

Duct Connected -Low/Middle Static Pressure- FDUM

Model No.

FDUM22KXE6F-W	FDUM22KXE6F
FDUM28KXE6F-W	FDUM28KXE6F
FDUM36KXE6F-W	FDUM36KXE6F
FDUM45KXE6F-W	FDUM45KXE6F
FDUM56KXE6F-W	FDUM56KXE6F
FDUM71KXE6F-W	FDUM71KXE6F
FDUM90KXE6F-W	FDUM90KXE6F
FDUM112KXE6F-W	FDUM112KXE6F
FDUM140KXE6F-W	FDUM140KXE6F
FDUM160KXE6F-W	FDUM160KXE6F



Remote control (option)

Wired



Wireless



*R32 indoor unit are not compatible with R410A outdoor unit and vice versa.

Filter kit (option)

UM-FL1EF : for 22-56

UM-FL2EF : for 71, 90

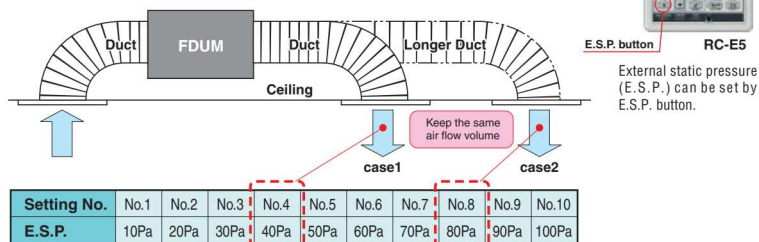
UM-FL3EF : for 112, 140, 160



*Filter pressure loss:5pa

Automatic external static pressure (E.S.P.) control

Using the automatic control, DC motor, the most optimum air flow volume is achieved. The Indoor unit will recognise external static pressure automatically and keep rated air flow volume.



E.S.P. button RC-E5
External static pressure (E.S.P.) can be set by E.S.P. button.

Thin design

The height of all FDUM models only 280mm

280mm



Transparent inspection window

Dirt condition of the bottom of the drain pan can be checked through this transparent inspection window without removing drain pan. (Please refer to P86)

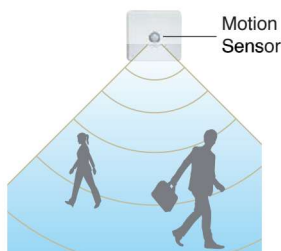
Motion Sensor

(Option)

Motion sensor is equipped in the ceiling plane or wall plane and detects the presence/absence and activity of humans in a room to improve the comfort and energy saving performance of the unit.

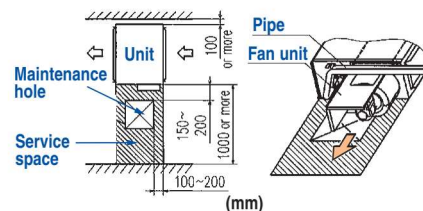


LB-KIT2



Improvement of the serviceability

Fan unit (impeller and motor) can be pulled out from the right side or the bottom side of the unit. Maintenance can be carried out from the right side or the bottom side of the unit.



Specifications



Item		Model	FDUM22KXE6F-W	FDUM28KXE6F-W	FDUM36KXE6F-W	FDUM45KXE6F-W	FDUM56KXE6F-W
Nominal cooling capacity		kW	2.2	2.8	3.6	4.5	5.6
Nominal heating capacity		kW	2.5	3.2	4.0	5.0	6.3
Power source			1 Phase 220-240V, 50Hz				
Power consumption	Cooling	kW	0.08-0.08				
	Heating		0.08-0.08				
Sound power level		dB(A)	Cooling:57 Heating:60			Cooling:58 Heating:60	
Sound pressure level	Cooling	dB(A)	P-Hi:33 Hi:27 Me:25 Lo:23			P-Hi:34 Hi:29 Me:27 Lo:25	
	Heating		P-Hi:36 Hi:30 Me:29 Lo:25			P-Hi:35 Hi:30 Me:29 Lo:25	
Exterior dimensions (H x W x D)		mm	280 x 750 x 635				
Net weight		kg	29				
Air flow		m³/min	P-Hi:13 Hi:10 Me:9 Lo:8				
Maximum external static pressure		Pa	100				
Outside air intake			Possible				
Air filter, Q'ty			Filter kit:UM-FL1EF				
Remote control (option)			wired:RC-EX3D, RC-E5, RCH-E3 wireless:RCN-KIT4-E2				
Installation data Refrigerant piping size		mm(in)	Liquid line:ø6.35(1/4") Gas line:ø9.52(3/8")			Liquid line:ø6.35(1/4") Gas line:ø12.7(1/2")	

Item		Model	FDUM71KXE6F-W	FDUM90KXE6F-W	FDUM112KXE6F-W	FDUM140KXE6F-W	FDUM160KXE6F-W
Nominal cooling capacity		kW	7.1	9.0	11.2	14.0	16.0
Nominal heating capacity		kW	8.0	10.0	12.5	16.0	18.0
Power source			1 Phase 220-240V, 50Hz				
Power consumption	Cooling	kW	0.16-0.16		0.25-0.25	0.26-0.26	0.38-0.38
	Heating		0.16-0.16		0.25-0.25	0.26-0.26	0.38-0.38
Sound power level		dB(A)	Cooling:63 Heating:65		Cooling:68 Heating:69		72
Sound pressure level	Cooling	dB(A)	P-Hi:37 Hi:31 Me:27 Lo:22		P-Hi:40 Hi:36 Me:34 Lo:28		P-Hi:41 Hi:37 Me:34 Lo:28
	Heating		P-Hi:39 Hi:33 Me:28 Lo:23		P-Hi:41 Hi:36 Me:34 Lo:28		
Exterior dimensions (H x W x D)		mm	280 x 950 x 635		280 x 1368 x 740		
Net weight		kg	34		54		
Air flow		m³/min	P-Hi:24 Hi:19 Me:15 Lo:10		P-Hi:36 Hi:28 Me:25 Lo:19	P-Hi:39 Hi:32 Me:26 Lo:20	P-Hi:48 Hi:35 Me:28 Lo:22
Maximum external static pressure		Pa	100				
Outside air intake			Possible				
Air filter, Q'ty			Filter kit:UM-FL2EF		Filter kit:UM-FL3EF		
Remote control (option)			wired:RC-EX3D, RC-E5, RCH-E3 wireless:RCN-KIT4-E2				
Installation data Refrigerant piping size		mm(in)	Liquid line:ø9.52(3/8") Gas line:ø15.88(5/8")				

Specifications



Item	Model	FDUM22KXE6F	FDUM28KXE6F	FDUM36KXE6F	FDUM45KXE6F	FDUM56KXE6F
Nominal cooling capacity	kW	2.2	2.8	3.6	4.5	5.6
Nominal heating capacity	kW	2.5	3.2	4.0	5.0	6.3
Power source		1 Phase 220-240V, 50Hz				
Power consumption	Cooling	0.10-0.10				
	Heating	0.10-0.10				
Sound power level		60				
Sound pressure level		P-Hi:37 Hi:32 Me:29 Lo:26				
Exterior dimensions (H x W x D)	mm	280 x 750 x 635				
Net weight	kg	29				
Air flow	m ³ /min	P-Hi:13 Hi:10 Me:9 Lo:8				
Maximum external static pressure	Pa	100				
Outside air intake		Possible				
Air filter, Q'ty		Filter kit:UM-FL1EF				
Remote control (option)		wired:RC-EX3D, RC-E5, RCH-E3 wireless:RCN-KIT4-E2				
Installation data Refrigerant piping size	mm(in)	Liquid line:ø6.35(1/4") Gas line:ø9.52(3/8")		Liquid line:ø6.35(1/4") Gas line:ø12.7(1/2")		

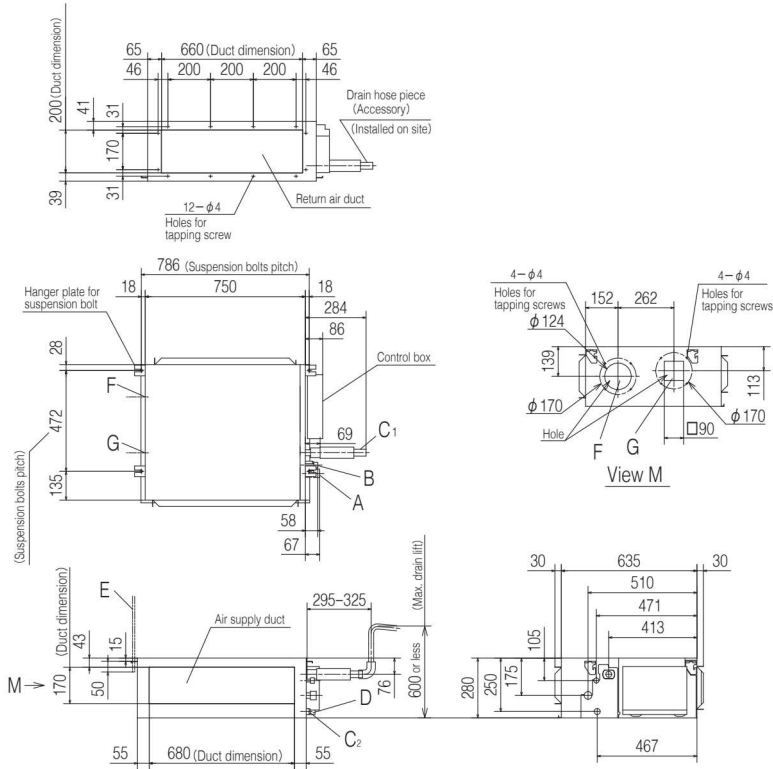
Item		Model	FDUM71KXE6F	FDUM90KXE6F	FDUM112KXE6F	FDUM140KXE6F	FDUM160KXE6F
Nominal cooling capacity		kW	7.1	9.0	11.2	14.0	16.0
Nominal heating capacity		kW	8.0	10.0	12.5	16.0	18.0
Power source			1 Phase 220-240V, 50Hz				
Power consumption	Cooling	kW	0.20-0.20	0.29-0.29	0.33-0.33	0.45-0.45	
	Heating		0.20-0.20	0.29-0.29	0.33-0.33	0.45-0.45	
Sound power level		dB(A)	65		71	72	74
Sound pressure level		dB(A)	P-Hi:38 Hi:33 Me:29 Lo:25		P-Hi:44 Hi:38 Me:36 Lo:30	P-Hi:45 Hi:40 Me:34 Lo:29	P-Hi:47 Hi:40 Me:35 Lo:30
Exterior dimensions (H x W x D)		mm	280 x 950 x 635		280 x 1368 x 740		
Net weight		kg	34		54		
Air flow		m³/min	P-Hi:24 Hi:19 Me:15 Lo:10		P-Hi:36 Hi:28 Me:25 Lo:19	P-Hi:39 Hi:32 Me:26 Lo:20	P-Hi:48 Hi:35 Me:28 Lo:22
Maximum external static pressure		Pa	100				
Outside air intake			Possible				
Air filter, Q'ty			Filter kit:UM-FL2EF		Filter kit:UM-FL3EF		
Remote control (option)			wired:RC-EX3D, RC-E5, RCH-E3 wireless:RCN-KIT4-E2				
Installation data Refrigerant piping size		mm(in)	Liquid line:ø9.52(3/8") Gas line:ø15.88(5/8")				

- The data are measured under the following conditions (ISO-T1). Cooling: Indoor temp. of 27°CDB, 19°CWB, and outdoor temp. of 35°CDB. Heating: Indoor temp. of 20°CDB, and outdoor temp. of 7°CDB, 6°CWB.
- Sound pressure level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.

Dimensions

All measurements in mm.

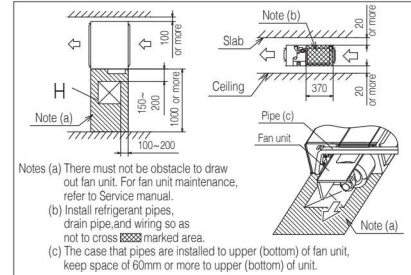
FDUM22KXE6F-W, 28KXE6F-W, 36KXE6F-W, 45KXE6F-W, 56KXE6F-W
FDUM22KXE6F, 28KXE6F, 36KXE6F, 45KXE6F, 56KXE6F



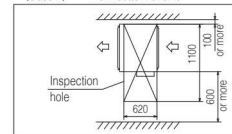
Space for installation and service

Select either of two cases to keep space for installation and services.

(Case 1) From side of unit



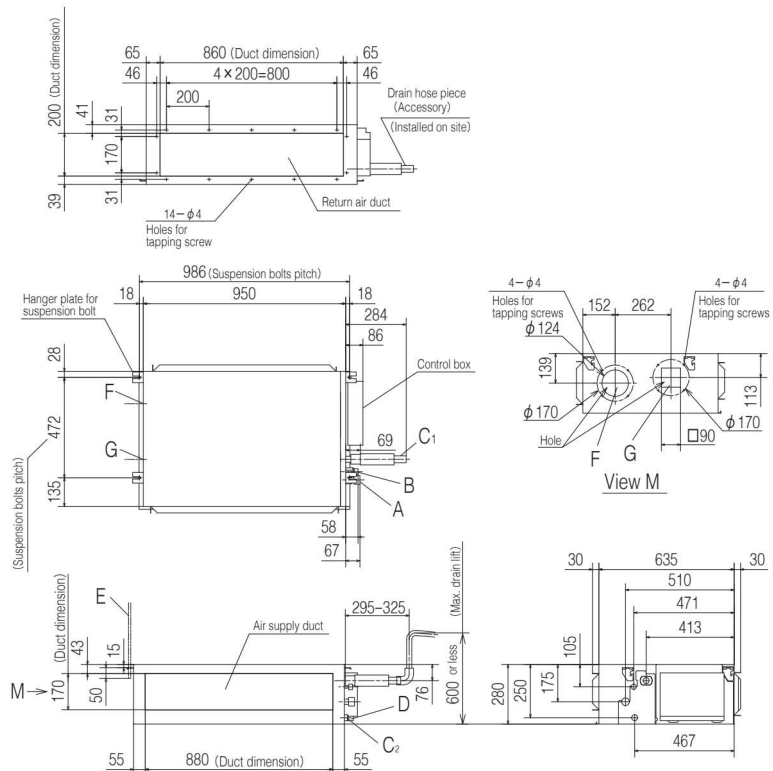
(Case 2) From bottom of unit



Symbol	Model	Content
A	Gas piping	22.28 (3/8") (Flare) 36.45.56 (1 1/2") (Flare)
B	Liquid piping	φ 9.52 (3/8") (Flare) φ 12.7 (1/2") (Flare)
C1	Drain piping	VP25 (O.D. 32)
C2	Drain piping (Gravity drainage)	VP20 (O.D. 26)
D	Hole for wiring	(M10)
E	Suspension bolts	(M10)
F	Outside air opening for ducting	(φ 150) (Knock out)
G	Air outlet opening for ducting	(φ 125) (Knock out)
H	Inspection hole	(450X450)

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

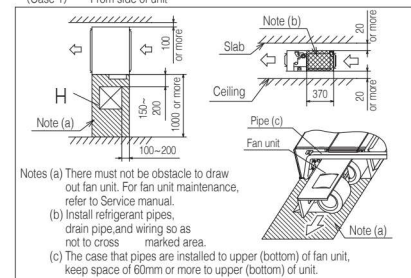
FDUM71KXE6F-W, 90KXE6F-W
FDUM71KXE6F, 90KXE6F



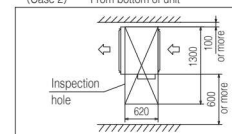
Space for installation and service

Select either of two cases to keep space for installation and services.

(Case 1) From side of unit



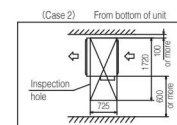
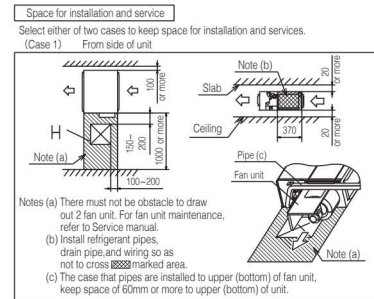
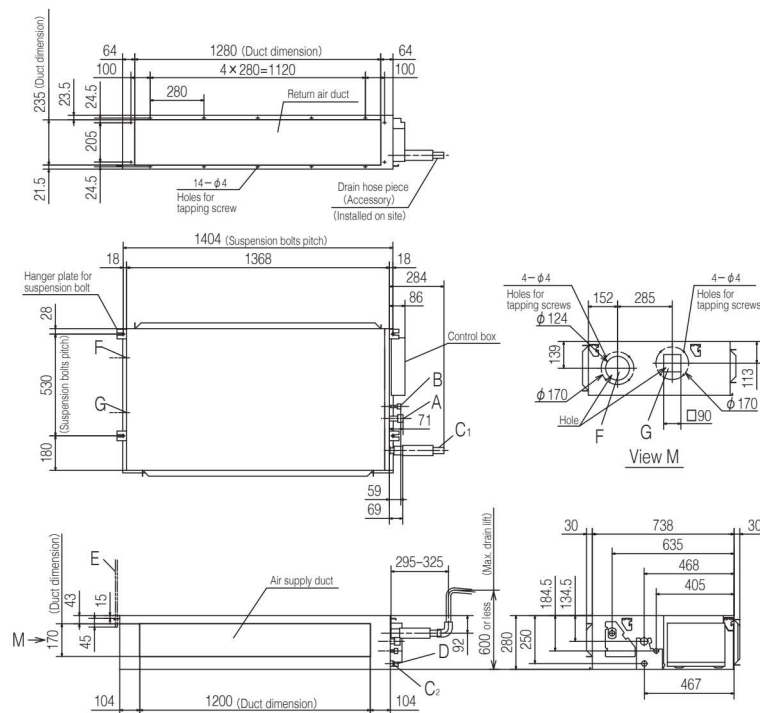
(Case 2) From bottom of unit



Symbol	Model	Content
A	Gas piping	15.88 (5/8") (Flare)
B	Liquid piping	φ 9.52 (3/8") (Flare)
C1	Drain piping	VP25 (O.D. 32)
C2	Drain piping (Gravity drainage)	VP20 (O.D. 26)
D	Hole for wiring	(M10)
E	Suspension bolts	(M10)
F	Outside air opening for ducting	(φ 150) (Knock out)
G	Air outlet opening for ducting	(φ 125) (Knock out)
H	Inspection hole	(450X450)

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

FDUM112KXE6F-W, 140KXE6F-W, 160KXE6F-W
FDUM112KXE6F, 140KXE6F, 160KXE6F



Symbol	Content
A	Gas piping $\phi 15.88 (5/8")$ (Flare)
B	Liquid piping $\phi 9.52 (3/8")$ (Flare)
C1	Drain piping VP25 (O.D.32)
C2	Drain piping (Gravity drainage) VP20 (O.D.26)
D	Hole for wiring
E	Suspension bolts (M10)
F	Outside air opening for ducting ($\phi 150$) (Knock out)
G	Air outlet opening for ducting ($\phi 125$) (Knock out)
H	Inspection hole (450X450)

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