

MITSUBISHI HEAVY INDUSTRIES

VRF

INWERTEROWY SYSTEM MULTISPLIT KX



SPECYFIKACJA PROJEKTOWA

Project: GiG - SL 2 - SYSTEMY 2A i 2B

Klient:

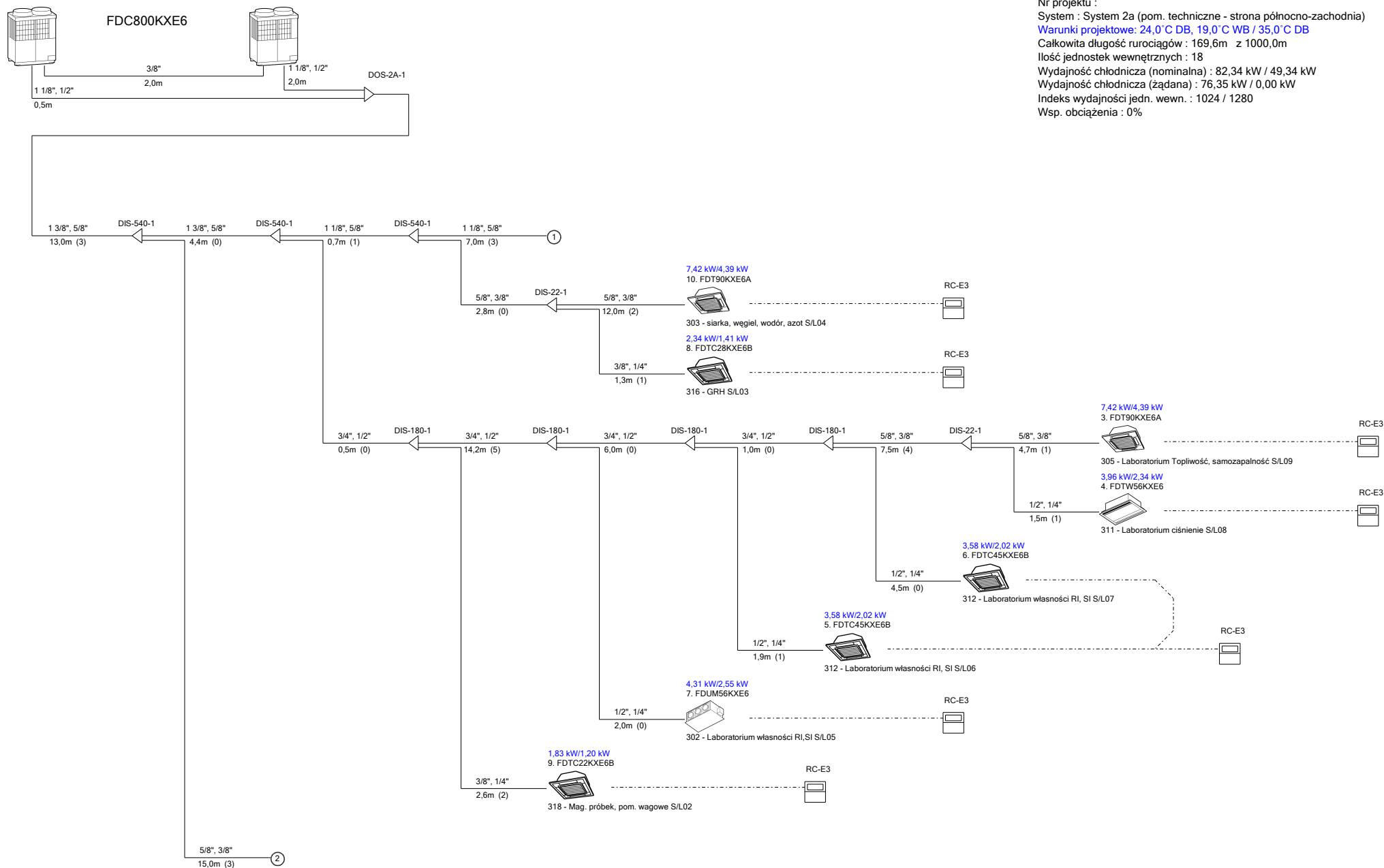
Przygotował: BJM

Lokalizacja: Katowice

Data/czas raportu: 2011-02-02 10:01

FDC400KXE6

FDC400KXE6



Projekt : GiG - SL 2 - SYSTEMY 2A i 2B

Nr projektu :

System : System 2a (pom. techniczne - strona północno-zachodnia)

Warunki projektowe: 24,0° C DB, 19,0° C WB / 35,0° C DB

Całkowita długość rurociągów : 169,6m z 1000,0m

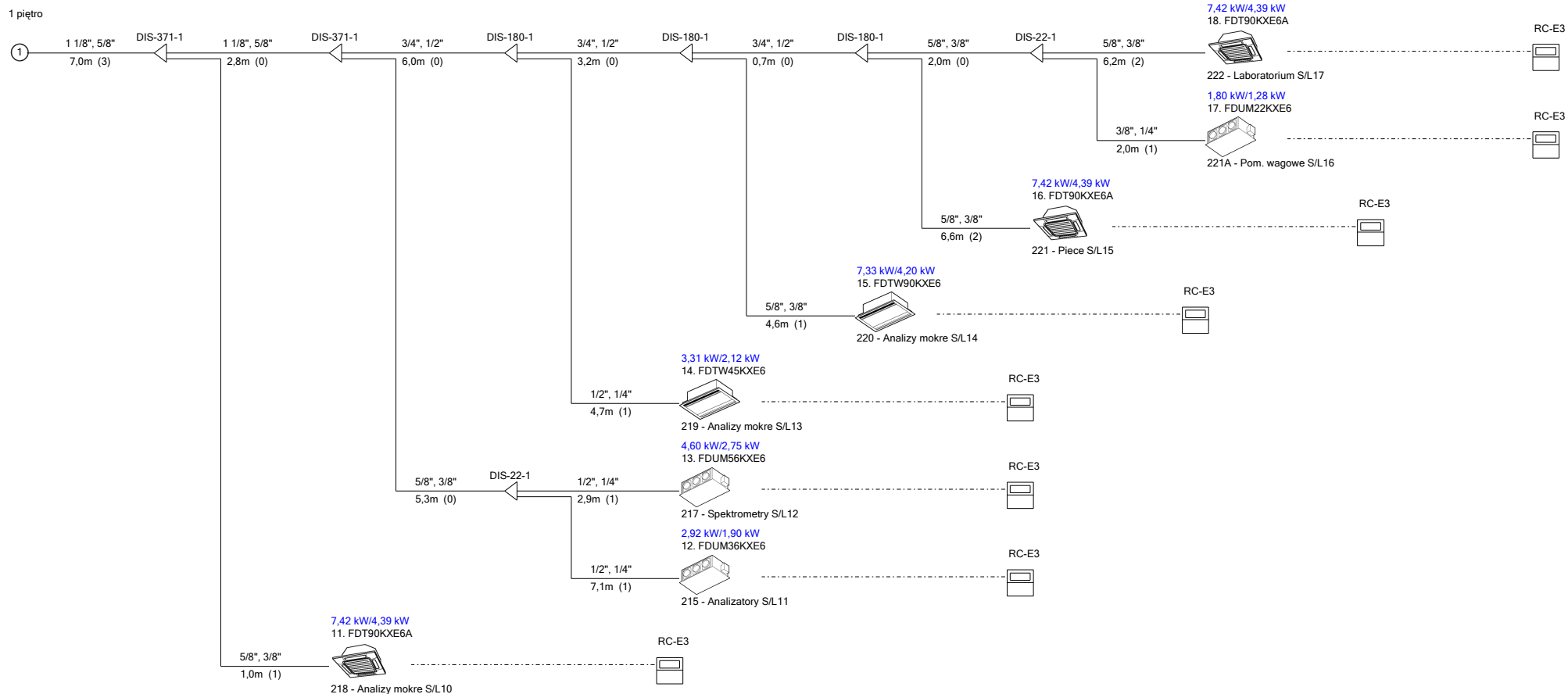
Ilość jednostek wewnętrznych : 18

Wydajność chłodnicza (nominalna) : 82,34 kW / 49,34 kW

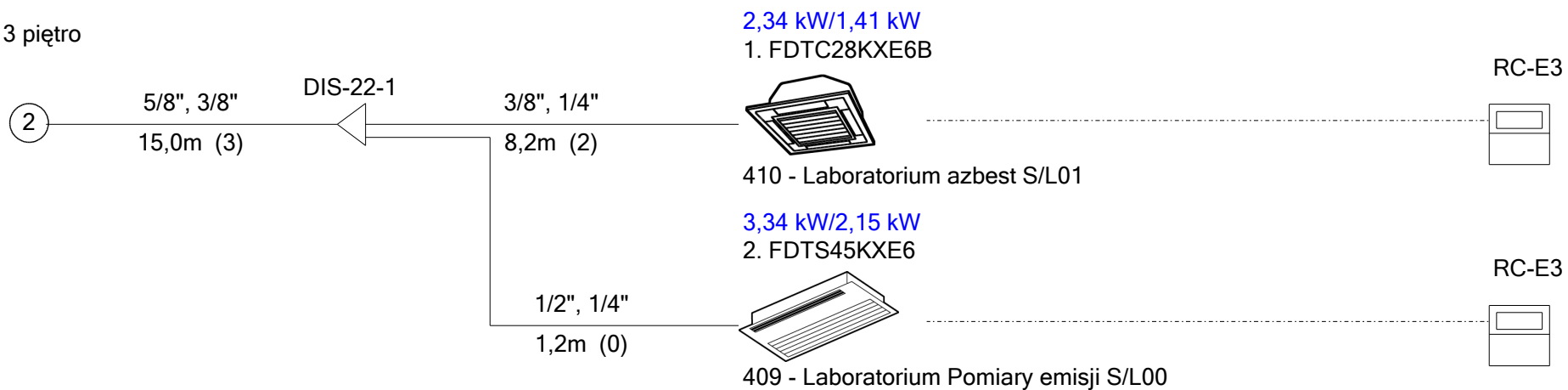
Wydajność chłodnicza (żądana) : 76,35 kW / 0,00 kW

Indeks wydajności jedn. wewn. : 1024 / 1280

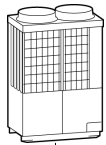
Wsp. obciążenia : 0%



3 piętro



FDC560KXE6



Projekt : GiG - SL 2 - SYSTEMY 2A i 2B

Nr projektu :

System : System 2b (pom. techniczne - strona północno-zachodnia)

Warunki projektowe: 24,0°C DB, 19,0°C WB / 35,0°C DB

Całkowita długość rurociągów : 160,8m z 1000,0m

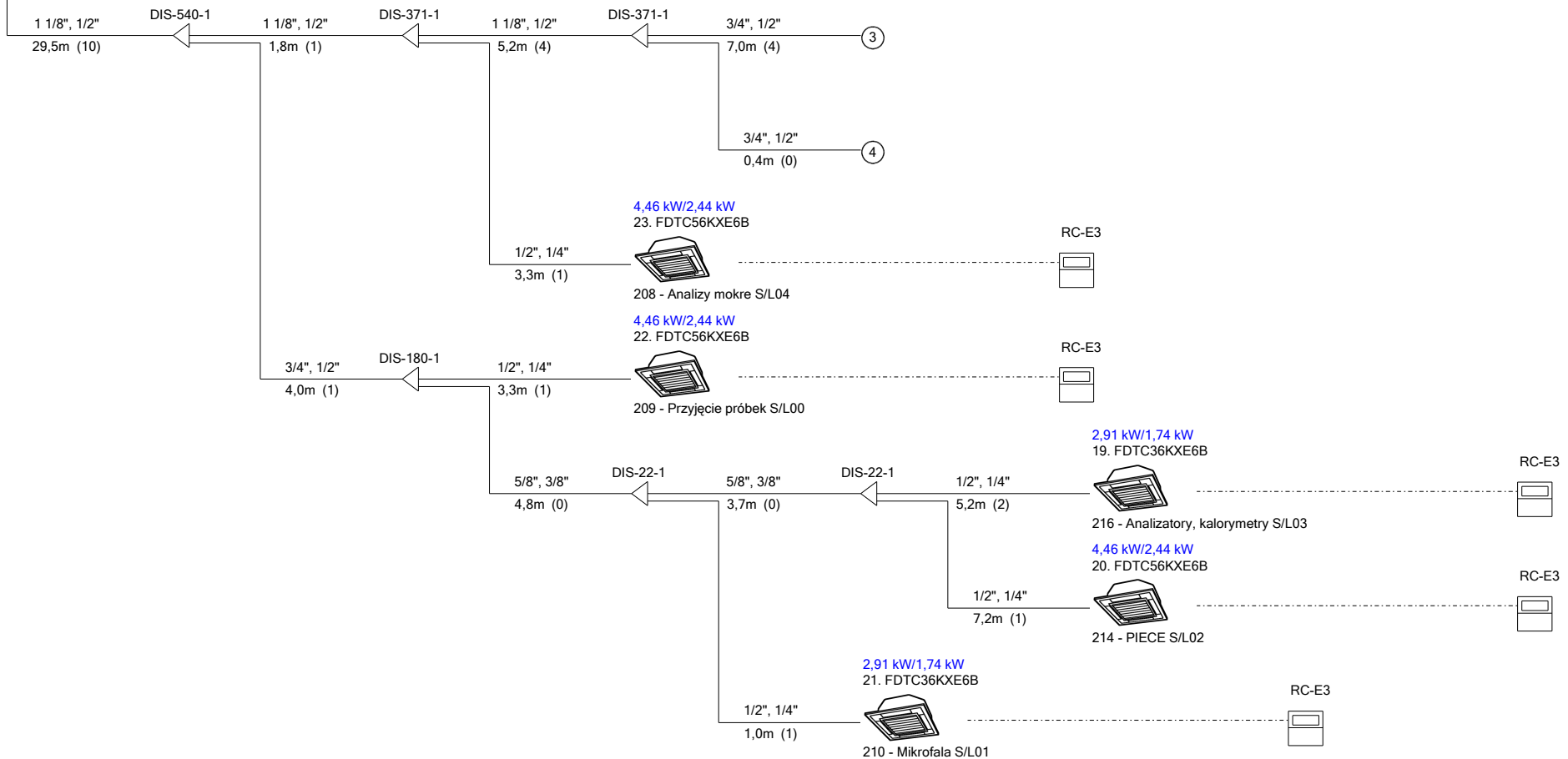
Ilość jednostek wewnętrznych : 17

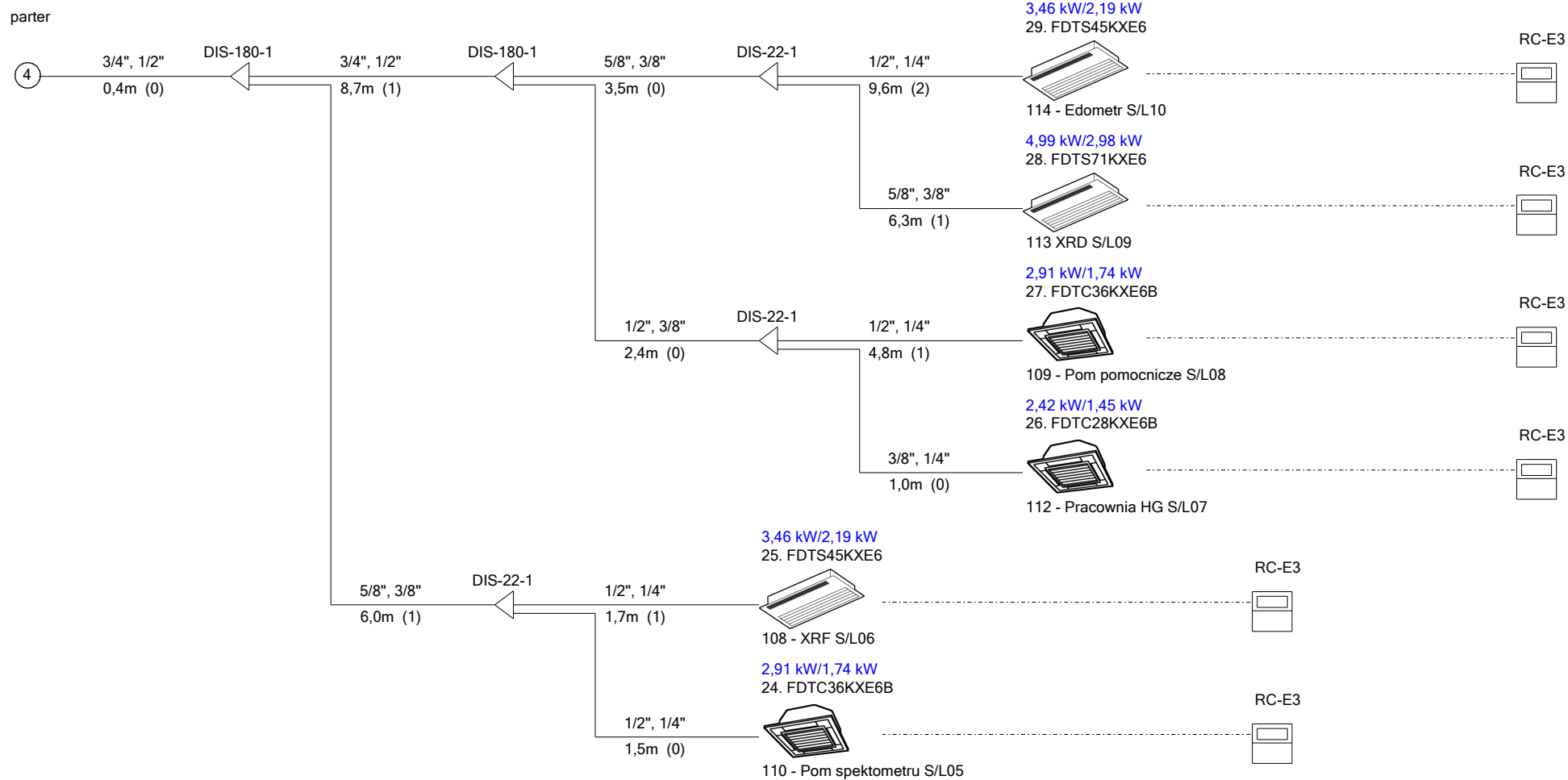
Wydajność chłodnicza (nominalna) : 56,64 kW / 33,62 kW

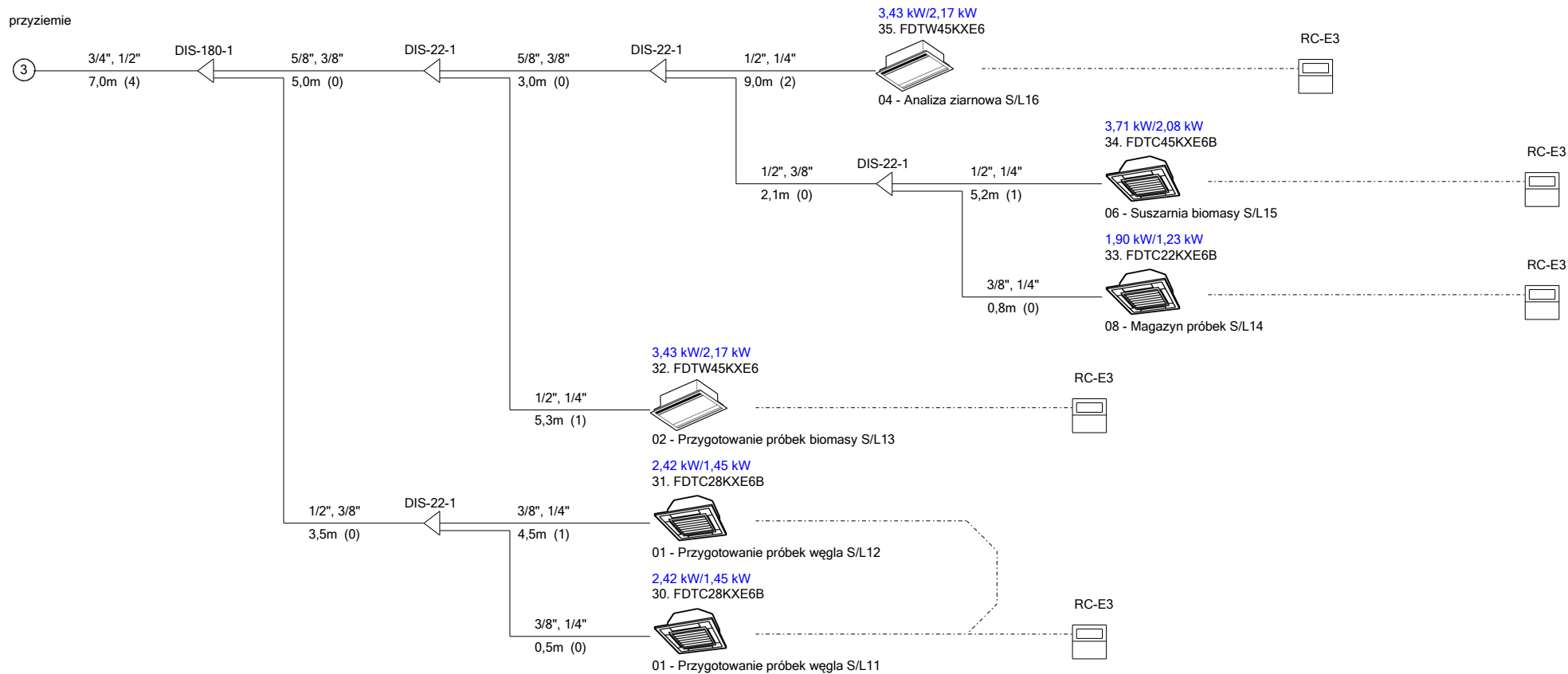
Wydajność chłodnicza (żądana) : 49,20 kW / 0,00 kW

Indeks wydajności jedn. wewn. : 714 / 896

Wsp. obciążenia : 0%







Projekt : GiG - SL 2 - SYSTEMY 2A i 2B

Nr projektu :

System : System 2a (pom. techniczne - strona północno-zachodnia)

Temperatury projektowe (chłodzenie) Temperatury projektowe (ogrzewanie)

temp. zewn. DB temp. wewn. WB temp. zewn. WB temp. wewn. DB

35,0°C 19,0°C 6,0°C 20,0°C

	Jed.	Model	Wyd. nom. (kW)			Wyd. rzeczyw. (kW)			Jedn.wewn. Lokalizacja (m)		Rzecz. Dł. (m)	Dł. (m)	Adres		
			Całkowita	Jawna	Ogrzew.	Całkowita	Jawna	Ogrzew.					S/L	O/U	I/U
Zewn.		FDC800KXE6	80,00	-	90,00	82,34	-	88,03					2	02	-
Wewn.	1	FDTC28KXE6B	2,55	1,83	2,86	2,34	1,41	1,73	Poniżej	1,2	38,2	38,2	2	02	01
Wewn.	2	FDTS45KXE6	3,64	2,84	4,02	3,34	2,15	2,43	Poniżej	1,2	31,2	31,2	2	02	00
Wewn.	3	FDT90KXE6A	8,10	5,67	9,00	7,42	4,39	5,45	Poniżej	5,4	53,3	53,3	2	02	09
Wewn.	4	FDTW56KXE6	4,32	3,03	4,82	3,96	2,34	2,92	Poniżej	5,4	50,1	50,1	2	02	08
Wewn.	5	FDTC45KXE6B	3,91	2,57	4,25	3,58	2,02	2,57	Poniżej	5,4	42,0	42,0	2	02	06
Wewn.	6	FDTC45KXE6B	3,91	2,57	4,25	3,58	2,02	2,57	Poniżej	5,4	45,6	45,6	2	02	07
Wewn.	7	FDUM56KXE6	4,70	3,29	5,17	4,31	2,55	3,13	Poniżej	5,4	36,1	36,1	2	02	05
Wewn.	8	FDTC28KXE6B	2,55	1,83	2,86	2,34	1,41	1,73	Poniżej	5,4	24,2	24,2	2	02	03
Wewn.	9	FDTC22KXE6B	2,00	1,61	2,23	1,83	1,20	1,35	Poniżej	5,4	22,5	22,5	2	02	02
Wewn.	10	FDT90KXE6A	8,10	5,67	9,00	7,42	4,39	5,45	Poniżej	5,4	34,9	34,9	2	02	04
Wewn.	11	FDT90KXE6A	8,10	5,67	9,00	7,42	4,39	5,45	Poniżej	9,6	28,1	28,1	2	02	10
Wewn.	12	FDUM36KXE6	3,19	2,52	3,50	2,92	1,90	2,12	Poniżej	9,6	42,3	42,3	2	02	11
Wewn.	13	FDUM56KXE6	5,02	2,29	5,56	4,60	2,75	3,37	Poniżej	9,6	38,1	38,1	2	02	12
Wewn.	14	FDTW45KXE6	3,61	2,79	3,96	3,31	2,12	2,40	Poniżej	9,6	40,6	40,6	2	02	13
Wewn.	15	FDTW90KXE6	8,00	3,45	8,90	7,33	4,20	5,39	Poniżej	9,6	43,7	43,7	2	02	14
Wewn.	16	FDT90KXE6A	8,10	5,67	9,00	7,42	4,39	5,45	Poniżej	9,6	46,4	46,4	2	02	15
Wewn.	17	FDUM22KXE6	1,96	1,72	2,18	1,80	1,28	1,32	Poniżej	9,6	43,8	43,8	2	02	16
Wewn.	18	FDT90KXE6A	8,10	5,67	9,00	7,42	4,39	5,45	Poniżej	9,6	48,0	48,0	2	02	17
ŁĄCZNIE			89,86	60,69	99,56	82,34	49,34	60,29							

System : System 2b (pom. techniczne - strona północno-zachodnia)

Temperatury projektowe (chłodzenie) Temperatury projektowe (ogrzewanie)

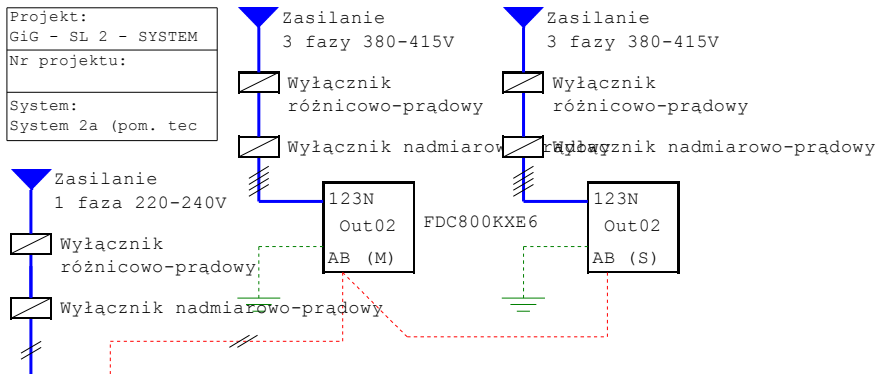
temp. zewn. DB temp. wewn. WB temp. zewn. WB temp. wewn. DB

35,0°C 19,0°C 6,0°C 20,0°C

	Jed.	Model	Wyd. nom. (kW)			Wyd. rzeczyw. (kW)			Jedn.wewn. Lokalizacja (m)		Rzecz. Dł. (m)	Dł. (m)	Adres		
			Całkowita	Jawna	Ogrzew.	Całkowita	Jawna	Ogrzew.					S/L	O/U	I/U
Zewn.		FDC560KXE6	56,00	-	63,00	56,64	-	60,29					3	04	-
Wewn.	19	FDTC36KXE6B	3,06	2,20	3,33	2,91	1,74	3,06	Poniżej	9,6	47,2	47,2	3	04	03
Wewn.	20	FDTC56KXE6B	4,70	2,95	5,13	4,46	2,44	4,72	Poniżej	9,6	49,2	49,2	3	04	02
Wewn.	21	FDTC36KXE6B	3,06	2,20	3,33	2,91	1,74	3,06	Poniżej	9,6	39,3	39,3	3	04	01
Wewn.	22	FDTC56KXE6B	4,70	2,95	5,13	4,46	2,44	4,72	Poniżej	9,6	36,8	36,8	3	04	00
Wewn.	23	FDTC56KXE6B	4,70	2,95	5,13	4,46	2,44	4,72	Poniżej	9,6	34,6	34,6	3	04	04

Wewn.	24	FDTC36KXE6B	3,06	2,20	3,33	2,91	1,74	3,06	Poniżej	13,6	44,4	44,4	3	04	05
Wewn.	25	FDTS45KXE6	3,64	2,84	4,02	3,46	2,19	3,70	Poniżej	13,6	44,6	44,6	3	04	06
Wewn.	26	FDTC28KXE6B	2,55	1,83	2,86	2,42	1,45	2,63	Poniżej	13,6	49,0	49,0	3	04	07
Wewn.	27	FDTC36KXE6B	3,06	2,20	3,33	2,91	1,74	3,06	Poniżej	13,6	52,8	52,8	3	04	08
Wewn.	28	FDTS71KXE6	5,25	3,78	5,77	4,99	2,98	5,31	Poniżej	13,6	55,4	55,4	3	04	09
Wewn.	29	FDTS45KXE6	3,64	2,84	4,02	3,46	2,19	3,70	Poniżej	13,6	58,7	58,7	3	04	10
Wewn.	30	FDTC28KXE6B	2,55	1,83	2,86	2,42	1,45	2,63	Poniżej	18,0	47,5	47,5	3	04	11
Wewn.	31	FDTC28KXE6B	2,55	1,83	2,86	2,42	1,45	2,63	Poniżej	18,0	51,5	51,5	3	04	12
Wewn.	32	FDTW45KXE6	3,61	2,79	3,96	3,43	2,17	3,64	Poniżej	18,0	53,8	53,8	3	04	13
Wewn.	33	FDTC22KXE6B	2,00	1,61	2,23	1,90	1,23	2,05	Poniżej	18,0	54,4	54,4	3	04	14
Wewn.	34	FDTC45KXE6B	3,91	2,57	4,25	3,71	2,08	3,91	Poniżej	18,0	58,8	58,8	3	04	15
Wewn.	35	FDTW45KXE6	3,61	2,79	3,96	3,43	2,17	3,64	Poniżej	18,0	60,5	60,5	3	04	16
ŁĄCZNIE			59,65	42,37	65,50	56,64	33,62	60,29							

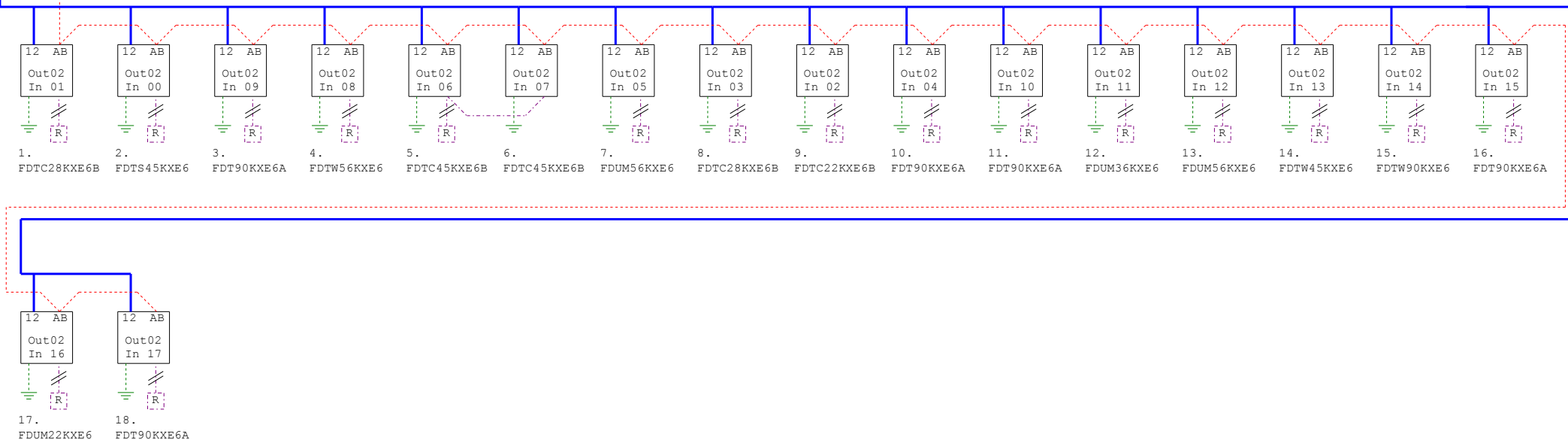
Projekt:
GiG - SL 2 - SYSTEM
Nr projektu:
System:
System 2a (pom. tec



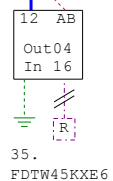
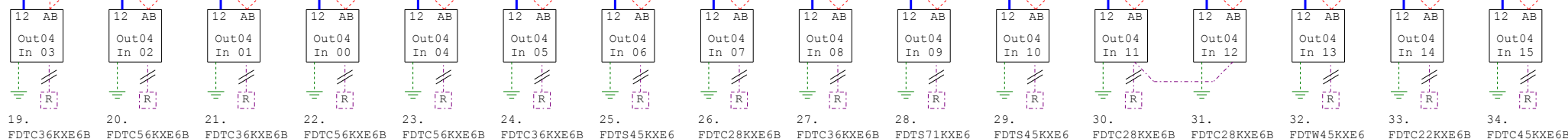
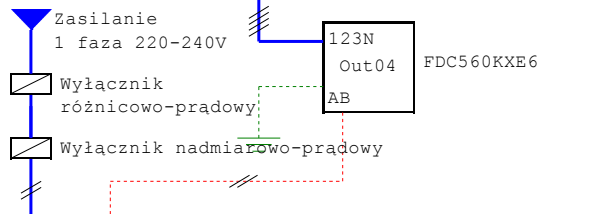
Jedn. zewn.	380v	415v
Prąd pracy (A)	36,80/39,20	36,80/39,20
Współczynnik mocy (%)	93/91	93/91
Prąd rozruchu (A)	16,00	
Max Current (A)	47+47	
Pobór mocy el. (kW)	22,54/23,46	

Jedn. wewn. (chł./ogrz.)	220v	240v
Całk. pobór mocy el. (kW)	1,54/1,52	1,72/1,70
Całkowity prąd pracy (A)	6,92/6,92	7,12/7,12

Schematy elektryczne mają charakter wyłącznie poglądowy.
Instalację elektryczną wykonać zgodnie z obowiązującymi normami.



Projekt:
GiG - SL 2 - SYSTEM
Nr projektu:
System:
System 2b (pom. tec)



Jedn. zewn.	380v	415v
Prąd pracy (A)	27,40/28,00	27,40/28,00
Współczynnik mocy (%)	93/91	93/91
Prąd rozruchu (A)	8,00	
Max Current (A)	47	
Pobór mocy el. (kW)	16,79/16,79	

Jedn. wewn. (chł./ogrz.)	220v	240v
Całk. pobór mocy el. (kW)	0,88/0,84	0,97/0,93
Całkowity prąd pracy (A)	3,73/3,73	3,74/3,74

Schematy elektryczne mają charakter wyłącznie poglądowy.
Instalację elektryczną wykonać zgodnie z obowiązującymi normami.

Lista materiałów w projekcie

Projekt : GiG - SL 2 - SYSTEMY 2A i 2B

Nr projektu :

W projekcie nie występują sterowniki centralne i sterowniki BMS

Lista materiałów w systemie

Projekt : GiG - SL 2 - SYSTEMY 2A i 2B

Nr projektu :

System : System 2a (pom. techniczne - strona północno-zachodnia)

Jedn. zewn.	Ilość
FDC400KXE6	2

Jedn.wewn.	Ilość
FDTC28KXE6B	2
FDTS45KXE6	1
FDTC22KXE6B	1
FDT90KXE6A	5
FDUM56KXE6	2
FDTC45KXE6B	2
FDTW56KXE6	1
FDUM36KXE6	1
FDTW45KXE6	1
FDTW90KXE6	1
FDUM22KXE6	1

Panel	Ilość
TC-PSA-25W-E	5
TS-PSA-29W-E	1
T-PSA-36W-E	5
TW-PSA-24W-E	2
TW-PSA-34W-E	1

Trójnik	Ilość
DIS-540-1	3
DIS-371-1	2
DIS-180-1	7
DIS-22-1	5

Rozdzielacz dla jednostek zewnętrznych	Ilość
DOS-2A-1	1

Sterowniki	Ilość
RC-E3	17

Dod. ilość czynnika chl.	16,6 kg
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Średnica rurociągu	Całkowita dł. (m)
1/4"	39,9
3/8"	83,8
1/2"	59,9
5/8"	95,6
3/4"	31,6
1 1/8"	13,0
1 3/8"	17,4

Lista materiałów w systemie

Projekt : GiG - SL 2 - SYSTEMY 2A i 2B

Nr projektu :

System : System 2b (pom. techniczne - strona północno-zachodnia)

Jedn. zewn.	Ilość
FDC560KXE6	1

Jedn.wewn.	Ilość
FDT36KXE6B	4
FDT36KXE6B	3
FDT345KXE6	2
FDT328KXE6B	3
FDT371KXE6	1
FDTW45KXE6	2
FDT322KXE6B	1
FDT345KXE6B	1

Panel	Ilość
TC-PSA-25W-E	12
TS-PSA-29W-E	2
TS-PSA-39W-E	1
TW-PSA-24W-E	2

Trójnik	Ilość
DIS-540-1	1
DIS-180-1	4
DIS-22-1	9
DIS-371-1	2

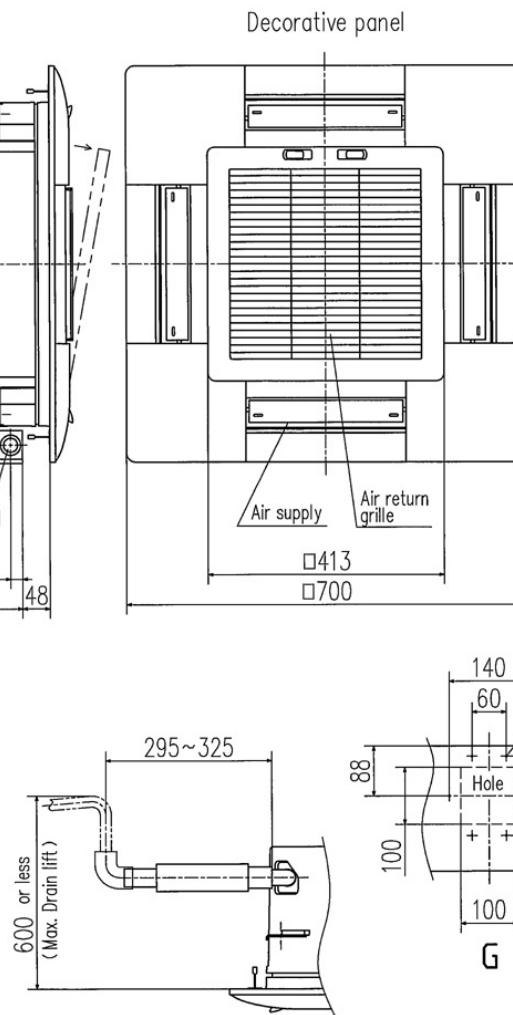
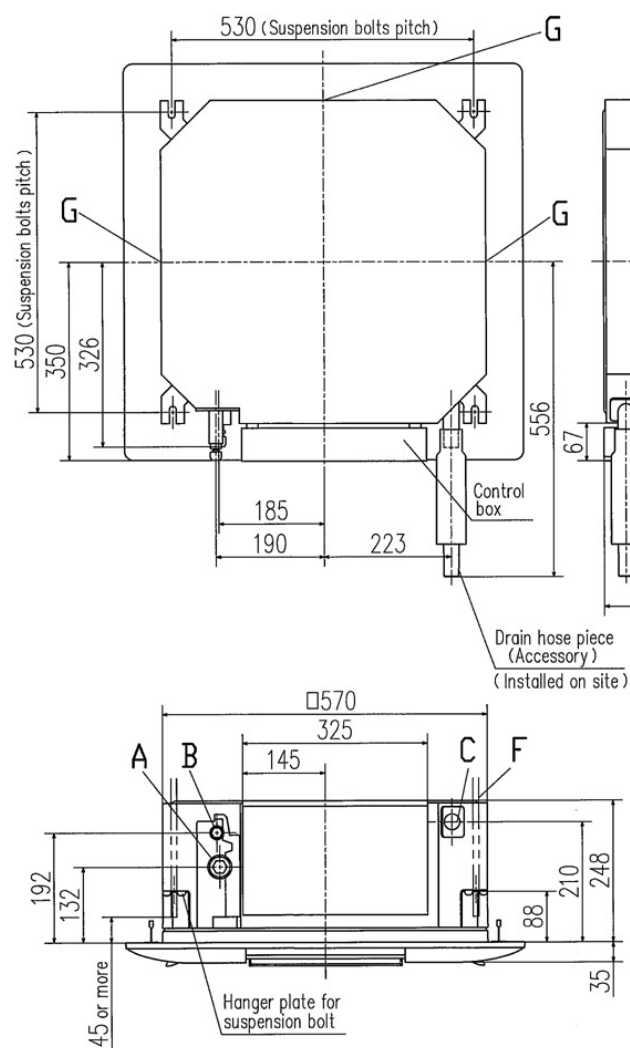
Sterowniki	Ilość
RC-E3	16

Dod. ilość czynnika chł.	16,5 kg
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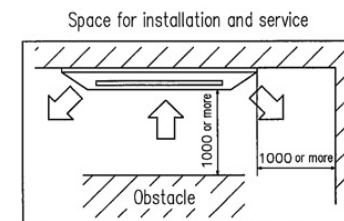
Średnica rurociągu	Całkowita dł. (m)
1/4"	63,9
3/8"	47,1
1/2"	121,7
5/8"	32,3
3/4"	20,1
1 1/8"	36,5

FDTC28KXE6D,28KXE6B

Unit:mm

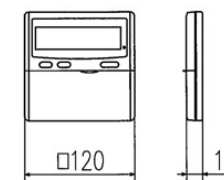


Symbol	Content		
	Model	22,28	36,45,56
A	Gas piping	φ9.52 (3/8") (Flare)	φ12.7 (1/2") (Flare)
B	Liquid piping	φ6.35 (1/4") (Flare)	
C	Drain piping	VP20 (I.D.20,O.D.26)	Note (2)
D	Hole for wiring	φ25	
F	Suspension bolts	(M10 or M8)	
G	Air outlet opening for ducting	(Knock out)	



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

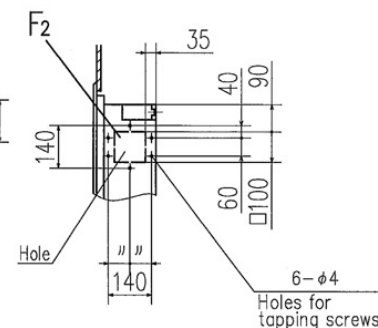
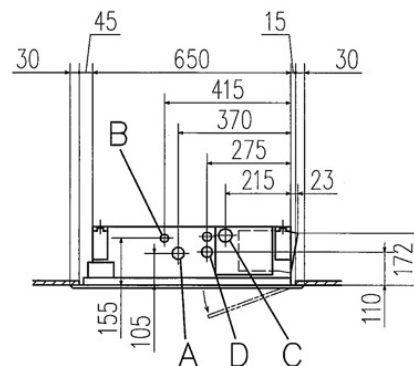
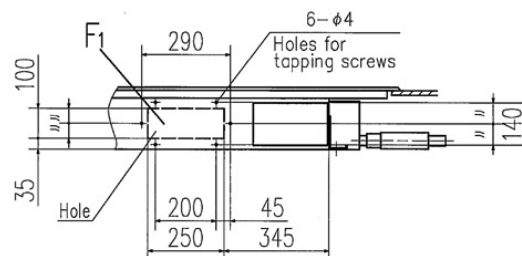
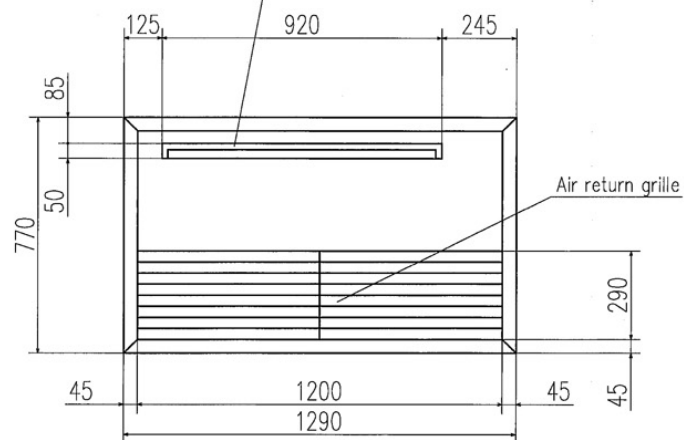
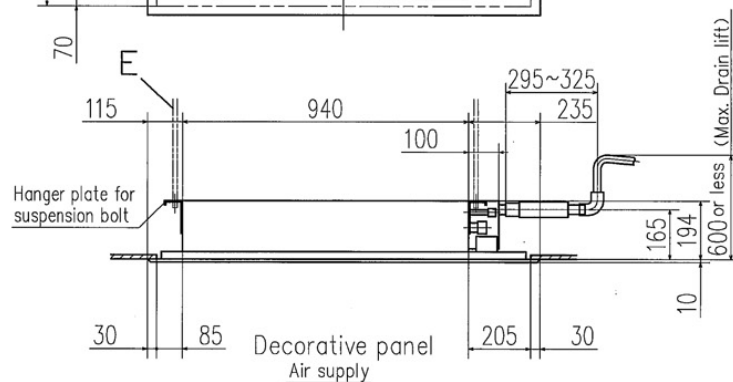
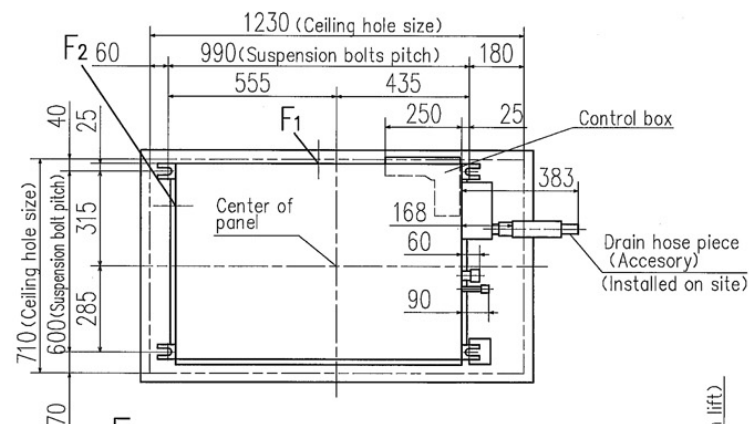
Remote controller
(Option)



- Notes (1) The model name label is attached on the control box lid.
(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.

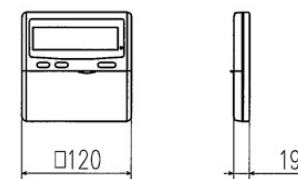
FDT545KXE6D,45KXE6

Unit:mm

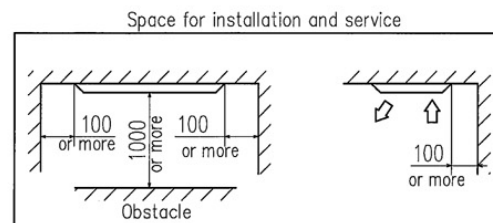


Symbol	Content	
A	Gas piping	φ12.7 (1/2") (Flare)
B	Liquid piping	φ6.35 (1/4") (Flare)
C	Drain piping	VP20 Note (2)
D	Hole for wiring	φ35
E	Suspension bolts	(M10)
F1,2	Outside air opening for ducting	(Knock out)

Remote controller
(Option)



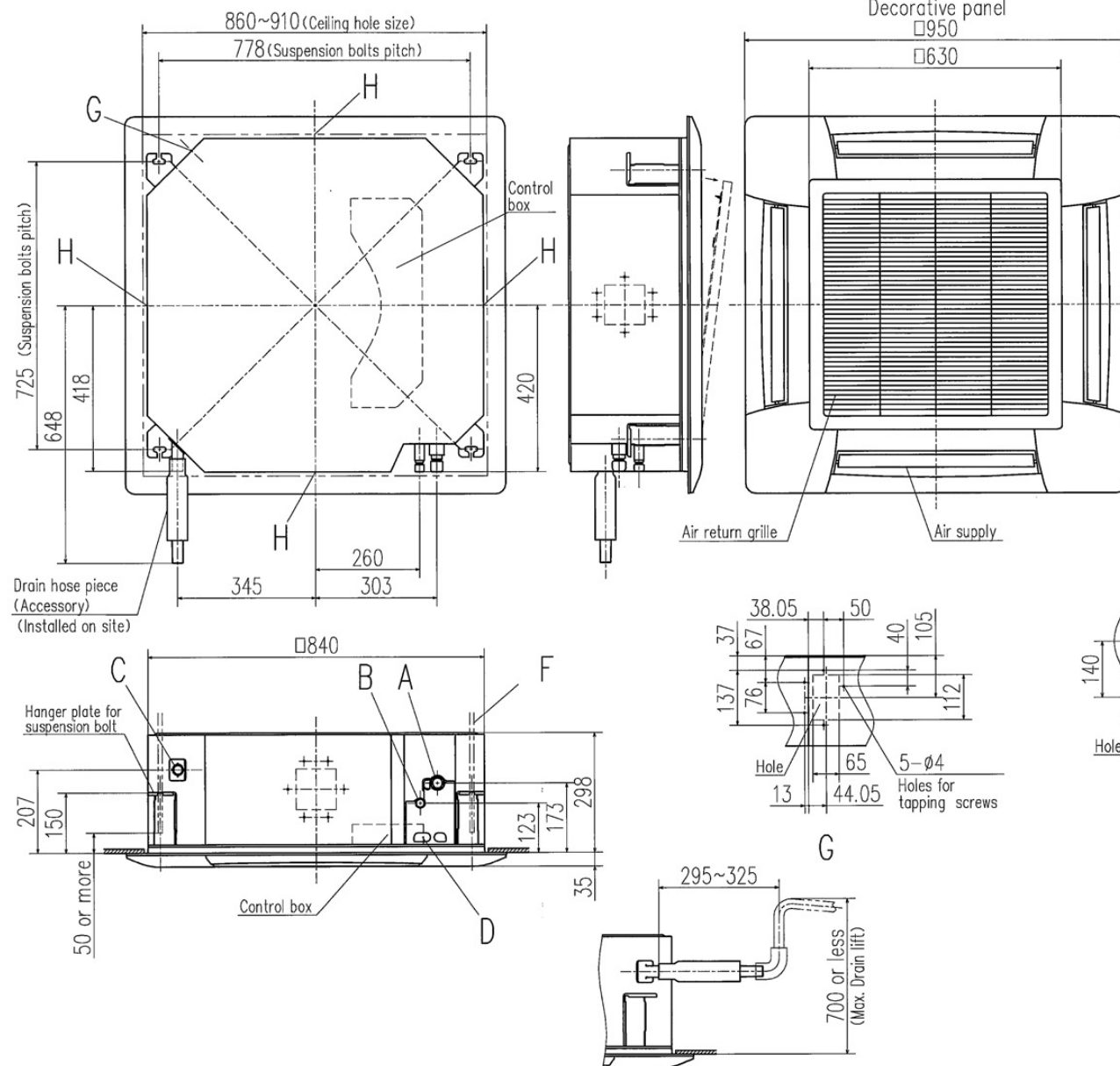
- Notes (1) The model name label is attached on the fan case inside the air return grille.
(2) Prepare the connecting socket (VP20) on site.



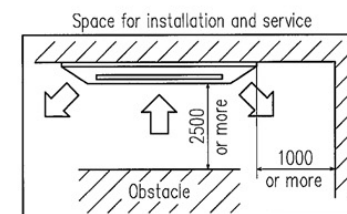
Make a space of 4000 or more between the units when installing more than one.

FDT90KXE6D,90KXE6A

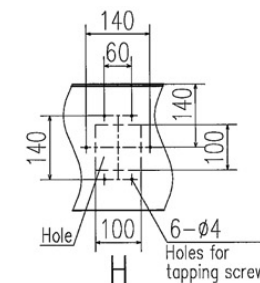
Unit:mm



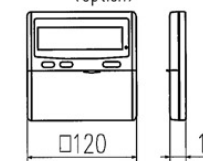
Symbol	Content	
A	Gas piping	φ15.88 (5/8") (Flare)
B	Liquid piping	φ9.52 (3/8") (Flare)
C	Drain piping	VP20 Note (2)
D	Hole for wiring	
F	Suspension bolts	(M10 or M8)
G	Outside air opening for ducting	(Knock out)
H	Air outlet opening for ducting	(Knock out)



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



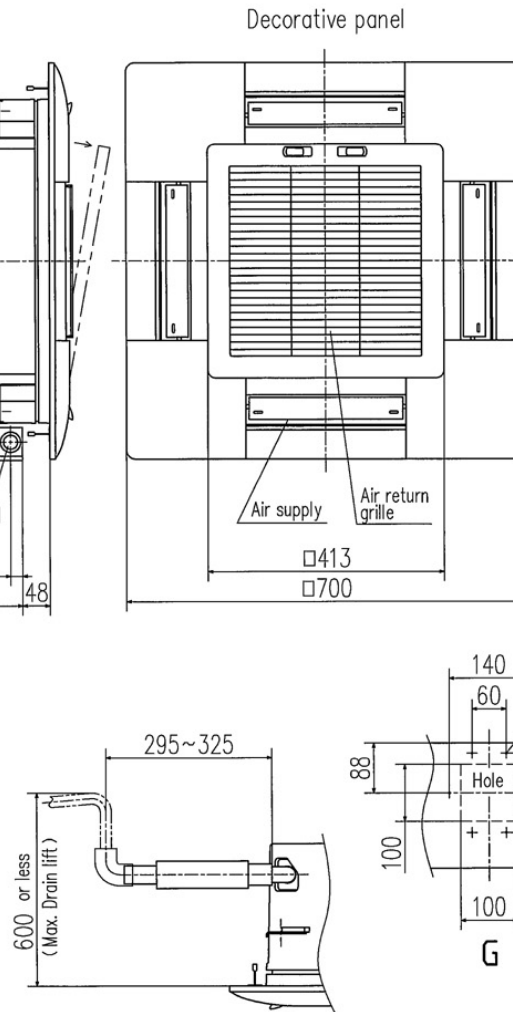
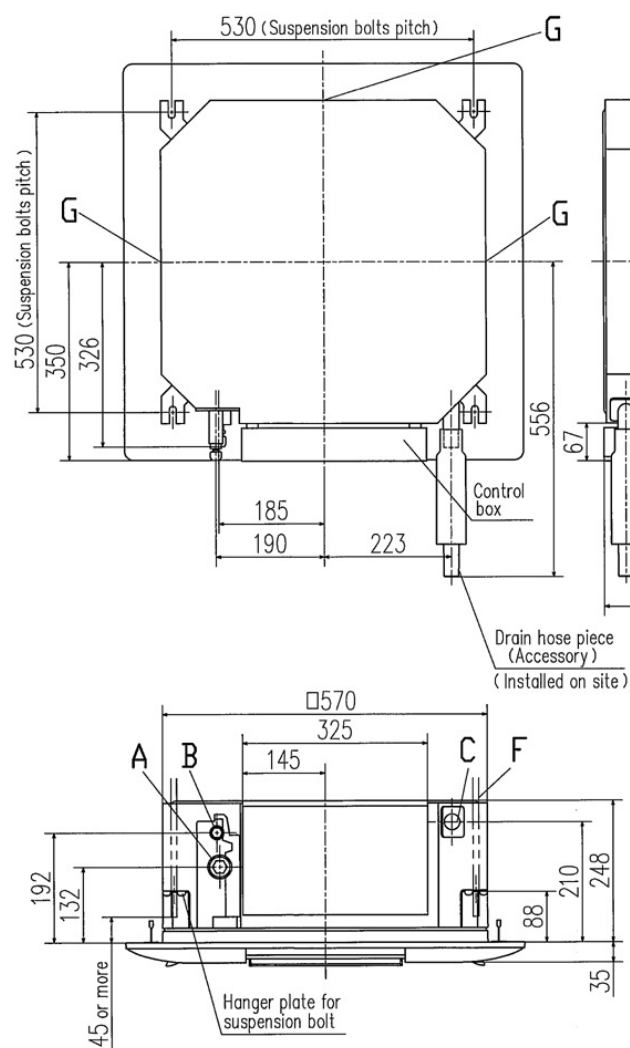
Remote controller
(Option)



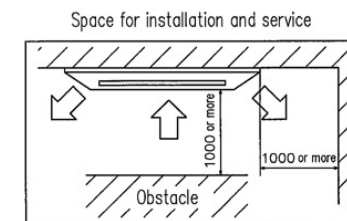
- Notes (1) The model name label is attached inside the air return grille.
(2) Prepare the connecting socket (VP20) on site.

FDTC45KXE6D,45KXE6B

Unit:mm

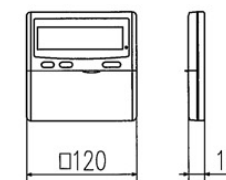


Symbol	Content	Model	22,28	36,45,56
A	Gas piping		φ9.52 (3/8") (Flare)	φ12.7 (1/2") (Flare)
B	Liquid piping		φ6.35 (1/4") (Flare)	
C	Drain piping		VP20 (I.D.20,O.D.26)	Note (2)
D	Hole for wiring		φ25	
F	Suspension bolts		(M10 or M8)	
G	Air outlet opening for ducting		(Knock out)	



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

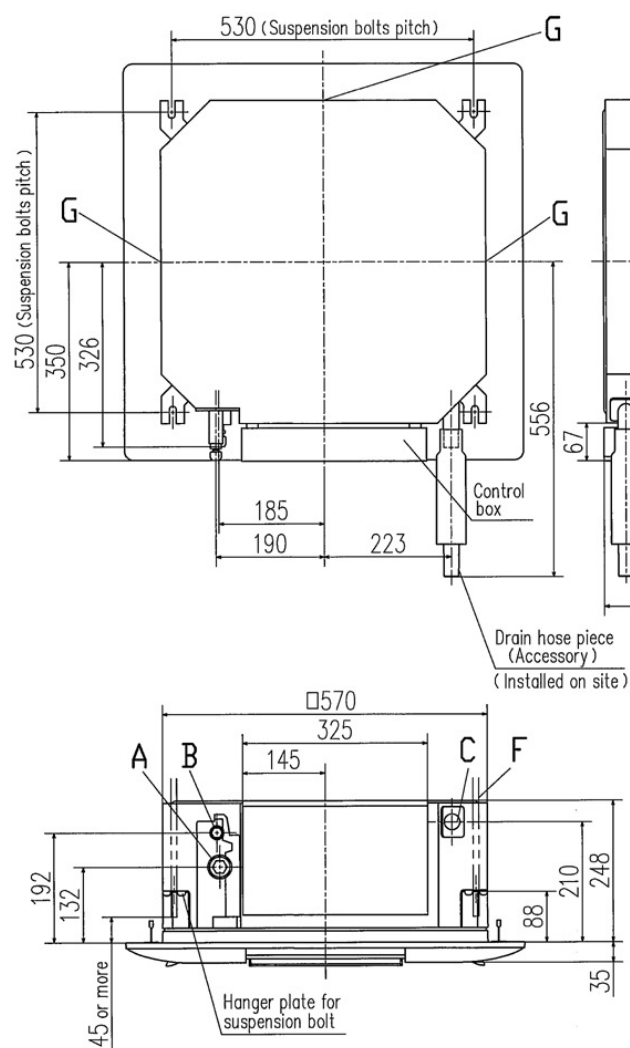
Remote controller
(Option)



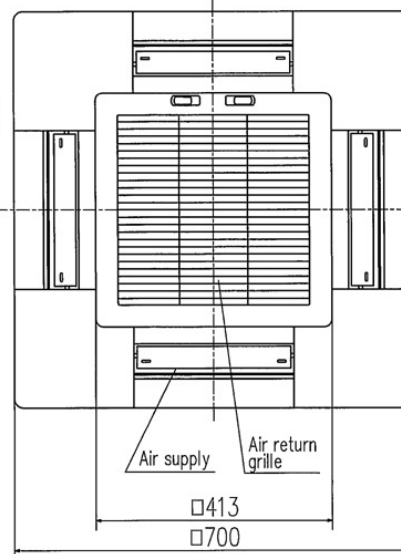
- Notes (1) The model name label is attached on the control box lid.
(2) Prepare the connecting socket (VP20) on site.
(3) This unit is designed for 2x2 grid ceiling.
If it is installed on a ceiling other than 2x2 grid ceiling,
provide an inspection port on the control box side.

FDTC22KXE6D,22KXE6B

Unit:mm

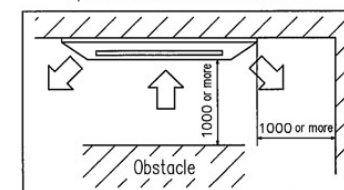


Decorative panel

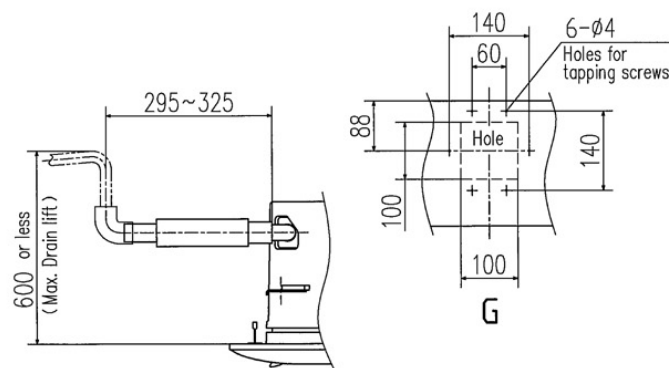


Symbol	Content		
	Model	22,28	36,45,56
A	Gas piping	φ9.52 (3/8") (Flare)	φ12.7 (1/2") (Flare)
B	Liquid piping	φ6.35 (1/4") (Flare)	
C	Drain piping	VP20 (I.D.20,O.D.26) Note (2)	
D	Hole for wiring	φ25	
F	Suspension bolts	(M10 or M8)	
G	Air outlet opening for ducting	(Knock out)	

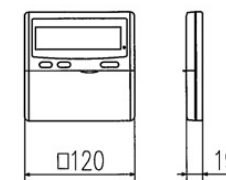
Space for installation and service



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



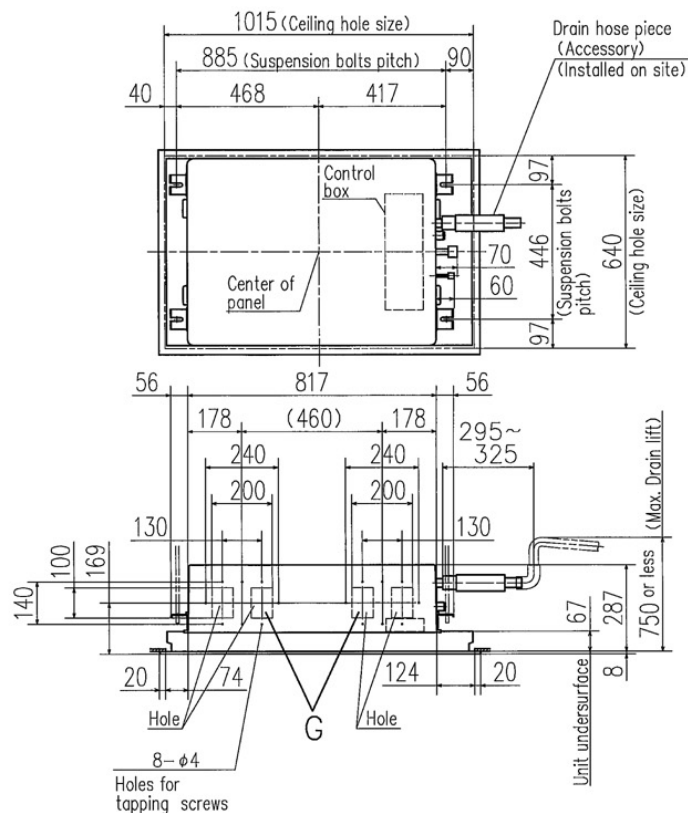
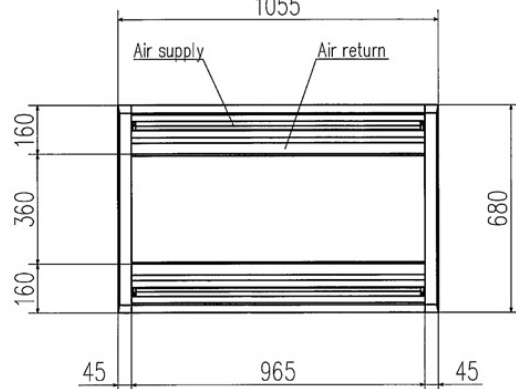
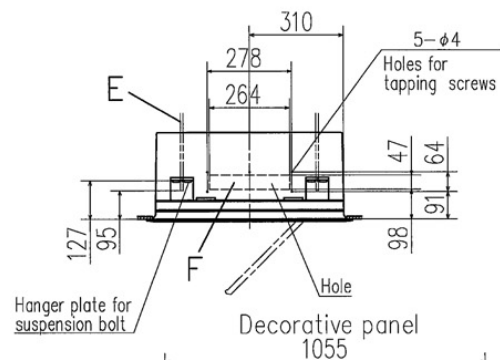
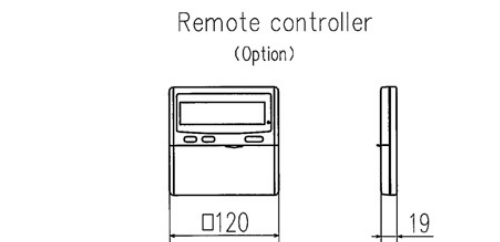
Remote controller
(Option)



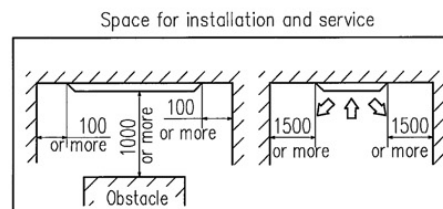
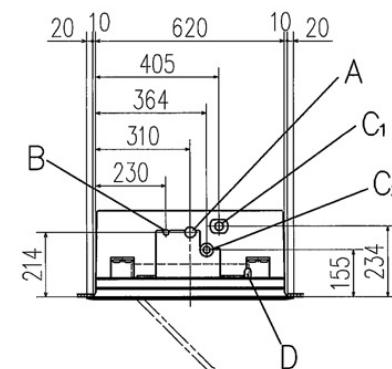
- Notes (1) The model name label is attached on the control box lid.
 (2) Prepare the connecting socket (VP20) on site.
 (3) This unit is designed for 2x2 grid ceiling.
 If it is installed on a ceiling other than 2x2 grid ceiling,
 provide an inspection port on the control box side.

FDTW45KXE6D,45KXE6

Unit:mm



Symbol	Content	28	45,56
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	(Knock out)	
E	Suspension bolts	(M10)	
F	Outside air opening for ducting	(Knock out)	
G	Air outlet opening for ducting	(Knock out)	

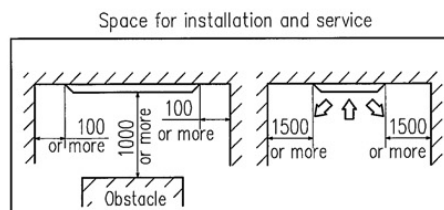
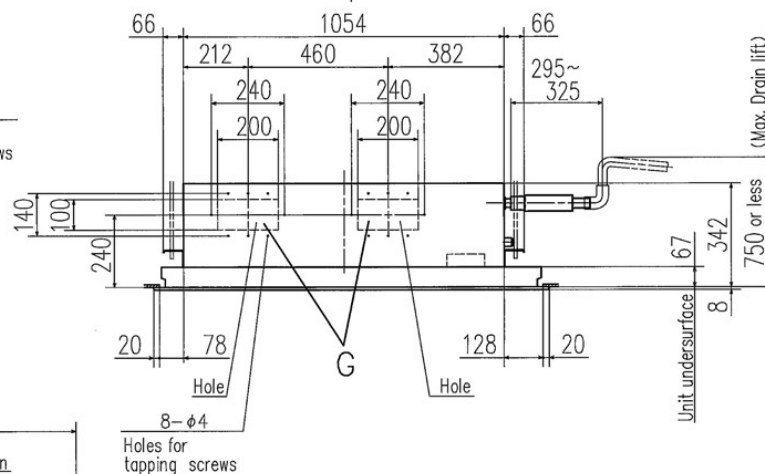
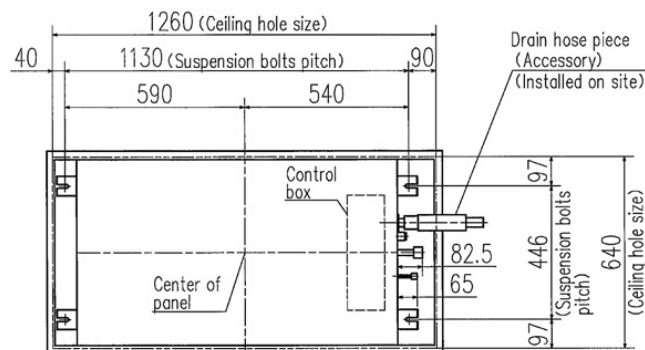
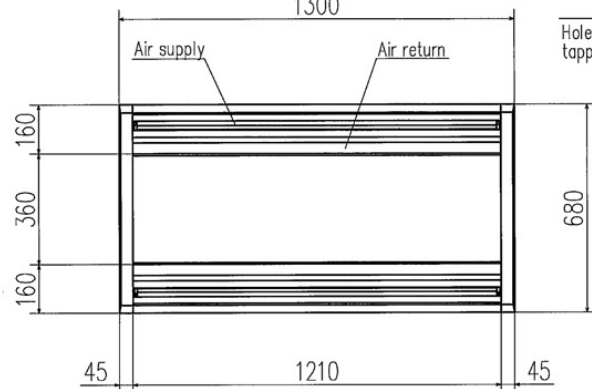
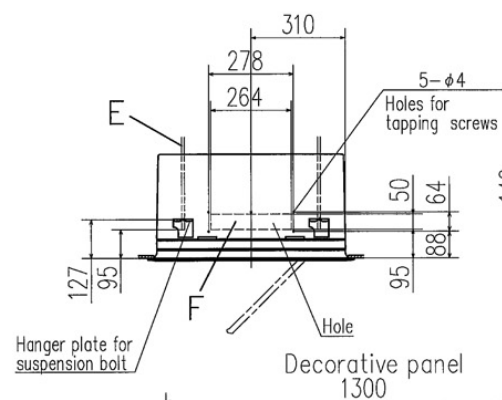
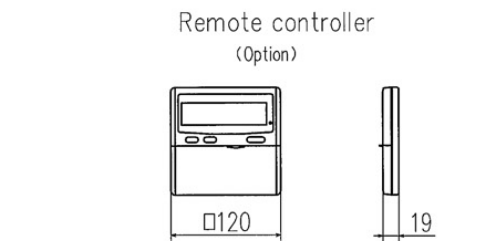


Make a space of 4000 or more between the units when installing more than one.

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

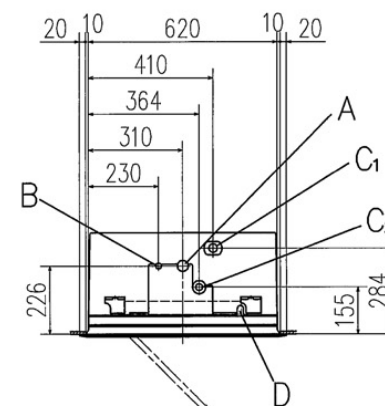
FDTW90KXE6D,90KXE6

Unit:mm



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	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)

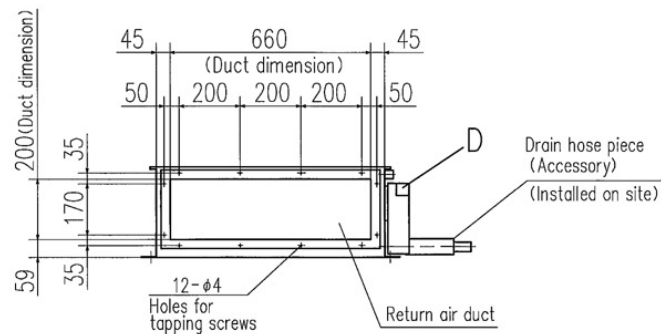


Notes (1) The model name label is attached on the lid of control box.

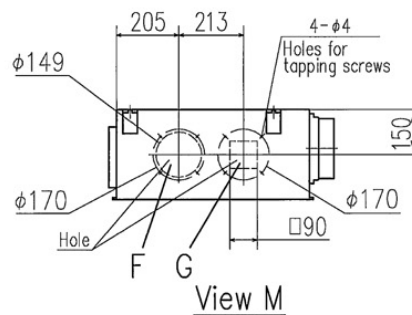
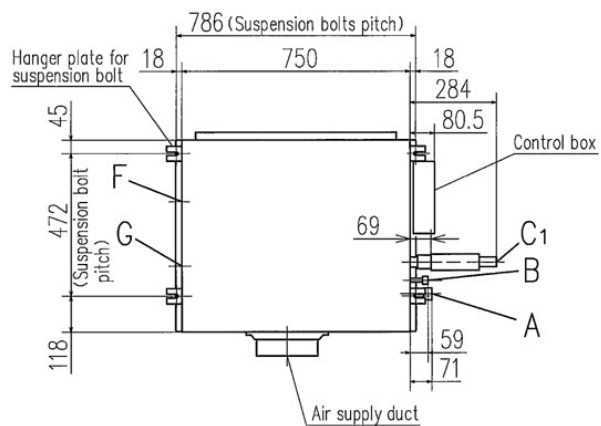
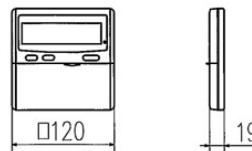
(2) Prepare the connecting socket (VP20) on site.

FDUM22KXE6D,22KXE6

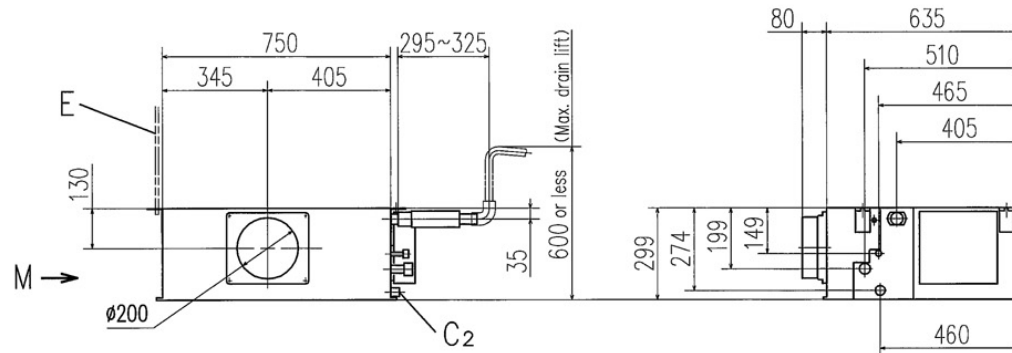
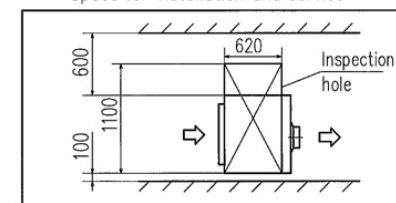
Unit:mm



Remote controller
(Option)



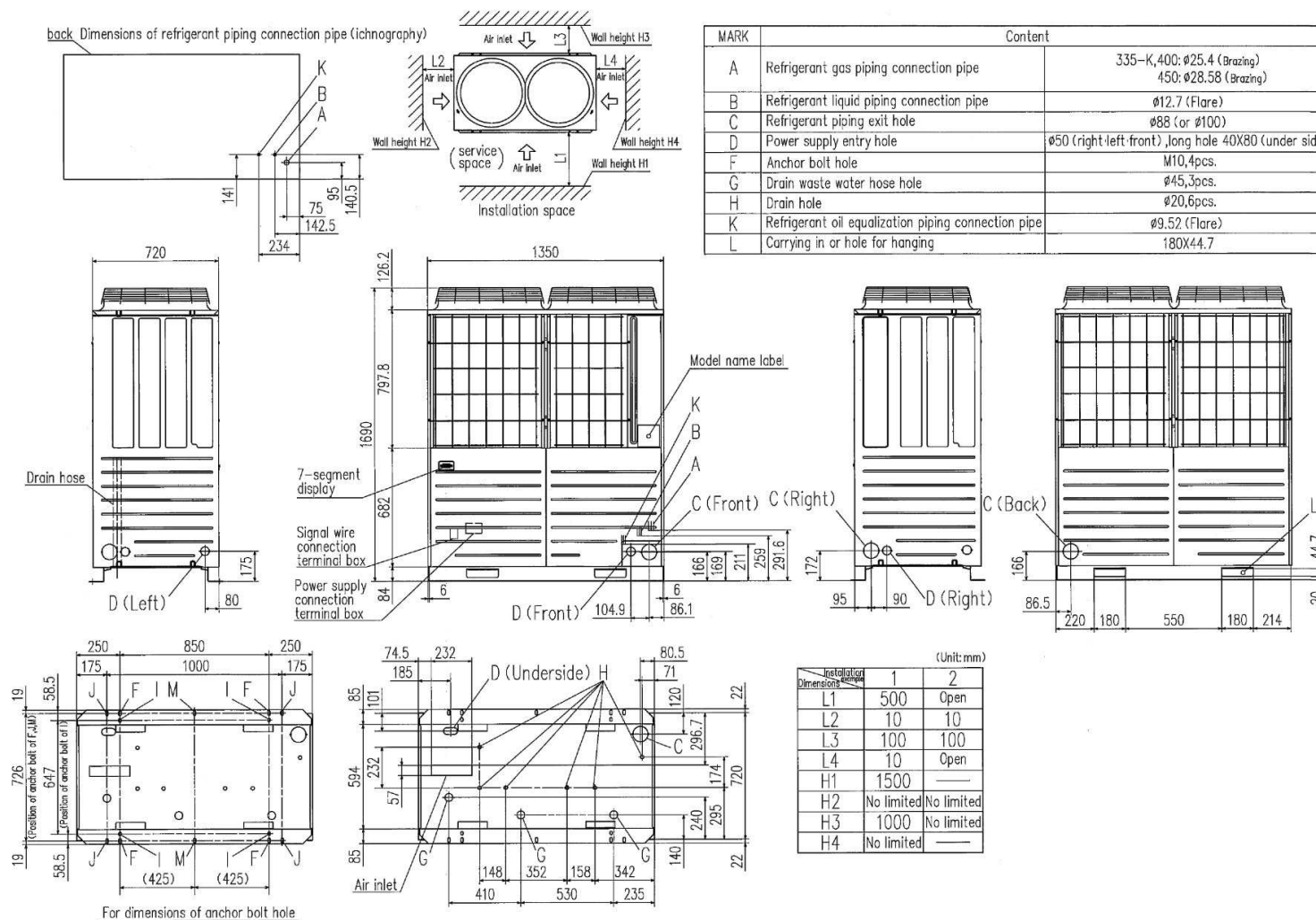
Space for installation and service



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

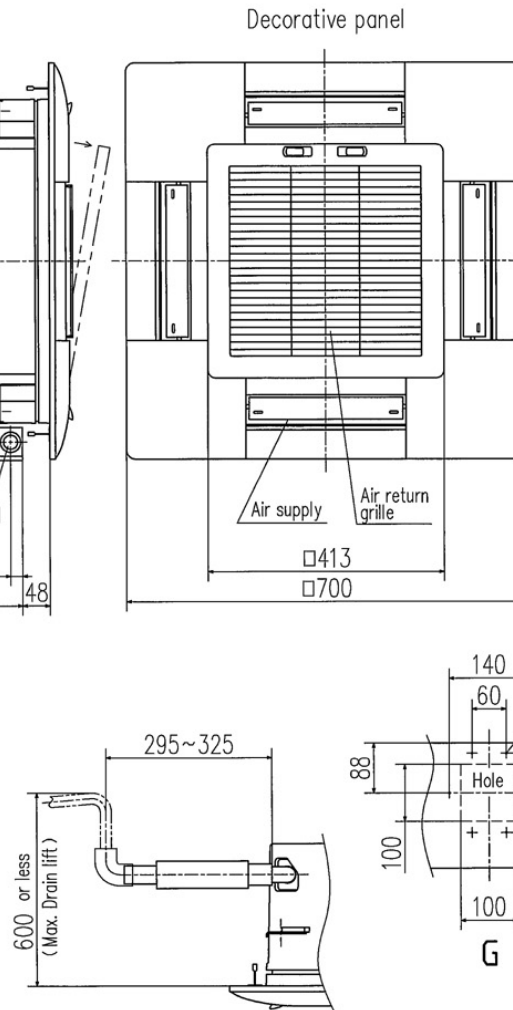
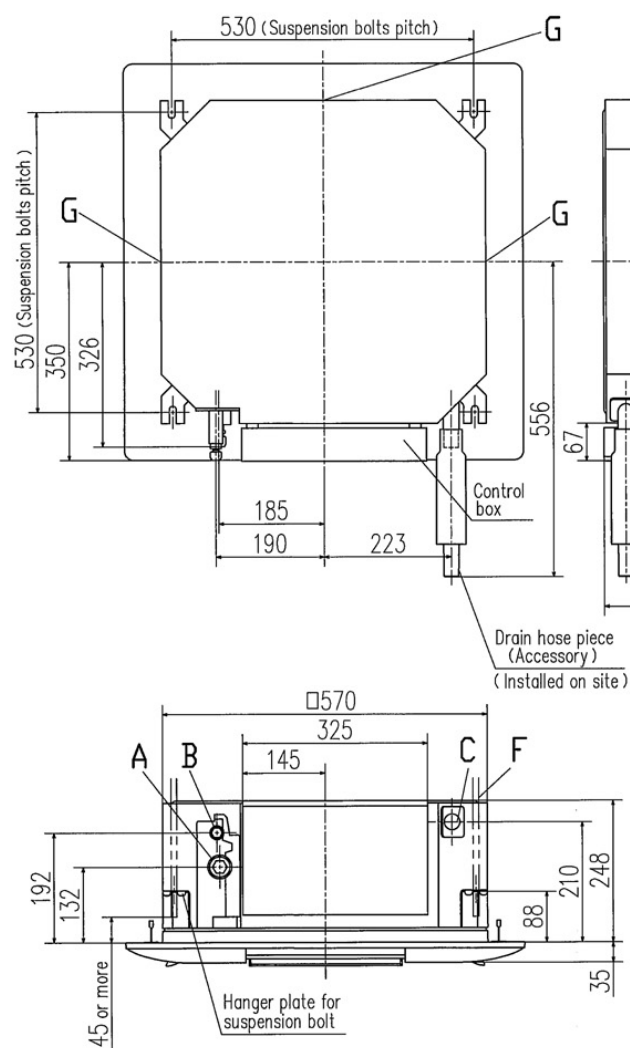
FDC400KXE6

Unit:mm

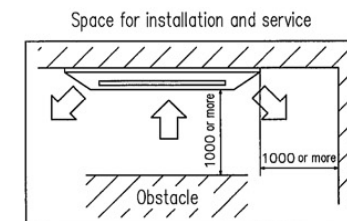


FDTC36KXE6D,36KXE6B

Unit:mm

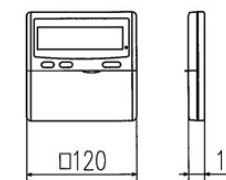


Symbol	Content		
	Model	22,28	36,45,56
A	Gas piping	φ9.52 (3/8") (Flare)	φ12.7 (1/2") (Flare)
B	Liquid piping	φ6.35 (1/4") (Flare)	
C	Drain piping	VP20 (I.D.20,O.D.26) Note (2)	
D	Hole for wiring	φ25	
F	Suspension bolts	(M10 or M8)	
G	Air outlet opening for ducting	(Knock out)	



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

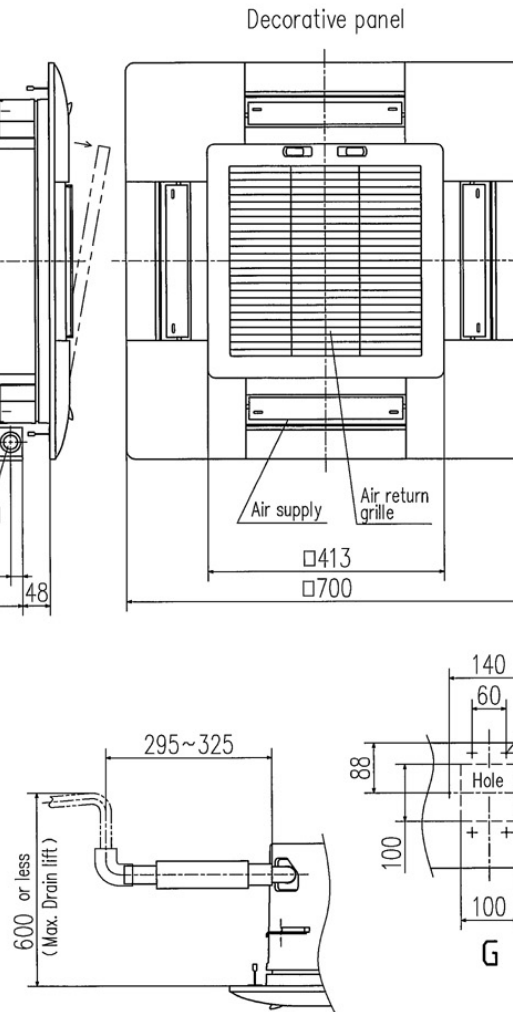
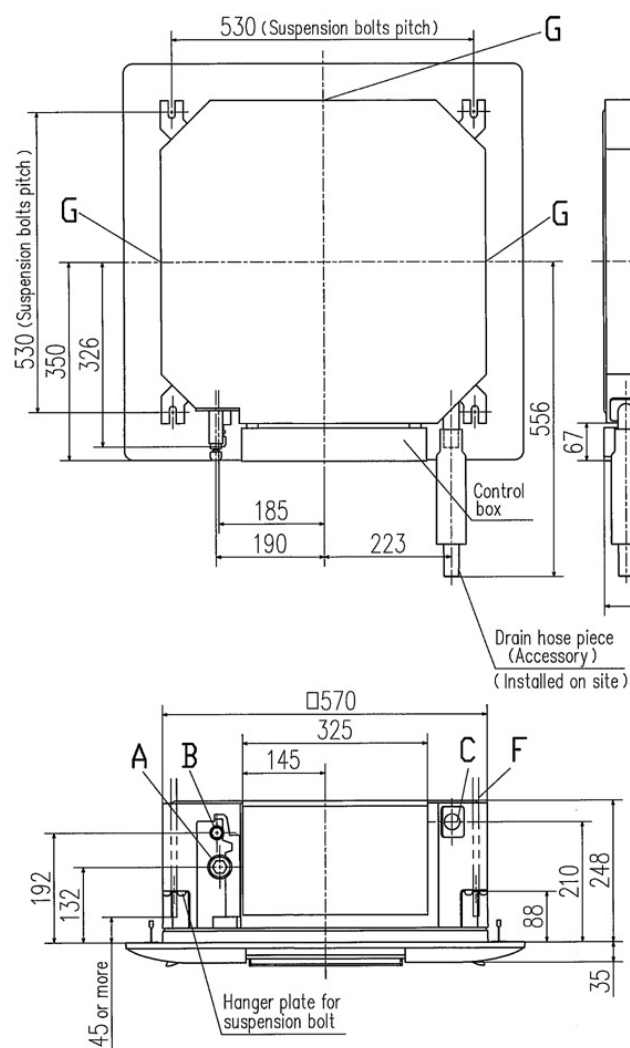
Remote controller
(Option)



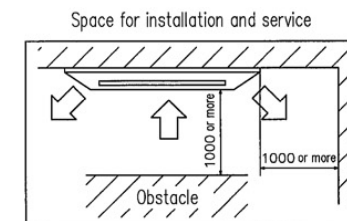
- Notes (1) The model name label is attached on the control box lid.
(2) Prepare the connecting socket (VP20) on site.
(3) This unit is designed for 2x2 grid ceiling.
If it is installed on a ceiling other than 2x2 grid ceiling,
provide an inspection port on the control box side.

FDTC56KXE6D,56KXE6B

Unit:mm

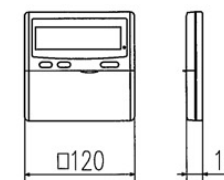


Symbol	Content		
	Model	22,28	36,45,56
A	Gas piping	φ9.52 (3/8") (Flare)	φ12.7 (1/2") (Flare)
B	Liquid piping	φ6.35 (1/4") (Flare)	
C	Drain piping	VP20 (I.D.20,O.D.26) Note (2)	
D	Hole for wiring	φ25	
F	Suspension bolts	(M10 or M8)	
G	Air outlet opening for ducting	(Knock out)	



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

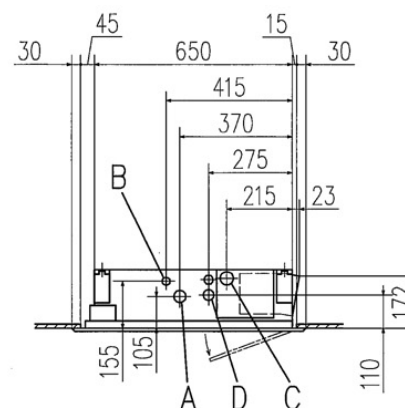
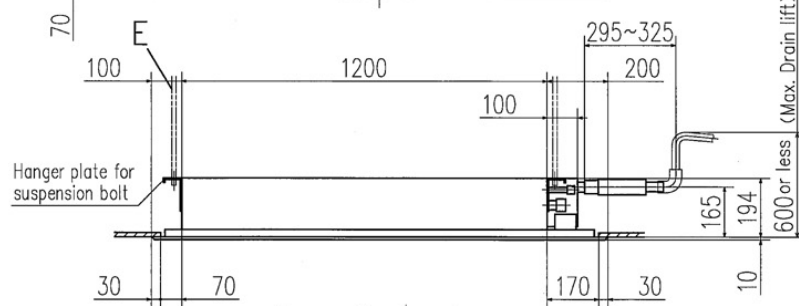
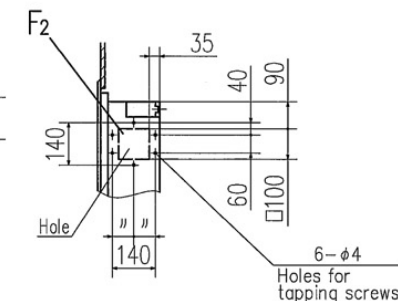
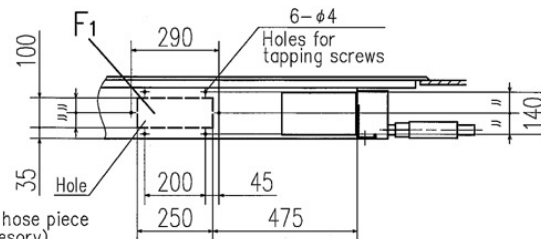
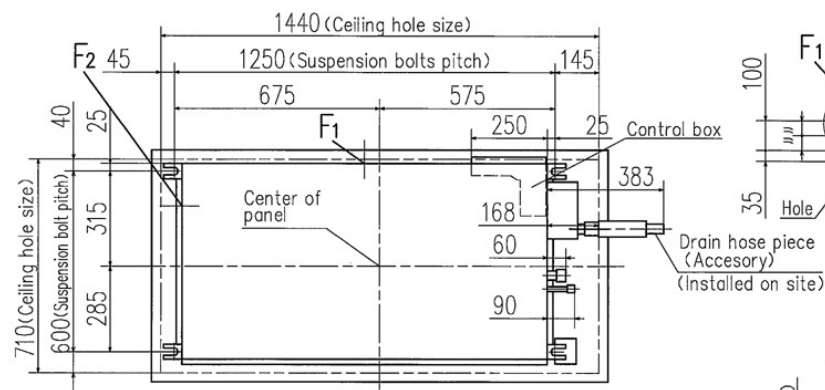
Remote controller
(Option)



- Notes (1) The model name label is attached on the control box lid.
(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.

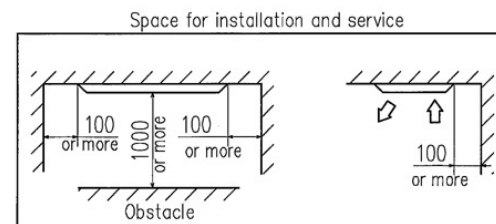
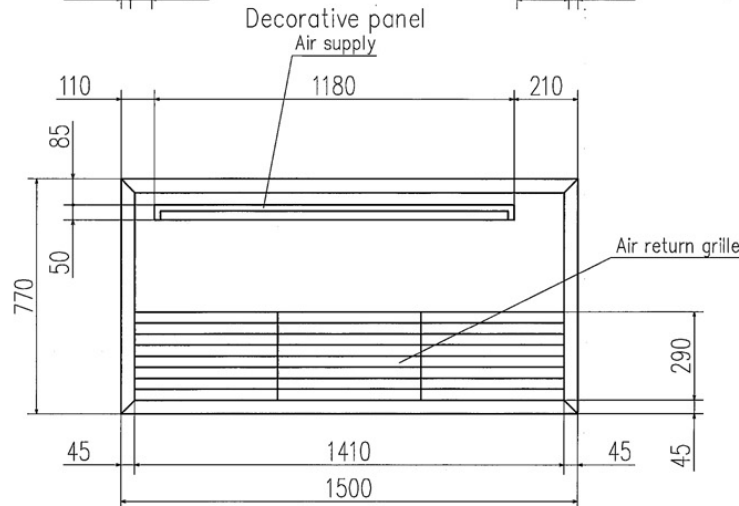
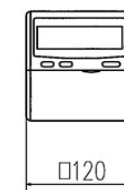
FDT571KXE6D,71KXE6

Unit:mm



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)



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 fan case inside the air return grille.
(2) Prepare the connecting socket (VP20) on site.

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

Models				FDTC28KXE6B
Panel model (Option)				TC-PSA-25W-E
Nominal cooling capacity*1		kW	2.8	
Nominal heating capacity*2			3.2	
Power source				220-240V ~ 50Hz / 220V ~ 60Hz
Power consumption	Cool	kW	0.03 - 0.03 / 0.03	
	Heat		0.03 - 0.03 / 0.03	
Running current	Cool	A	0.10 - 0.09 / 0.10	
	Heat		0.10 - 0.09 / 0.10	
Sound Pressure Level	Cool	dB(A)	Hi: 35 Me: 33 Lo: 30	
	Heat		Hi: 35 Me: 33 Lo: 32	
Exterior dimensions		mm	Unit: 248 × 570 × 570	
Height x Width x Depth			Panel: 35 × 700 × 700	
Exterior appearance (Munsell color)				Plaster White (6.8Y8.9/0.2) near equivalent
Net weight		kg	Unit: 14 Panel: 3.5	
Refrigerant equipment				Louver fin & inner grooved tubing
Heat exchanger				
Refrigerant control				Electronic Expansion Valve
Air handling equipment				Turbo fan ×1
Fan type & Q'ty				
Motor		W	33	
Starting method				Direct line start
Air flow(Standard)	Cool	CMM	Hi: 9.5 Me: 8.5 Lo: 7	
	Heat		Hi: 9.5 Me: 8.5 Lo: 8	
Available static pressure		Pa	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")
Refrigerant piping size				Gas line: φ 9.52 (3/8")
Connecting method				Flare piping
Refrigerant				R410A
Drain pump				Built-in Drain pump
Drain hose				Connectable with VP20
Insulation for piping				Necessary(both Liquid & Gas line)
Accessories				Mounting kit,Drain hose

Notes

Adapted to **RoHS** directive

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

(7) The data are indicated at the following conditions					
Item	Indoor air temperature		Outdoor air temperature		Standards
Operation	DB	WB	DB	WB	
Cooling*1	27 °C	19 °C	35 °C	24 °C	ISO-T1
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"

Ceiling Cassette -1way- type (FDTS)

Models			FDTS45KXE6
Panel model (Option)			TS-PSA-29W-E
Nominal cooling capacity*1	kW	4.5	
Nominal heating capacity*2		5.0	
Power source			220-240V~ 50Hz / 220V~ 60Hz
Power consumption	Cool	kW	0.09 - 0.11 / 0.09
	Heat		0.09 - 0.11 / 0.09
Running current	Cool	A	0.43 - 0.46 / 0.43
	Heat		0.43 - 0.46 / 0.43
Sound Pressure Level			dB(A) Hi: 43 Me: 38 Lo: 36
Exterior dimensions			Unit: 194 x 1,040 x 650
Height x Width x Depth			Panel: 10 x 1,290 x 770
Exterior appearance (Munsell color)			Plaster White (6.8Y8.9/0.2) near equivalent
Net weight		kg	Unit: 27 Panel: 6
Refrigerant equipment			Louver fin & inner grooved tubing
Heat exchanger			
Refrigerant control			Electronic Expansion Valve
Air handling equipment			Centrifugal fan x2
Fan type & Q'ty			
Motor		W	40
Starting method			Direct line start
Air flow(Standard)		CMM	Hi: 14 Me: 12 Lo: 10
Available static pressure		Pa	0
Outside air intake			Possible
Air filter, Q'ty			Pocket plastic net x2(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			Internal thermostat for fan motor Frost protection thermostat
Installation data			Liquid line: ϕ 6.35 (1/4")
Refrigerant piping size			Gas line: ϕ 12.7 (1/2")
Connecting method			Flare piping
Refrigerant			R410A
Drain pump			Built-in Drain pump
Drain hose			Connectable with VP20
Insulation for piping			Necessary(both Liquid & Gas line)
Accessories			Mounting kit,Drain hose

Notes

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

Item	Indoor air temperature		Outdoor air temperature		Standards
Operation	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"

Ceiling Cassette -4way- type (FDT)

FDT90KXE6A			
Panel model (Option)			T-PSA-36W-E
Nominal cooling capacity*1		kW	9.0
Nominal heating capacity*2			10.0
Power source			220-240V~ 50Hz / 220V~ 60Hz
Power consumption	Cool	kW	0.14 - 0.14 / 0.14
	Heat		0.14 - 0.14 / 0.14
Running current	Cool	A	0.45 - 0.40 / 0.45
	Heat		0.45 - 0.40 / 0.45
Sound Pressure Level		dB(A)	Hi: 40 Me: 37 Lo: 35
Exterior dimensions		mm	Unit: 298 × 840 × 840
Height x Width x Depth			Panel: 35 × 950 × 950
Exterior appearance (Munsell color)		Plaster White (6.8Y8.9/0.2) near equivalent	
Net weight		kg	Unit: 27 Panel: 5.5
Refrigerant equipment Heat exchanger		Louver fin & inner grooved tubing	
Refrigerant control		Electronic Expansion Valve	
Air handling equipment Fan type & Q'ty		Turbo fan ×1	
Motor		W	140
Starting method		Direct line start	
Air flow(Standard)		CMM	Hi: 27 Me: 24 Lo: 20
Available static pressure		Pa	0
Outside air intake		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: φ9.52 (3/8")	
Refrigerant piping size		Gas line: φ15.88 (5/8")	
Connecting method		Flare piping	
Refrigerant		R410A	
Drain pump		Built-in Drain pump	
Drain hose		Connectable with VP20	
Insulation for piping		Necessary(both Liquid & Gas line)	
Accessories		Mounting kit,Drain hose	

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"

Ceiling Cassete -2way- type

Models			FDTW56KXE6
Panel model (Option)			TW-PSA-24W-E
Nominal cooling capacity*1	kW	5.6	
Nominal heating capacity*2		6.3	
Power source			220-240V~ 50Hz / 220V~ 60Hz
Power consumption	Cool	kW	0.09 - 0.10 / 0.09
	Heat		0.09 - 0.10 / 0.09
Running current	Cool	A	0.43 - 0.44 / 0.43
	Heat		0.43 - 0.44 / 0.43
Sound Pressure Level		dB(A)	Hi: 39 Me: 34 Lo: 32
Exterior dimensions		mm	Unit: 287 x 817 x 620
Height x Width x Depth			Panel: 8 x 1,055 x 680
Exterior appearance (Munsell color)			Plaster White (6.8Y8.9/0.2) near equivalent
Net weight		kg	Unit: 19 Panel: 7
Refrigerant equipment			Louver fin & inner grooved tubing
Heat exchanger			
Refrigerant control			Electronic Expansion Valve
Air handling equipment			Turbo fan x1
Fan type & Q'ty			
Motor		W	30
Starting method			Direct line start
Air flow(Standard)		CMM	Hi: 14 Me: 12 Lo: 10
Available static pressure		Pa	0
Outside air intake			Possible
Air filter, Q'ty			Pocket plastic net x1(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			Internal thermostat for fan motor Frost protection thermostat
Installation data			Liquid line: φ6.35 (1/4")
Refrigerant piping size			Gas line: φ12.7 (1/2")
Connecting method			Flare piping
Refrigerant			R410A
Drain pump			Built-in Drain pump
Drain hose			Connectable with VP20
Insulation for piping			Necessary(both Liquid & Gas line)
Accessories			Mounting kit,Drain hose

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"

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

Models				FDTC45KXE6B
Panel model (Option)				TC-PSA-25W-E
Nominal cooling capacity*1		kW	4.5	
Nominal heating capacity*2			5.0	
Power source				220-240V ~ 50Hz / 220V ~ 60Hz
Power consumption	Cool	kW	0.04 - 0.04 / 0.04	
	Heat		0.04 - 0.04 / 0.04	
Running current	Cool	A	0.14 - 0.13 / 0.14	
	Heat		0.14 - 0.13 / 0.14	
Sound Pressure Level	Cool	dB(A)	Hi: 40 Me: 37 Lo: 31	
	Heat		Hi: 40 Me: 37 Lo: 34	
Exterior dimensions		mm	Unit: 248 × 570 × 570	
Height x Width x Depth			Panel: 35 × 700 × 700	
Exterior appearance (Munsell color)				Plaster White (6.8Y8.9/0.2) near equivalent
Net weight		kg	Unit: 15 Panel: 3.5	
Refrigerant equipment				Louver fin & inner grooved tubing
Heat exchanger				
Refrigerant control				Electronic Expansion Valve
Air handling equipment				Turbo fan x1
Fan type & Q'ty				
Motor		W	33	
Starting method				Direct line start
Air flow(Standard)	Cool	CMM	Hi: 11 Me: 9 Lo: 7	
	Heat		Hi: 11 Me: 9 Lo: 8	
Available static pressure		Pa	0	
Outside air intake				Not possible
Air filter, Q'ty				Pocket plastic net x1(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")
Refrigerant piping size				Gas line: φ 12.7 (1/2")
Connecting method				Flare piping
Refrigerant				R410A
Drain pump				Built-in Drain pump
Drain hose				Connectable with VP20
Insulation for piping				Necessary(both Liquid & Gas line)
Accessories				Mounting kit,Drain hose

Notes

Adapted to **RoHS** directive

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

Item	Indoor air temperature		Outdoor air temperature		Standards
Operation	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"

Duct Connected -Middle static pressure- type (FDUM)

Models			FDUM56KXE6
			-
Nominal cooling capacity*1	kW	5.6	
Nominal heating capacity*2		6.3	
Power source		220-240V~ 50Hz / 220V~ 60Hz	
Power consumption	Cool	kW	0.14 - 0.16 / 0.14
	Heat		0.14 - 0.16 / 0.14
Running current	Cool	A	0.63 - 0.67 / 0.63
	Heat		0.63 - 0.67 / 0.63
Sound Pressure Level		dB(A)	Hi: 35 Me: 32 Lo: 29
Exterior dimensions		mm	299 × 750 × 635
Height x Width x Depth			
			-
Net weight		kg	34
Refrigerant equipment			
Heat exchanger		Louwer fin & inner grooved tubing	
Refrigerant control		Electronic Expansion Valve	
Air handling equipment			
Fan type & Q'ty		Centrifugal fan ×2	
Motor		W	60
Starting method		Direct line start	
Air flow(Standard)		CMM	Hi: 14 Me: 12 Lo: 11
Available static pressure		Pa	Standard: 50/40 Max: 85/90
Outside air intake		Possible	
Air filter, Q'ty		procure locally	
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		Internal thermostat for fan motor Frost protection thermostat	
Installation data			
Refrigerant piping size		Liquid line: φ6.35 (1/4") Gas line: φ12.7 (1/2")	
Connecting method		Flare piping	
Refrigerant		R410A	
Drain pump		Built-in Drain pump	
Drain hose		Connectable with VP20	
Insulation for piping		Necessary(both Liquid & Gas line)	
Accessories		Drain hose	

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"

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

Models				FDTC22KXE6B
Panel model (Option)				TC-PSA-25W-E
Nominal cooling capacity*1		kW	2.2	
Nominal heating capacity*2			2.5	
Power source				220-240V ~ 50Hz / 220V ~ 60Hz
Power consumption	Cool	kW	0.03 - 0.03 / 0.03	
	Heat		0.03 - 0.03 / 0.03	
Running current	Cool	A	0.10 - 0.09 / 0.10	
	Heat		0.10 - 0.09 / 0.10	
Sound Pressure Level	Cool	dB(A)	Hi: 35 Me: 33 Lo: 30	
	Heat		Hi: 35 Me: 33 Lo: 32	
Exterior dimensions		mm	Unit: 248 × 570 × 570	
Height x Width x Depth			Panel: 35 × 700 × 700	
Exterior appearance (Munsell color)				Plaster White (6.8Y8.9/0.2) near equivalent
Net weight		kg	Unit: 14 Panel: 3.5	
Refrigerant equipment				Louver fin & inner grooved tubing
Heat exchanger				
Refrigerant control				Electronic Expansion Valve
Air handling equipment				Turbo fan ×1
Fan type & Q'ty				
Motor		W	33	
Starting method				Direct line start
Air flow(Standard)	Cool	CMM	Hi: 9.5 Me: 8.5 Lo: 7	
	Heat		Hi: 9.5 Me: 8.5 Lo: 8	
Available static pressure		Pa	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")
Refrigerant piping size				Gas line: φ 9.52 (3/8")
Connecting method				Flare piping
Refrigerant				R410A
Drain pump				Built-in Drain pump
Drain hose				Connectable with VP20
Insulation for piping				Necessary(both Liquid & Gas line)
Accessories				Mounting kit,Drain hose

Notes

Adapted to **RoHS** directive

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

(1) The data are measured at the following conditions.					
Item	Indoor air temperature		Outdoor air temperature		Standards
Operation	DB	WB	DB	WB	
Cooling*1	27 °C	19 °C	35 °C	24 °C	ISO-T1
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"

Duct Connected -Middle static pressure- type (FDUM)

Models			FDUM36KXE6
			-
Nominal cooling capacity*1	kW		3.6
Nominal heating capacity*2			4.0
Power source			220-240V~ 50Hz / 220V~ 60Hz
Power consumption	Cool	kW	0.11 - 0.13 / 0.11
	Heat		0.11 - 0.13 / 0.11
Running current	Cool	A	0.51 - 0.56 / 0.51
	Heat		0.51 - 0.56 / 0.51
Sound Pressure Level		dB(A)	Hi: 34 Me: 31 Lo: 28
Exterior dimensions		mm	299 × 750 × 635
Height x Width x Depth			
			-
Net weight		kg	34
Refrigerant equipment			
Heat exchanger			Louver fin & inner grooved tubing
Refrigerant control			Electronic Expansion Valve
Air handling equipment			
Fan type & Q'ty			Centrifugal fan ×2
Motor		W	60
Starting method			Direct line start
Air flow(Standard)		CMM	Hi: 12 Me: 11 Lo: 10
Available static pressure		Pa	Standard: 50/40 Max: 85/90
Outside air intake			Possible
Air filter, Q'ty			procure locally
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			Internal thermostat for fan motor Frost protection thermostat
Installation data			Liquid line: φ6.35 (1/4")
Refrigerant piping size			Gas line: φ12.7 (1/2")
Connecting method			Flare piping
Refrigerant			R410A
Drain pump			Built-in Drain pump
Drain hose			Connectable with VP20
Insulation for piping			Necessary(both Liquid & Gas line)
Accessories			Drain hose

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"

Ceiling Cassete -2way- type

Models			FDTW45KXE6
Panel model (Option)			TW-PSA-24W-E
Nominal cooling capacity*1	kW	4.5	
Nominal heating capacity*2		5.0	
Power source			220-240V~ 50Hz / 220V~ 60Hz
Power consumption	Cool	kW	0.09 - 0.10 / 0.09
	Heat		0.09 - 0.10 / 0.09
Running current	Cool	A	0.43 - 0.44 / 0.43
	Heat		0.43 - 0.44 / 0.43
Sound Pressure Level		dB(A)	Hi: 39 Me: 34 Lo: 32
Exterior dimensions		mm	Unit: 287 x 817 x 620
Height x Width x Depth			Panel: 8 x 1,055 x 680
Exterior appearance (Munsell color)			Plaster White (6.8Y8.9/0.2) near equivalent
Net weight		kg	Unit: 19 Panel: 7
Refrigerant equipment			Louver fin & inner grooved tubing
Heat exchanger			
Refrigerant control			Electronic Expansion Valve
Air handling equipment			Turbo fan x1
Fan type & Q'ty			
Motor		W	30
Starting method			Direct line start
Air flow(Standard)		CMM	Hi: 14 Me: 12 Lo: 10
Available static pressure		Pa	0
Outside air intake			Possible
Air filter, Q'ty			Pocket plastic net x1(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			Internal thermostat for fan motor Frost protection thermostat
Installation data			Liquid line: φ6.35 (1/4")
Refrigerant piping size			Gas line: φ12.7 (1/2")
Connecting method			Flare piping
Refrigerant			R410A
Drain pump			Built-in Drain pump
Drain hose			Connectable with VP20
Insulation for piping			Necessary(both Liquid & Gas line)
Accessories			Mounting kit,Drain hose

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"

Ceiling Cassete -2way- type

Models			FDTW90KXE6
Panel model (Option)			TW-PSA-34W-E
Nominal cooling capacity*1	kW	9.0	
Nominal heating capacity*2		10.0	
Power source			220-240V~ 50Hz
Power consumption	Cool	kW	0.12 - 0.13
	Heat		0.12 - 0.13
Running current	Cool	A	0.57 - 0.59
	Heat		0.57 - 0.59
Sound Pressure Level		dB(A)	Hi: 41 Me: 37 Lo: 36
Exterior dimensions		mm	Unit: 342 x 1,054 x 620
Height x Width x Depth			Panel: 8 x 1,300 x 680
Exterior appearance (Munsell color)			Plaster White (6.8Y8.9/0.2) near equivalent
Net weight		kg	Unit: 26 Panel: 9
Refrigerant equipment			Louver fin & inner grooved tubing
Heat exchanger			
Refrigerant control			Electronic Expansion Valve
Air handling equipment			Turbo fan x1
Fan type & Q'ty			
Motor		W	40
Starting method			Direct line start
Air flow(Standard)		CMM	Hi: 19 Me: 16 Lo: 12
Available static pressure		Pa	0
Outside air intake			Possible
Air filter, Q'ty			Pocket plastic net x1(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			Internal thermostat for fan motor Frost protection thermostat
Installation data			Liquid line: ϕ 9.52 (3/8")
Refrigerant piping size			Gas line: ϕ 15.88 (5/8")
Connecting method			Flare piping
Refrigerant			R410A
Drain pump			Built-in Drain pump
Drain hose			Connectable with VP20
Insulation for piping			Necessary(both Liquid & Gas line)
Accessories			Mounting kit,Drain hose

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"

Duct Connected -Middle static pressure- type (FDUM)

Models			FDUM22KXE6
			-
Nominal cooling capacity*1	kW	2.2	
Nominal heating capacity*2		2.5	
Power source		220-240V~ 50Hz / 220V~ 60Hz	
Power consumption	Cool	kW	0.09 - 0.11 / 0.09
	Heat		0.09 - 0.11 / 0.09
Running current	Cool	A	0.41 - 0.46 / 0.41
	Heat		0.41 - 0.46 / 0.41
Sound Pressure Level		dB(A)	Hi: 33 Me: 31 Lo: 28
Exterior dimensions Height x Width x Depth		mm	299 × 750 × 635
			-
Net weight		kg	33
Refrigerant equipment			
Heat exchanger		Louver fin & inner grooved tubing	
Refrigerant control		Electronic Expansion Valve	
Air handling equipment			
Fan type & Q'ty		Centrifugal fan ×2	
Motor		W	32
Starting method		Direct line start	
Air flow(Standard)		CMM	Hi: 10 Me: 9 Lo: 8
Available static pressure		Pa	Standard: 50/40 Max: 85/90
Outside air intake		Possible	
Air filter, Q'ty		procure locally	
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		Internal thermostat for fan motor Frost protection thermostat	
Installation data		Liquid line: φ6.35 (1/4")	
Refrigerant piping size		Gas line: φ9.52 (3/8")	
Connecting method		Flare piping	
Refrigerant		R410A	
Drain pump		Built-in Drain pump	
Drain hose		Connectable with VP20	
Insulation for piping		Necessary(both Liquid & Gas line)	
Accessories		Drain hose	

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"

OUTDOOR UNIT(FDC)

Models			FDC335KXE6-K	FDC400KXE6	FDC450KXE6	FDC504KXE6	FDC560KXE6	FDC560KXE6-K	FDC615KXE6	FDC680KXE6
Nominal cooling capacity*1		kW	33.5	40.0	45.0	50.4	56.0	56.0	61.5	68.0
Nominal heating capacity*2			37.5	45.0	50.0	56.5	63.0	63.0	69.0	73.0
Power source			3 Phase 380-415V 50Hz/380V 60Hz							
Power consumption	Cool	kW	8.94	11.27	12.97	14.73	16.79	16.79	20.37	24.98
	Heat		8.93	11.73	13.10	15.12	16.79	16.79	18.48	19.08
Running current	Cool	A	14.5/13.3	18.4/16.9	21.1/19.3	24.1/22.0	27.4/25.1	27.4/25.1	33.1/30.3	40.3/36.9
	Heat		14.8/13.5	19.6/17.9	21.7/19.9	25.2/23.1	28.0/25.7	28.0/25.7	30.7/28.1	31.6/29.0
Sound Pressure Level		dB (A)	59/59	59.5/60	62.5/62.5	61.5/62	63/63.5	63/63.5	64.5/64	65/65
Exterior dimensions		mm	1680×1350×720				2048×1350×720			
Height × Width × Depth										
Net weight		kg	317				341		355	
Refrigerant equipment compressor type & Qty			GTC5150NH48L × 2					GTD5160NH48L × 2		
Motor		kW	2.98 × 2	3.71 × 2	4.29 × 2	4.87 × 2	5.78 × 2		6.66 × 2	7.15 × 2
Starting method			Direct line starting							
capacity control		%	19-130	15-114	13-112	11-100	10-113	12-113	11-110	10-108
Crankcase heater		W	33 × 2							
Refrigerant equipment Heat exchanger			Straight fin & inner grooved tubing							
Refrigerant control			Electronic expansion valve							
Refrigerant			R410A							
Quantity		kg	11.5							
Refrigerant oil		l	4.2 (M-MA32R)							
Defrost control			Microcomputer controlled De-icer							
Air handling equipment fan type & Qty			Propeller fan × 2							
Motor		W	396 × 2							
Starting method			Direct start							
Air flow (Standard)		CMM	220/180	250/220	260/240	270/250				
Shock & vibration absorber			Rubber mount (for compressor)							
safety equipment			Compressor overheat protection / overcurrent protection / power transistor overheating protection / abnormal high pressure protection							
Installation data		mm (in)	Liquid line : φ12.7 (1/2")							
Refrigerant piping size			Gas line : φ25.4 (1") (φ28.58 (1 1/8"))					Gas line : φ28.58 (1 1/8")		
Connecting method			Gas line : Brazing / Liquid line : Flare							
Drain			Hole for drain (φ20 × 6pcs , φ45 × 3pcs)							
Insulation for piping			Necessary (both Liquid & Gas lines)							
Accessories			-	-	-	-	-	-	-	-

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	6 °C	

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

(3) Refrigerant piping size applicable to European installations are shown in parentheses.

Adapted to RoHS directive

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

Models				FDTC36KXE6B
Panel model (Option)				TC-PSA-25W-E
Nominal cooling capacity*1		kW	3.6	
Nominal heating capacity*2			4.0	
Power source				220-240V ~ 50Hz / 220V ~ 60Hz
Power consumption	Cool	kW	0.03 - 0.03 / 0.03	
	Heat		0.03 - 0.03 / 0.03	
Running current	Cool	A	0.11 - 0.10 / 0.11	
	Heat		0.11 - 0.10 / 0.11	
Sound Pressure Level	Cool	dB(A)	Hi: 38 Me: 36 Lo: 31	
	Heat		Hi: 38 Me: 36 Lo: 34	
Exterior dimensions		mm	Unit: 248 × 570 × 570	
Height x Width x Depth			Panel: 35 × 700 × 700	
Exterior appearance (Munsell color)				Plaster White (6.8Y8.9/0.2) near equivalent
Net weight		kg	Unit: 15 Panel: 3.5	
Refrigerant equipment				Louver fin & inner grooved tubing
Heat exchanger				
Refrigerant control				Electronic Expansion Valve
Air handling equipment				Turbo fan x1
Fan type & Q'ty				
Motor		W	33	
Starting method				Direct line start
Air flow(Standard)	Cool	CMM	Hi: 10 Me: 9 Lo: 7	
	Heat		Hi: 10 Me: 9 Lo: 8	
Available static pressure		Pa	0	
Outside air intake				Not possible
Air filter, Q'ty				Pocket plastic net x1(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")
Refrigerant piping size				Gas line: φ 12.7 (1/2")
Connecting method				Flare piping
Refrigerant				R410A
Drain pump				Built-in Drain pump
Drain hose				Connectable with VP20
Insulation for piping				Necessary(both Liquid & Gas line)
Accessories				Mounting kit,Drain hose

Notes

Adapted to **RoHS** directive

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

(1) The data are measured at the following conditions.					
Item	Indoor air temperature		Outdoor air temperature		Standards
Operation	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"

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

Models				FDTC56KXE6B
Panel model (Option)				TC-PSA-25W-E
Nominal cooling capacity*1		kW	5.6	
Nominal heating capacity*2			6.3	
Power source				220-240V ~ 50Hz / 220V ~ 60Hz
Power consumption	Cool	kW	0.04 - 0.04 / 0.04	
	Heat		0.04 - 0.04 / 0.04	
Running current	Cool	A	0.15 - 0.14 / 0.15	
	Heat		0.15 - 0.14 / 0.15	
Sound Pressure Level	Cool	dB(A)	Hi: 45 Me: 39 Lo: 31	
	Heat		Hi: 45 Me: 39 Lo: 34	
Exterior dimensions		mm	Unit: 248 × 570 × 570	
Height x Width x Depth			Panel: 35 × 700 × 700	
Exterior appearance (Munsell color)				Plaster White (6.8Y8.9/0.2) near equivalent
Net weight		kg	Unit: 15 Panel: 3.5	
Refrigerant equipment				Louver fin & inner grooved tubing
Heat exchanger				
Refrigerant control				Electronic Expansion Valve
Air handling equipment				Turbo fan ×1
Fan type & Q'ty				
Motor		W	33	
Starting method				Direct line start
Air flow(Standard)	Cool	CMM	Hi: 13 Me: 10 Lo: 7	
	Heat		Hi: 13 Me: 10 Lo: 8	
Available static pressure		Pa	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")
Refrigerant piping size				Gas line: φ 12.7 (1/2")
Connecting method				Flare piping
Refrigerant				R410A
Drain pump				Built-in Drain pump
Drain hose				Connectable with VP20
Insulation for piping				Necessary(both Liquid & Gas line)
Accessories				Mounting kit,Drain hose

Notes

Adapted to **RoHS** directive

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

Item	Indoor air temperature		Outdoor air temperature		Standards
Operation	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"

Ceiling Cassette -1way- type (FDTS)

Models			FDT571KXE6
Panel model (Option)			TS-PSA-39W-E
Nominal cooling capacity*1	kW		7.1
Nominal heating capacity*2			8.0
Power source			220-240V~ 50Hz / 220V~ 60Hz
Power consumption	Cool	kW	0.12 - 0.15 / 0.12
	Heat		0.12 - 0.15 / 0.12
Running current	Cool	A	0.58 - 0.63 / 0.58
	Heat		0.58 - 0.63 / 0.58
Sound Pressure Level			dB(A) Hi: 44 Me: 38 Lo: 36
Exterior dimensions			Unit: 194 x 1,300 x 650
Height x Width x Depth			mm Panel: 10 x 1,500 x 770
Exterior appearance (Munsell color)			Plaster White (6.8Y8.9/0.2) near equivalent
Net weight		kg	Unit: 31 Panel: 7
Refrigerant equipment			
Heat exchanger			Louver fin & inner grooved tubing
Refrigerant control			Electronic Expansion Valve
Air handling equipment			
Fan type & Q'ty			Centrifugal fan x4
Motor		W	35x2
Starting method			Direct line start
Air flow(Standard)		CMM	Hi: 18 Me: 15 Lo: 12
Available static pressure		Pa	0
Outside air intake			Possible
Air filter, Q'ty			Pocket plastic net x3(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			Internal thermostat for fan motor Frost protection thermostat
Installation data			Liquid line: ϕ 9.52 (3/8") Gas line: ϕ 15.88 (5/8")
Refrigerant piping size			
Connecting method			Flare piping
Refrigerant			R410A
Drain pump			Built-In Drain pump
Drain hose			Connectable with VP20
Insulation for piping			Necessary(both Liquid & Gas line)
Accessories			Mounting kit,Drain hose

Notes

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

Item	Indoor air temperature		Outdoor air temperature		Standards
Operation	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"

OUTDOOR UNIT(FDC)

Models			FDC335KXE6-K	FDC400KXE6	FDC450KXE6	FDC504KXE6	FDC560KXE6	FDC560KXE6-K	FDC615KXE6	FDC680KXE6
Nominal cooling capacity*1		kW	33.5	40.0	45.0	50.4	56.0	56.0	61.5	68.0
Nominal heating capacity*2			37.5	45.0	50.0	56.5	63.0	63.0	69.0	73.0
Power source			3 Phase 380-415V 50Hz/380V 60Hz							
Power consumption	Cool	kW	8.94	11.27	12.97	14.73	16.79	16.79	20.37	24.98
	Heat		8.93	11.73	13.10	15.12	16.79	16.79	18.48	19.08
Running current	Cool	A	14.5/13.3	18.4/16.9	21.1/19.3	24.1/22.0	27.4/25.1	27.4/25.1	33.1/30.3	40.3/36.9
	Heat		14.8/13.5	19.6/17.9	21.7/19.9	25.2/23.1	28.0/25.7	28.0/25.7	30.7/28.1	31.6/29.0
Sound Pressure Level		dB (A)	59/59	59.5/60	62.5/62.5	61.5/62	63/63.5	63/63.5	64.5/64	65/65
Exterior dimensions		mm	1680×1350×720				2048×1350×720			
Height × Width × Depth										
Net weight		kg	317				341		355	
Refrigerant equipment compressor type & Qty			GTC5150NH48L×2					GTD5160NH48L×2		
Motor		kW	2.99×2	3.71×2	4.29×2	4.87×2	5.78×2		6.66×2	7.15×2
Starting method			Direct line starting							
capacity control		%	19-130	15-114	13-112	11-100	10-113	12-113	11-110	10-108
Crankcase heater		W	33×2							
Refrigerant equipment Heat exchanger			Straight fin & inner grooved tubing							
Refrigerant control			Electronic expansion valve							
Refrigerant			R410A							
Quantity		kg	11.5							
Refrigerant oil		l	4.2 (M-MA32R)							
Defrost control			Microcomputer controlled De-Isoz							
Air handling equipment fan type & Qty			Propeller fan × 2							
Motor		W	396×2							
Starting method			Direct start							
Air flow (Standard)		CMM	220/180	250/220	260/240	270/250				
Shock & vibration absorber			Rubber mount (for compressor)							
safety equipment			Compressor overheat protection / overcurrent protection / power transistor overheating protection / abnormal high pressure protection							
Installation data		mm (in)	Liquid line : φ12.7 (1/2")							
Refrigerant piping size			Gas line : φ25.4 (1") (φ28.58 (11/8"))				Gas line : φ28.58 (11/8")			
Connecting method			Gas line : Brazing / Liquid line : Flare							
Drain			Hole for drain (φ20×6pcs, φ45×3pcs)							
Insulation for piping			Necessary (both Liquid & Gas lines)							
Accessories			-	-	-	-	-	-	-	-

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	6 °C	

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

(3) Refrigerant piping size applicable to European installations are shown in parentheses.

Adapted to RoHS directive

Noise level

Note (1) The data are based on the following conditions.

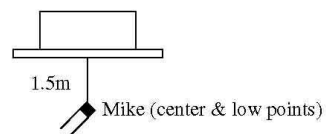
Ambient air temperature: Indoor unit 27°C DB, 19°C WB. Outdoor unit 35°C DB

(2) The data in the chart are measured in an anechoic room.

(3) The noise levels measured in the field are usually higher than the data because of reflection.

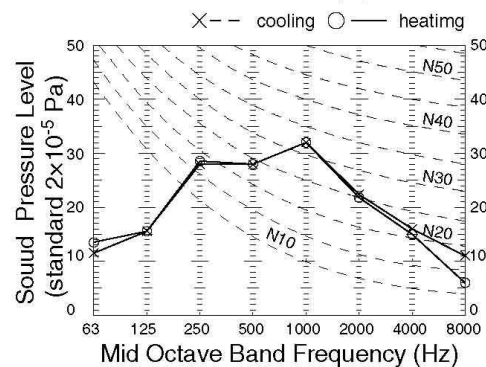
Measured based on JIS B 8616

Mike position as right



FDTC28KXE6B

Noise level 35[35]dB (A) at HIGH
33[33]dB (A) at MEDIUM
30[32]dB (A) at LOW

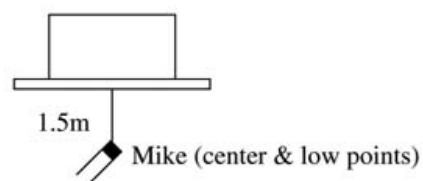


Note (1) Value in [] are for the heating mode.

Noise Level

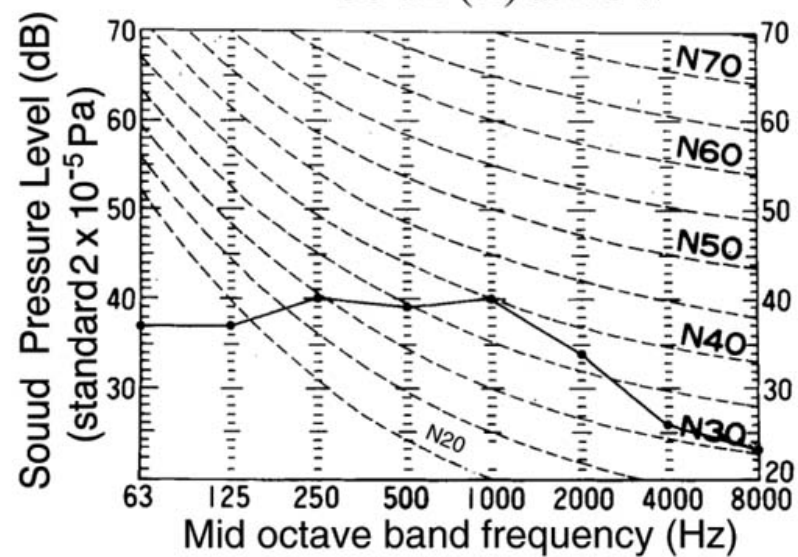
Ceiling cassette-1 way type (FDTS)

Measured based on JIS B 8616
Mike position as right



FDTS45KXE6

Noise level 43 dB (A) at HIGH
38 dB (A) at MEDIUM
36 dB (A) at LOW



Noise level

Note (1) The data are based on the following conditions.

Ambient air temperature: Indoor unit 27°C DB, 19°C WB. Outdoor unit 35°C DB

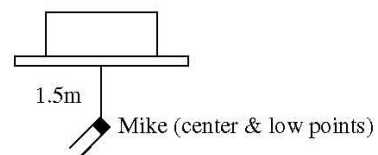
(2) The data in the chart are measured in an anechoic room.

(3) The noise levels measured in the field are usually higher than the data because of reflection.

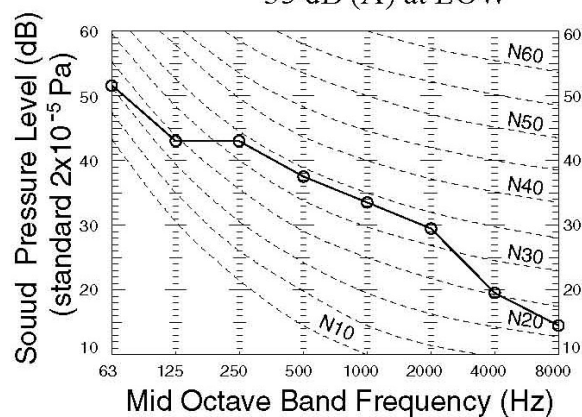
FDT90KXE6A

Measured based on JIS B 8616

Mike position as right



Noise level 40 dB (A) at HIGH
37 dB (A) at MEDIUM
35 dB (A) at LOW



Noise Level

Ceiling cassette-2 way type (FDTW)

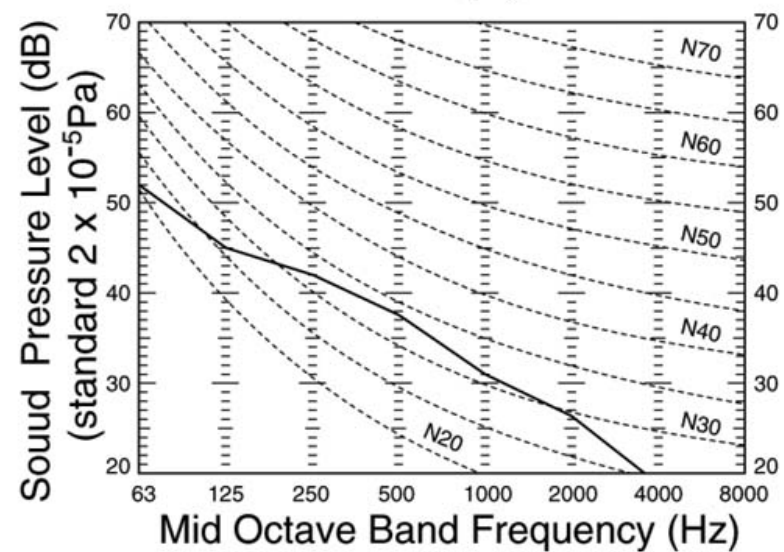
Measured based on JIS B 8616

Mike position as below



FDTW56KXE6

Noise level 39 dB (A) at HIGH
 34 dB (A) at MEDIUM
 32 dB (A) at LOW



Noise level

Note (1) The data are based on the following conditions.

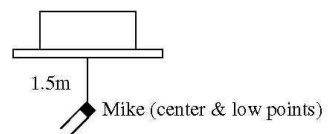
Ambient air temperature: Indoor unit 27°C DB, 19°C WB. Outdoor unit 35°C DB

(2) The data in the chart are measured in an anechoic room.

(3) The noise levels measured in the field are usually higher than the data because of reflection.

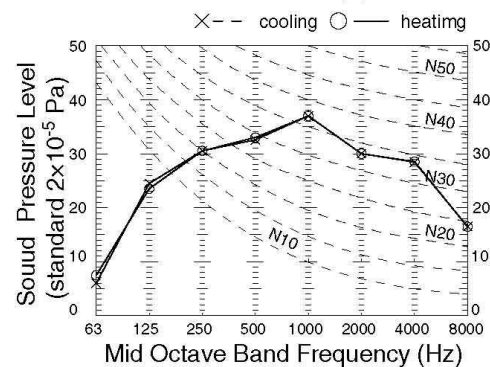
Measured based on JIS B 8616

Mike position as right



FDTC45KXE6B

Noise level 40[40]dB (A) at HIGH
37[37]dB (A) at MEDIUM
31[34]dB (A) at LOW

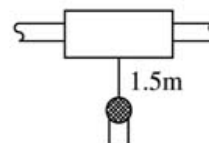


Note (1) Value in [] are for the heating mode.

Noise Level

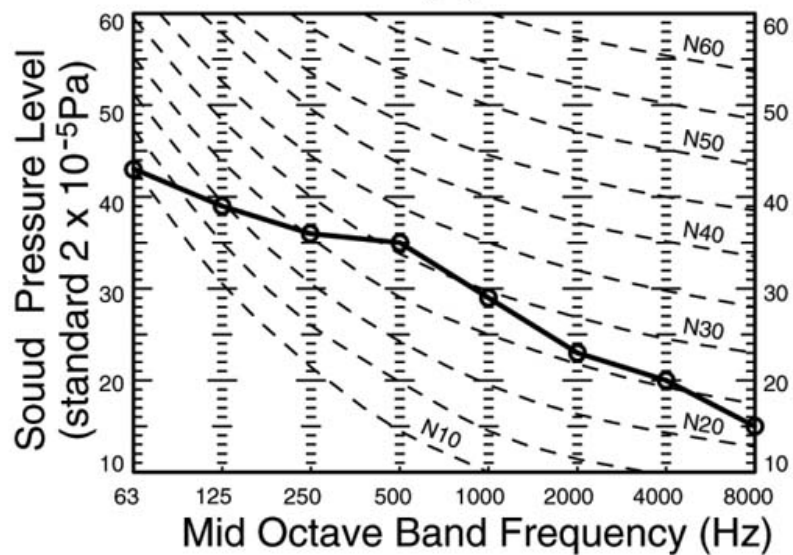
Duct connected-Middle static pressure type (FDUM)

Measured based on JIS B 8616
Mike position as right



FDUM56KXE6

Noise level 35dB(A) at HIGH
 32dB(A) at MEDIUM
 29dB(A) at LOW



Noise level

Note (1) The data are based on the following conditions.

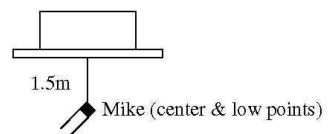
Ambient air temperature: Indoor unit 27°C DB, 19°C WB. Outdoor unit 35°C DB

(2) The data in the chart are measured in an anechoic room.

(3) The noise levels measured in the field are usually higher than the data because of reflection.

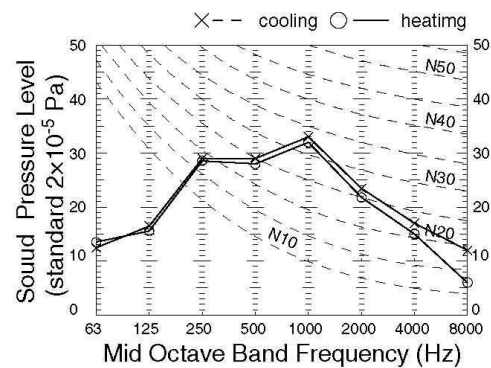
Measured based on JIS B 8616

Mike position as right



FDTC22KXE6B

Noise level 35[35]dB (A) at HIGH
35[33]dB (A) at MEDIUM
30[32]dB (A) at LOW

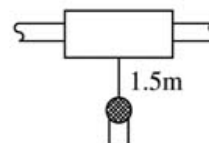


Note (1) Value in [] are for the heating mode.

Noise Level

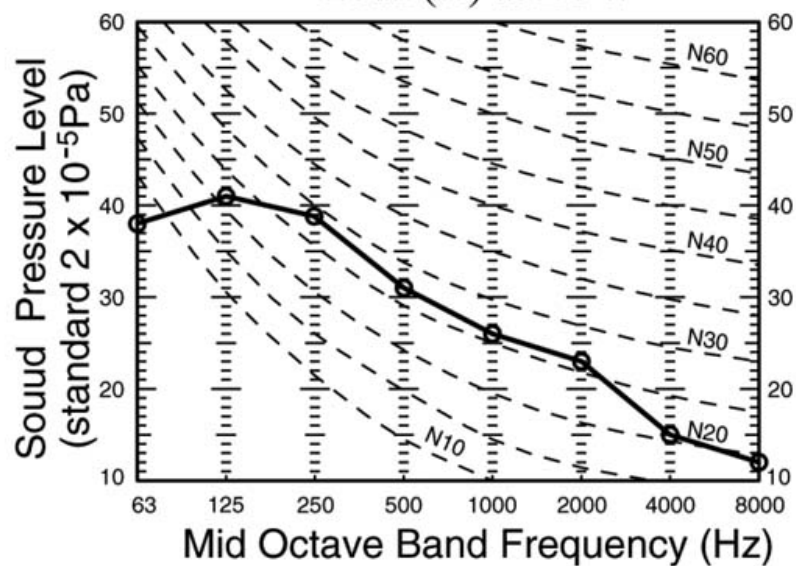
Duct connected-Middle static pressure type (FDUM)

Measured based on JIS B 8616
Mike position as right



FDUM36KXE6

Noise level 34dB(A) at HIGH
 31dB(A) at MEDIUM
 28dB(A) at LOW



Noise Level

Ceiling cassette-2 way type (FDTW)

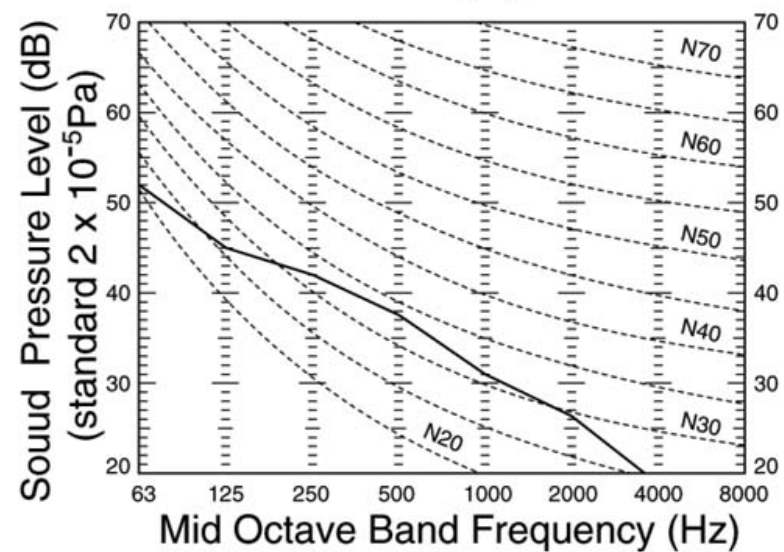
Measured based on JIS B 8616

Mike position as below



FDTW45KXE6

Noise level 39 dB (A) at HIGH
34 dB (A) at MEDIUM
32 dB (A) at LOW



Noise Level

Ceiling cassette-2 way type (FDTW)

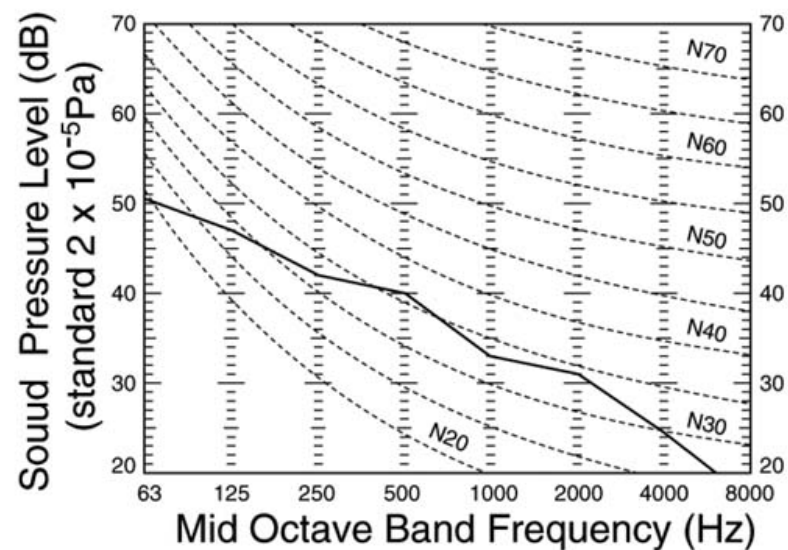
Measured based on JIS B 8616

Mike position as below



FDTW90KXE6

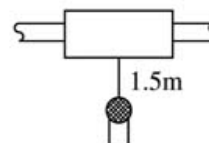
Noise level 41 dB (A) at HIGH
37 dB (A) at MEDIUM
36 dB (A) at LOW



Noise Level

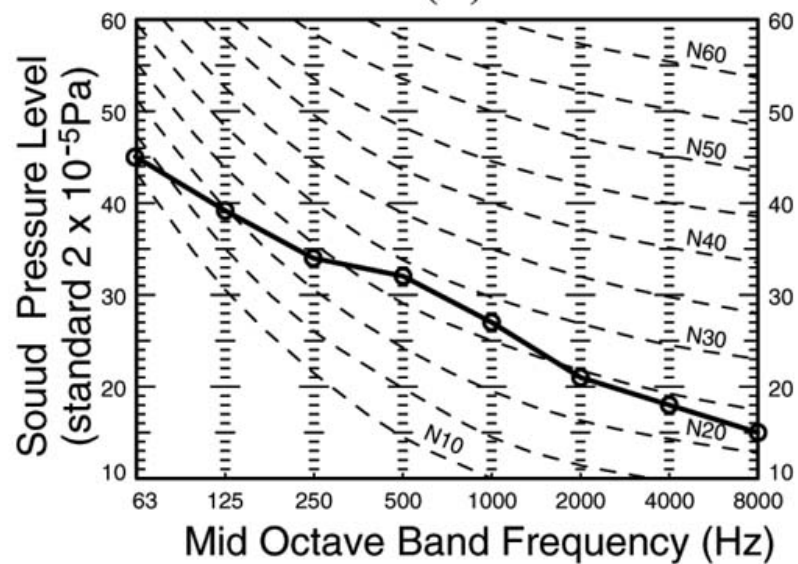
Duct connected-Middle static pressure type (FDUM)

Measured based on JIS B 8616
Mike position as right



FDUM22KXE6

Noise level 33dB(A) at HIGH
31dB(A) at MEDIUM
28dB(A) at LOW



Noise level

Measured based on JIS B 8616

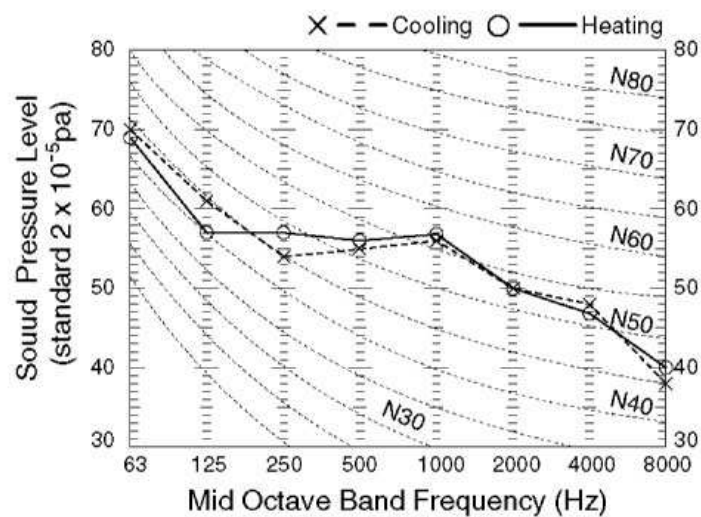
Mike position as highest noise level in position as below

Distance from front side 1m

Height 1m

FDC400KXE6

Noise level 59.5 dB (A) at cooling
60 dB (A) at heating



Noise level

Note (1) The data are based on the following conditions.

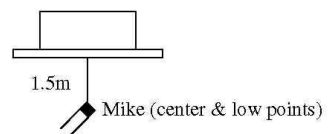
Ambient air temperature: Indoor unit 27°C DB, 19°C WB. Outdoor unit 35°C DB

(2) The data in the chart are measured in an anechoic room.

(3) The noise levels measured in the field are usually higher than the data because of reflection.

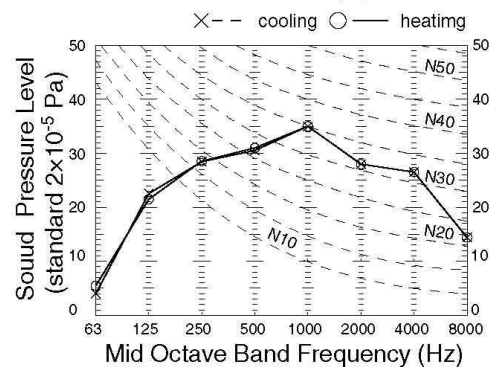
Measured based on JIS B 8616

Mike position as right



FDTC36KXE6B

Noise level 38[38]dB (A) at HIGH
36[36]dB (A) at MEDIUM
31[34]dB (A) at LOW



Note (1) Value in [] are for the heating mode.

Noise level

Note (1) The data are based on the following conditions.

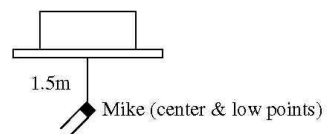
Ambient air temperature: Indoor unit 27°C DB, 19°C WB. Outdoor unit 35°C DB

(2) The data in the chart are measured in an anechoic room.

(3) The noise levels measured in the field are usually higher than the data because of reflection.

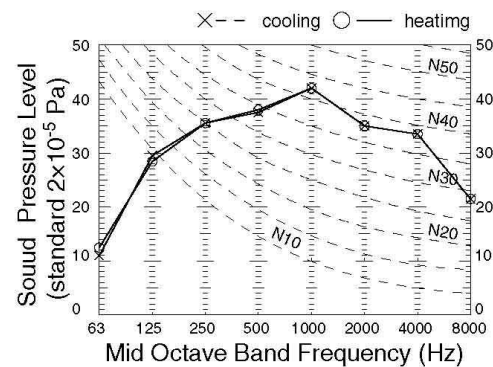
Measured based on JIS B 8616

Mike position as right



FDTC56KXE6B

Noise level 45[45]dB (A) at HIGH
39[39]dB (A) at MEDIUM
31[34]dB (A) at LOW

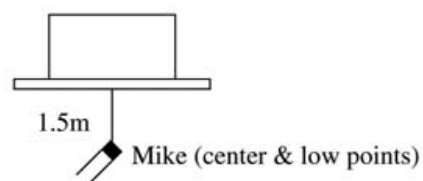


Note (1) Value in [] are for the heating mode.

Noise Level

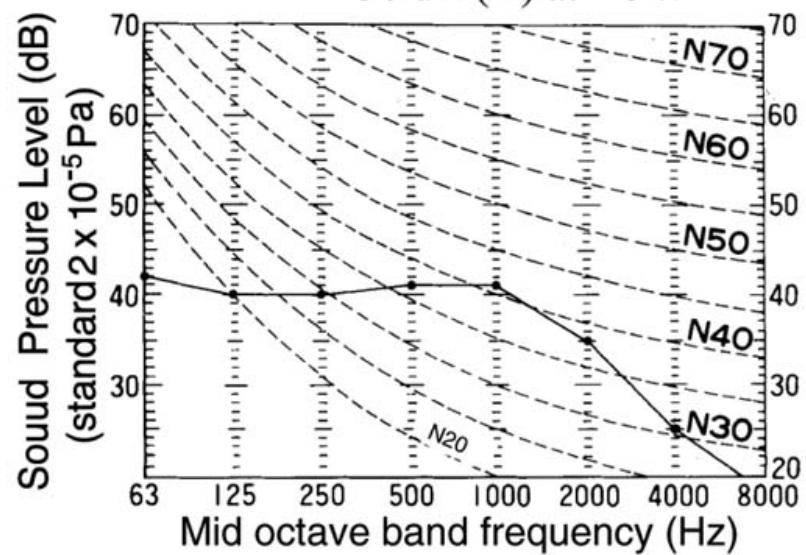
Ceiling cassette-1 way type (FDTS)

Measured based on JIS B 8616
Mike position as right



FDTS71KXE6

Noise level 44 dB (A) at HIGH
 38 dB (A) at MEDIUM
 36 dB (A) at LOW



Noise level

Measured based on JIS B 8616

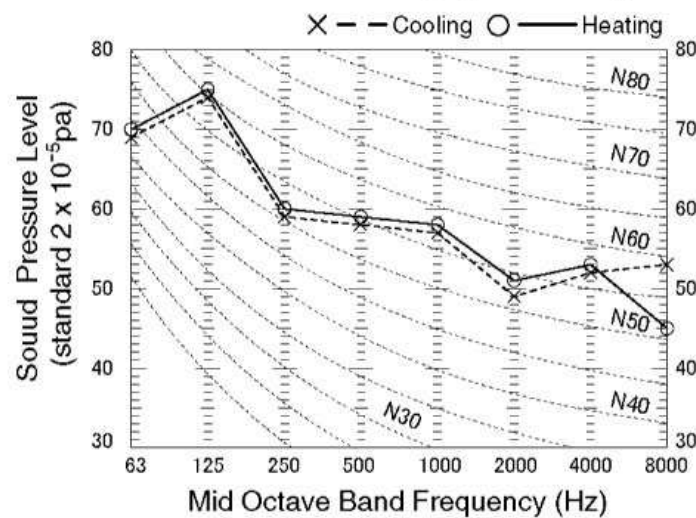
Mike position as highest noise level in position as below

Distance from front side 1m

Height 1m

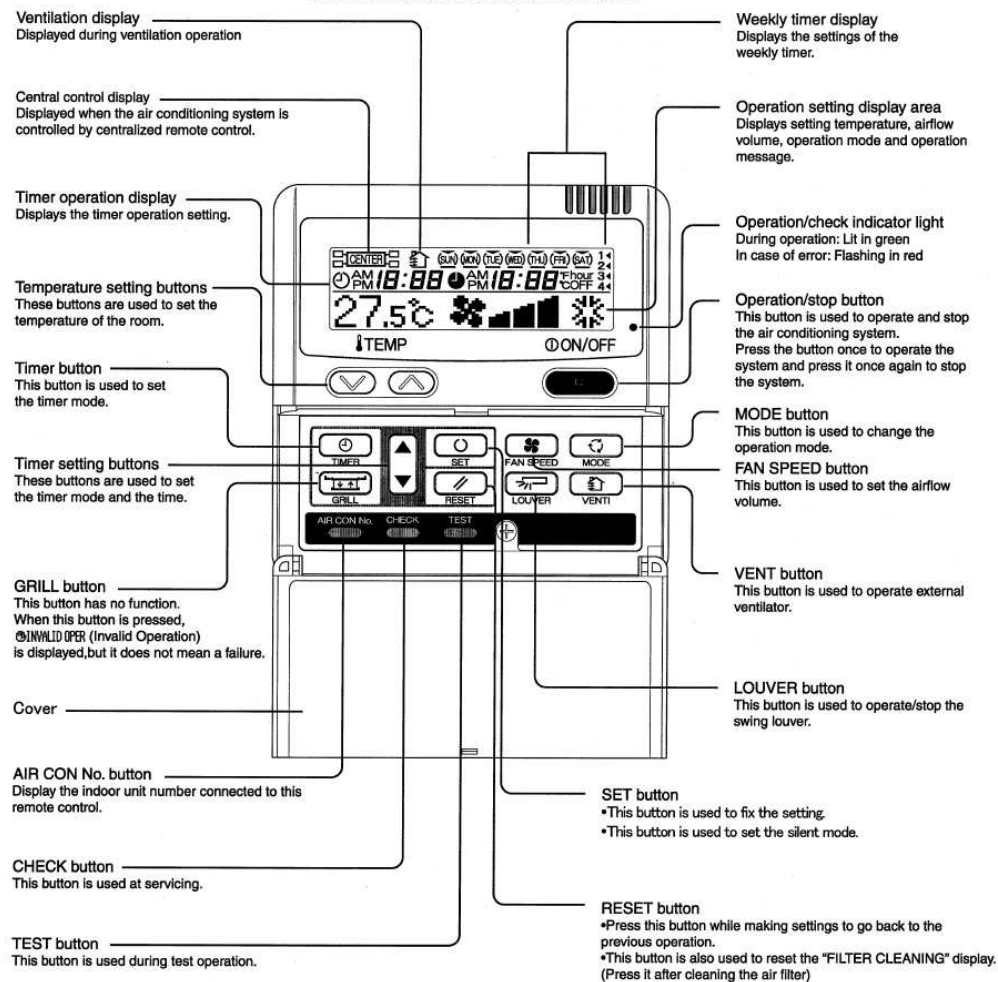
FDC560KXE6

Noise level 63 dB (A) at cooling
63.5 dB (A) at heating



RC-E3

The figure below shows the remote control with the cover opened.



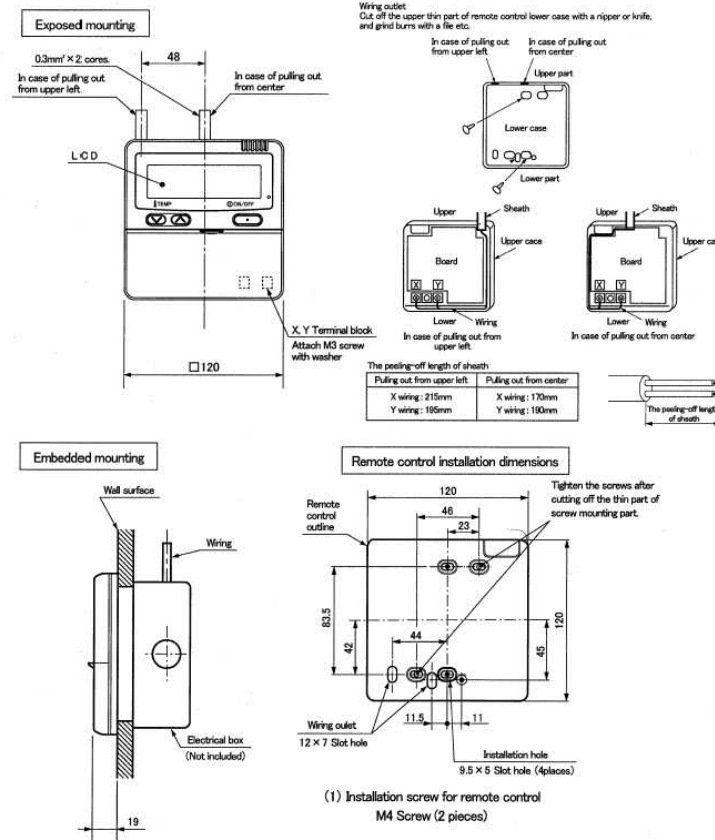
* All displays are described in the liquid crystal display for explanation.

Installation of remot control

DO NOT install it on the following places in order to avoid malfunction.

- | | |
|---------------------------------------|---|
| (1) Places exposed to direct sunlight | (4) Hot surface or cold surface enough to generate condensation |
| (2) Places near heat devices | (5) Places exposed to oil mist or steam directly |
| (3) High humidity places | (6) Uneven surface |

Unit:mm



Length	Wiring thickness
100 to 200m	0.5mm ² X 2 cores
Under 300m	0.75mm ² X 2 cores
Under 400m	1.25mm ² X 2 cores
Under 500m	2.0mm ² X 2 cores

Adapted to **RoHS** directive