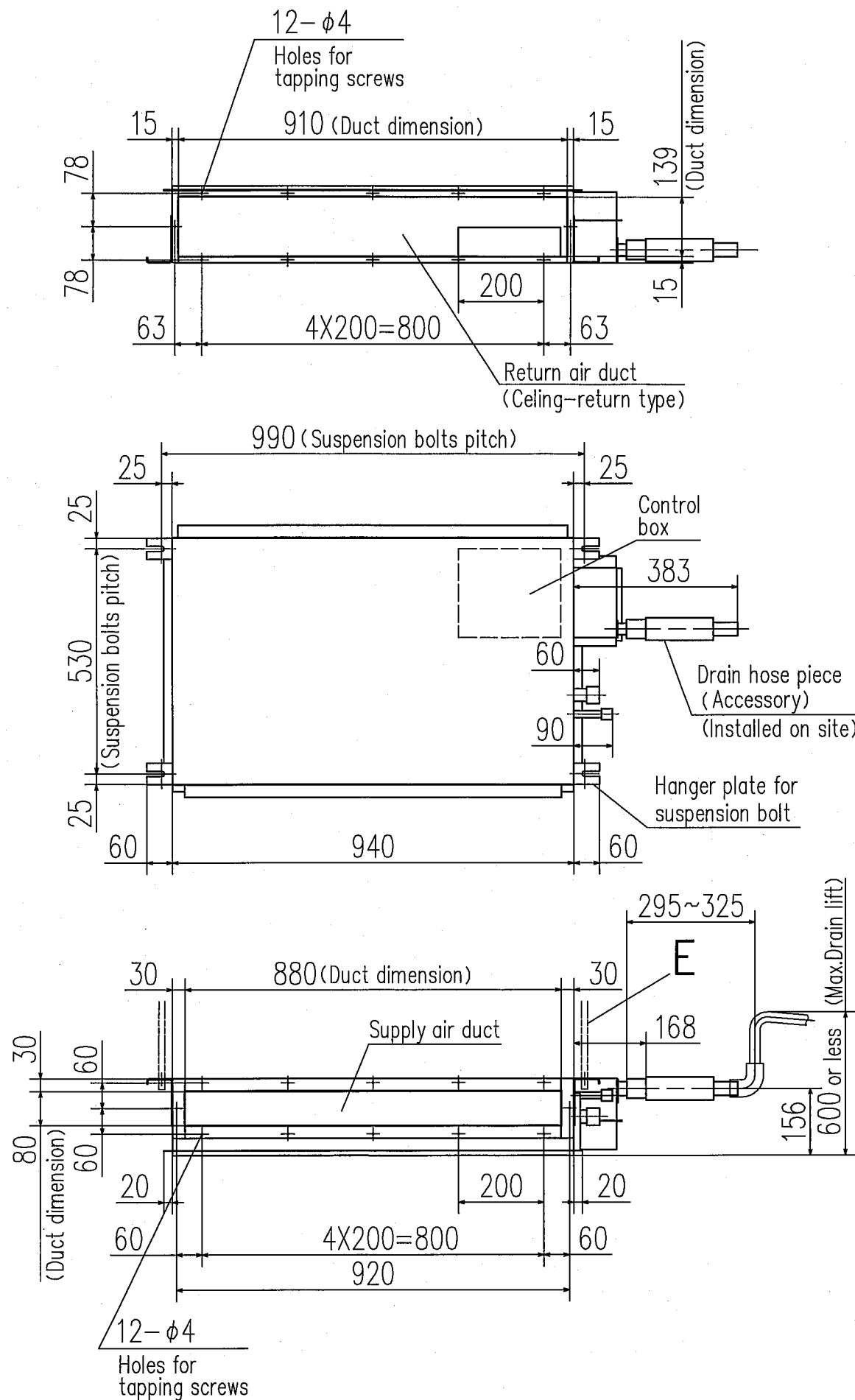


Notes (1) The model name label is attached on the lid of the control box.  
(2) Prepare the connecting socket (VP20) on site.

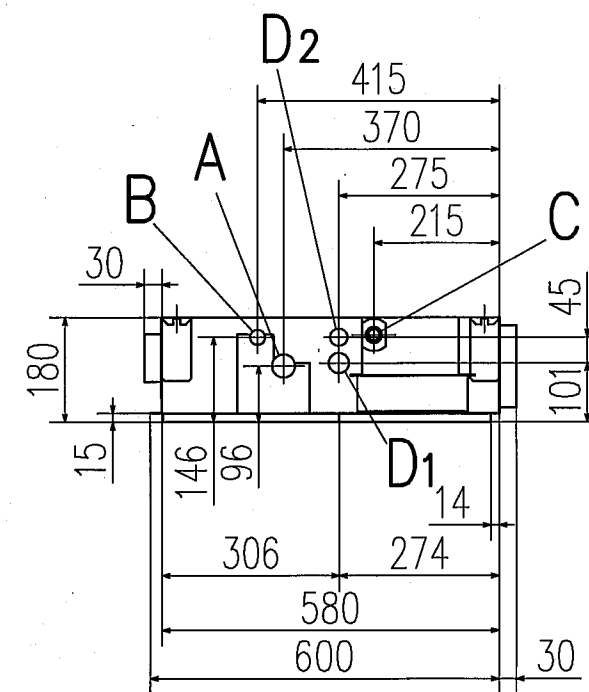
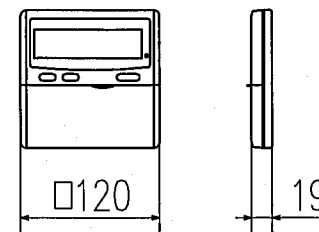
Unit:mm

MODEL NAME		FDUM112KXE6, 140KXE6	
MODEL TYPE		FDUM	
ISSUE	CLASSIFICATION		
	OUTLINE		
KASAHARA	DWG. NO.	REV. MARK	PAGE
071015	PJR002Z257		1/1

Symbol	Content		
	Model	FDQS22KXE6, 28KXE6	FDQS36KXE6, 45KXE6, 56KXE6
A	Gas piping	φ9.52 (3/8") (Flare)	φ12.7 (1/2") (Flare)
B	Liquid piping	φ6.35 (1/4") (Flare)	
C	Drain piping	VP20 Note (2)	
D1	Hole for power source wiring	φ35	
D2	Hole for remote controller wiring and signal wiring	φ30	
E	Suspension bolts	(M10)	



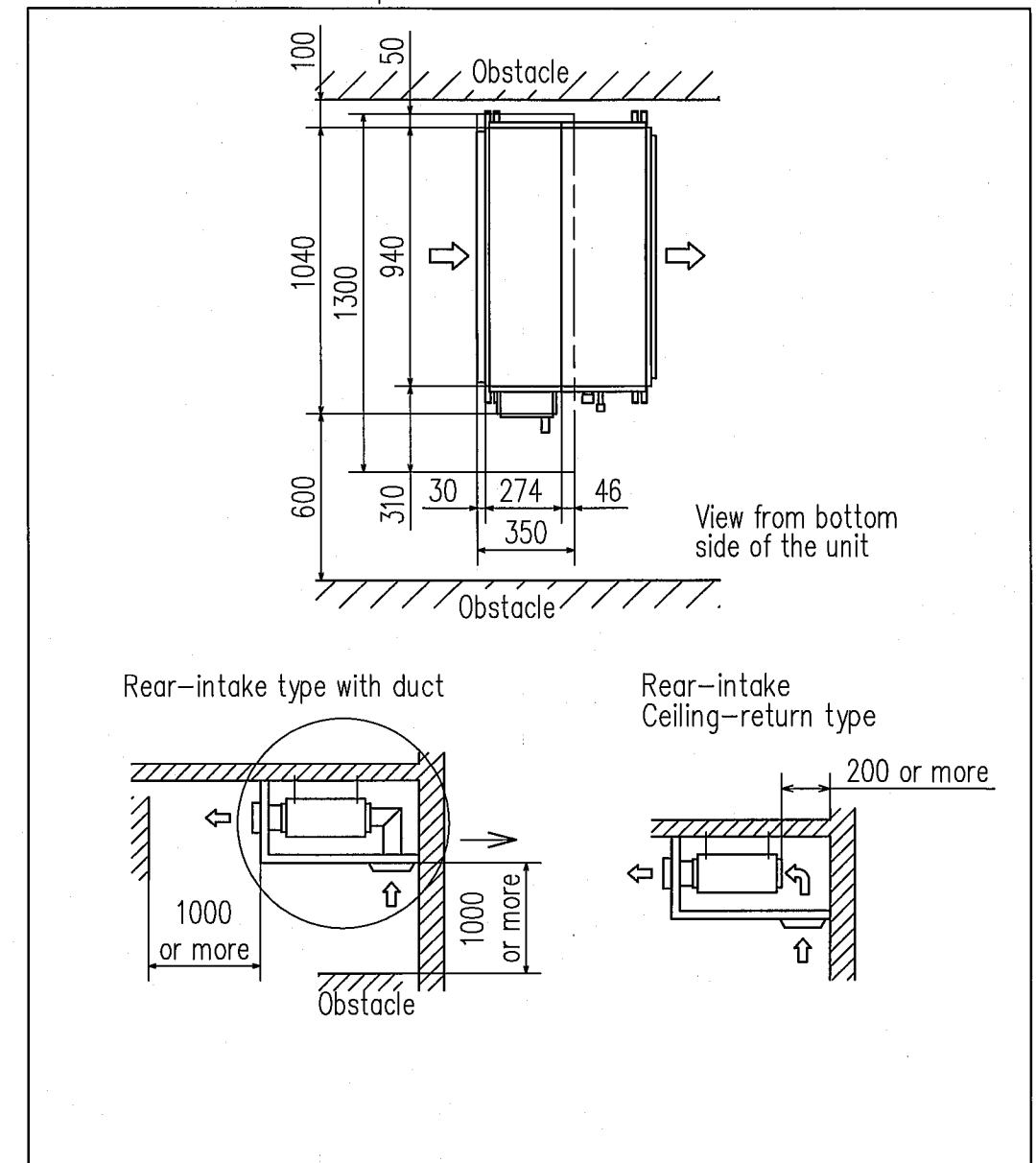
Remote controller (Option)



Notes

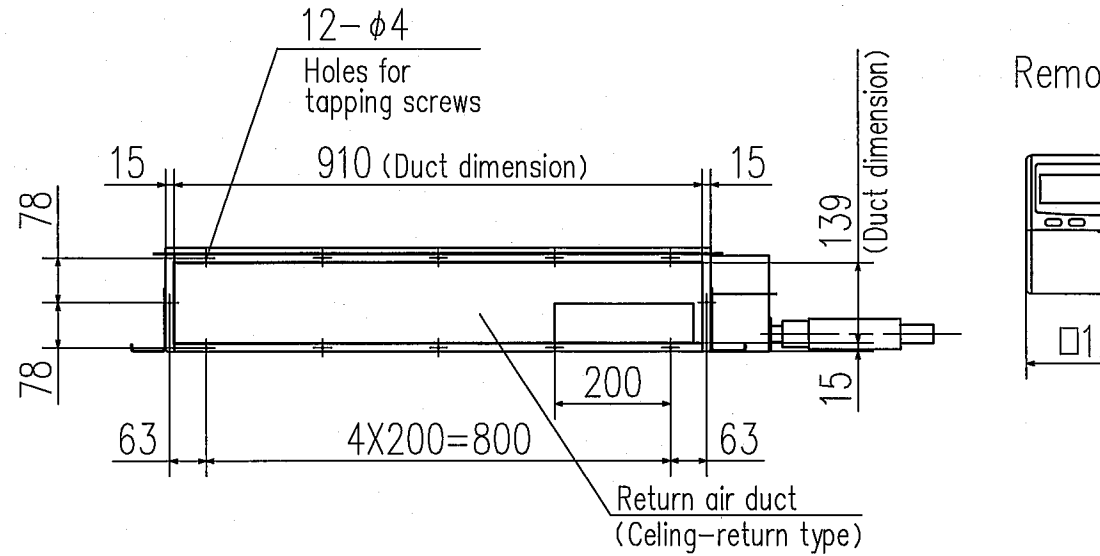
- (1) The model name label is attached on the side plate.
- (2) Prepare the connecting socket (VP20) on site.

Space for installation and service

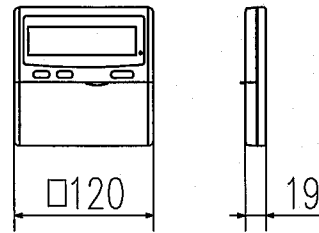


Unit: mm

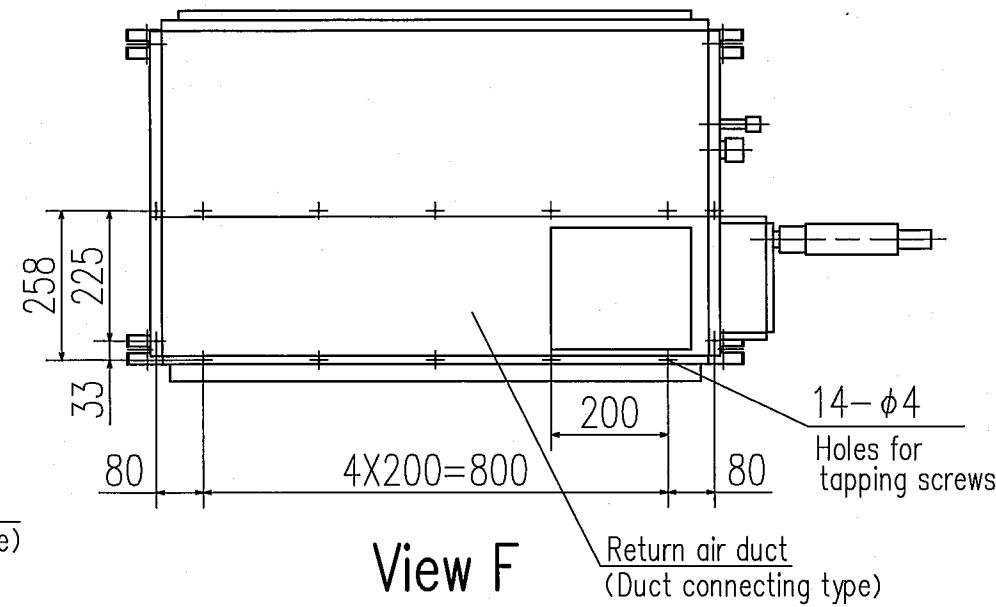
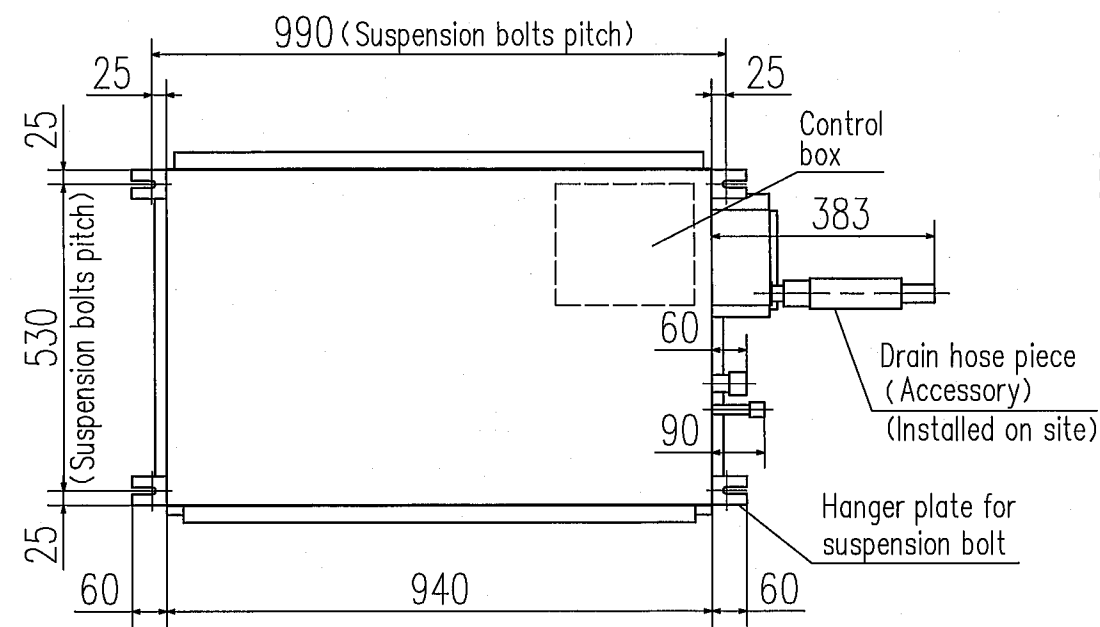
MODEL NAME		FDQS22KXE6, 28KXE6, 36KXE6, 45KXE6, 56KXE6	
MODEL TYPE		FDQS	
ISSUE	CLASSIFICATION		
KASAHARA	OUTLINE (Rear air return type)		
DWG NO.	REV. MARK	PAGE	
071015	PJC001Z199	1/1	



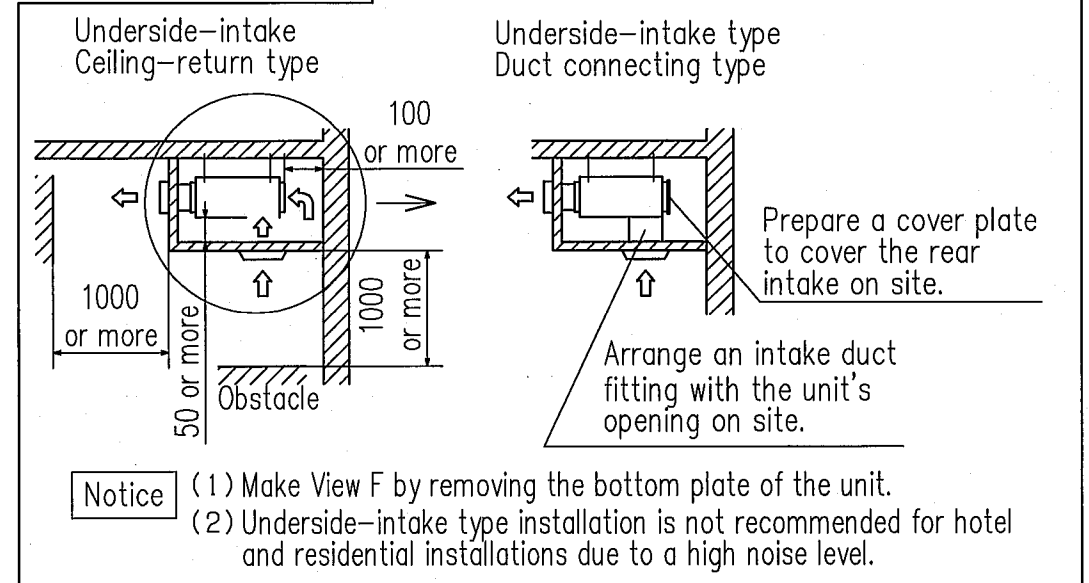
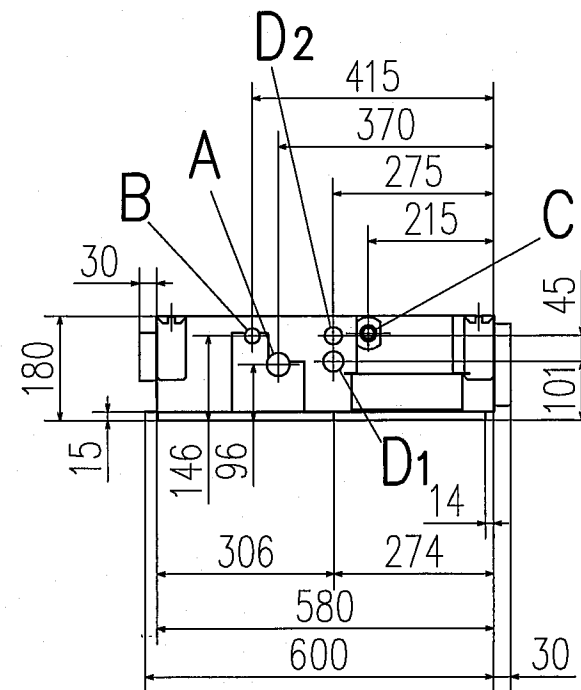
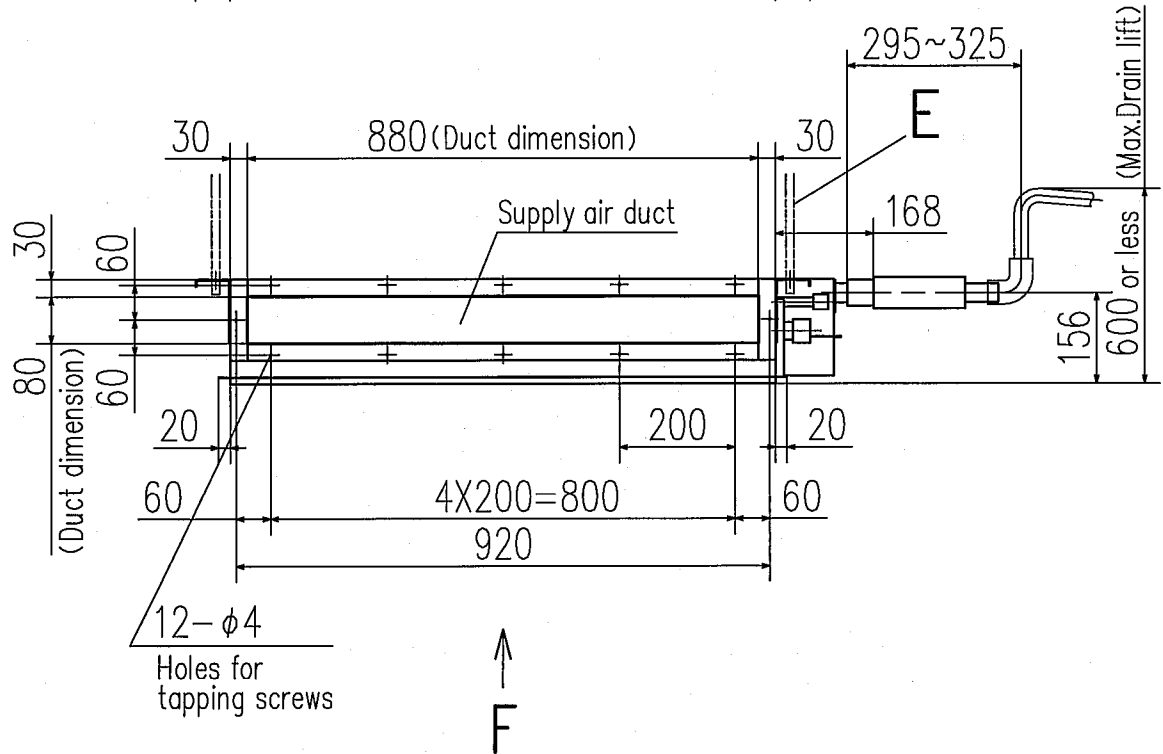
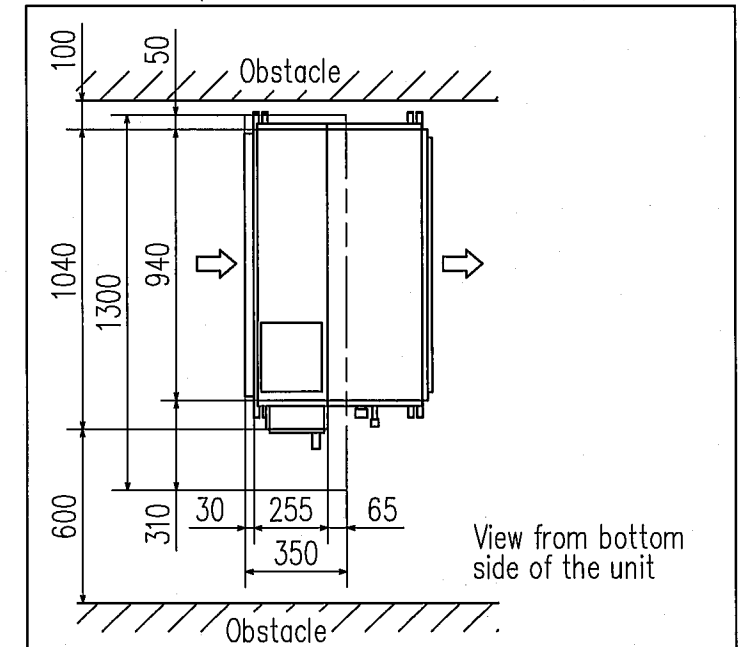
Remote controller (Option)



Symbol	Content		
	Model	FDQS22KXE6, 28KXE6	FDQS36KXE6, 45KXE6, 56KXE6
A	Gas piping	φ9.52 (3/8") (Flare)	φ12.7 (1/2") (Flare)
B	Liquid piping	φ6.35 (1/4") (Flare)	
C	Drain piping	VP20 Note (2)	
D1	Hole for power source wiring	φ35	
D2	Hole for remote controller wiring and signal wiring	φ30	
E	Suspension bolts	(M10)	



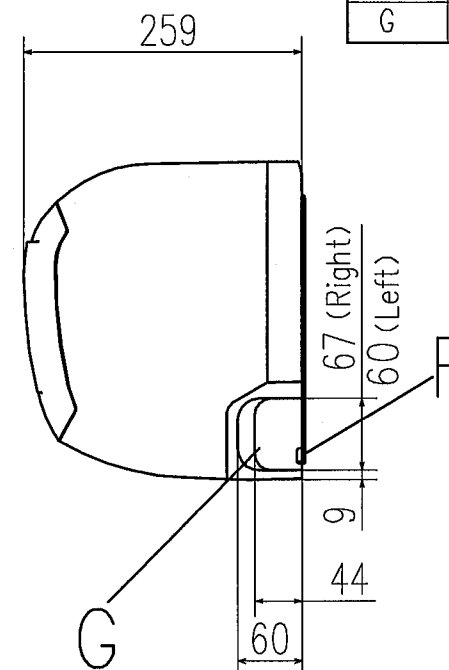
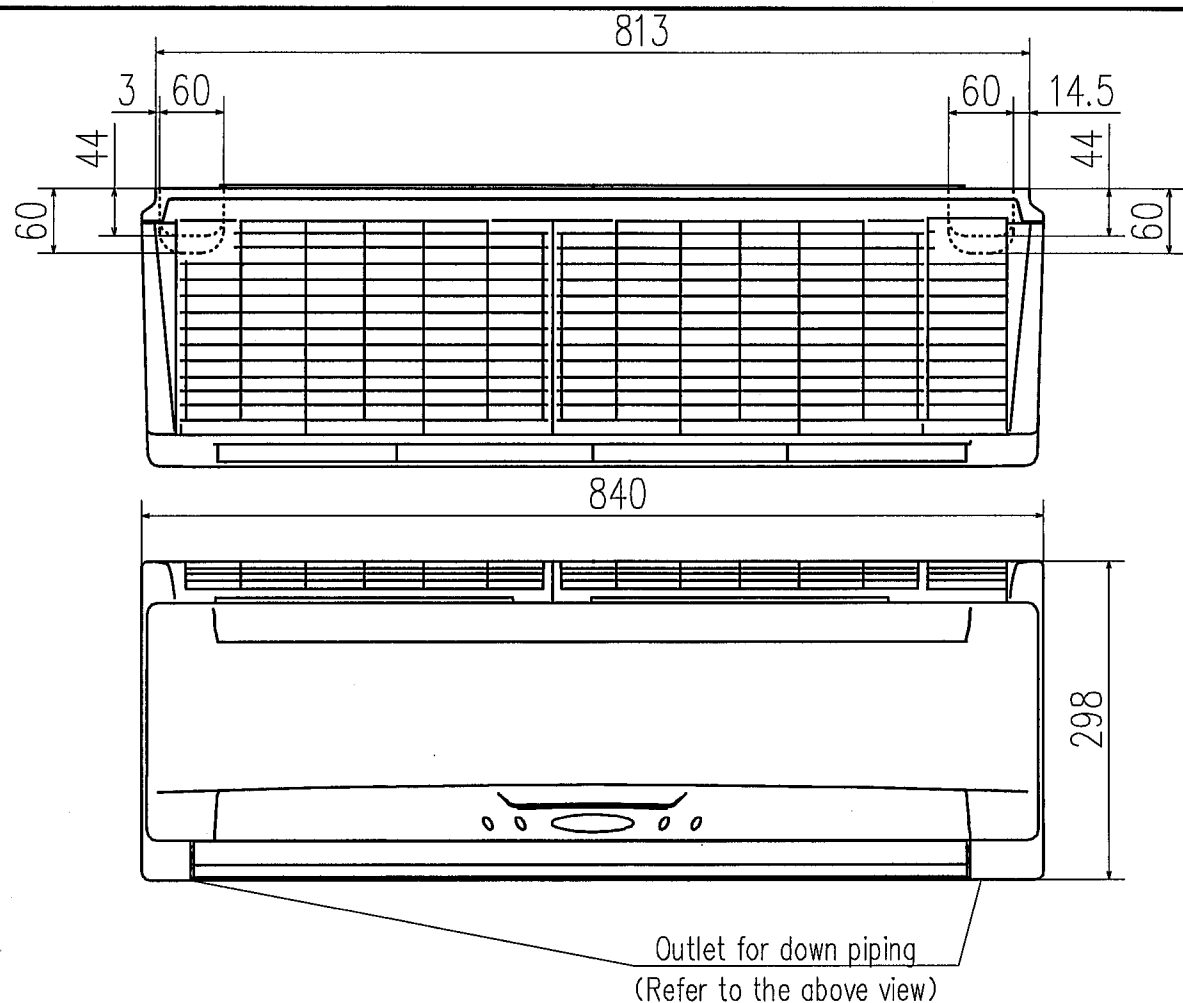
Space for installation and service



Unit: mm

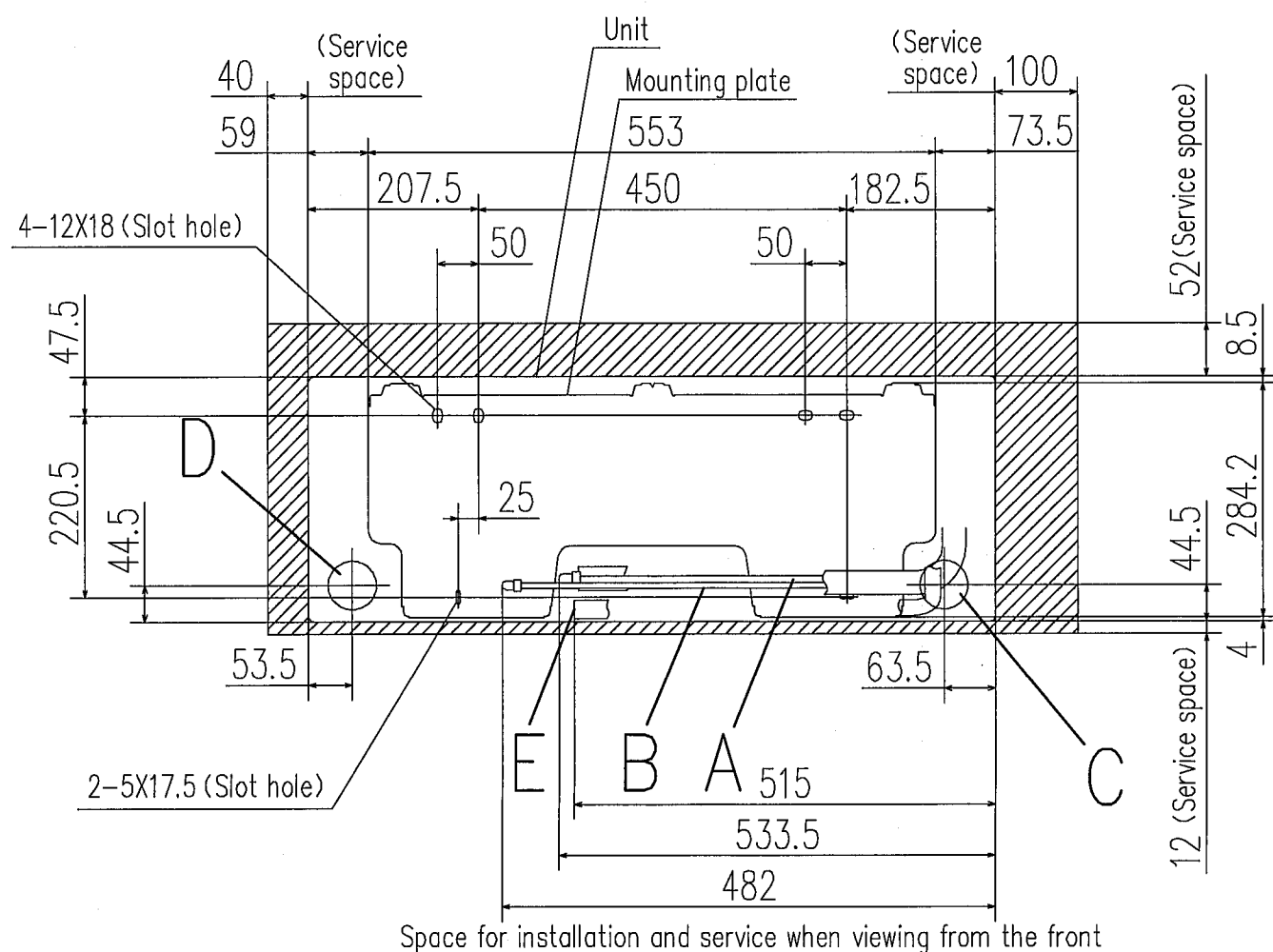
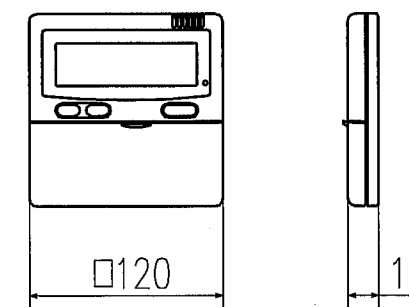
Notes  
(1) The model name label is attached on the side plate.  
(2) Prepare the connecting socket (VP20) on site.

MODEL NAME		FDQS22KXE6, 28KXE6, 36KXE6, 45KXE6, 56KXE6	
MODEL TYPE		FDQS	
ISSUE	CLASSIFICATION		
KASAHARA	OUTLINE (Underside air return type)		
DWG NO.	REV./MARK	PAGE	
07.10.15	PJC001Z241	1/1	



Symbol	Content		
	Model	FDK22KXE6, 28KXE6	FDK36KXE6, 45KXE6, 56KXE6
A	Gas piping	φ9.52 (3/8") (Flare)	φ12.7 (1/2") (Flare)
B	Liquid piping	φ6.35 (1/4") (Flare)	
C	Hole on wall for right rear piping	(φ65)	
D	Hole on wall for left rear piping	(φ65)	
E	Drain piping	VP16	
F	Outlet for wiring		
G	Outlet for piping (on both side)		

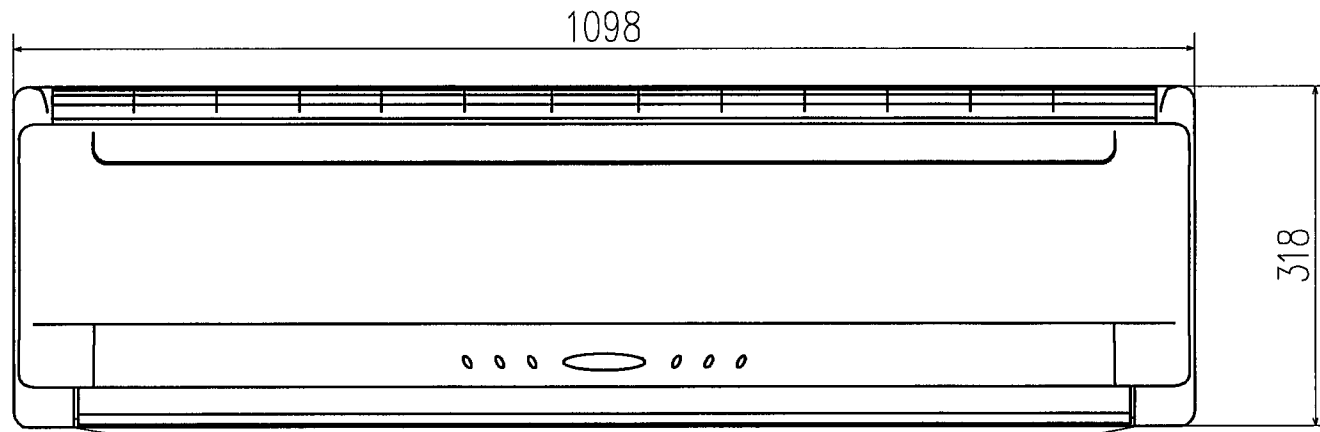
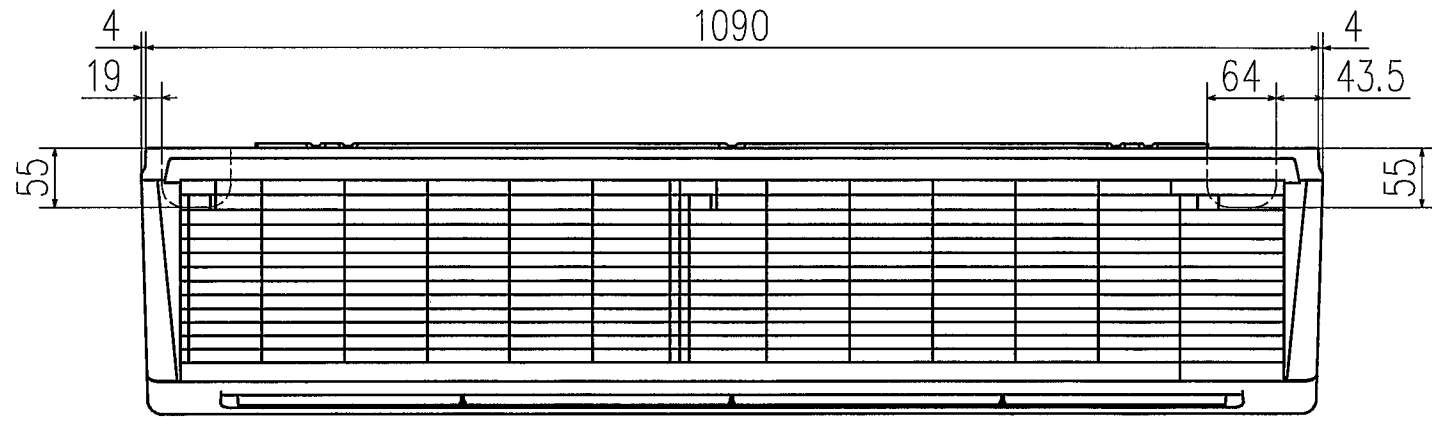
Remote controller  
(Option)



Unit: mm

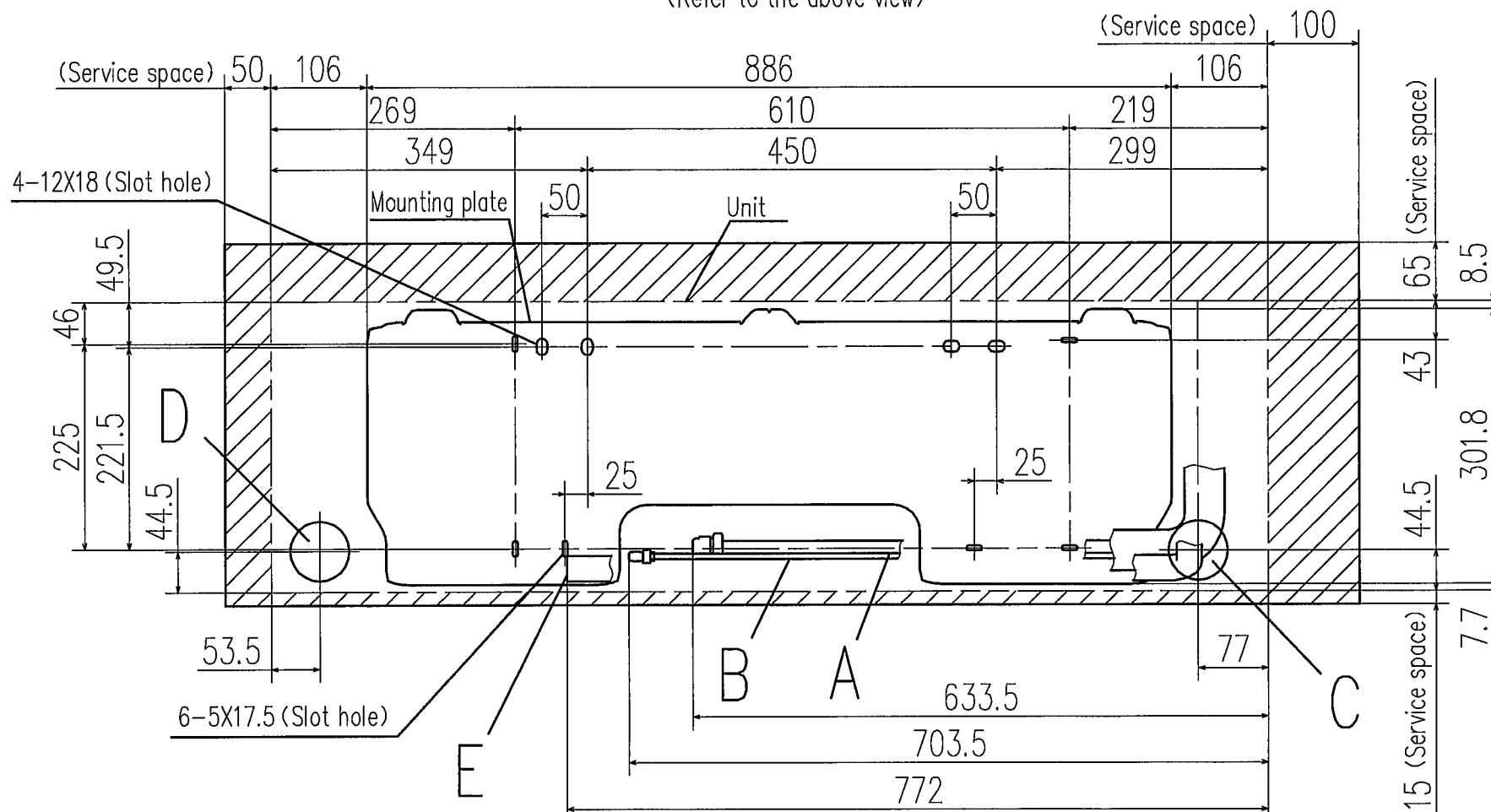
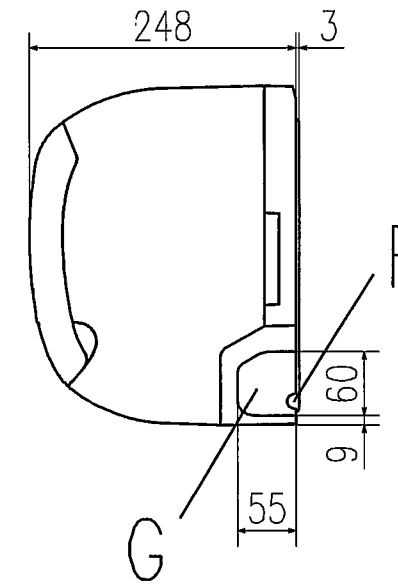
Note (1) The model name label is attached on the underside of the panel.

MODEL NAME		FDK22KXE6, 28KXE6, 36KXE6, 45KXE6, 56KXE6	
MODEL TYPE		FDK	
ISSUE	CLASSIFICATION		
	OUTLINE		
KASAHARA	DWG. NO.	REV. MARK	PAGE
071015	PHA000Z981		1/1



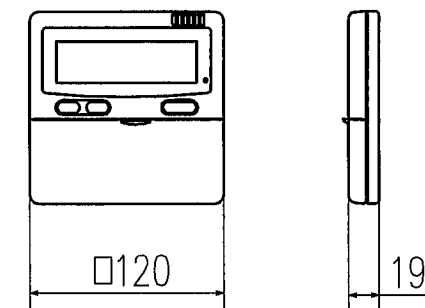
Outlet for down piping  
(Refer to the above view)

Symbol	Content	
A	Gas piping	φ15.88 (5/8") (Flare)
B	Liquid piping	φ9.52 (3/8") (Flare)
C	Hole on wall for right rear piping	(φ65)
D	Hole on wall for left rear piping	(φ65)
E	Drain piping	VP16
F	Outlet for wiring	
G	Outlet for piping (on both side)	



Space for installation and service when viewing from the front

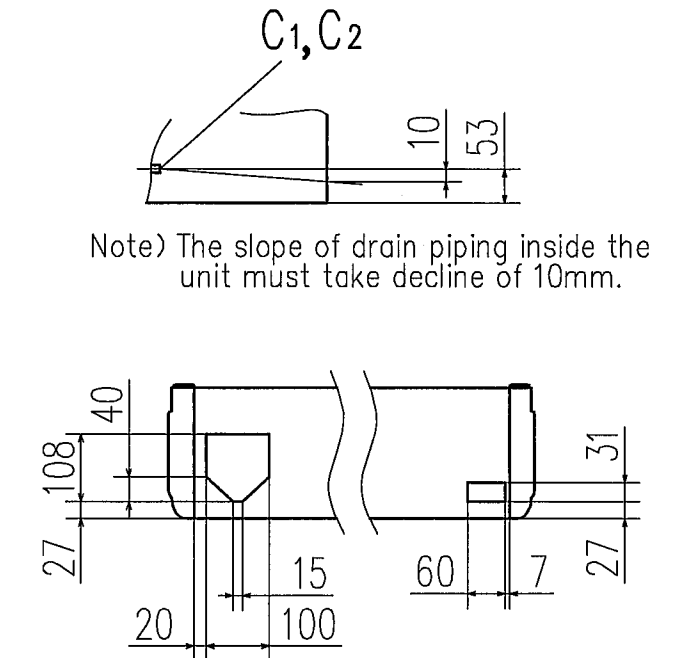
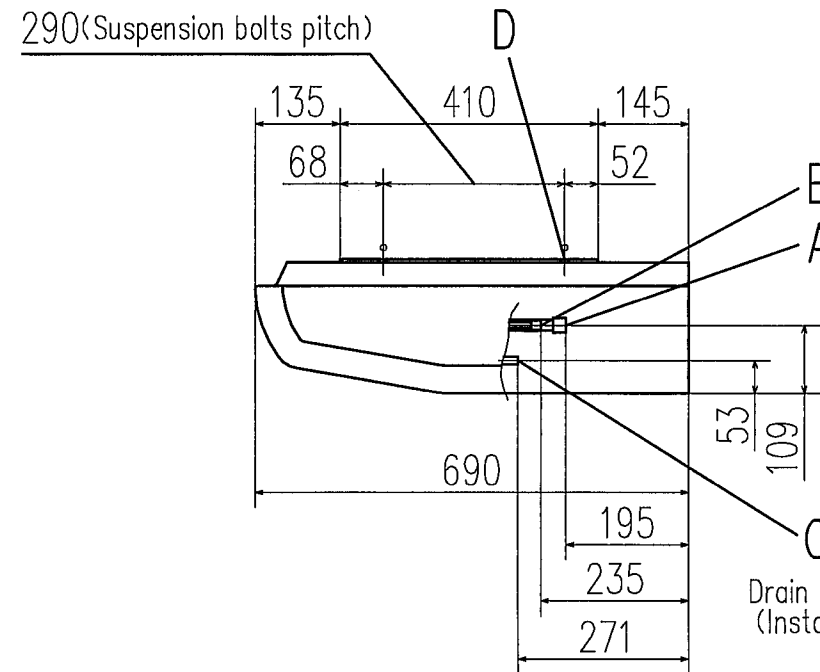
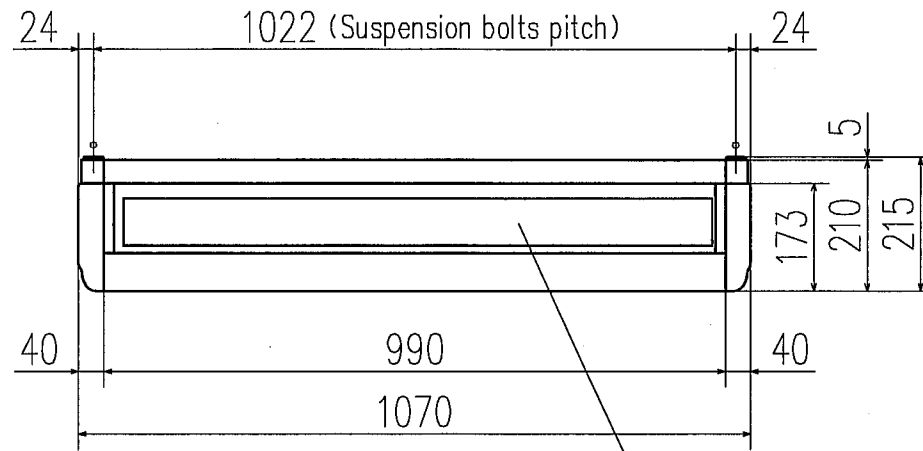
Remote controller  
(Option)



Note (1) The model name label is attached on the underside of the panel.

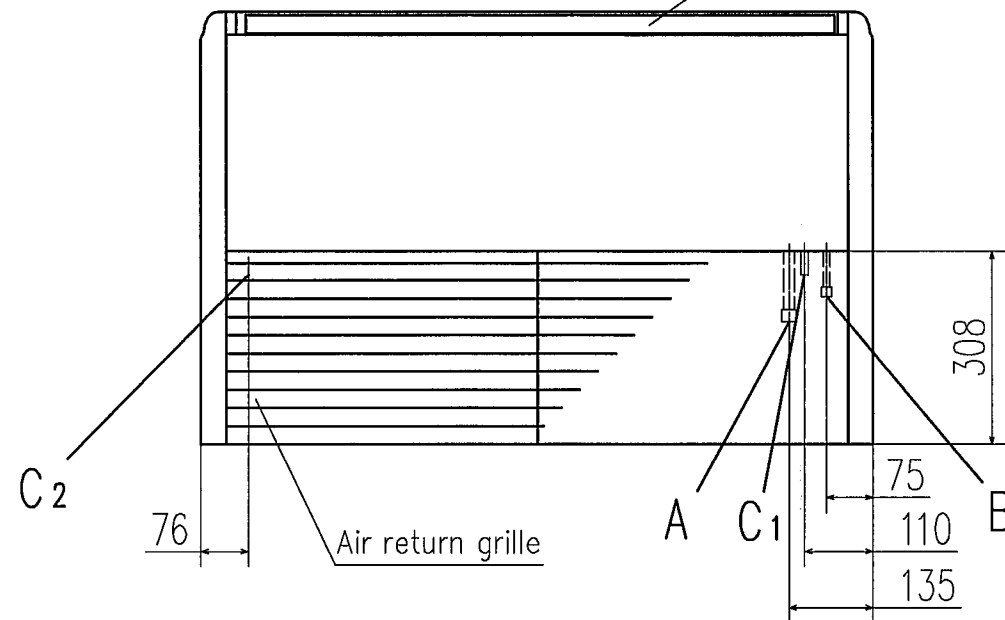
Unit: mm

MODEL NAME		FDK71KXE6	
MODEL TYPE		FDK	
ISSUE	CLASSIFICATION		
	OUTLINE		
KASAHARA	DWG NO.	REV. MARK	PAGE
071015	PHA000Z982	1/1	1/1



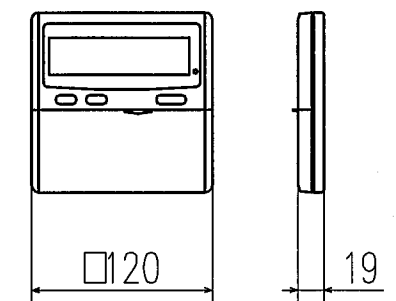
Note) The slope of drain piping inside the unit must take decline of 10mm.

Drain hose piece (Accessory, 0.3m)  
(Installed on site)

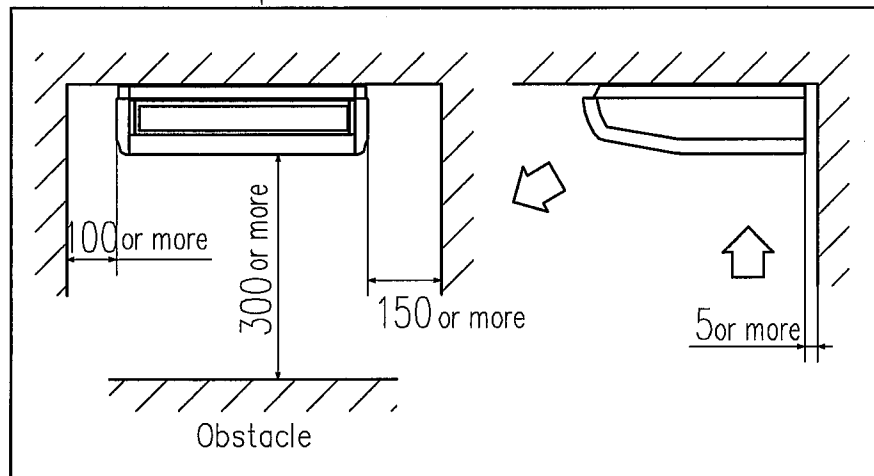


Symbol	Content	
A	Gas piping	φ12.7 (1/2") (Flare)
B	Liquid piping	φ6.35 (1/4") (Flare)
C 1,2	Drain piping	VP20
D	Hole for suspension bolt	(M10 or M8)
E	Back cutout	PE cover
F	Top cutout	Plate cover
G	Hole for drain piping (for left back)	(Knock out)

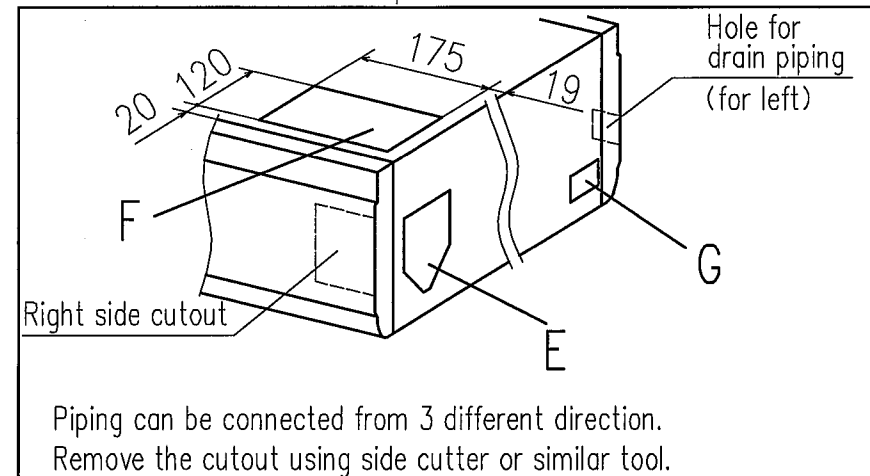
Remote controller  
(Option)



Space for installation and service



Position of top cutout and back cutout



Piping can be connected from 3 different direction.  
Remove the cutout using side cutter or similar tool.

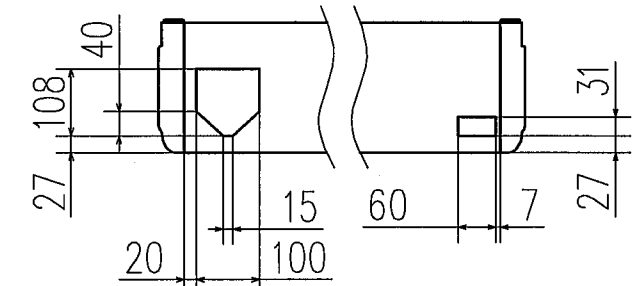
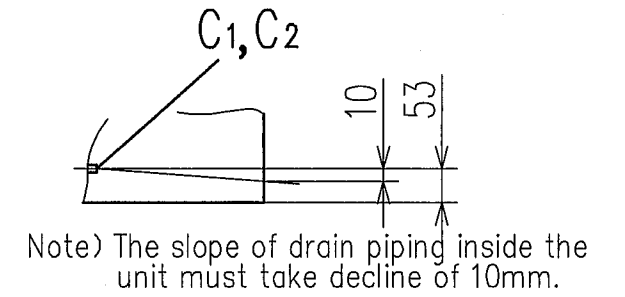
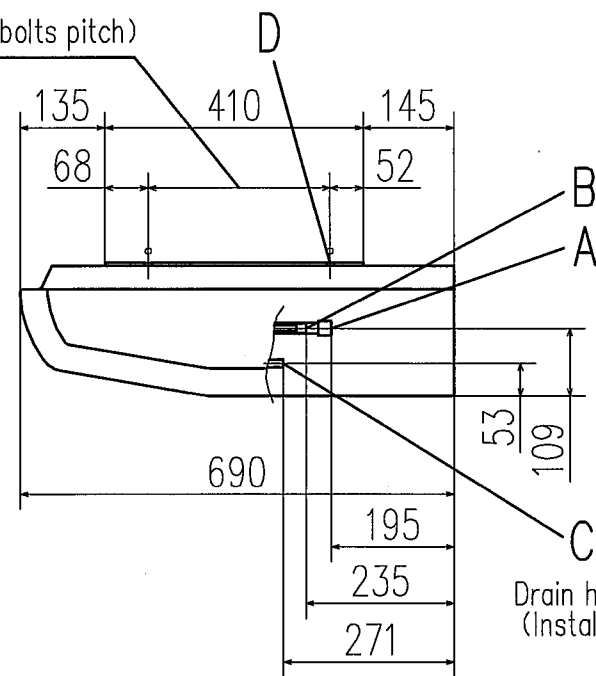
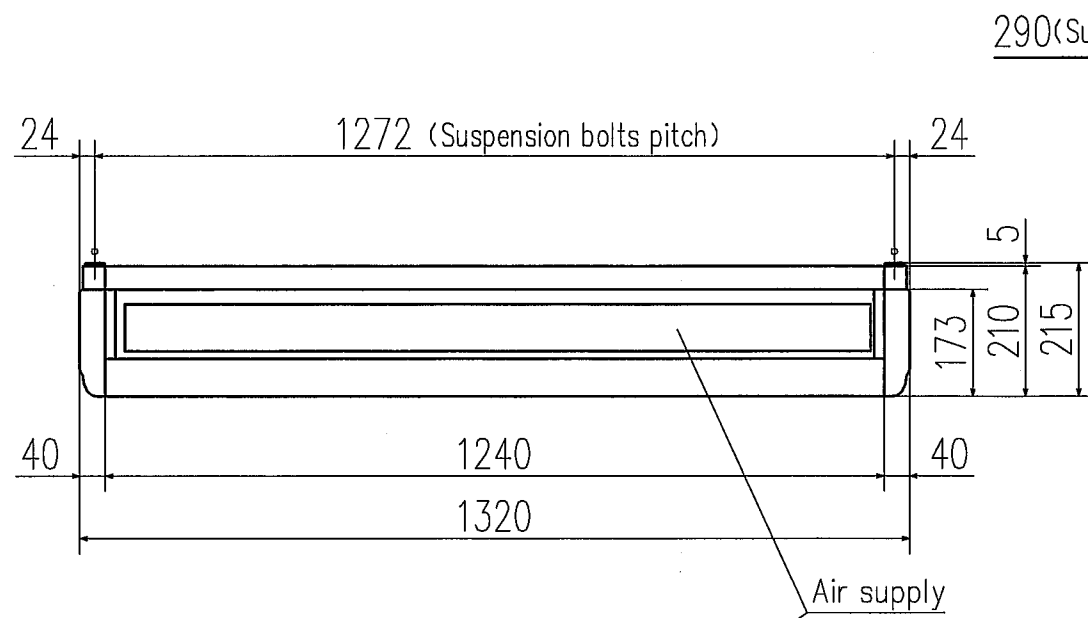
Note (1) The model name label is attached on the fan casing inside the air return grille.

Unit: mm

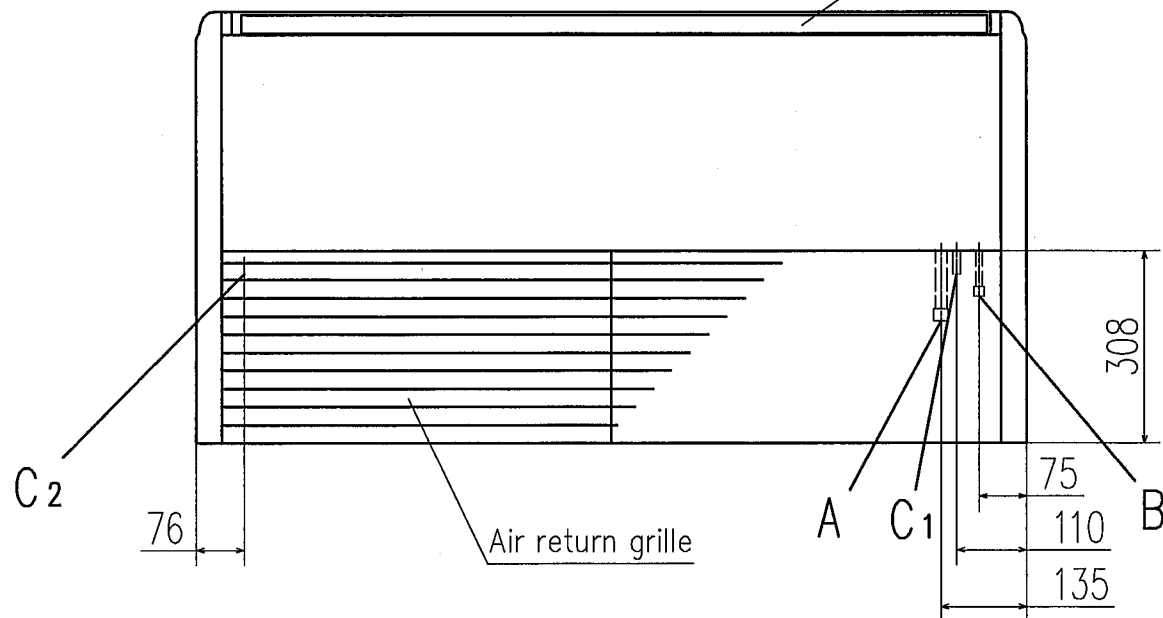
Make a space of 4000 or more between the units when installing more than one.

MODEL NAME		FDE36KXE6, 45KXE6, 56KXE6	
MODEL TYPE		FDE	
ISSUE	CLASSIFICATION		
	OUTLINE		
KASAHARA	DWG NO.	REV./MARK	PAGE
071015	PFA003Z738		1/1



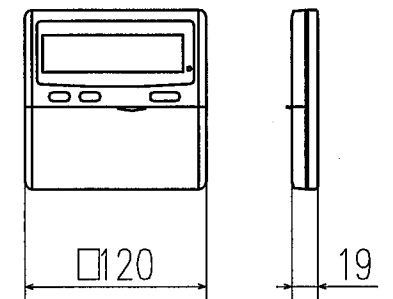


Drain hose piece (Accessory, 0.3m)  
(Installed on site)



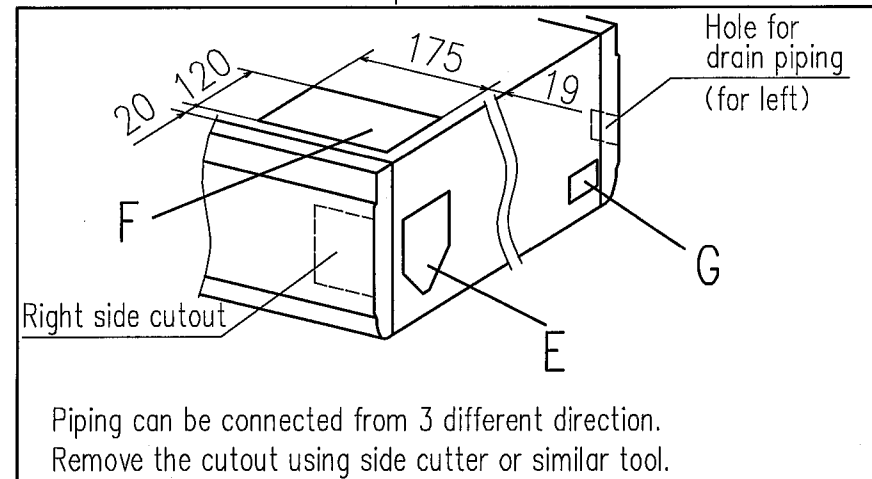
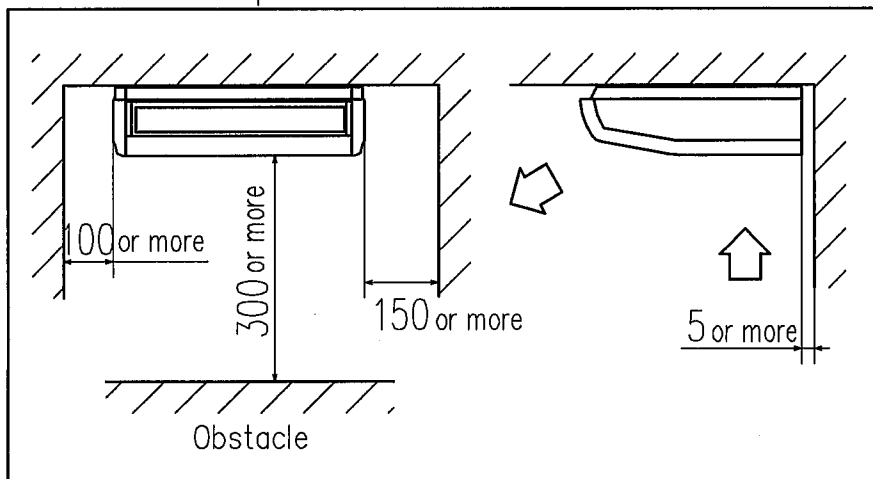
Symbol	Content	
A	Gas piping	φ15.88 (5/8") (Flare)
B	Liquid piping	φ9.52 (3/8") (Flare)
C 1,2	Drain piping	VP20
D	Hole for suspension bolt	(M10 or M8)
E	Back cutout	PE cover
F	Top cutout	Plate cover
G	Hole for drain piping (for left back)	(Knock out)

Remote controller  
(Option)



Space for installation and service

Position of top cutout and back cutout



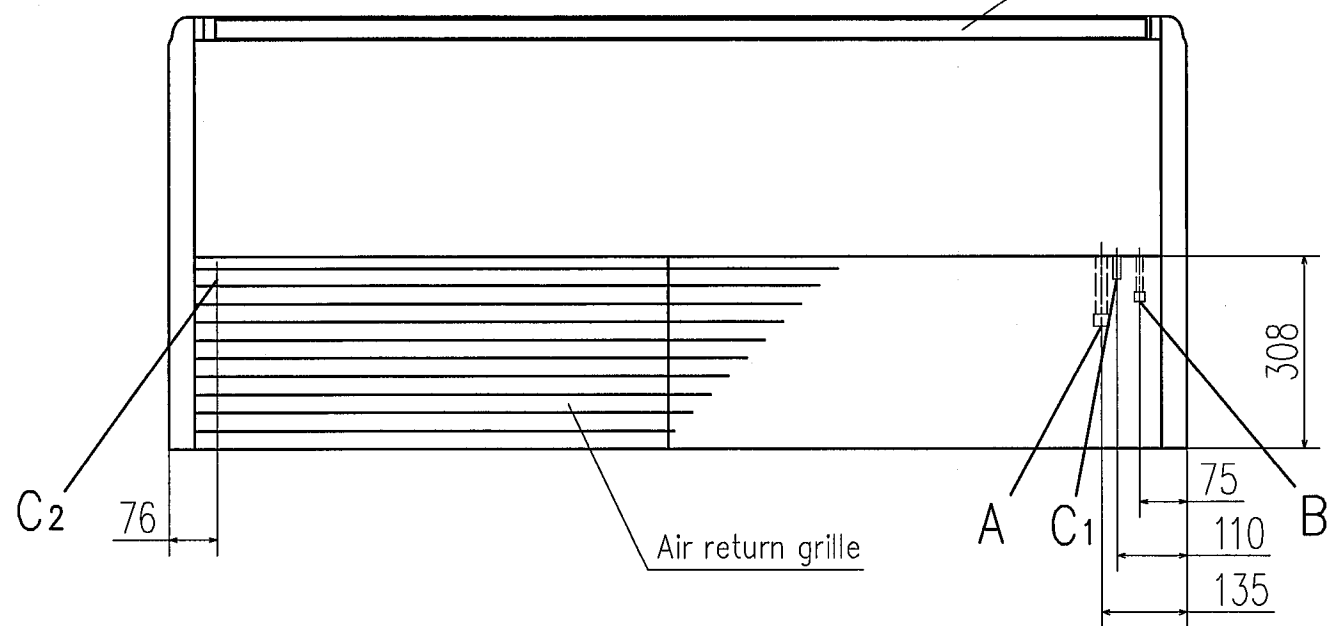
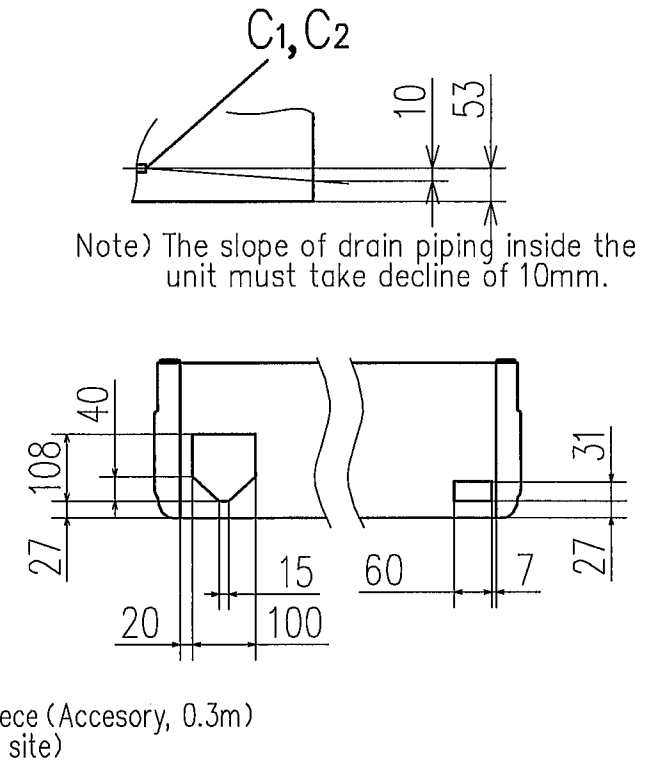
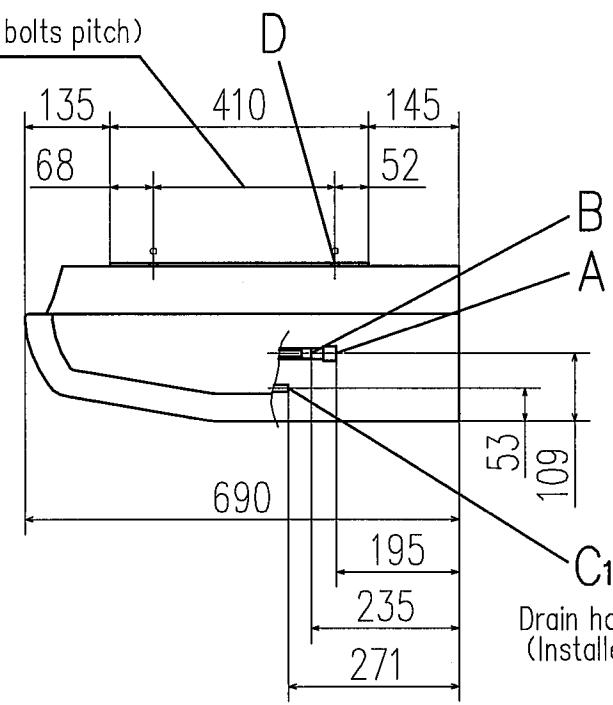
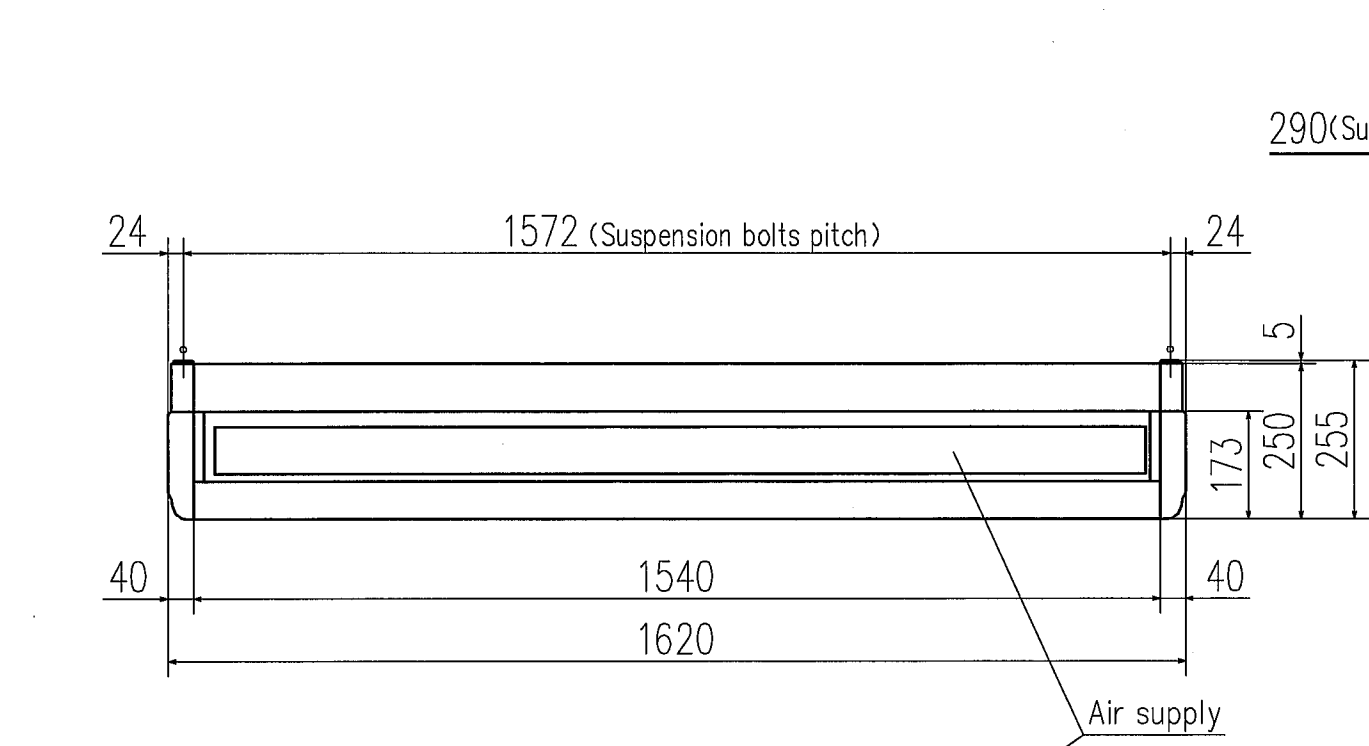
Note (1) The model name label is attached on the fan casing inside the air return grille.

Unit: mm

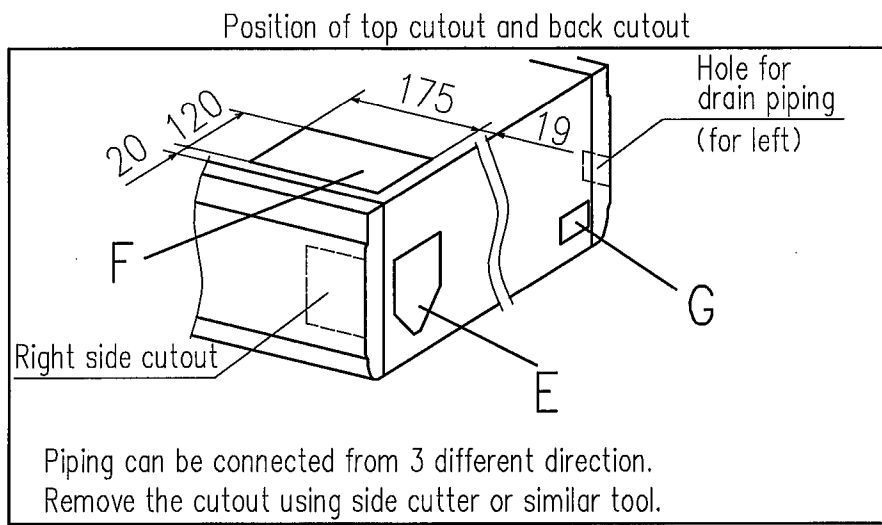
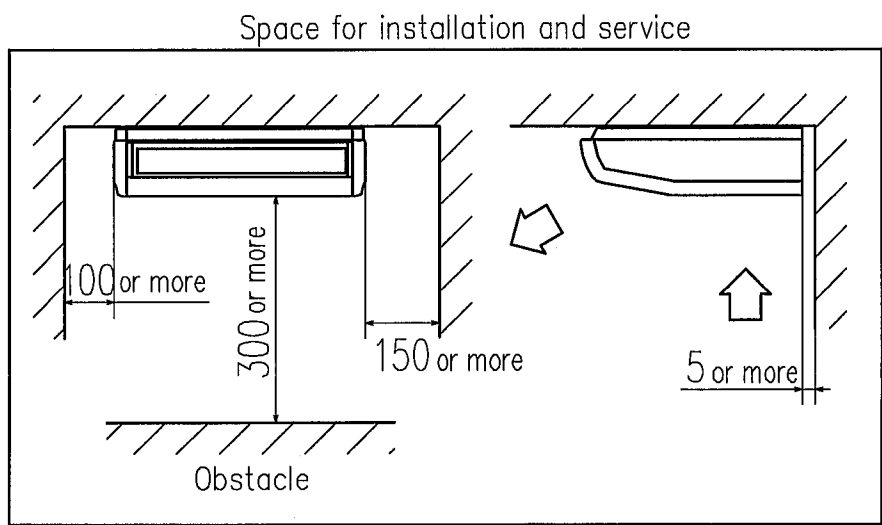
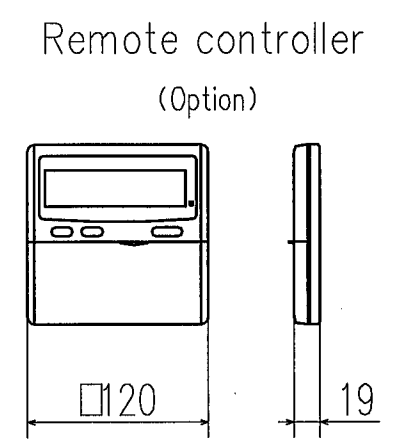
Piping can be connected from 3 different direction.  
Remove the cutout using side cutter or similar tool.

MODEL NAME		FDE71KXE6	
MODEL TYPE		FDE	
ISSUE	CLASSIFICATION		
KASAHARA	OUTLINE		
DWG NO.	REV. MARK	PAGE	
071015	PFA003Z739	1/1	

Make a space of 4500 or more between the units when installing more than one.



Symbol	Content	
A	Gas piping	φ15.88 (5/8") (Flare)
B	Liquid piping	φ9.52 (3/8") (Flare)
C1,2	Drain piping	VP20
D	Hole for suspension bolt	(M10 or M8)
E	Back cutout	PE cover
F	Top cutout	Plate cover
G	Hole for drain piping (for left back)	(Knock out)

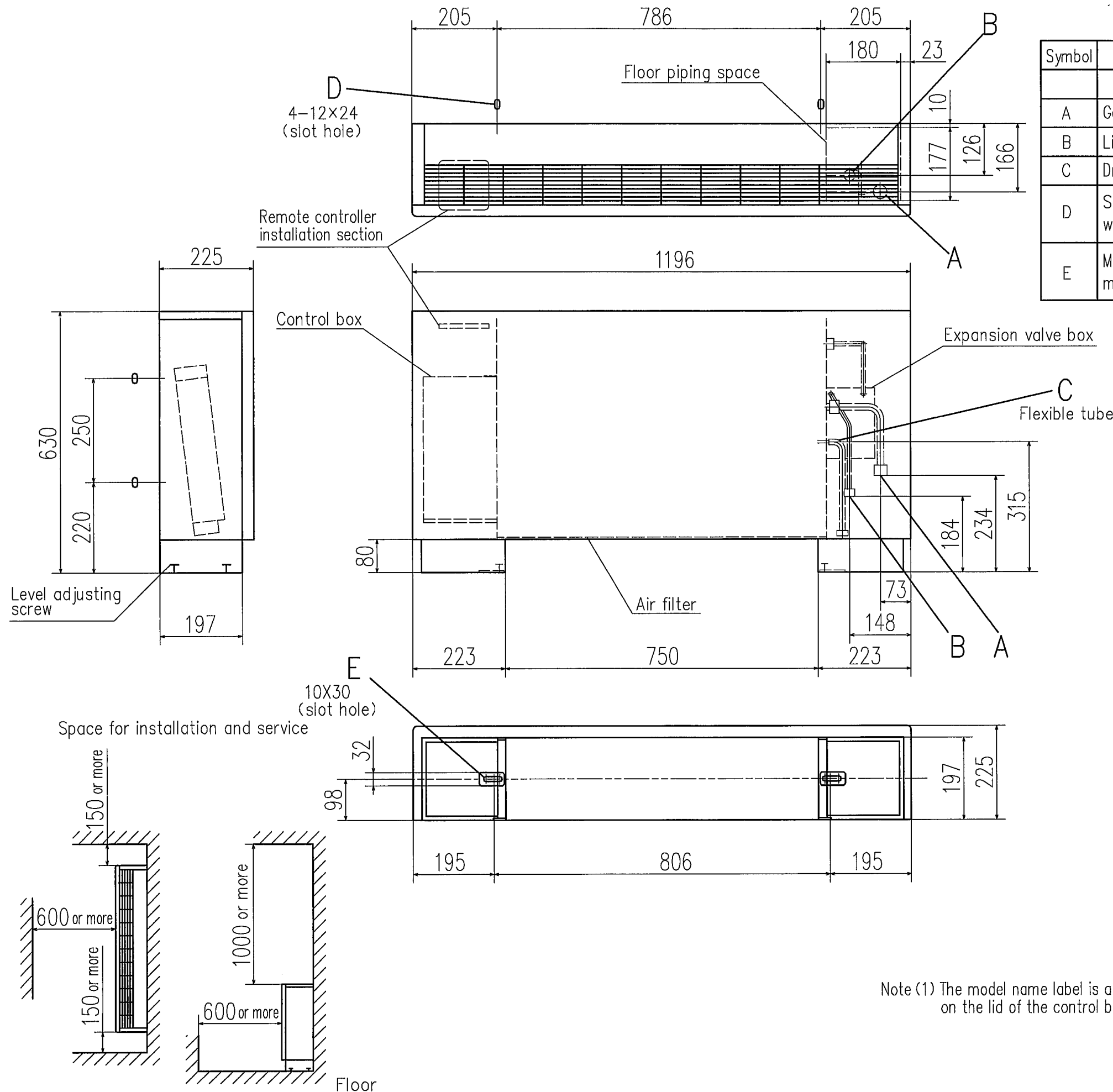


Note (1) The model name label is attached on the fan casing inside the air return grille.

Unit: mm

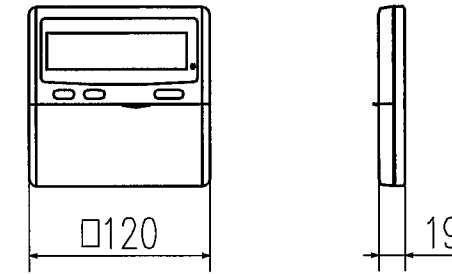
Make a space of 5000 or more between the units when installing more than one.

MODEL NAME		FDE112KXE6, 140KXE6	
MODEL TYPE		FDE	⊙
ISSUE	CLASSIFICATION		
	OUTLINE		
KASAHARA	DWG. NO.	REV. MARK	PAGE
071015	PFA003Z740		1/1



Symbol	Content		
	Model	FDFL28KXE6	FDFL45KXE6
A	Gas piping (Accessory)	φ9.52 (3/8") (Flare)	φ12.7 (1/2") (Flare)
B	Liquid piping	φ6.35 (1/4") (Flare)	
C	Drain piping (Accessory)	PT20A female screw, 360mm	
D	Slot hole for wall mounting	(M10)	
E	Metal plate for floor mounting (Accessory)	(M8)	

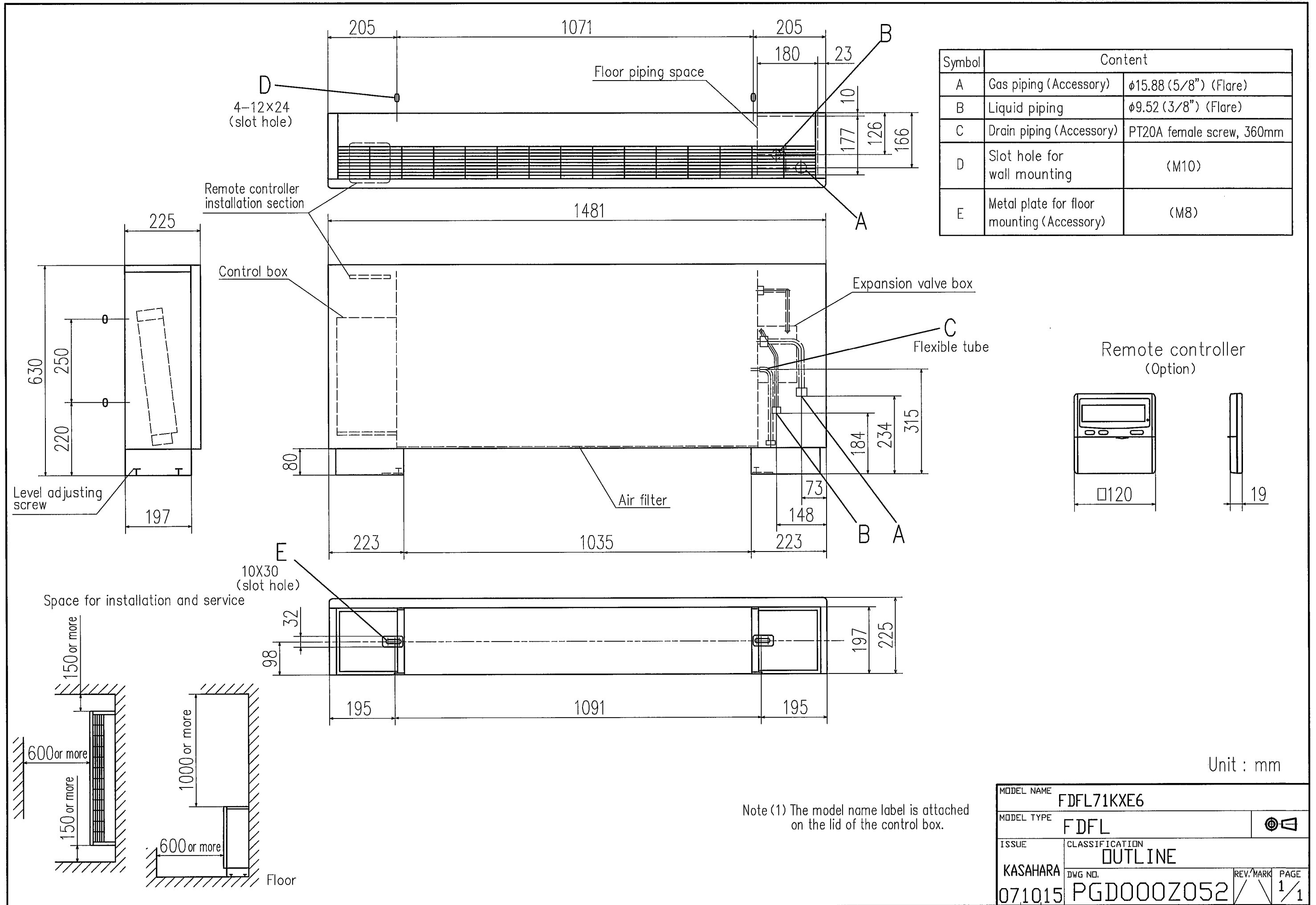
Remote controller (Option)



Unit : mm

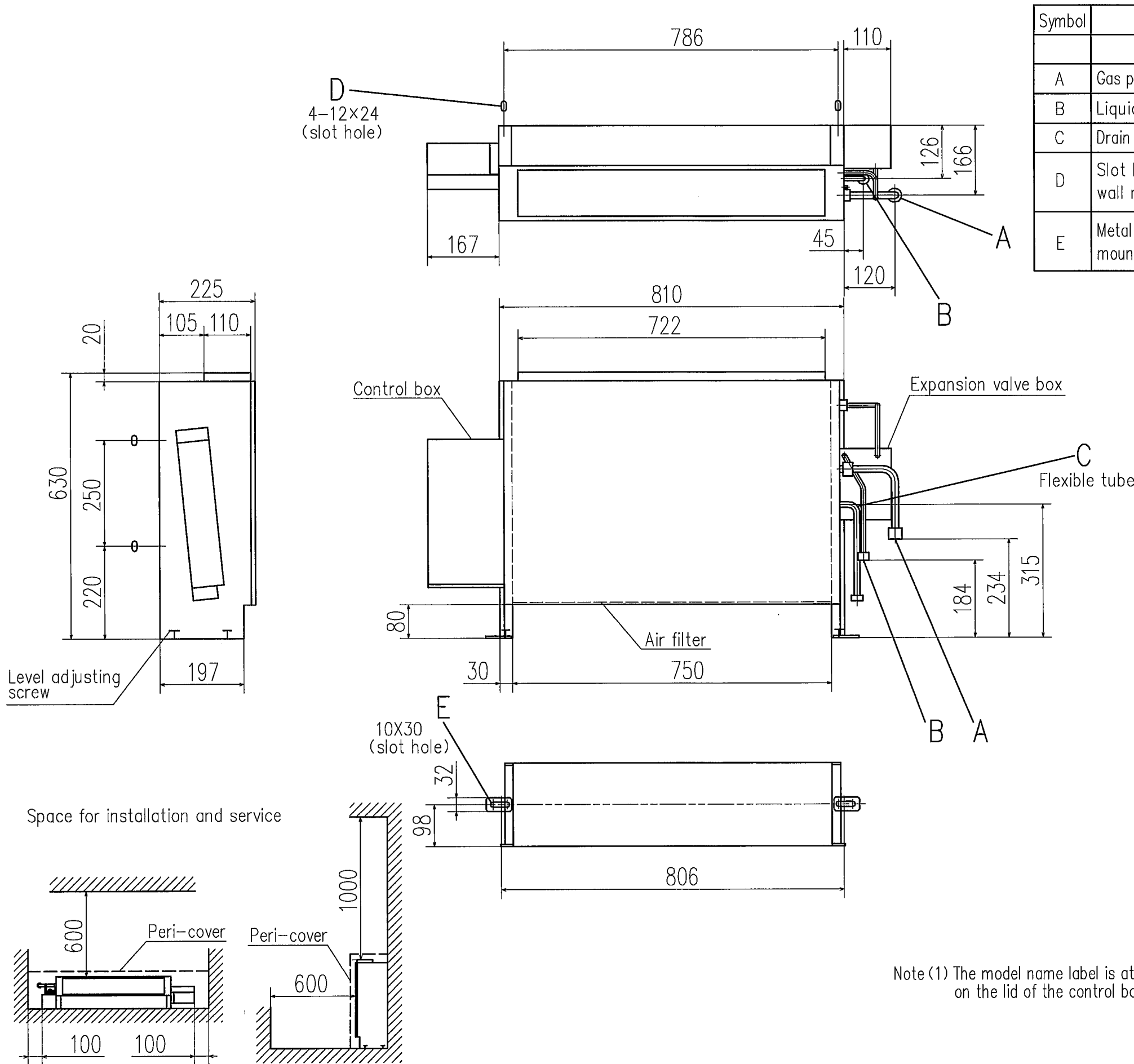
Note (1) The model name label is attached on the lid of the control box.

MODEL NAME		FDFL28KXE6, 45KXE6	
MODEL TYPE		FDFL	⊙
ISSUE	CLASSIFICATION		
	OUTLINE		
KASAHARA	DWG NO.	REV./MARK	PAGE
07.10.15	PGD000Z051		1/1



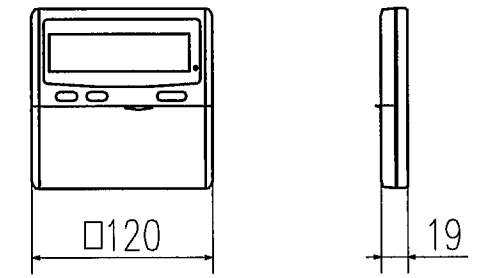
Note (1) The model name label is attached on the lid of the control box.

MODEL NAME		FDFL71KXE6	
MODEL TYPE		FDFL	
ISSUE	CLASSIFICATION		
KASAHARA	OUTLINE		
DWG NO.	REV. MARK	PAGE	
071015	PGD000Z052	1/1	



Symbol	Content		
	Model	FDU28KXE6	FDU45KXE6,56KXE6
A	Gas piping (Accessory)	φ9.52 (3/8") (Flare)	φ12.7 (1/2") (Flare)
B	Liquid piping	φ6.35 (1/4") (Flare)	
C	Drain piping (Accessory)	PT20A female screw, 360mm	
D	Slot hole for wall mounting	(M10)	
E	Metal plate for floor mounting (Accessory)	(M8)	

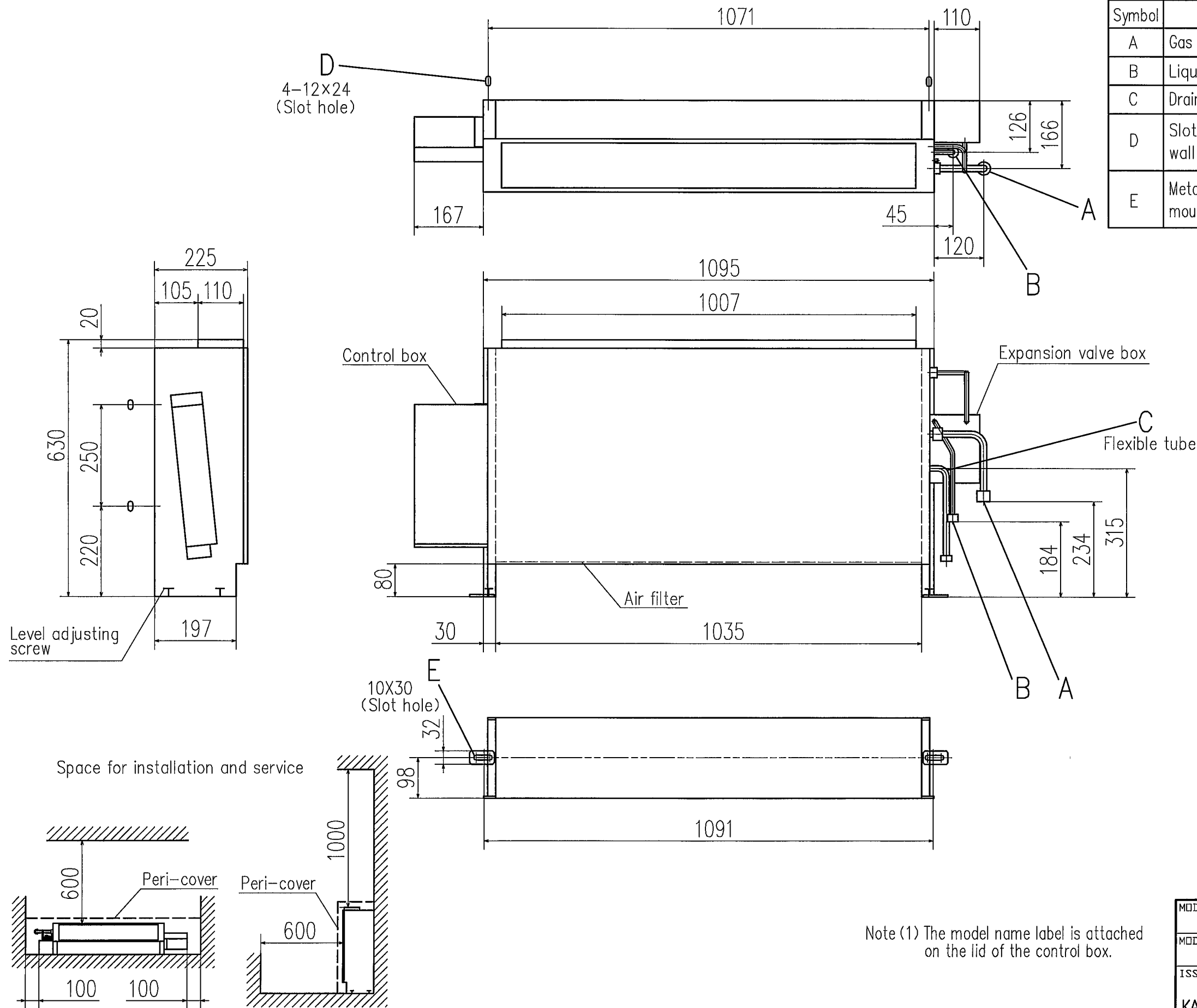
Remote controller (Option)



Unit : mm

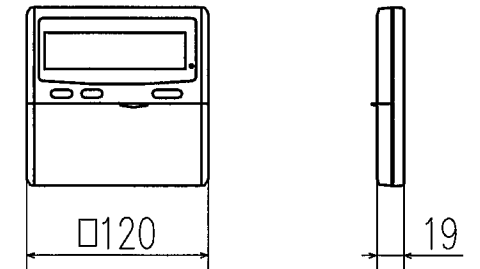
Note (1) The model name label is attached on the lid of the control box.

MODEL NAME		FDU28KXE6, 45KXE6, 56KXE6	
MODEL TYPE		FDU	
ISSUE	CLASSIFICATION		
	OUTLINE		
KASAHARA	DWG NO.	REV./MARK	PAGE
071015	PGD000Z056		1/1



Symbol	Content	
A	Gas piping (Accessory)	φ15.88 (5/8") (Flare)
B	Liquid piping	φ9.52 (3/8") (Flare)
C	Drain piping (Accessory)	PT20A female screw, 360mm
D	Slot hole for wall mounting	(M10)
E	Metal plate for floor mounting (Accessory)	(M8)

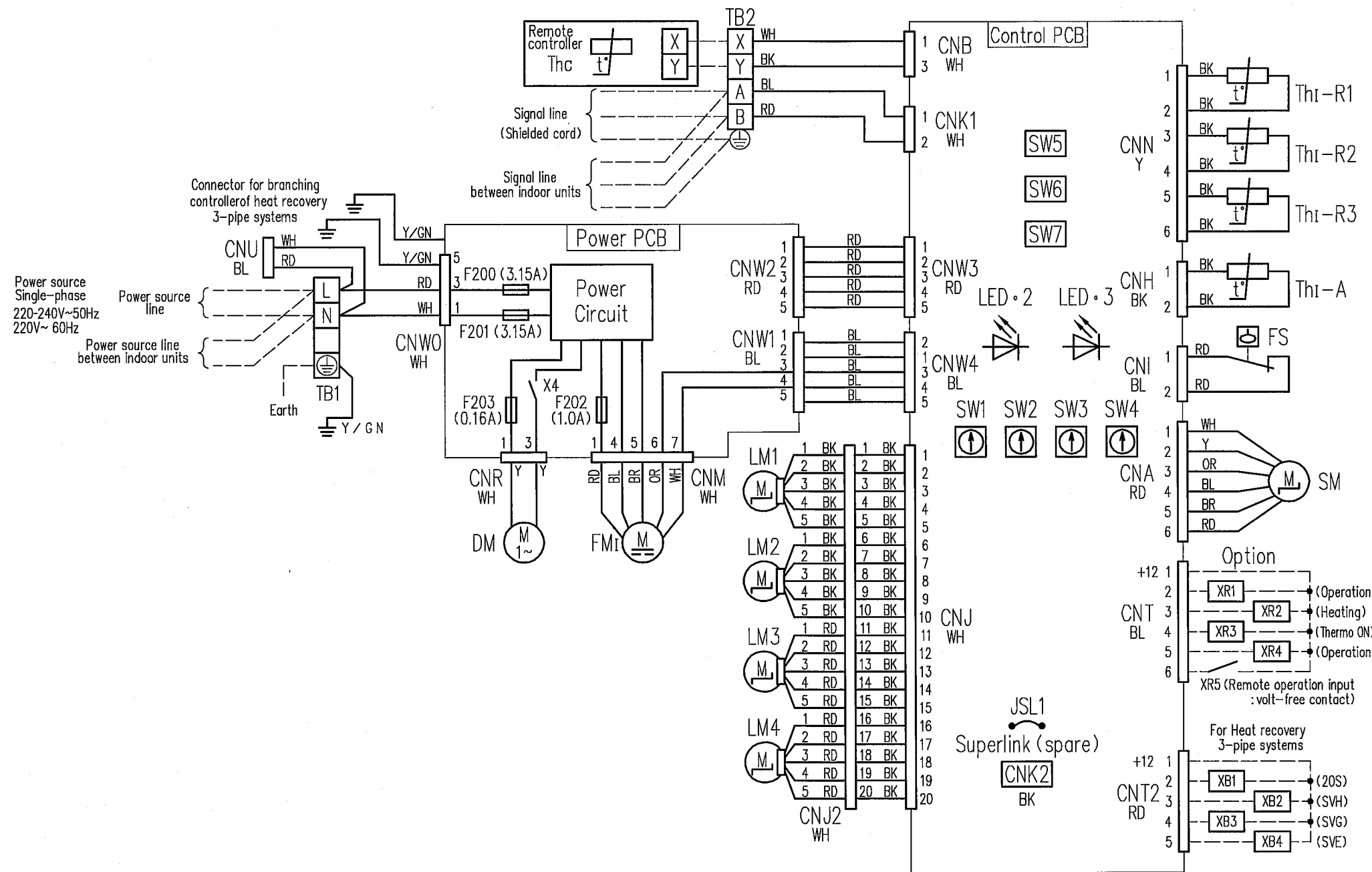
Remote controller (Option)



Unit : mm

Note (1) The model name label is attached on the lid of the control box.

MODEL NAME		FDU71KXE6	
MODEL TYPE		FDU	
ISSUE	CLASSIFICATION		
	OUTLINE		
KASAHARA	DWG NO.	REV./MARK	PAGE
071015	PGD000Z057		1/1



CNA~Z	Connector
DM	Drain motor
F200-203	Fuse
FMI	Fan motor
FS	Float switch
JSL1	Live Superlink terminal setting (for spare)
LED·2	Indication lamp (Green-Normal operation)
LED·3	Indication lamp (Red-Inspection)
LM1~4	Louver motor
SM	Stepping motor (for electronic expansion valve)
SW1	Indoor unit address : tens place
SW2	Indoor unit address : ones place
SW3	Outdoor unit address : tens place
SW4	Outdoor unit address : ones place
SW5-1	Automatic adjustment/Fixed previous version of Superlink protocol
SW5-2	Indoor unit address : hundreds place
SW6	Model capacity setting
SW7-1	Operation check, Drain motor test run
TB1	Terminal block (Power source) (□mark)
TB2	Terminal block (Signal line) (□mark)
Thc	Thermistor (Remote controller)
ThI-A	Thermistor (Return air)
ThI-R1,2,3	Thermistor (Heat exchanger)
X4	Relay for DM
■mark	Closed-end connector

Notes

- indicates wiring on site.
- Use twin core cord (0.75~1.25mm<sup>2</sup>) at signal line between indoor unit and outdoor unit, and signal line between indoor units.
- Use twin core cord (0.3mm<sup>2</sup>) at remote controller line.  
See spec sheet of remote controller in case that the total length is more than 100m.
- Do not put signal line and remote controller line alongside power source line.

Color Marks

Mark	Color	Mark	Color
BK	Black	RD	Red
BL	Blue	WH	White
BR	Brown	Y	Yellow
OR	Orange	Y/GN	Yellow/Green

MODEL NAME FDT28KXE6 , 36KXE6 , 45KXE6 , 56KXE6 , 71KXE6 , 90KXE6 , 112KXE6 , 140KXE6 , 160KXE6			
MODEL TYPE	FDT	PANEL	T-PSA-36W-E
ISSUE	CLASSIFICATION WIRING DIAGRAM		
KASAHARA	DWG NO.	REV. MARK	PAGE
071015	PJF000Z053	/A	1/1

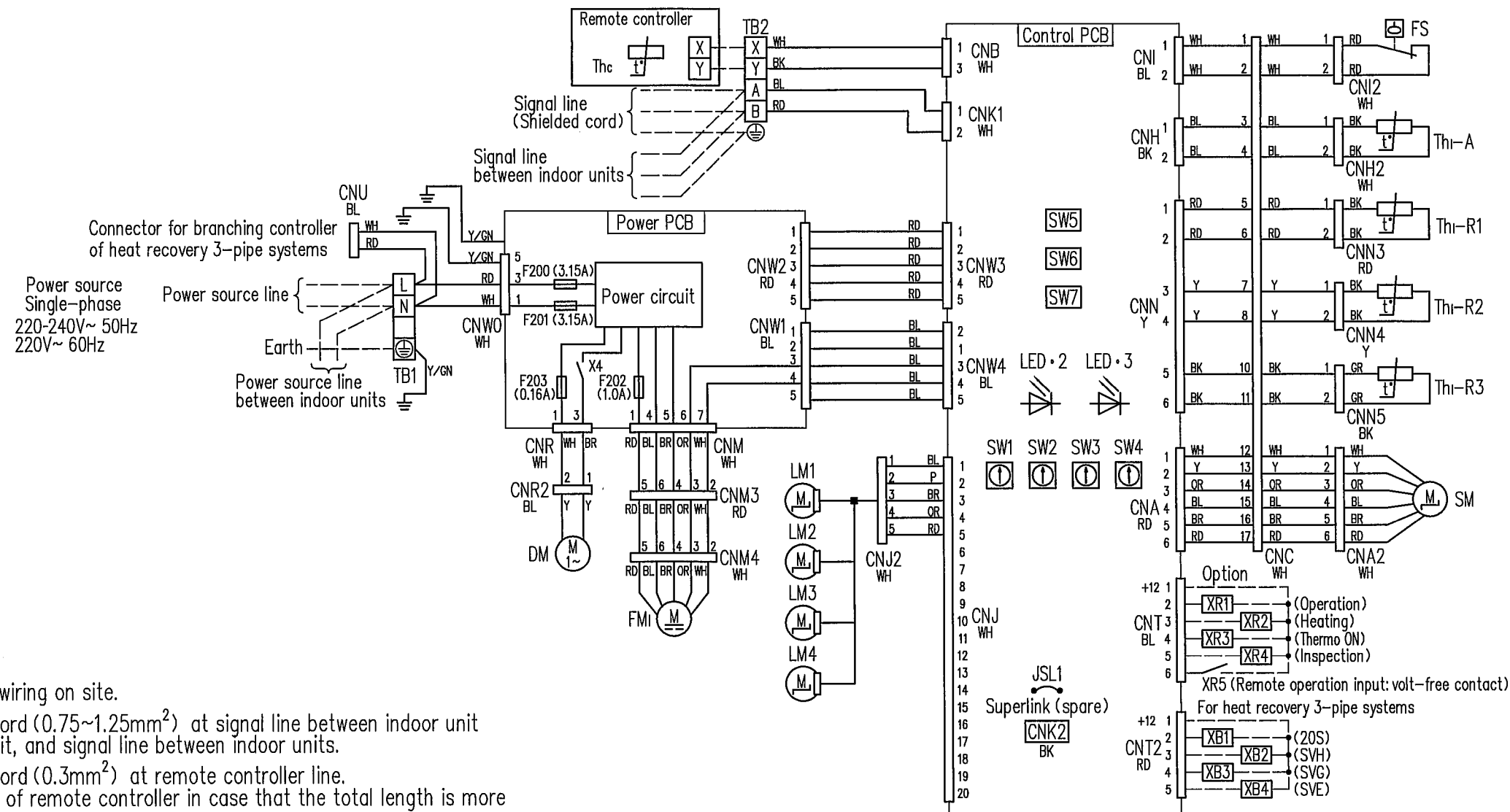
CNA~Z	Connector
DM	Drain motor
F200~203	Fuse
FM <sub>i</sub>	Fan motor
FS	Float switch
JSL1	Live Superlink terminal setting (for spare)
LED•2	Indication lamp (Green-Normal operation)
LED•3	Indication lamp (Red-Inspection)
LM1~4	Louver motor

SM	Stepping motor (For electronic expansion valve)
SW1	Indoor unit address : tens place
SW2	Indoor unit address : ones place
SW3	Outdoor unit address : tens place
SW4	Outdoor unit address : ones place
SW5-1	Automatic adjustment/Fixed previous version of Superlink protocol
SW5-2	Indoor unit address : hundreds place
SW6	Model capacity setting

SW7-1	Operation check, Drain motor test run
TB1	Terminal block (Power source) (□ mark)
TB2	Terminal block (Signal line) (□ mark)
Thc	Thermistor (Remote controller)
Th <sub>i</sub> -A	Thermistor (Return air)
Th <sub>i</sub> -R1, 2, 3	Thermistor (Heat exchanger)
X4	Relay for DM
■ mark	Closed-end connector

Color Marks

Mark	Color
BK	Black
BL	Blue
BR	Brown
GR	Gray
OR	Orange
P	Pink
RD	Red
WH	White
Y	Yellow
Y/GN	Yellow/Green



Notes

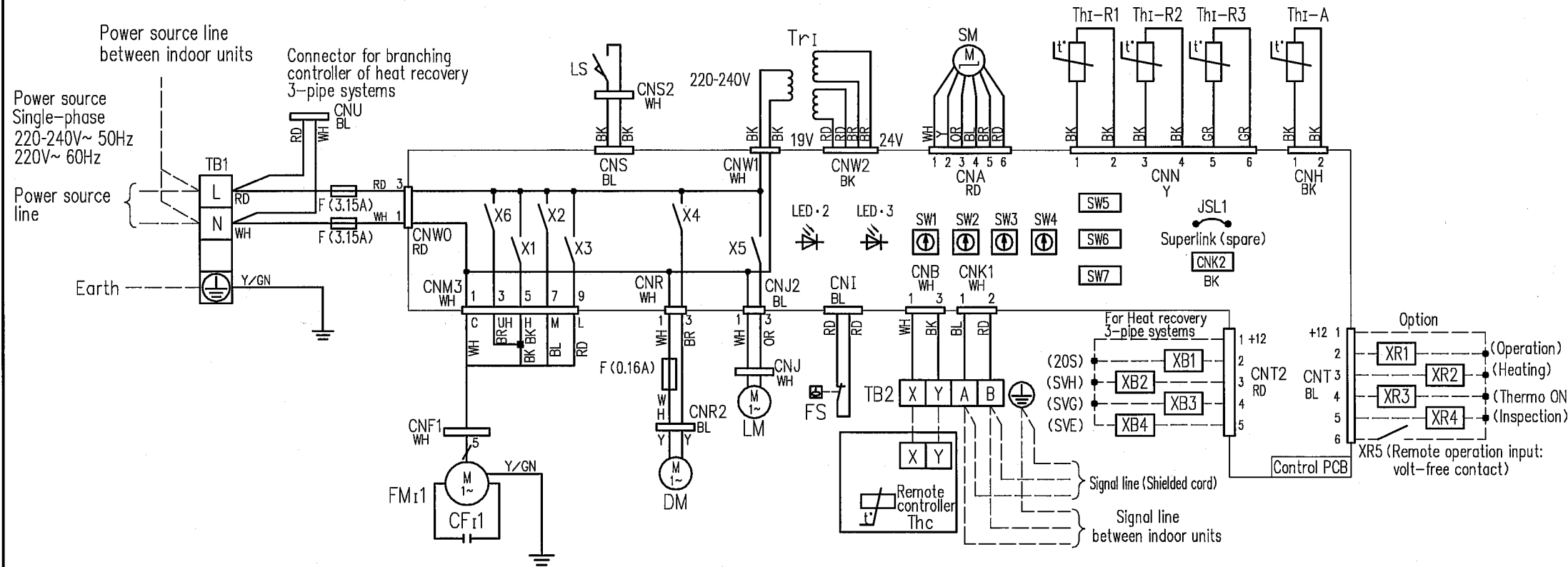
- indicates wiring on site.
- Use twin core cord (0.75~1.25mm<sup>2</sup>) at signal line between indoor unit and outdoor unit, and signal line between indoor units.
- Use twin core cord (0.3mm<sup>2</sup>) at remote controller line. See spec sheet of remote controller in case that the total length is more than 100m.
- Do not put signal line and remote controller line alongside power source line.

MODEL NAME		FDTC22KXE6, 28KXE6, 36KXE6, 45KXE6, 56KXE6	
MODEL TYPE	FDTC	PANEL	T-PSA-24W-ER
ISSUE	CLASSIFICATION		
KASAHARA	WIRING DIAGRAM		
071015	DWG NO.	REV. MARK	PAGE
	PJA003Z331		1/1



Color Marks

Mark	Color
BK	Black
BL	Blue
BR	Brown
GR	Gray
OR	Orange
RD	Red
WH	White
Y	Yellow
Y/GN	Yellow/Green



CF I 1	Capacitor for FMi
CNA~Z	Connector
DM	Drain motor
F	Fuse
FM I 1	Fan motor (with thermostat)
FS	Float switch
JSL1	Live Superlink terminal setting (for spare)
LED • 2	Indication lamp (Green-Normal operation)
LED • 3	Indication lamp (Red-Inspection)
LM	Louver motor
LS	Louver switch
SM	Stepping motor (for electronic expansion valve)
SW1	Indoor unit address: tens place
SW2	Indoor unit address: ones place
SW3	Outdoor unit address: tens place
SW4	Outdoor unit address: ones place
SW5-1	Automatic adjustment/Fixed previous version of Superlink protocol
SW5-2	Indoor unit address: hundreds place
SW6	Model capacity setting
SW7-1	Operation check, Drain motor test run
TB1	Terminal block (Power source) (□mark)
TB2	Terminal block (Signal line) (□mark)
Thc	Thermistor (Remote controller)
Th I-A	Thermistor (Return air)
Th I-R1, 2, 3	Thermistor (Heat exchanger)
TrI	Transformer
X1~3,6	Relay for FM
X4	Relay for DM
X5	Relay for LM

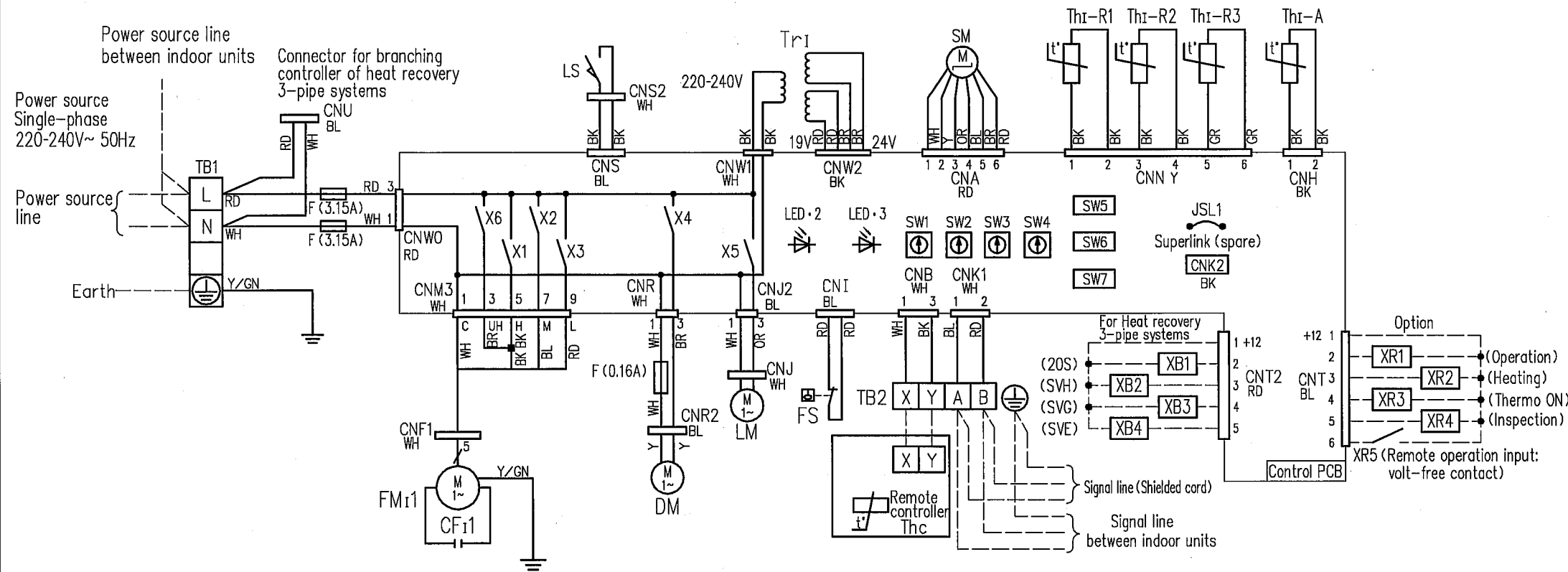
Notes 1. — indicates wiring on site.

2. Use twin core cable (0.75~1.25mm<sup>2</sup>) at signal line between indoor unit and outdoor unit, and signal line between indoor units.
3. Use twin core cable (0.3mm<sup>2</sup>) at remote controller line. See spec sheet of remote controller in case that the total length is more than 100m.
4. Do not put signal line and remote controller line alongside power source line.

MODEL NAME		FDTW28KXE6, 45KXE6, 56KXE6	
MODEL TYPE	FDTW	PANEL	TW-PSA-24W-E
ISSUE	CLASSIFICATION		
	WIRING DIAGRAM		
KASAHARA	DWG NO.	REV./MARK	PAGE
071026	PJB001Z560	/A	1/1

Color Marks

Mark	Color
BK	Black
BL	Blue
BR	Brown
GR	Gray
OR	Orange
RD	Red
WH	White
Y	Yellow
Y/GN	Yellow/Green



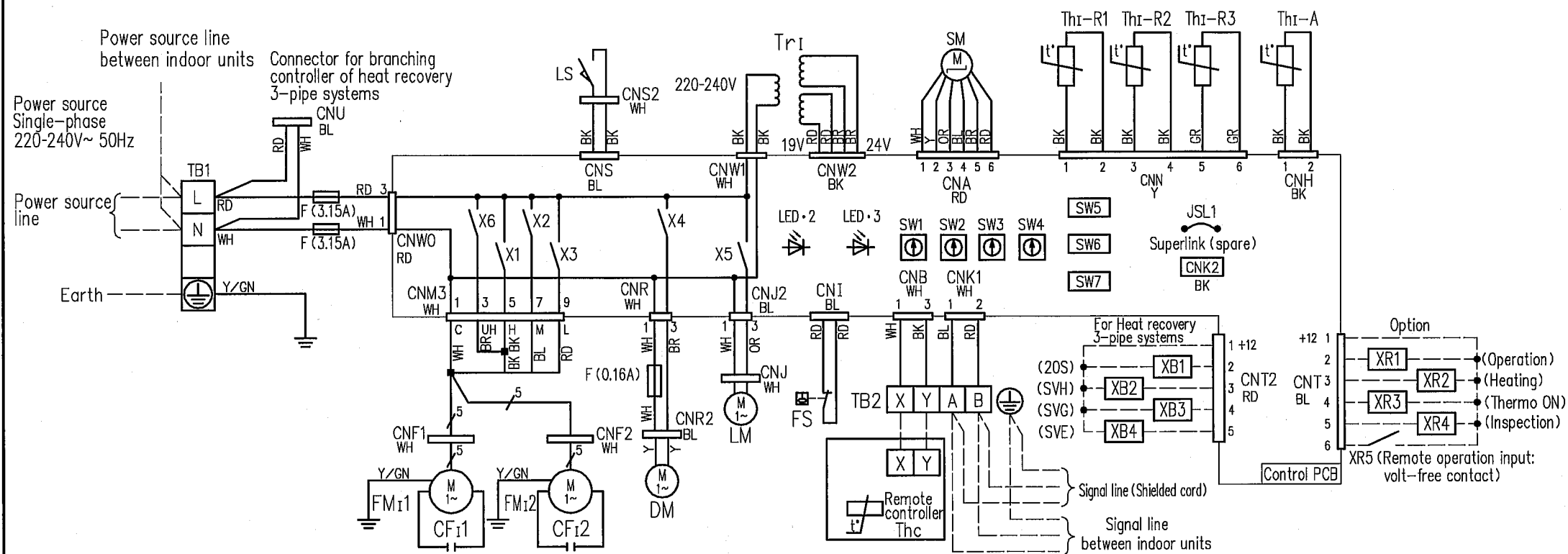
CF I 1	Capacitor for FMI
CNA~Z	Connector
DM	Drain motor
F	Fuse
FM I 1	Fan motor (with thermostat)
FS	Float switch
JSL1	Live Superlink terminal setting (for spare)
LED·2	Indication lamp (Green-Normal operation)
LED·3	Indication lamp (Red-Inspection)
LM	Louver motor
LS	Louver switch
SM	Stepping motor (for electronic expansion valve)
SW1	Indoor unit address: tens place
SW2	Indoor unit address: ones place
SW3	Outdoor unit address: tens place
SW4	Outdoor unit address: ones place
SW5-1	Automatic adjustment/Fixed previous version of Superlink protocol
SW5-2	Indoor unit address: hundreds place
SW6	Model capacity setting
SW7-1	Operation check, Drain motor test run
TB1	Terminal block (Power source) (□mark)
TB2	Terminal block (Signal line) (□mark)
Thc	Thermistor (Remote controller)
Th I-A	Thermistor (Return air)
Th I-R1, 2, 3	Thermistor (Heat exchanger)
Tr1	Transformer
X1~3,6	Relay for FM
X4	Relay for DM
X5	Relay for LM

- Notes
1. — indicates wiring on site.
  2. Use twin core cable (0.75~1.25mm<sup>2</sup>) at signal line between indoor unit and outdoor unit, and signal line between indoor units.
  3. Use twin core cable (0.3mm<sup>2</sup>) at remote controller line. See spec sheet of remote controller in case that the total length is more than 100m.
  4. Do not put signal line and remote controller line alongside power source line.

MODEL NAME		FDTW71KXE6, 90KXE6	
MODEL TYPE	FDTW	PANEL	TW-PSA-34W-E
ISSUE	CLASSIFICATION		
	WIRING DIAGRAM		
KASAHARA	DWG NO.	REV./MARK	PAGE
071026	PJB001Z561	/A	1/1

Color Marks

Mark	Color
BK	Black
BL	Blue
BR	Brown
GR	Gray
OR	Orange
RD	Red
WH	White
Y	Yellow
Y/GN	Yellow/Green

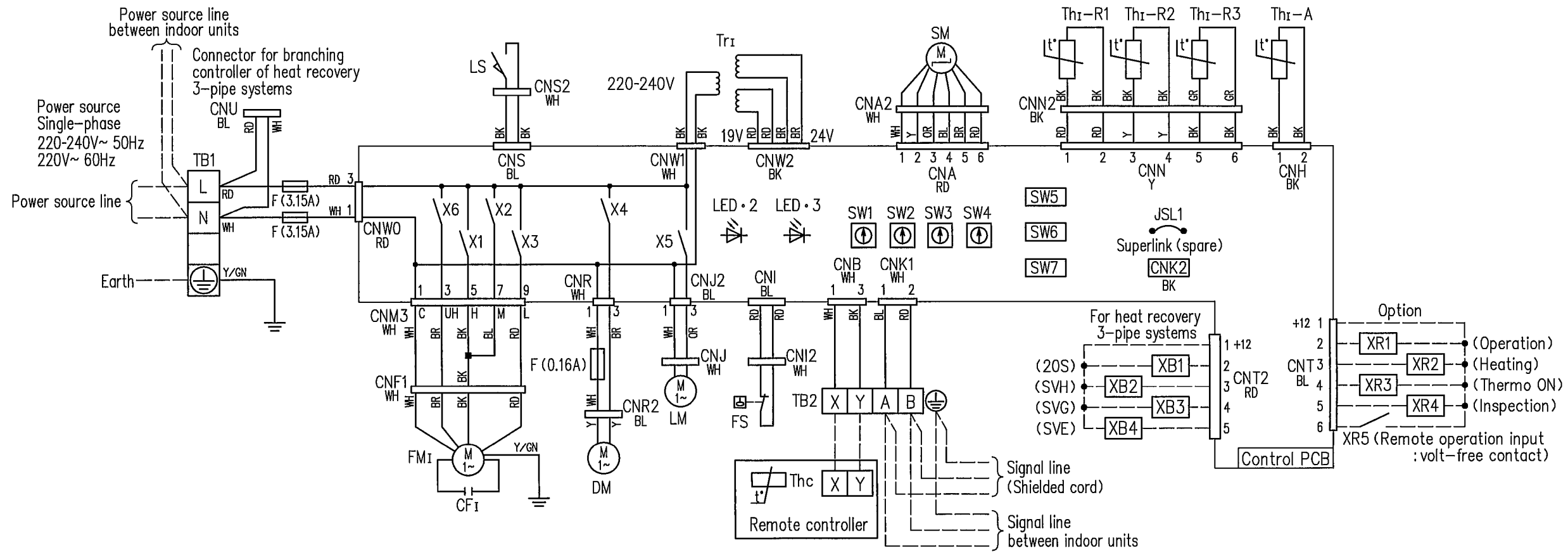


CF I1,2	Capacitor for FMI
CNA~Z	Connector
DM	Drain motor
F	Fuse
FM I1,2	Fan motor (with thermostat)
FS	Float switch
JSL1	Live Superlink terminal setting (for spare)
LED·2	Indication lamp (Green-Normal operation)
LED·3	Indication lamp (Red-Inspection)
LM	Louver motor
LS	Louver switch
SM	Stepping motor (for electronic expansion valve)
SW1	Indoor unit address: tens place
SW2	Indoor unit address: ones place
SW3	Outdoor unit address: tens place
SW4	Outdoor unit address: ones place
SW5-1	Automatic adjustment/Fixed previous version of Superlink protocol
SW5-2	Indoor unit address: hundreds place
SW6	Model capacity setting
SW7-1	Operation check, Drain motor test run
TB1	Terminal block (Power source) (□mark)
TB2	Terminal block (Signal line) (□mark)
Thc	Thermistor (Remote controller)
ThI-A	Thermistor (Return air)
ThI-R1, 2, 3	Thermistor (Heat exchanger)
TrI	Transformer
X1~3,6	Relay for FM
X4	Relay for DM
X5	Relay for LM
■mark	Closed-end connector

Notes 1. — indicates wiring on site.

2. Use twin core cable (0.75~1.25mm<sup>2</sup>) at signal line between indoor unit and outdoor unit, and signal line between indoor units.
3. Use twin core cable (0.3mm<sup>2</sup>) at remote controller line. See spec sheet of remote controller in case that the total length is more than 100m.
4. Do not put signal line and remote controller line alongside power source line.

MODEL NAME		FDTW112KXE6, 140KXE6	
MODEL TYPE	PANEL	FDTW	TW-PSA-44W-E
ISSUE	CLASSIFICATION	WIRING DIAGRAM	
KASAHARA	DWG NO.	REV./MARK	PAGE
071026	PJB001Z562	/A	1/1



Notes

- indicates wiring on site.
- Use twin core cord (0.75~1.25mm<sup>2</sup>) at signal line between indoor unit and outdoor unit, and signal line between indoor units.
- Use twin core cord (0.3mm<sup>2</sup>) at remote controller line.  
See spec sheet of remote controller in case that the total length is more than 100m.
- Do not put signal line and remote controller line alongside power source line.

CF1	Capacitor for FM1
CNA~Z	Connector
DM	Drain motor
F	Fuse
FM1	Fan motor (with thermostat)
FS	Float switch
JSL1	Live Superlink terminal setting (for spare)
LED·2	Indication lamp (Green-Normal operation)
LED·3	Indication lamp (Red-Inspection)
LM	Louver motor
LS	Louver switch

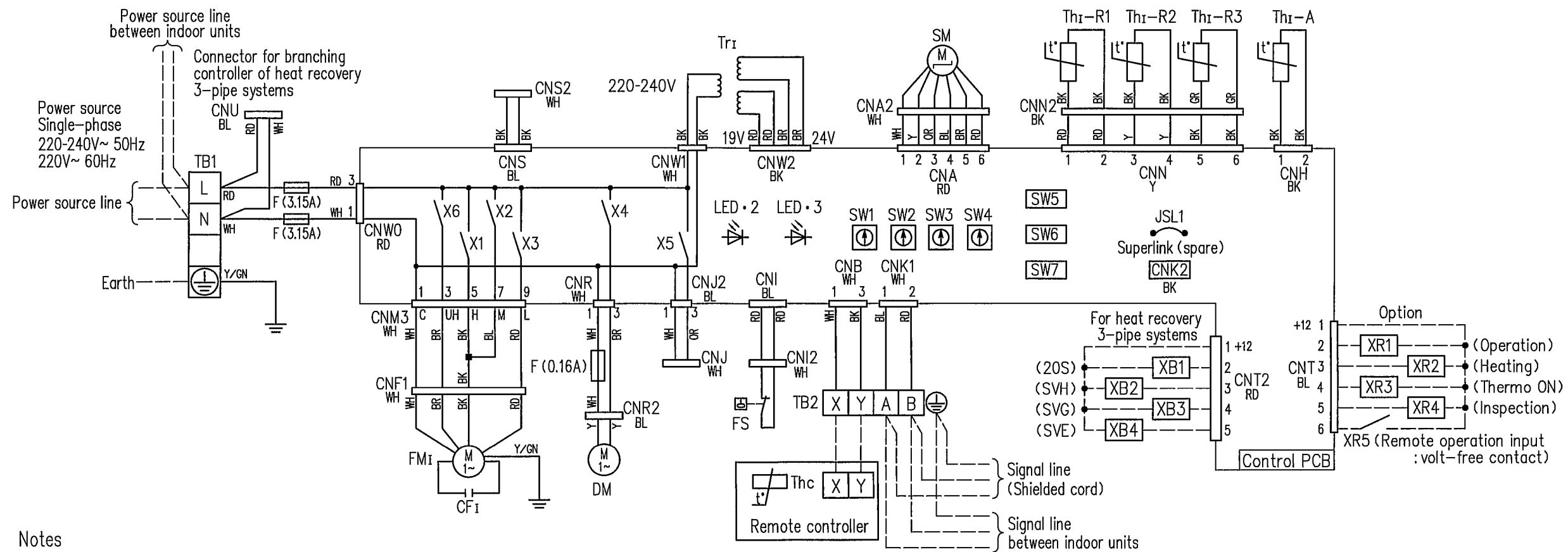
SM	Stepping motor (For electronic expansion valve)
SW1	Indoor unit address: tens place
SW2	Indoor unit address: ones place
SW3	Outdoor unit address: tens place
SW4	Outdoor unit address: ones place
SW5-1	Automatic adjustment/Fixed previous version of Superlink protocol
SW5-2	Indoor unit address: hundreds place
SW6	Model capacity setting
SW7-1	Operation check, Drain motor test run

TB1	Terminal block (Power source) (□ mark)
TB2	Terminal block (Signal line) (□ mark)
Thc	Thermistor (Remote controller)
ThI-A	Thermistor (Return air)
ThI-R1, 2, 3	Thermistor (Heat exchanger)
Tr1	Transformer
X1~3,6	Relay for FM
X4	Relay for DM
X5	Relay for LM
■mark	Closed-end connector

Color Marks

Mark	Color	Mark	Color
BK	Black	RD	Red
BL	Blue	WH	White
BR	Brown	Y	Yellow
GR	Gray	Y/GN	Yellow/Green
OR	Orange		

MODEL NAME FDTQ22KXE6, 28KXE6, 36KXE6			
MODEL TYPE FDTQ	PANEL TQ-PSA-15W-E TQ-PSB-15W-E		
ISSUE KASAHARA	CLASSIFICATION WIRING DIAGRAM	REV. MARK	PAGE
071015	PJC001Z190		1/1



Notes

- indicates wiring on site.
- Use twin core cord (0.75~1.25mm<sup>2</sup>) at signal line between indoor unit and outdoor unit, and signal line between indoor units.
- Use twin core cord (0.3mm<sup>2</sup>) at remote controller line.  
See spec sheet of remote controller in case that the total length is more than 100m.
- Do not put signal line and remote controller line alongside power source line.

Color Marks

Mark	Color	Mark	Color
BK	Black	RD	Red
BL	Blue	WH	White
BR	Brown	Y	Yellow
GR	Gray	Y/GN	Yellow/Green
OR	Orange		

Changing the fan tap

The factory setting of the fan tap is "Standard".  
Change the fan tap to "High Speed 1" by using the function setting of the wired remote controller.

CATEGORY	NUMBER	FUNCTION	SETTING
I/U FUNCTION	02	FAN SPEED SET	HIGH SPEED 1

Invalidating the louver button

The factory setting of the louver button is "Valid".  
Change the louver button to "Invalid" by using the function setting of the wired remote controller.

CATEGORY	NUMBER	FUNCTION	SETTING
FUNCTION (REMOTE CONTROLLER FUNCTION)	07	LOUVER SW	INVALID

CF1	Capacitor for FM1
CNA~Z	Connector
DM	Drain motor
F	Fuse
FM1	Fan motor (with thermostat)
FS	Float switch
JSL1	Live Superlink terminal setting (for spare)
LED·2	Indication lamp (Green-Normal operation)
LED·3	Indication lamp (Red-Inspection)

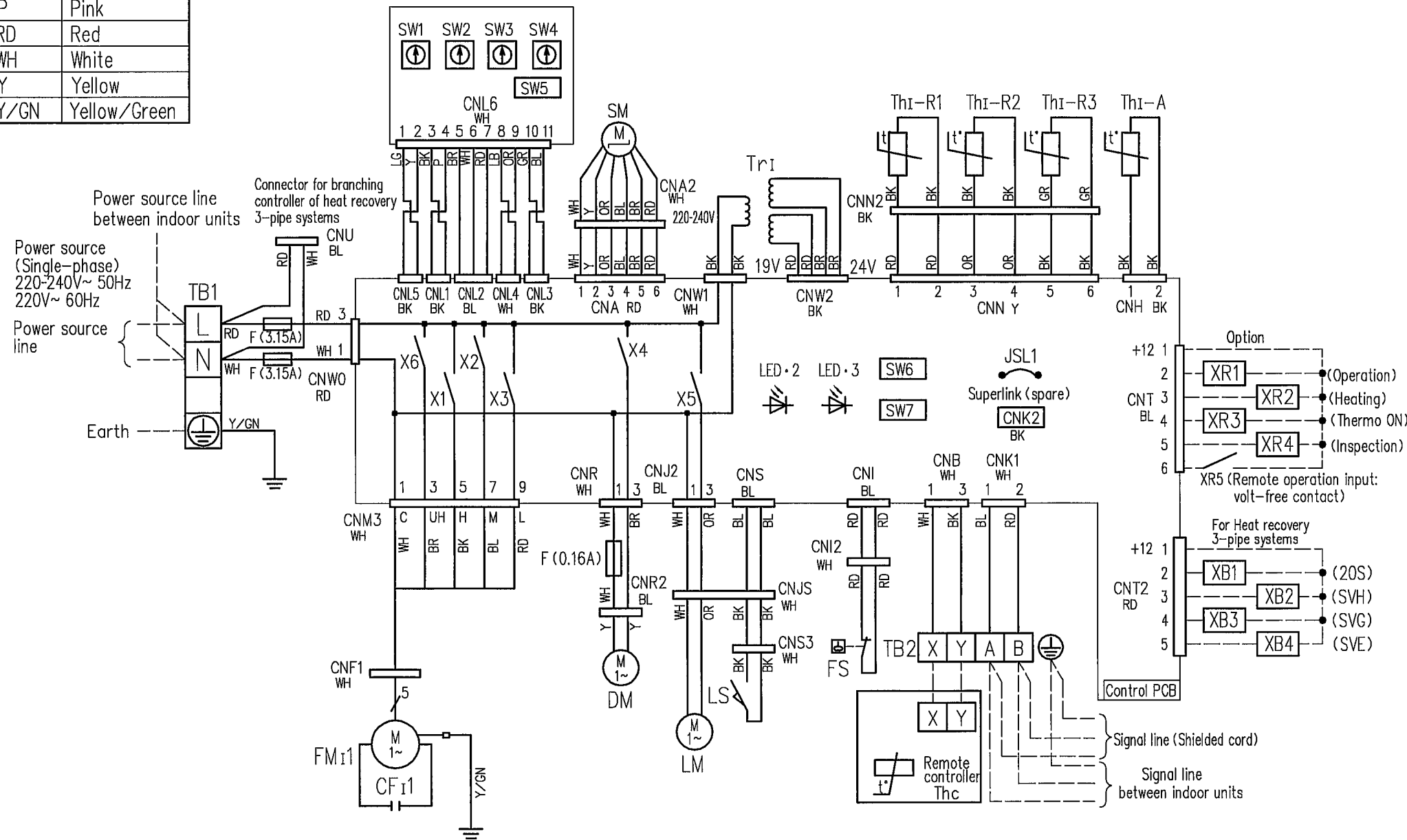
SM	Stepping motor (For electronic expansion valve)
SW1	Indoor unit address: tens place
SW2	Indoor unit address: ones place
SW3	Outdoor unit address: tens place
SW4	Outdoor unit address: ones place
SW5-1	Automatic adjustment/Fixed previous version of Superlink protocol
SW5-2	Indoor unit address: hundreds place
SW6	Model capacity setting
SW7-1	Operation check, Drain motor test run

TB1	Terminal block (Power source) (□ mark)
TB2	Terminal block (Signal line) (□ mark)
Thc	Thermistor (Remote controller)
ThI-A	Thermistor (Return air)
ThI-R1, 2, 3	Thermistor (Heat exchanger)
Tr1	Transformer
X1~3,6	Relay for FM
X4	Relay for DM
X5	Relay for LM
■mark	Closed-end connector

MODEL NAME			
FDTQ22KXE6, 28KXE6, 36KXE6			
MODEL TYPE	FDTQ	PANEL	QR-PNA-14W-ER QR-PNB-14W-ER
ISSUE	CLASSIFICATION		
	WIRING DIAGRAM		
KASAHARA	DWG NO.	REV. MARK	PAGE
071015	PJC001Z240		1/1

Color Marks

Mark	Color
BK	Black
BL	Blue
BR	Brown
GR	Gray
LB	Light Blue
LG	Light Green
OR	Orange
P	Pink
RD	Red
WH	White
Y	Yellow
Y/GN	Yellow/Green



CF I1	Capacitor for FMI
CNA~Z	Connector
DM	Drain motor
F	Fuse
FM I1	Fan motor (with thermostat)
FS	Float switch
JSL1	Live Superlink terminal setting (for spare)
LED·2	Indication lamp (Green-Normal operation)
LED·3	Indication lamp (Red-Inspection)
LM	Louver motor
LS	Louver switch
SM	Stepping motor (for electronic expansion valve)
SW1	Indoor unit address: tens place
SW2	Indoor unit address: ones place
SW3	Outdoor unit address: tens place
SW4	Outdoor unit address: ones place
SW5-1	Automatic adjustment/Fixed previous version of Superlink protocol
SW5-2	Indoor unit address: hundreds place
SW6	Model capacity setting
SW7-1	Operation check, Drain motor test run
TB1	Terminal block (Power source) (mark)
TB2	Terminal block (Signal line) (mark)
Thc	Thermistor (Remote controller)
ThI-A	Thermistor (Return air)
ThI-R1, 2, 3	Thermistor (Heat exchanger)
Tr I	Transformer
X1~3,6	Relay for FM
X4	Relay for DM
X5	Relay for LM
mark	Closed-end connector

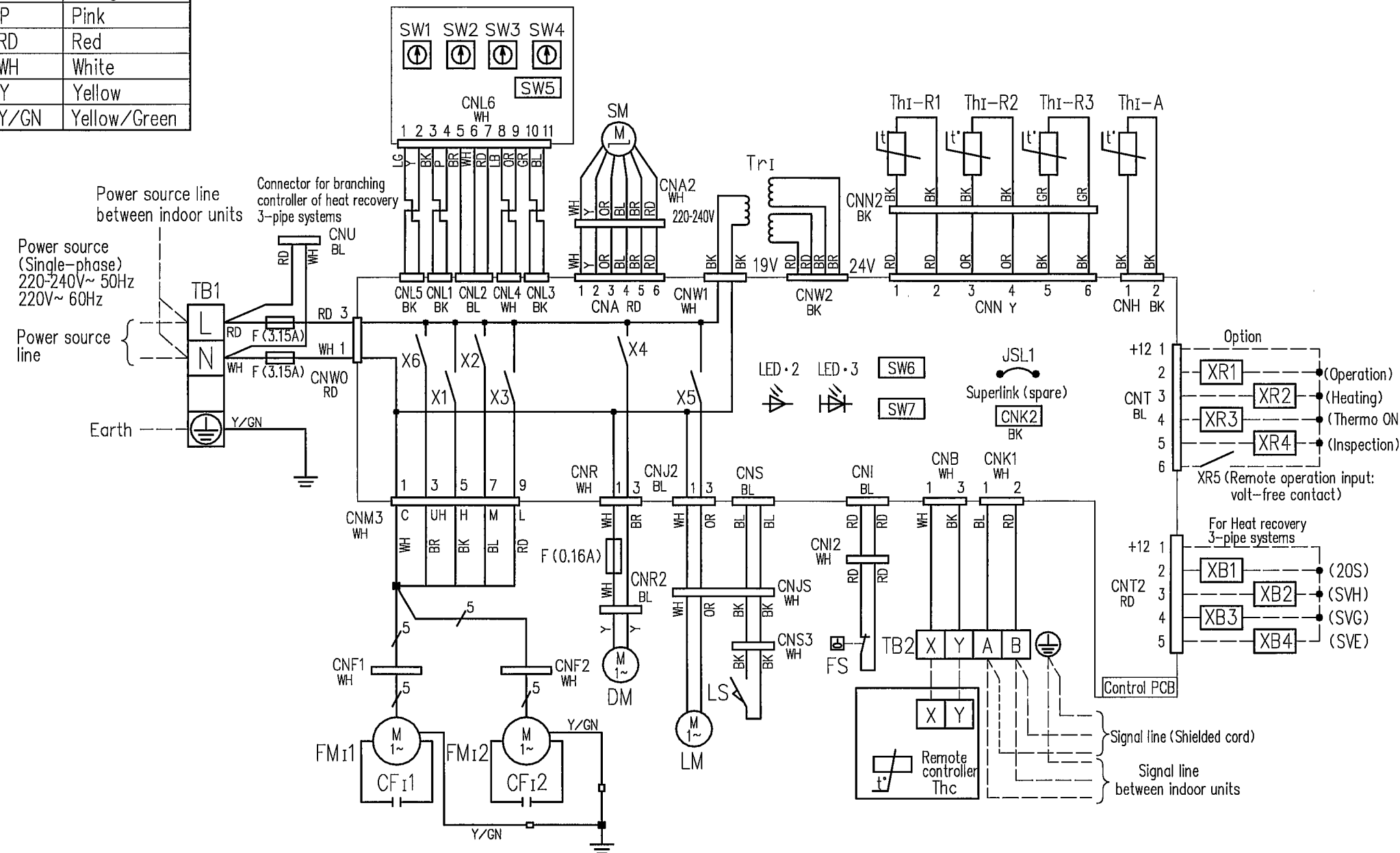
Notes 1. — indicates wiring on site.

2. Use twin core cable (0.75~1.25mm<sup>2</sup>) at signal line between indoor unit and outdoor unit, and signal line between indoor units.
3. Use twin core cable (0.3mm<sup>2</sup>) at remote controller line. See spec sheet of remote controller in case that the total length is more than 100m.
4. Do not put signal line and remote controller line alongside power source line.

MODEL NAME		FDT545KXE6	
MODEL TYPE	FDT5	PANEL	TS-PSA-29W-E
ISSUE	CLASSIFICATION		
	WIRING DIAGRAM		
KASAHARA	DWG NO.	REV. MARK	PAGE
071026	PJC001Z195		1/1

Color Marks

Mark	Color
BK	Black
BL	Blue
BR	Brown
GR	Gray
LB	Light Blue
LG	Light Green
OR	Orange
P	Pink
RD	Red
WH	White
Y	Yellow
Y/GN	Yellow/Green

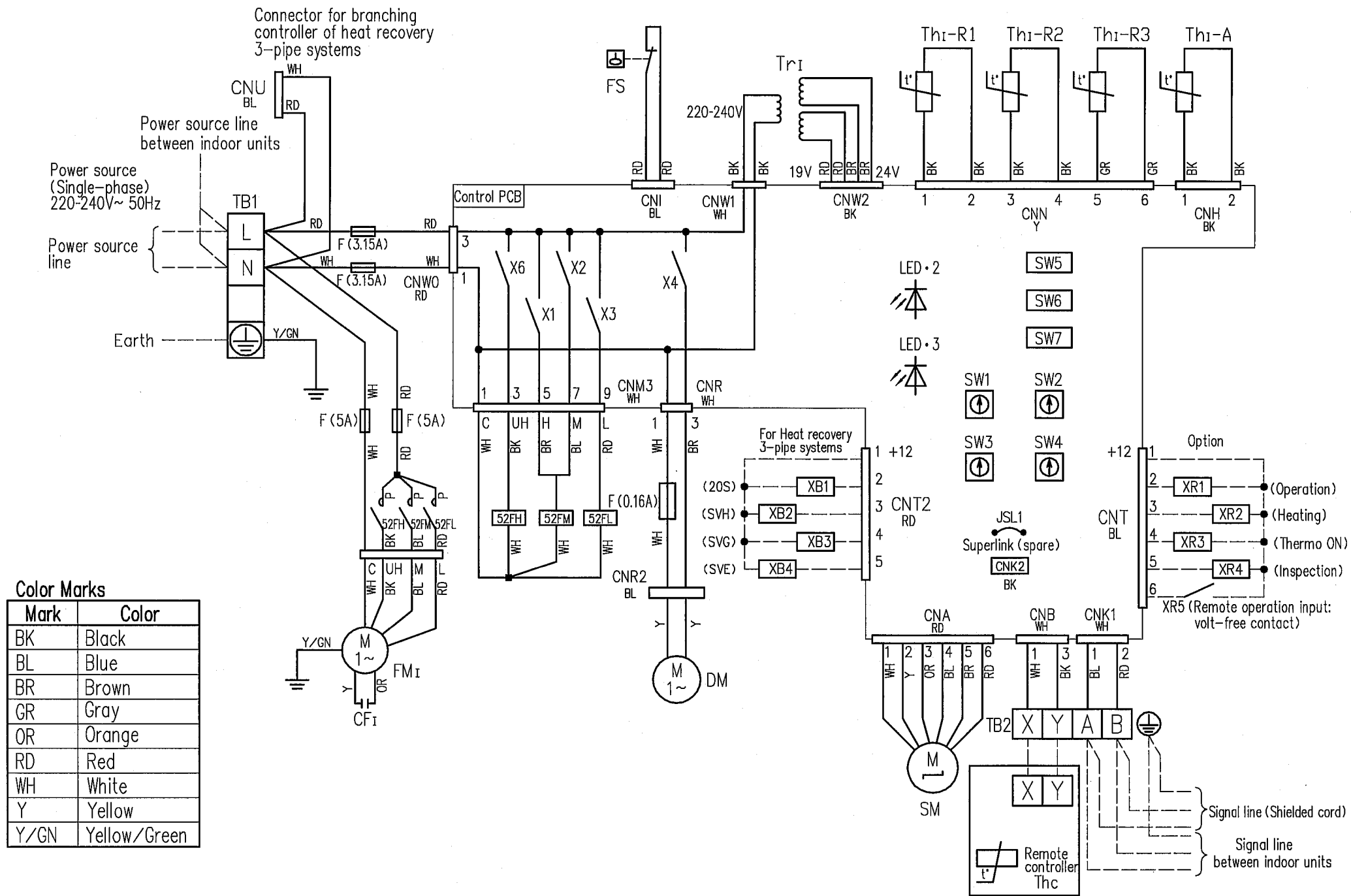


CF I 1,2	Capacitor for FMI
CNA~Z	Connector
DM	Drain motor
F	Fuse
FM I 1,2	Fan motor (with thermostat)
FS	Float switch
JSL1	Live Superlink terminal setting (for spare)
LED·2	Indication lamp (Green-Normal operation)
LED·3	Indication lamp (Red-Inspection)
LM	Louver motor
LS	Louver switch
SM	Stepping motor (for electronic expansion valve)
SW1	Indoor unit address: tens place
SW2	Indoor unit address: ones place
SW3	Outdoor unit address: tens place
SW4	Outdoor unit address: ones place
SW5-1	Automatic adjustment/Fixed previous version of Superlink protocol
SW5-2	Indoor unit address: hundreds place
SW6	Model capacity setting
SW7-1	Operation check, Drain motor test run
TB1	Terminal block (Power source) (□mark)
TB2	Terminal block (Signal line) (□mark)
Thc	Thermistor (Remote controller)
ThI-A	Thermistor (Return air)
ThI-R1, 2, 3	Thermistor (Heat exchanger)
Tr I	Transformer
X1~3,6	Relay for FM
X4	Relay for DM
X5	Relay for LM
■mark	Closed-end connector

Notes 1. — indicates wiring on site.

2. Use twin core cable (0.75~1.25mm<sup>2</sup>) at signal line between indoor unit and outdoor unit, and signal line between indoor units.
3. Use twin core cable (0.3mm<sup>2</sup>) at remote controller line. See spec sheet of remote controller in case that the total length is more than 100m.
4. Do not put signal line and remote controller line alongside power source line.

MODEL NAME	FDT571KXE6		
MODEL TYPE	FDT5	PANEL	TS-PSA-39W-E
ISSUE	CLASSIFICATION WIRING DIAGRAM		
KASAHARA	DWG NO.	REV. MARK	PAGE
071026	PJC001Z196	/	1/1



**Color Marks**

Mark	Color
BK	Black
BL	Blue
BR	Brown
GR	Gray
OR	Orange
RD	Red
WH	White
Y	Yellow
Y/GN	Yellow/Green

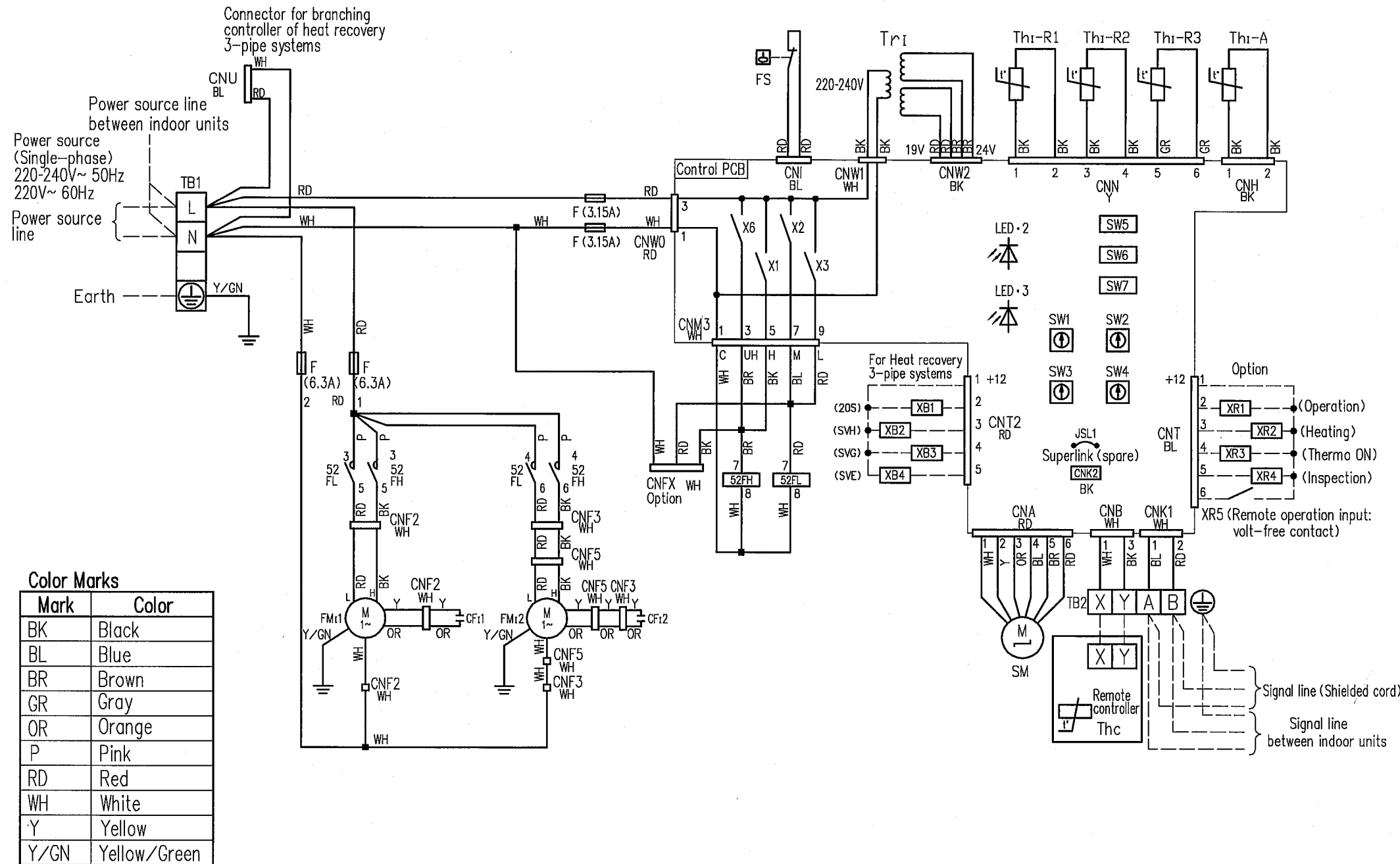
CF I	Capacitor for FMI
CNA~Z	Connector
DM	Drain motor
F	Fuse
FMI	Fan motor (with thermostat)
FS	Float switch
JSL1	Live Superlink terminal setting (for spare)
LED·2	Indication lamp (Green-Normal operation)
LED·3	Indication lamp (Red-Inspection)
SM	Stepping motor (for electronic expansion valve)
SW1	Indoor unit address: tens place
SW2	Indoor unit address: ones place
SW3	Outdoor unit address: tens place
SW4	Outdoor unit address: ones place
SW5-1	Automatic adjustment/Fixed previous version of Superlink protocol
SW5-2	Indoor unit address: hundreds place
SW6	Model capacity setting
SW7-1	Operation check, Drain motor test run
TB1	Terminal block (Power source) (□mark)
TB2	Terminal block (Signal line) (□mark)
Thc	Thermistor (Remote controller)
Th I-A	Thermistor (Return air)
Th I-R1, 2, 3	Thermistor (Heat exchanger )
Tr I	Transformer
X1~3,6	Relay for FM
X4	Relay for DM
■mark	Closed-end connector
52FL,FM,FH	Electromagnetic contactor for FMI

Notes 1. — indicates wiring on site.

2. Use twin core cable (0.75~1.25mm<sup>2</sup>) at signal line between indoor unit and outdoor unit, and signal line between indoor units.
3. Use twin core cable (0.3mm<sup>2</sup>) at remote controller line. See spec sheet of remote controller in case that the total length is more than 100m.
4. Do not put signal line and remote controller line alongside power source line.

MODEL NAME		FDU71KXE6, 90KEX6, 112KEX6, 140KEX6	
MODEL TYPE		FDU	
ISSUE	CLASSIFICATION		
	WIRING DIAGRAM		
KASAHARA	DWG NO.	REV. MARK	PAGE
071026	PJD001 Z229	/A	1/1





CF I 1,2	Capacitor for FMI
CNA~Z	Connector
F	Fuse
FM I 1,2	Fan motor (with thermostat)
FS	Float switch
JSL1	Live Superlink terminal setting (for spare)
LED-2	Indication lamp (Green-Normal operation)
LED-3	Indication lamp (Red-Inspection)
SM	Stepping motor (for electronic expansion valve)
SW1	Indoor unit address: tens place
SW2	Indoor unit address: ones place
SW3	Outdoor unit address: tens place
SW4	Outdoor unit address: ones place
SW5-1	Automatic adjustment/Fixed previous version of Superlink protocol
SW5-2	Indoor unit address: hundreds place
SW6	Model capacity setting
SW7-1	Operation check, Drain motor test run
TB1	Terminal block (Power source) (□mark)
TB2	Terminal block (Signal line) (□mark)
Thc	Thermistor (Remote controller)
Th I-A	Thermistor (Return air)
Th I-R1, 2, 3	Thermistor (Heat exchanger)
Tr I	Transformer
X1-3,6	Relay for FM
■mark	Closed-end connector
52FL, FH	Electromagnetic contactor for FMI

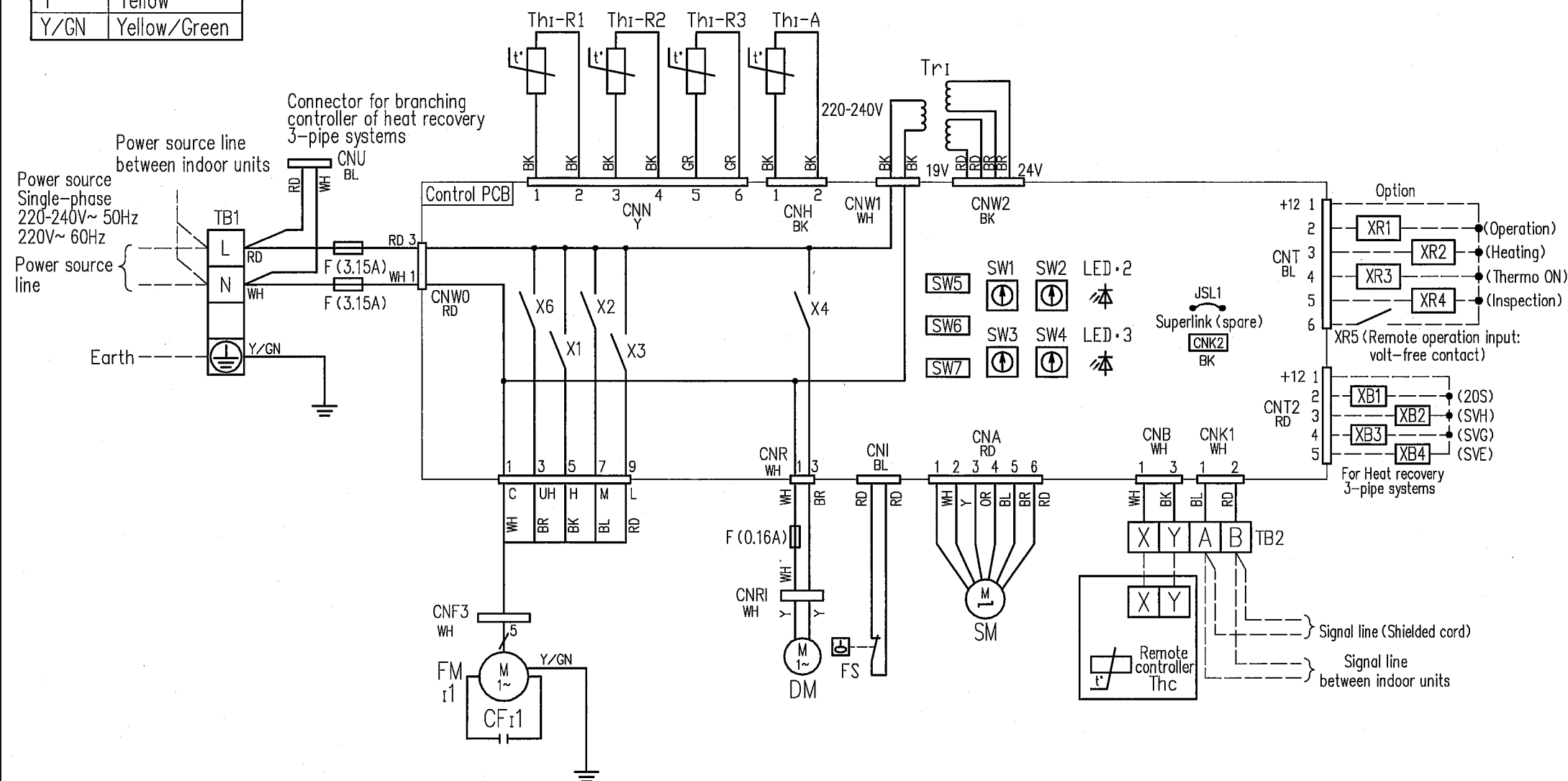
Notes 1. — indicates wiring on site.

2. Use twin core cable (0.75~1.25mm<sup>2</sup>) at signal line between indoor unit and outdoor unit, and signal line between indoor units.
3. Use twin core cable (0.3mm<sup>2</sup>) at remote controller line. See spec sheet of remote controller in case that the total length is more than 100m.
4. Do not put signal line and remote controller line alongside power source line.

MODEL NAME	FDU224KXE6, 280KXE6		
MODEL TYPE	F DU	Ⓢ	
ISSUE	CLASSIFICATION		
	WIRING DIAGRAM		
KASAHARA	DWG NO.	REV. MARK	PAGE
071026	PJD001Z230	/A	1/1

Color Marks

Mark	Color
BK	Black
BL	Blue
BR	Brown
GR	Gray
OR	Orange
RD	Red
WH	White
Y	Yellow
Y/GN	Yellow/Green



CF1	Capacitor for FM
CNA~Z	Connector
DM	Drain motor
F	Fuse
FM1	Fan motor (with thermostat)
FS	Float switch
JSL1	Live Superlink terminal setting (for spare)
LED-2	Indication lamp (Green-Normal operation)
LED-3	Indication lamp (Red-Inspection)
SM	Stepping motor (for electronic expansion valve)
SW1	Indoor unit address: tens place
SW2	Indoor unit address: ones place
SW3	Outdoor unit address: tens place
SW4	Outdoor unit address: ones place
SW5-1	Automatic adjustment/Fixed previous version of Superlink protocol
SW5-2	Indoor unit address: hundreds place
SW6	Model capacity setting
SW7-1	Operation check, Drain motor test run
TB1	Terminal block (Power source) (□mark)
TB2	Terminal block (Signal line) (□mark)
Thc	Thermistor (Remote controller)
Th1-A	Thermistor (Return air)
Th1-R1, 2, 3	Thermistor (Heat exchanger)
Tr1	Transformer
X1~3,6	Relay for FM
X4	Relay for DM
■mark	Closed-end connector

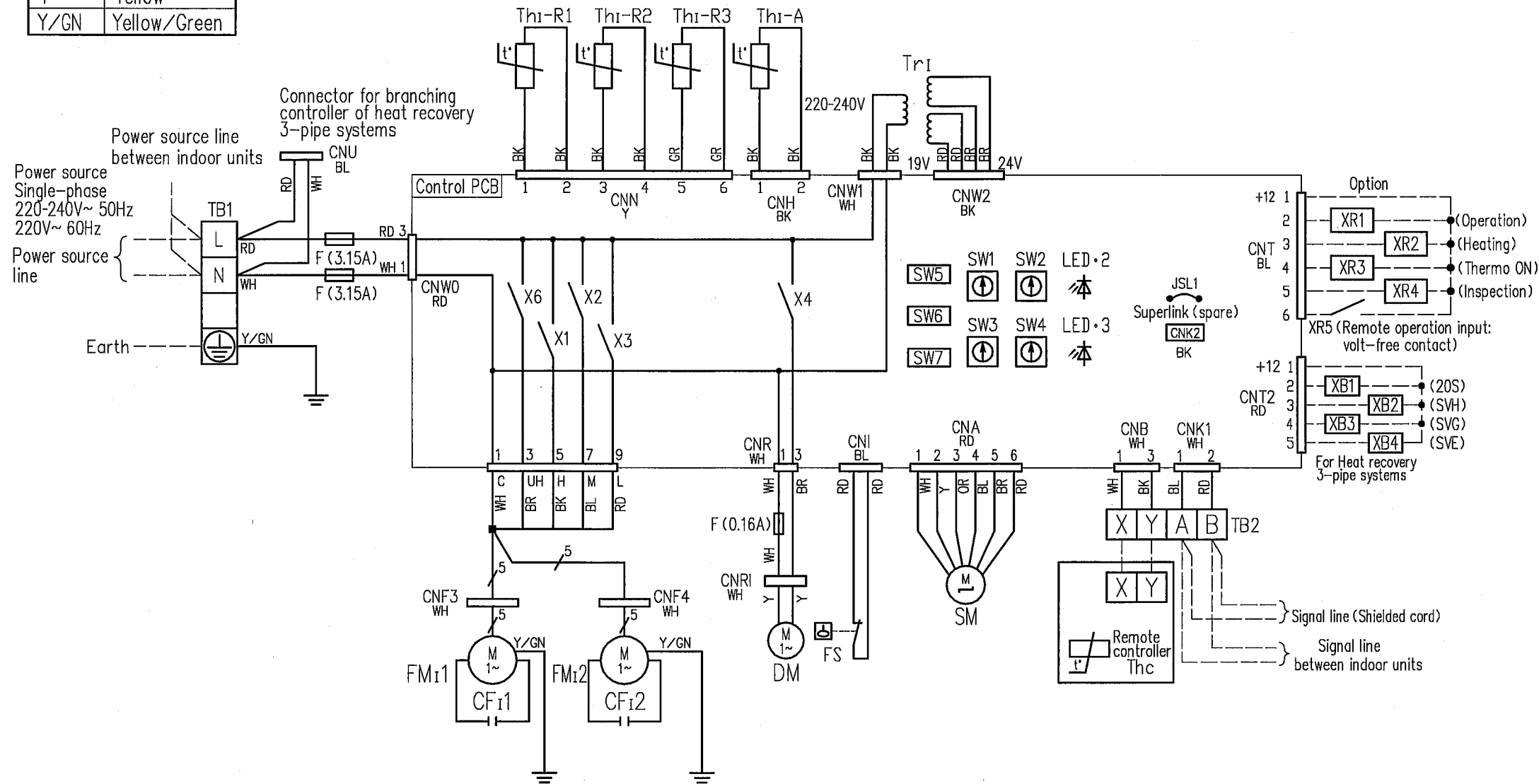
Notes 1. --- indicates wiring on site.

2. Use twin core cable (0.75~1.25mm<sup>2</sup>) at signal line between indoor unit and outdoor unit, and signal line between indoor units.
3. Use twin core cable (0.3mm<sup>2</sup>) at remote controller line. See spec sheet of remote controller in case that the total length is more than 100m.
4. Do not put signal line and remote controller line alongside power source line.

MODEL NAME		FDUM22KXE6, 28KXE6, 36KXE6, 45KXE6, 56KXE6, 71KXE6, 90KXE6	
MODEL TYPE		FDUM	
ISSUE	CLASSIFICATION		
	WIRING DIAGRAM		
KASAHARA	DWG NO.	REV./MARK	PAGE
07.10.26	PJR002Z258	/A	1/1

Color Marks

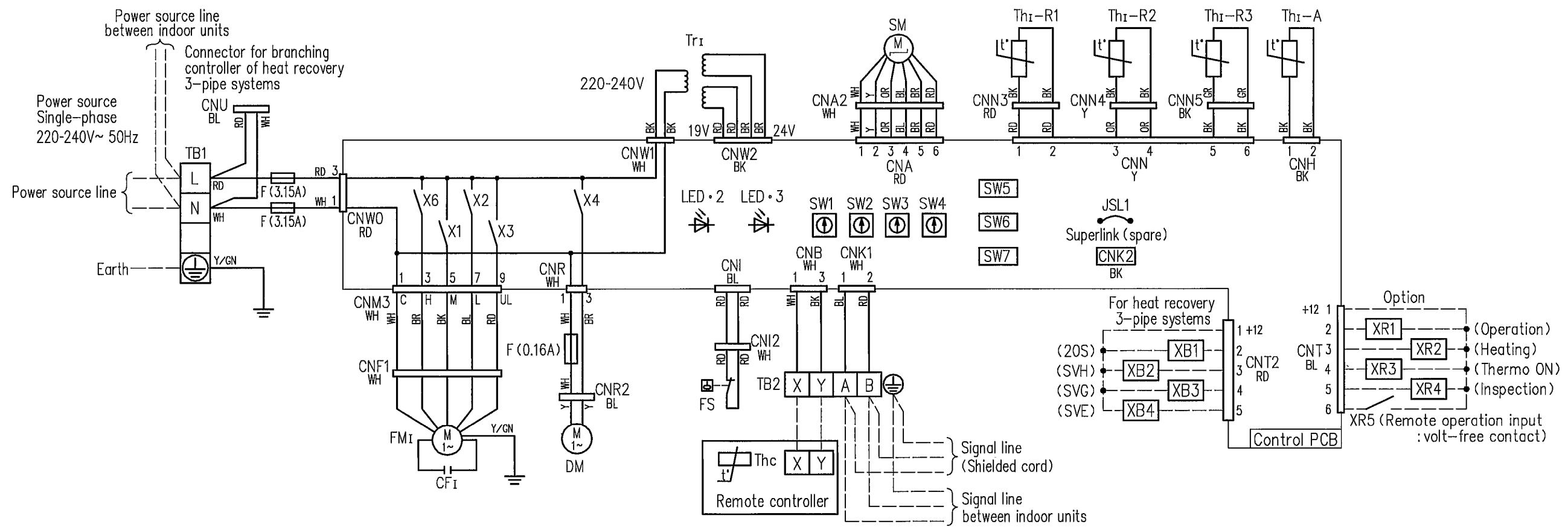
Mark	Color
BK	Black
BL	Blue
BR	Brown
GR	Gray
OR	Orange
RD	Red
WH	White
Y	Yellow
Y/GN	Yellow/Green



CF1,2	Capacitor for FM1
CNA~Z	Connector
DM	Drain motor
F	Fuse
FM1,2	Fan motor (with thermostat)
FS	Float switch
JSL1	Live Superlink terminal setting (for spare)
LED-2	Indication lamp (Green-Normal operation)
LED-3	Indication lamp (Red-Inspection)
SM	Stepping motor (for electronic expansion valve)
SW1	Indoor unit address: tens place
SW2	Indoor unit address: ones place
SW3	Outdoor unit address: tens place
SW4	Outdoor unit address: ones place
SW5-1	Automatic adjustment/Fixed previous version of Superlink protocol
SW5-2	Indoor unit address: hundreds place
SW6	Model capacity setting
SW7-1	Operation check, Drain motor test run
TB1	Terminal block (Power source) (□mark)
TB2	Terminal block (Signal line) (□mark)
Thc	Thermistor (Remote controller)
Th1-A	Thermistor (Return air)
Th1-R1,2,3	Thermistor (Heat exchanger)
Tr1	Transformer
X1~3,6	Relay for FM
X4	Relay for DM
■mark	Closed-end connector

- Notes 1. — — indicates wiring on site.  
 2. Use twin core cable (0.75~1.25mm<sup>2</sup>) at signal line between indoor unit and outdoor unit, and signal line between indoor units.  
 3. Use twin core cable (0.3mm<sup>2</sup>) at remote controller line. See spec sheet of remote controller in case that the total length is more than 100m.  
 4. Do not put signal line and remote controller line alongside power source line.

MODEL NAME		FDUM112KXE6, 140KXE6	
MODEL TYPE		FDUM	
ISSUE	CLASSIFICATION		
	WIRING DIAGRAM		
KASAHARA	DWG. NO.	REV. MARK	PAGE
071026	PJR002Z259	/A	1/1



Notes

1. — indicates wiring on site.
2. Use twin core cord (0.75~1.25mm<sup>2</sup>) at signal line between indoor unit and outdoor unit, and signal line between indoor units.
3. Use twin core cord (0.3mm<sup>2</sup>) at remote controller line.  
See spec sheet of remote controller in case that the total length is more than 100m.
4. Do not put signal line and remote controller line alongside power source line.

Color Marks

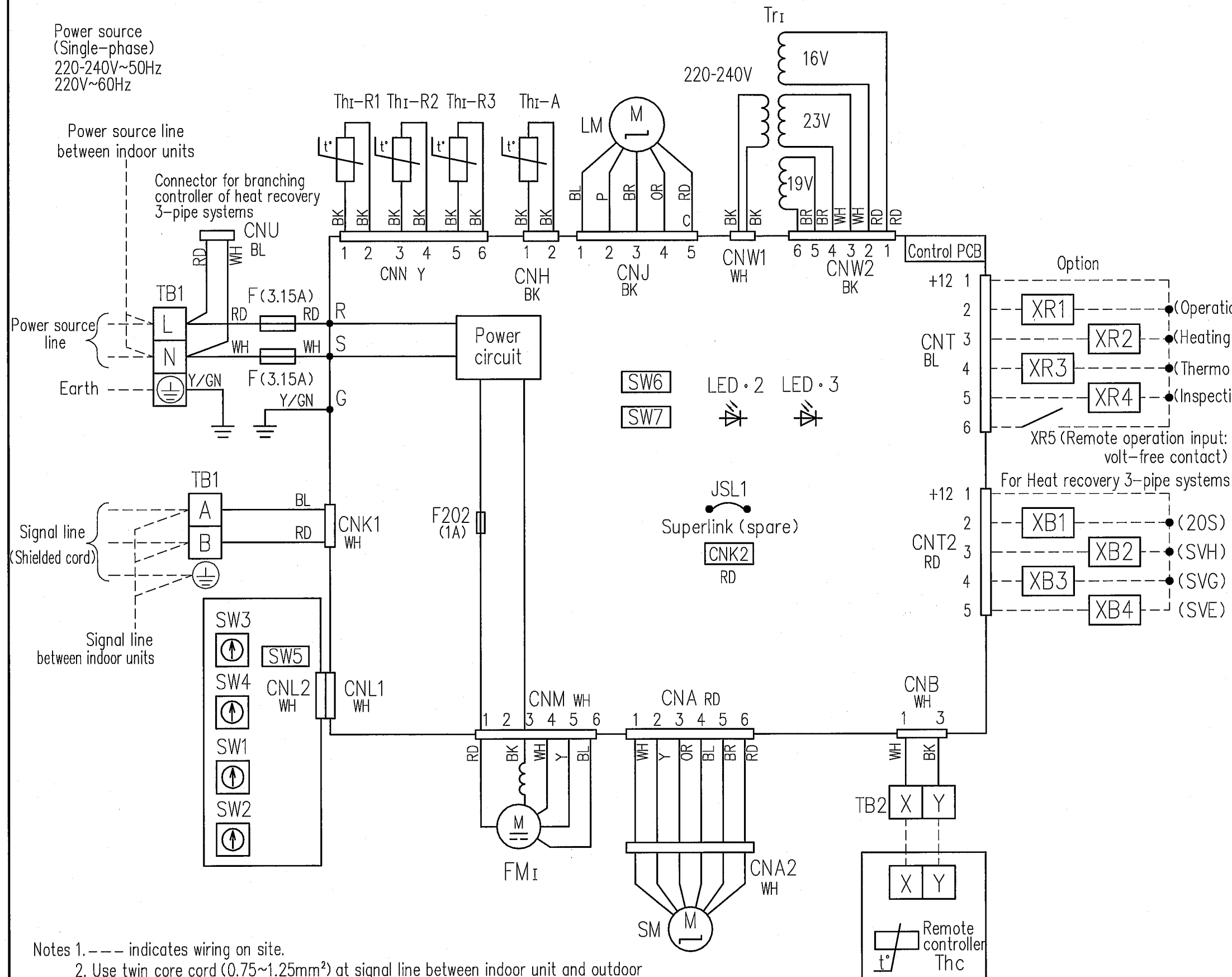
Mark	Color	Mark	Color
BK	Black	RD	Red
BL	Blue	WH	White
BR	Brown	Y	Yellow
GR	Gray	Y/GN	Yellow/Green
OR	Orange		

CF1	Capacitor for FM1
CNA~Z	Connector
DM	Drain motor
F	Fuse
FM1	Fan motor (with thermostat)
FS	Float switch
JSL1	Live Superlink terminal setting (for spare)
LED • 2	Indication lamp (Green-Normal operation)
LED • 3	Indication lamp (Red-Inspection)

SM	Stepping motor (For electronic expansion valve)
SW1	Indoor unit address: tens place
SW2	Indoor unit address: ones place
SW3	Outdoor unit address: tens place
SW4	Outdoor unit address: ones place
SW5-1	Automatic adjustment/Fixed previous version of Superlink protocol
SW5-2	Indoor unit address: hundreds place
SW6	Model capacity setting

SW7-1	Operation check, Drain motor test run
TB1	Terminal block (Power source) (□ mark)
TB2	Terminal block (Signal line) (□ mark)
Thc	Thermistor (Remote controller)
ThI-A	Thermistor (Return air)
ThI-R1, 2, 3	Thermistor (Heat exchanger)
Tr1	Transformer
X1~3, 6	Relay for FM
X4	Relay for DM

MODEL NAME			
FDQS22KXE6, 28KXE6, 36KXE6, 45KXE6, 56KXE6			
MODEL TYPE			
FDQS			
ISSUE		CLASSIFICATION	
		WIRING DIAGRAM	
KASAHARA	DWG NO.	REV./MARK	PAGE
071015	PJC001Z200	/A	1/1



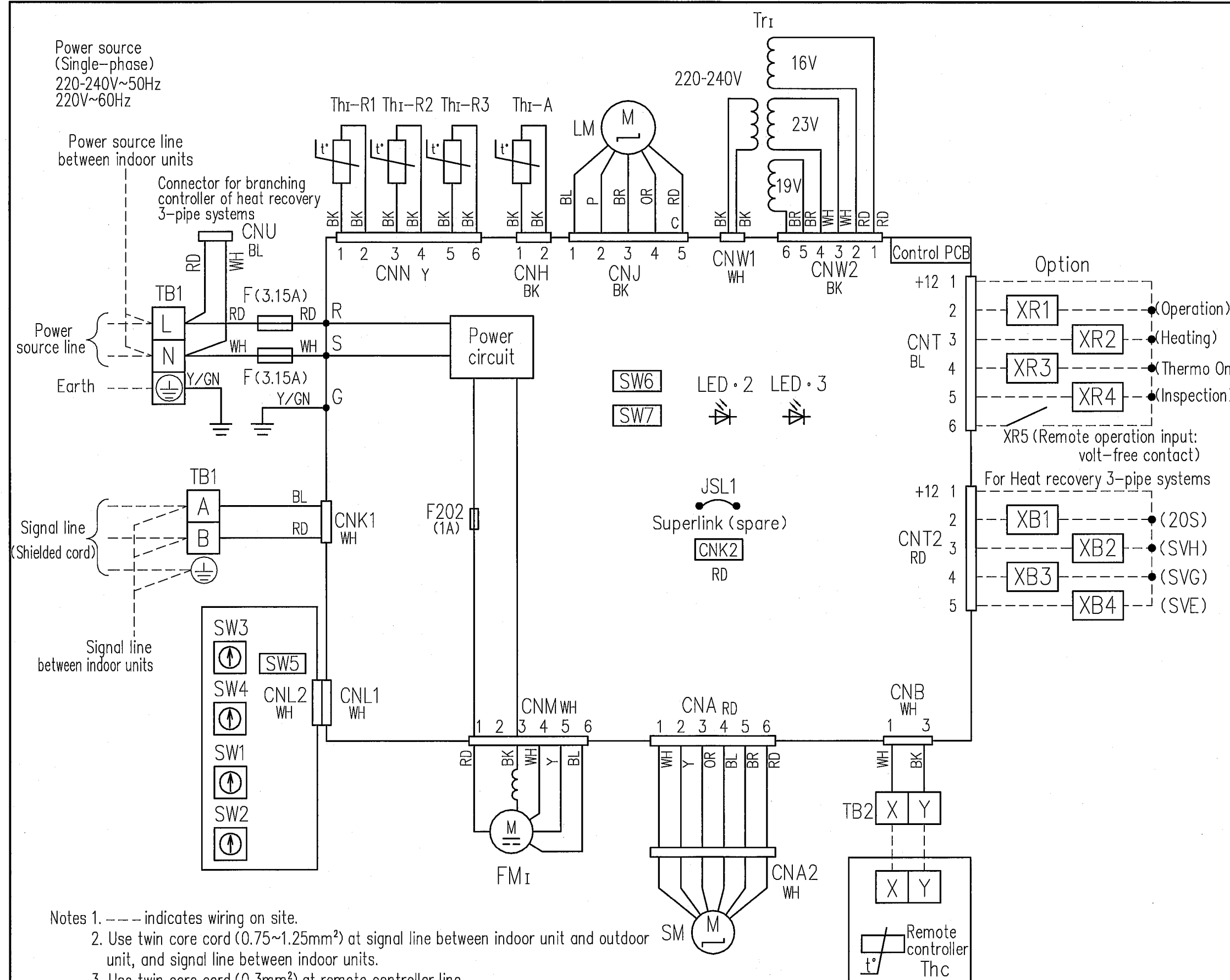
CNA~Z	Connector
F,F202	Fuse
FMI	Fan motor (with thermostat)
JSL1	Live Superlink terminal setting (for spare)
LED·2	Indication lamp (Green-Normal operation)
LED·3	Indication lamp (Red-Inspection)
LM	Louver motor
SM	Stepping motor (for electronic expansion valve)
SW1	Indoor unit address: tens place
SW2	Indoor unit address: ones place
SW3	Outdoor unit address: tens place
SW4	Outdoor unit address: ones place
SW5-1	Automatic adjustment/Fixed previous version of Superlink protocol
SW5-2	Indoor unit address: hundreds place
SW6	Model capacity setting
SW7-1	Operation check/Drain motor test run
TB1	Terminal block (□mark)
TB2	Terminal block (Remote Controller) (□mark)
Thc	Thermistor (Remote controller)
ThI-A	Thermistor (Return air)
ThI-R1,2,3	Thermistor (Heat exchanger)
TrI	Transformer

**Color Marks**

Mark	Color	Mark	Color
BK	Black	P	Pink
BL	Blue	RD	Red
BR	Brown	WH	White
GN	Green	Y	Yellow
OR	Orange	Y/GN	Yellow/Green

- Notes
- indicates wiring on site.
  - Use twin core cord (0.75~1.25mm<sup>2</sup>) at signal line between indoor unit and outdoor unit, and signal line between indoor units.
  - Use twin core cord (0.3mm<sup>2</sup>) at remote controller line.  
See spec sheet of remote controller in case that the total length is more than 100m.
  - Do not put signal line and remote controller line alongside power source line.

MODEL NAME	FDK22KXE6, 28KXE6, 36KXE6, 45KXE6, 56KXE6		
MODEL TYPE	FDK		
ISSUE	CLASSIFICATION		
	WIRING DIAGRAM		
KASAHARA	DWG NO.	REV./MARK	PAGE
071026	PHA000Z983	/A	1/1



CNA~Z	Connector
F,F202	Fuse
FMI	Fan motor (with thermostat)
JSL1	Live Superlink terminal setting (for spare)
LED-2	Indication lamp (Green-Normal operation)
LED-3	Indication lamp (Red-Inspection)
LM	Louver motor
SM	Stepping motor (for electronic expansion valve)
SW1	Indoor unit address: tens place
SW2	Indoor unit address: ones place
SW3	Outdoor unit address: tens place
SW4	Outdoor unit address: ones place
SW5-1	Automatic adjustment/Fixed previous version of Superlink protocol
SW5-2	Indoor unit address: hundreds place
SW6	Model capacity setting
SW7-1	Operation check/Drain motor test run
TB1	Terminal block (□mark)
TB2	Terminal block (Remote Controller) (□mark)
Thc	Thermistor (Remote controller)
ThI-A	Thermistor (Return air)
ThI-R1,2,3	Thermistor (Heat exchanger)
TrI	Transformer

**Color Marks**

Mark	Color	Mark	Color
BK	Black	P	Pink
BL	Blue	RD	Red
BR	Brown	WH	White
GN	Green	Y	Yellow
OR	Orange	Y/GN	Yellow/Green

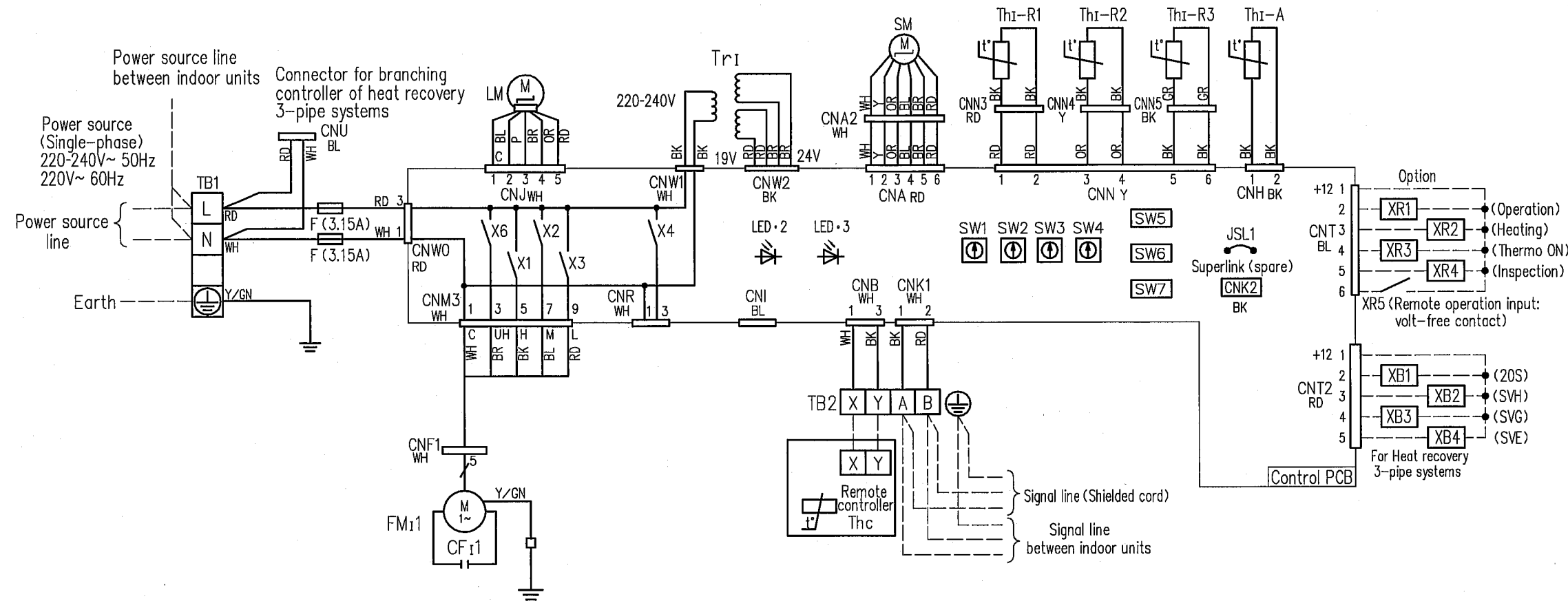
- Notes
- indicates wiring on site.
  - Use twin core cord (0.75~1.25mm<sup>2</sup>) at signal line between indoor unit and outdoor unit, and signal line between indoor units.
  - Use twin core cord (0.3mm<sup>2</sup>) at remote controller line.  
See spec sheet of remote controller in case that the total length is more than 100m.
  - Do not put signal line and remote controller line alongside power source line.

MODEL NAME		FDK71KXE6	
MODEL TYPE		FDK	
ISSUE	CLASSIFICATION		
	WIRING DIAGRAM		
KASAHARA	DWG NO.	REV./MARK	PAGE
071026	PHA000Z984	/A	1/1

Color Marks

Mark	Color
BK	Black
BL	Blue
BR	Brown
GR	Gray
OR	Orange
P	Pink
RD	Red
WH	White
Y	Yellow
Y/GN	Yellow/Green

CF1,2	Capacitor for FM1
CNA~Z	Connector
F	Fuse
FM1,2	Fan motor (with thermostat)
JSL1	Live Superlink terminal setting (for spare)
LED·2	Indication lamp (Green-Normal operation)
LED·3	Indication lamp (Red-Inspection)
LM	Louver motor
SM	Stepping motor (for electronic expansion valve)
SW1	Indoor unit address: tens place
SW2	Indoor unit address: ones place
SW3	Outdoor unit address: tens place
SW4	Outdoor unit address: ones place
SW5-1	Automatic adjustment/Fixed previous version of Superlink protocol
SW5-2	Indoor unit address: hundreds place
SW6	Model capacity setting
SW7-1	Operation check, Drain motor test run
TB1	Terminal block (Power source) (□mark)
TB2	Terminal block (Signal line) (□mark)
Thc	Thermistor (Remote controller)
ThI-A	Thermistor (Return air)
ThI-R1, 2, 3	Thermistor (Heat exchanger)
Tr1	Transformer
X1~3,6	Relay for FM
X4	Relay for DM



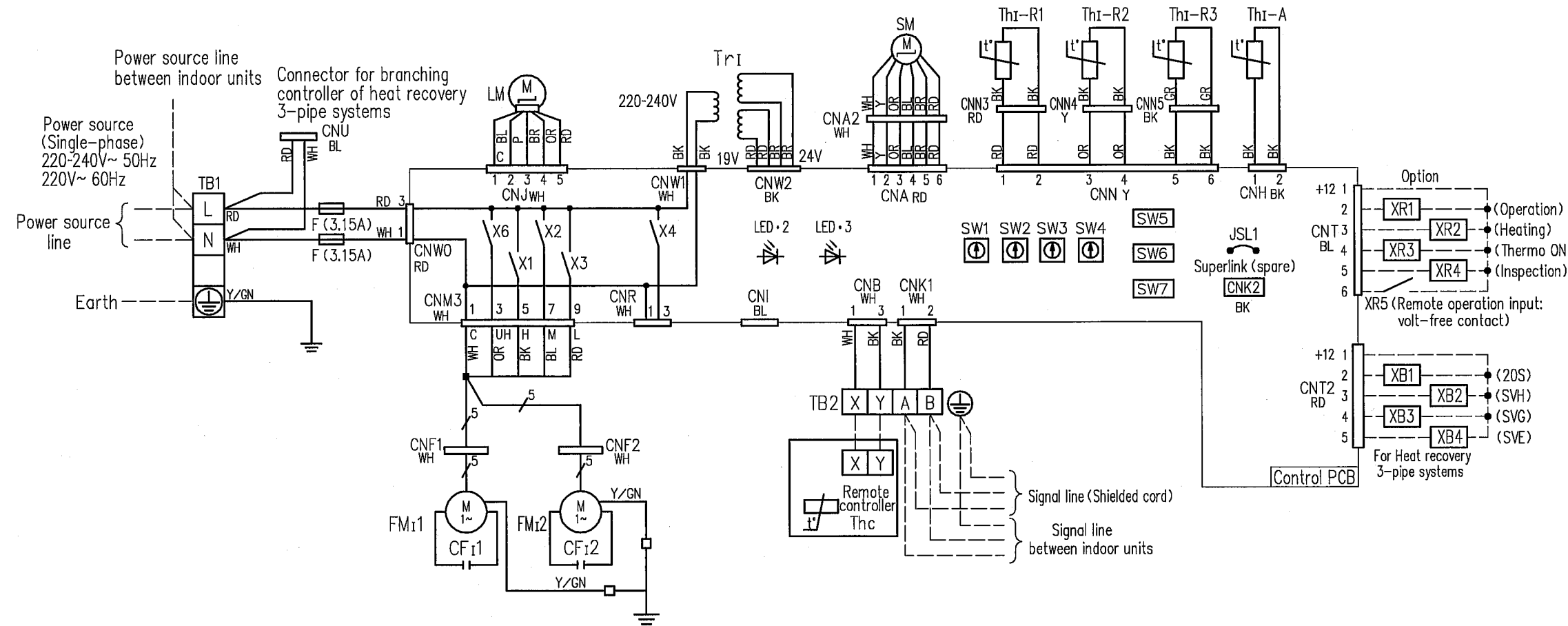
- Notes
- indicates wiring on site.
  - Use twin core cable (0.75~1.25mm<sup>2</sup>) at signal line between indoor unit and outdoor unit, and signal line between indoor units.
  - Use twin core cable (0.3mm<sup>2</sup>) at remote controller. See spec sheet of remote controller in case that the total length is more than 100m.
  - Do not put signal line and remote controller line alongside power source line.

MODEL NAME		FDE36KXE6, 45KXE6, 56KXE6	
MODEL TYPE		FDE	Ⓜ
ISSUE	CLASSIFICATION		
	WIRING DIAGRAM		
KASAHARA	DWG NO.	REV. MARK	PAGE
071026	PFA003Z741	/A	1/1

Color Marks

Mark	Color
BK	Black
BL	Blue
BR	Brown
GR	Gray
OR	Orange
P	Pink
RD	Red
WH	White
Y	Yellow
Y/GN	Yellow/Green

CF1,2	Capacitor for FM1
CNA~Z	Connector
F	Fuse
FM1,2	Fan motor (with thermostat)
JSL1	Live Superlink terminal setting (for spare)
LED-2	Indication lamp (Green-Normal operation)
LED-3	Indication lamp (Red-Inspection)
LM	Louver motor
SM	Stepping motor (for electronic expansion valve)
SW1	Indoor unit address: tens place
SW2	Indoor unit address: ones place
SW3	Outdoor unit address: tens place
SW4	Outdoor unit address: ones place
SW5-1	Automatic adjustment/Fixed previous version of Superlink protocol
SW5-2	Indoor unit address: hundreds place
SW6	Model capacity setting
SW7-1	Operation check, Drain motor test run
TB1	Terminal block (Power source) (□mark)
TB2	Terminal block (Signal line) (□mark)
Thc	Thermistor (Remote controller)
Thi-A	Thermistor (Return air)
Thi-R1,2,3	Thermistor (Heat exchanger)
Tr1	Transformer
X1~3,6	Relay for FM
X4	Relay for DM
■mark	Closed-end connector



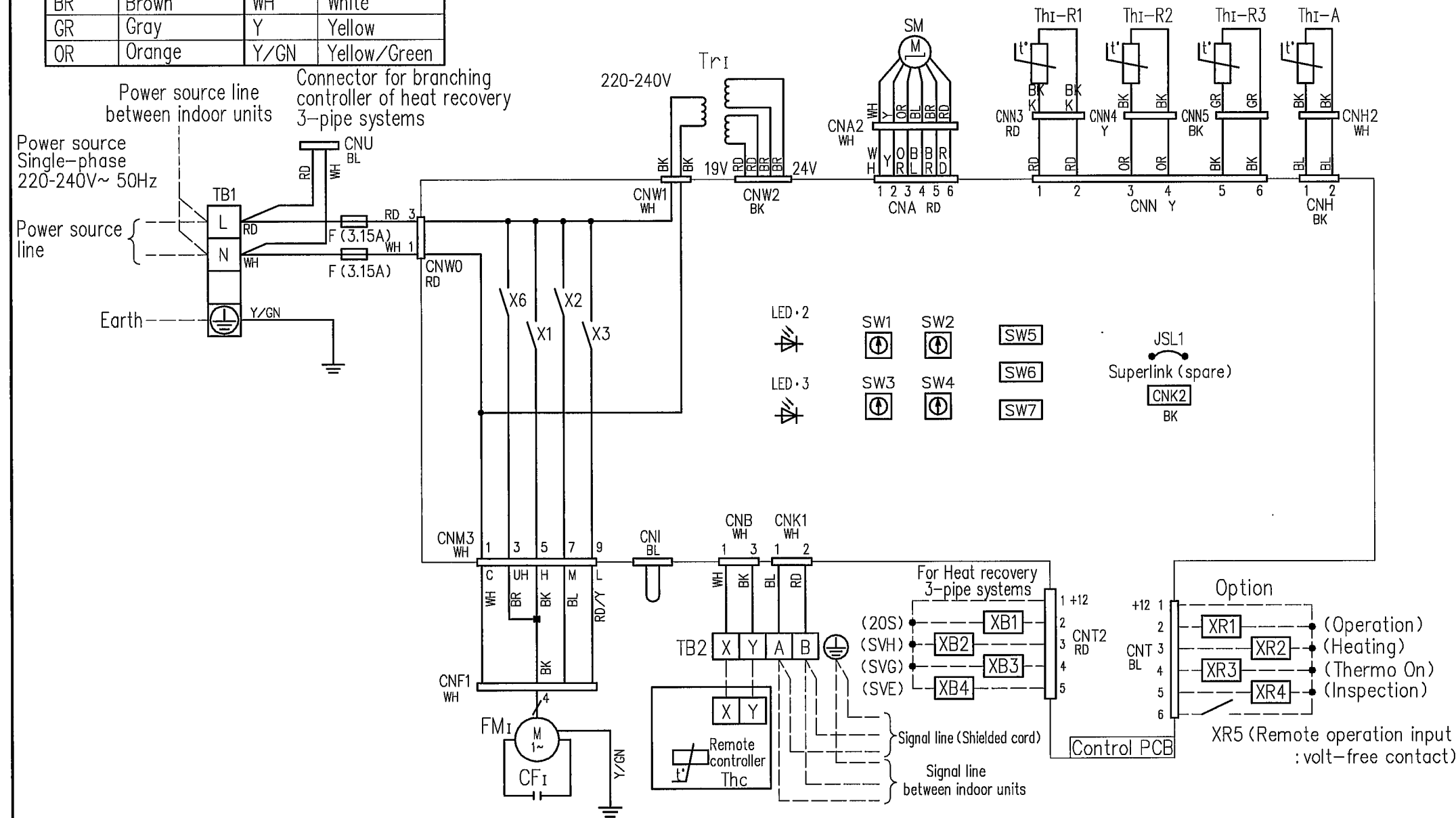
- Notes
- indicates wiring on site.
  - Use twin core cable (0.75~1.25mm<sup>2</sup>) at signal line between indoor unit and outdoor unit, and signal line between indoor units.
  - Use twin core cable (0.3mm<sup>2</sup>) at remote controller. See spec sheet of remote controller in case that the total length is more than 100m.
  - Do not put signal line and remote controller line alongside power source line.

MODEL NAME		FDE71KXE6, 112KXE6, 140KXE6	
MODEL TYPE		FDE	☞
ISSUE	CLASSIFICATION		
	WIRING DIAGRAM		
KASAHARA	DWG NO.	REV./MARK	PAGE
071026	PFA003Z742	/A	1/1



Color Marks

Mark	Color	Mark	Color
BK	Black	RD	Red
BL	Blue	RD/Y	Red/Yellow
BR	Brown	WH	White
GR	Gray	Y	Yellow
OR	Orange	Y/GN	Yellow/Green

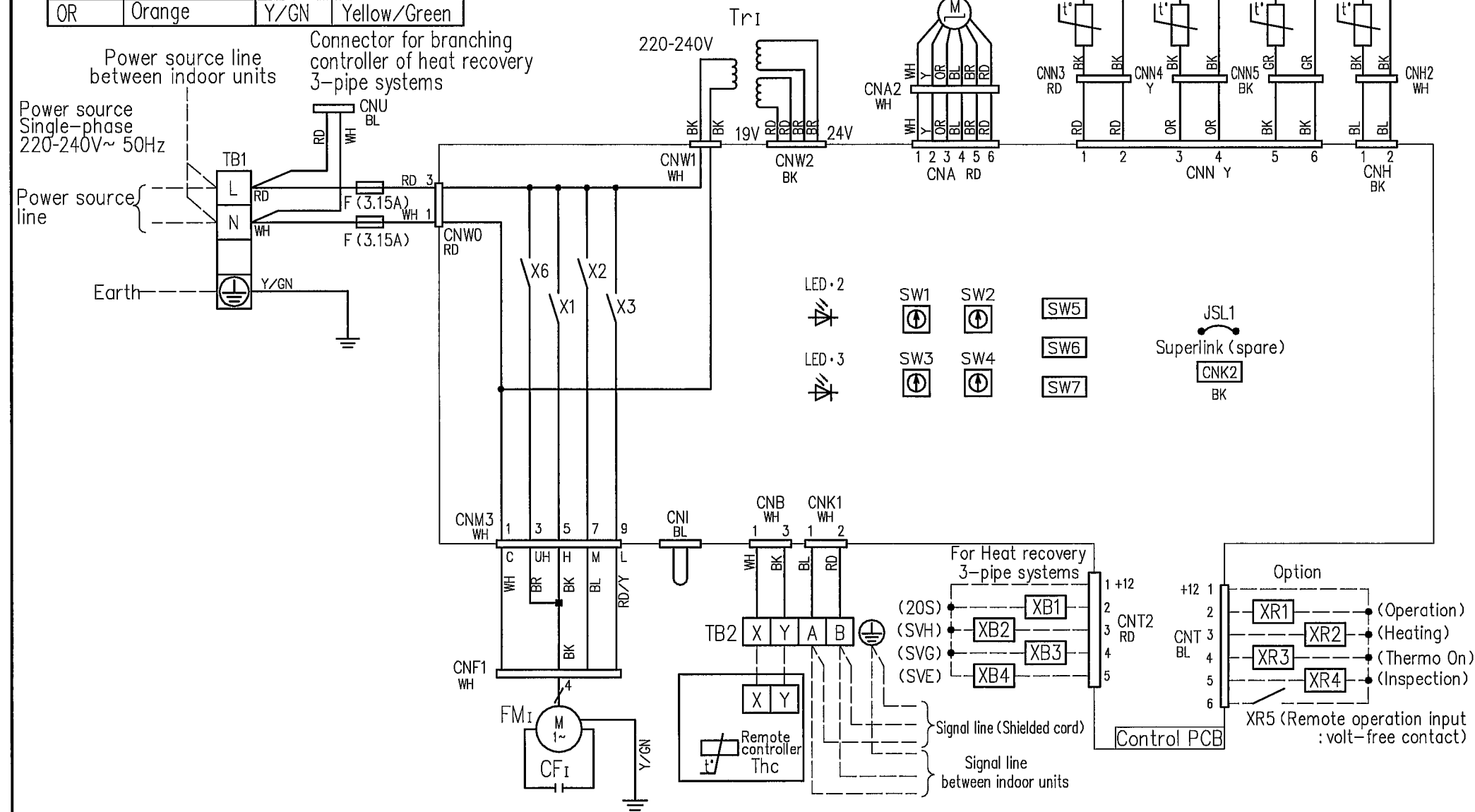


CFI	Capacitor for FMI
CNA~Z	Connector
F	Fuse
FMI	Fan motor (with thermostat)
JSL1	Live Superlink terminal setting (for spare)
LED-2	Indication lamp (Green-Normal operation)
LED-3	Indication lamp (Red-Inspection)
SM	Stepping motor (for electronic expansion valve)
SW1	Indoor unit address: tens place
SW2	Indoor unit address: ones place
SW3	Outdoor unit address: tens place
SW4	Outdoor unit address: ones place
SW5-1	Automatic adjustment/Fixed previous version of Superlink protocol
SW5-2	Indoor unit address: hundreds place
SW6	Model capacity setting
SW7-1	Operation check, Drain motor test run
TB1	Terminal block (Power source) (□mark)
TB2	Terminal block (Signal line) (□mark)
Thc	Thermistor (Remote controller)
ThI-A	Thermistor (Return air)
ThI-R1,2,3	Thermistor (Heat exchanger)
TrI	Transformer
X1~3,6	Relay for FM
■mark	Closed-end connector

- Notes
- indicates wiring on site.
  - Use twin core cord (0.75~1.25mm<sup>2</sup>) at signal line between indoor unit and outdoor unit, and signal line between indoor units.
  - Use twin core cord (0.3mm<sup>2</sup>) at remote controller line.  
See spec sheet of remote controller in case that the total length is more than 100m.
  - Do not put signal line and remote controller line alongside power source line.

MODEL NAME		FDFL28KXE6, 45KXE6, 71KXE6	
MODEL TYPE		FDFL	
ISSUE	CLASSIFICATION		
KASAHARA	WIRING DIAGRAM		
DWG NO.	REV. MARK	PAGE	
071026	PGD000Z053	1/1	

Color Marks			
Mark	Color	Mark	Color
BK	Black	RD	Red
BL	Blue	RD/Y	Red/Yellow
BR	Brown	WH	White
GR	Gray	Y	Yellow
OR	Orange	Y/GN	Yellow/Green



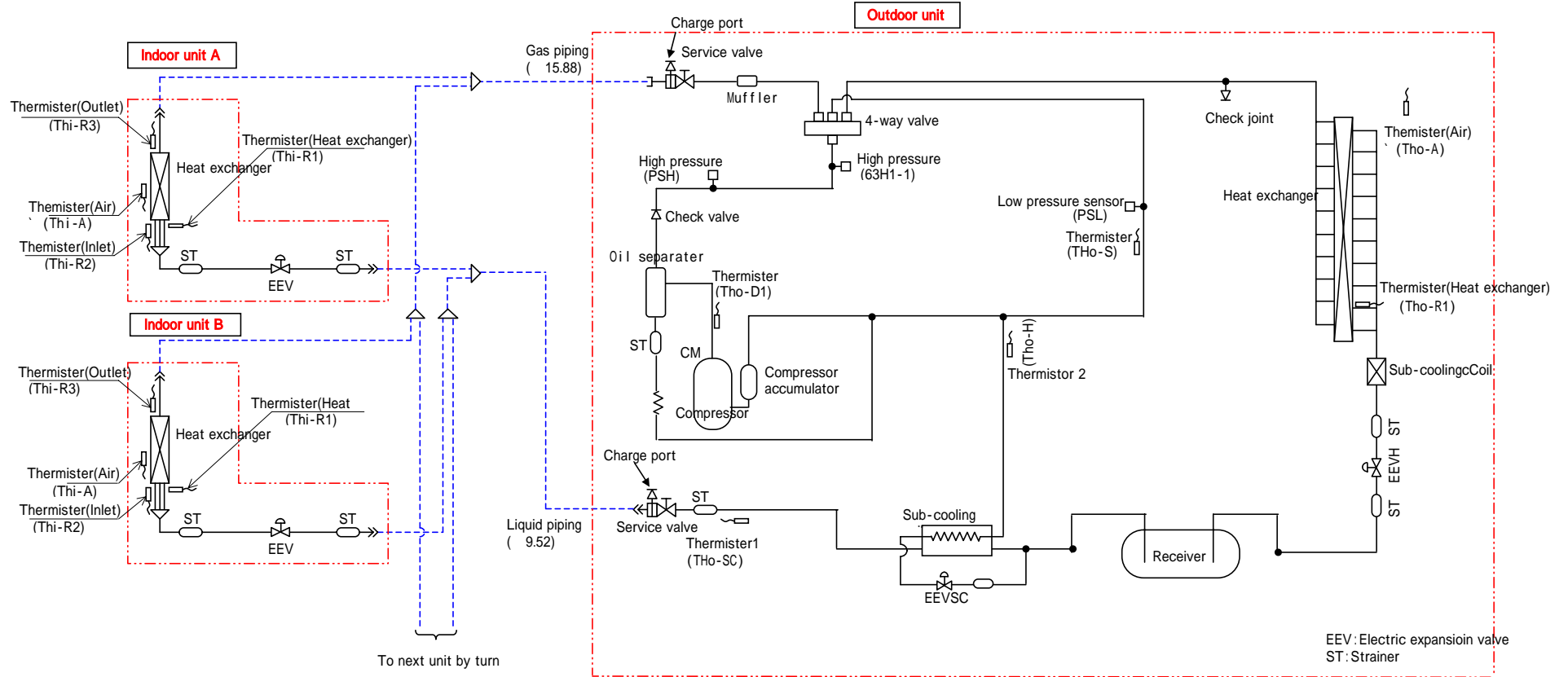
CFI	Capacitor for FMI
CNA~Z	Connector
F	Fuse
FMI	Fan motor (with thermostat)
JSL1	Live Superlink terminal setting (for spare)
LED-2	Indication lamp (Green-Normal operation)
LED-3	Indication lamp (Red-Inspection)
SM	Stepping motor (for electronic expansion valve)
SW1	Indoor unit address: tens place
SW2	Indoor unit address: one place
SW3	Outdoor unit address: tens place
SW4	Outdoor unit address: ones place
SW5-1	Automatic adjustment/Fixed previous version of Superlink protocol
SW5-2	Indoor unit address: hundreds place
SW6	Model capacity setting
SW7-1	Operation check/Drain motor test run
TB1	Terminal block (Power source) (□mark)
TB2	Terminal block (Signal line) (□mark)
Thc	Thermistor (Remote controller)
ThI-A	Thermistor (Return air)
ThI-R1,2,3	Thermistor (Heat exchanger)
TrI	Transformer
X1~3,6	Relay for FM
■mark	Closed-end connector

- Notes
- indicates wiring on site
  - Use twin core cord (0.75~1.25mm<sup>2</sup>) at signal line between indoor unit and outdoor unit, and signal line between indoor units.
  - Use twin core cord (0.3mm<sup>2</sup>) at remote controller line.  
See spec sheet of remote controller in case that the total length is more than 100m.
  - Do not put signal line and remote controller line alongside power source line.

MODEL NAME	
MODEL TYPE	FDFU
ISSUE	CLASSIFICATION
KASAHARA	WIRING DIAGRAM
071026	PGD000Z058
REV. MARK	PAGE
1/1	1/1

# Refrigerant cycle

Model : FDC112,140,155KXEN6  
 FDC112,140,155KXES6



- < Main parts >
- Compressor: RM-T5126(Twin rotary)
  - EEVH: SSA387F039A (FUJIKOKI Valve aperture 3.0mm)
  - SSA382F212K
  - EEVSC: SSA387F031(FUJIKOKI Valve aperture 1.5mm)
  - SSA382F210AD
  - Receiver: SSA352B045 (2.5L)
  - Sub-cooling coil: PCA303A001 (double tube:1153mm)
  - High pressure sensor: SSA551D024A (Check joint attached for pin)
  - Low pressure sensor: SSA551D022B (Check joint attached for pin)
  - Oil return capillary: OD2.0XID0.9XL500