

Duct Connected -High Static Pressure-**FDU**

Model No.

FDU45KXE6F-W FDU45KXE6F FDU56KXE6F-W FDU56KXE6F FDU71KXE6F-W FDU71KXE6F FDU90KXE6F-W FDU90KXE6F FDU112KXE6F-W FDU112KXE6F FDU140KXE6F-W FDU140KXE6F FDU160KXE6F-W FDU160KXE6F

Model No.

FDU224KXZE1 FDU280KXZE1





FDU 224 · 280

Remote control (option)

Wired







RC-EX3D RC-E5 RCH-E3

Wireless





RCN-KIT4-E2

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

External Static Pressure(E.S.P) control

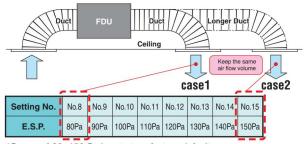
Manually set the E.S.P on the wired controller, and the indoor unit will control the fan speed to keep rated air flow volume at each fan speed setting. You can set a required E.S.P by your wired remote controller - calculated with the set air flow rate and the pressure loss of the duct.



External Static Pressure (E.S.P.) can be set by E.S.P. button.

Motion

Sensor



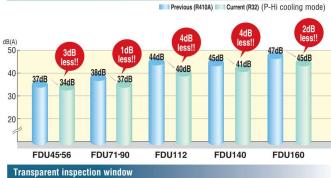
*Range of 80-150 Pa is set at ex-factory default. Range of 10-200 Pa is available by setting SW8-4 switch on at site.

Thin design

The height of FDU(45 - 160) models are only 280mm



Reduction of sound pressure level



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.





Improvement of the serviceability

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



Specifications @

Item		Model	FDU45KXE6F-W	FDU56KXE6F-W	FDU71KXE6F-W	FDU90KXE6F-W	FDU112KXE6F-W	FDU140KXE6F-W	FDU160KXE6F-W
Nominal cooling capacity		kW	4.5	5.6	7.1	9.0	11.2	14.0	16.0
Nominal heating capacity	Nominal heating capacity		5.0	6.3	8.0	10.0	12.5	16.0	18.0
Power source					1 F	Phase 220-240V, 50)Hz		
Rower consumption	Cooling	kW	0.10-0.10		0.24-0.25		0.31-0.32	0.35-0.36	0.42-0.43
Power consumption	Heating	KVV	0.10-0.10		0.24-0.25		0.31-0.32	0.35-0.36	0.42-0.43
Sound power level		dB(A)	Cooling:58 Heating:60		Cooling:63 Heating:65		Cooling:68 Heating:69 72		72
Sound procedure level	Cooling	JD(A)	P-Hi:34 Hi:29 Me:27 Lo:25		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	P-Hi:45 Hi:38 Me:34 Lo:29
Sound pressure level	Heating	dB(A)	P-Hi:35 Hi:30 Me:29 Lo:25		P-Hi:39 Hi:33	Me:28 Lo:23	P-Hi:41 Hi:36 Me:34 Lo:28	P-Hi:41 Hi:37 Me:34 Lo:28	P-Hi:45 Hi:38 Me:34 Lo:29
Exterior dimensions (H x W x D)		mm	280x750x635		280x950x635		280x1368x740		
Net weight		kg	29		34		54		
Air flow		m³/min	P-Hi:13 Hi:10 Me:9 Lo:8		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 pres	Maximum external static pressure		200						
Outside air intake			Possible						
Air filter, Q'ty			Procure locally						
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:ø12.7(1/2") Liquid line:ø9.52(3/8") Gas line:ø15.88(5/8")						

^{1.} 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. 2. Sound pressure level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.

Specifications 🕮



Item		Model	FDU45KXE6F	FDU56KXE6F	FDU71KXE6F	FDU90KXE6F	FDU112KXE6F	FDU140KXE6F	FDU160KXE6F
Nominal cooling capacity		kW	4.5	5.6	7.1	9.0	11.2	14.0	16.0
Nominal heating capacity		kW	5.0	6.3	8.0	10.0	12.5	16.0	18.0
Power source			1 Phase 220-240V, 50Hz						
Dames accounting	Cooling	kW	0.10-0.10		0.24-0.25		0.31-0.32	0.35-0.36	0.42-0.43
Power consumption	Heating		0.10-0.10		0.24-0.25		0.31-0.32	0.35-0.36	0.42-0.43
Sound power level	Sound power level		6	0	65		71	72	74
Sound pressure level		dB(A)	P-Hi:37 Hi:32	! Me:29 Lo:26	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	280x750x635		280x950x635		280x1368x740		
Net weight		kg	29 34		54				
Air flow		m³/min	P-Hi:13 Hi:10 Me:9 Lo:8		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	200						
Outside air intake			Possible						
Air filter, Q'ty			Procure locally						
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:ø12.7(1/2") Liquid line:ø9.52(3/8") Gas line:ø15.88(5/8")						

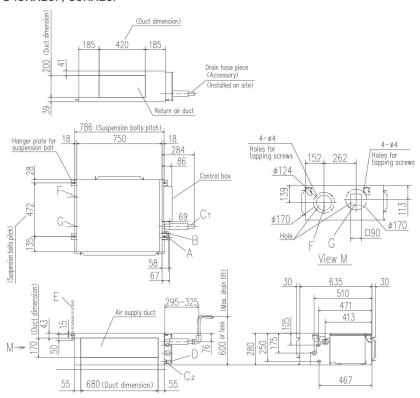
Item		Model	FDU224KXZE1	FDU280KXZE1
Nominal cooling capacity		kW	22.4	28.0
Nominal heating capacity		kW	25.0	31.5
Power source			1 Phase 220	-240V, 50Hz
Davies consumentian	Cooling	kW	1.16-1.20	1.16-1.20
Power consumption	Heating	KVV	1.16-1.20	1.16-1.20
Sound power level		dB(A)	7	5
Sound pressure level		dB(A)	P-Hi:52 Hi:50	Me:47 Lo:45
Exterior dimensions (H x W x	(D)	mm	379x16	00x893
Net weight		kg	8	9
Air flow		m³/min	P-Hi:80 Hi:72	Me:64 Lo:56
Maximum external static pres	ssure	Pa	20	00
Outside air intake			Possible(on	return duct)
Air filter, Q'ty			Procure	locally
Remote control (option)			wired:RC-EX3D, RC-E5, RC	H-E3 wireless:RCN-KIT4-E2
Installation data Refrigerant	oiping size	mm(in)	Liquid line:ø9.52(3/8") Gas line:ø19.05(3/4")	Liquid line:ø9.52(3/8") Gas line:ø22.22(7/8")

^{1.} 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. 2. Sound pressure level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.

Dimensions

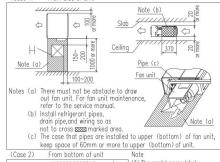
All measurements in mm.

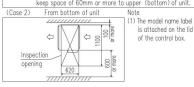
FDU45KXE6F-W, 56KXE6F-W FDU45KXE6F, 56KXE6F



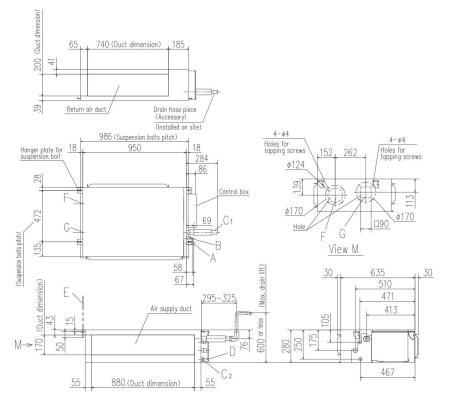
Symbol		Content
Α	Gas piping	φ12.7 (1/2") (Flare)
В	Liquid piping	ø6.35 (1/4") (Flare)
C1	Drain piping	VP25 (0.D.32)
C2	Drain piping (Gravity drainage)	VP20
D	Hole for wiring	
E	Suspension bolts	M10
F	Outside air opening for ducting	(Knock out)
G	Air outlet opening for ducting	(Knock out)
H.	Inspection opening	(450X450)

Space for installation and service |
Select either of two cases to keep space for installation and services.
(Case 1) From side of unit





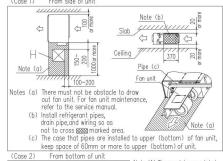
FDU71KXE6F-W, 90KXE6F-W FDU71KXE6F, 90KXE6F



Symbol	Content				
A	Gas piping	ø15.88 (5/8") (Flare)			
В	Liquid piping	φ9.52 (3/8") (Flare)			
C1	Drain piping	VP25 (0.D.32)			
C2	Drain piping (Gravity drainage)	VP20			
D	Hole for wiring				
Ε	Suspension bolts	M10			
F	Outside air opening for ducting	(Knock out)			
G	Air outlet opening for ducting	(Knock out)			
Н	Inspection opening	(450X450)			

Space for installation and service

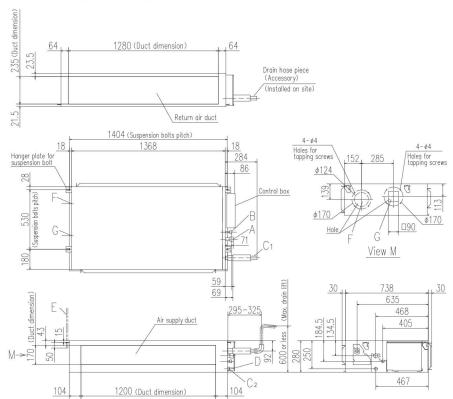
Select either of two cases to keep space for installation and services.
(Case 1) From side of unit



Inspection opening 620

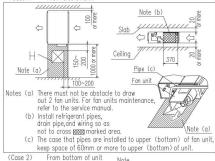
Note (1) The model name label is attached on the lid of the control box.

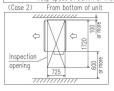
FDU112KXE6F-W, 140KXE6F-W, 160KXE6F-W FDU112KXE6F, 140KXE6F, 160KXE6F



Symbol	Content			
Α	Gas piping	ø15.88 (5/8") (Flare)		
В	Liquid piping	φ9.52 (3/8") (Flare)		
C1	Drain piping	VP25 (0.D.32)		
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)		
Н	Inspection opening	(450X450)		

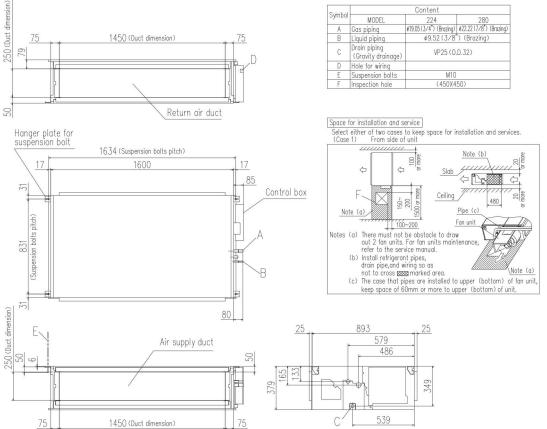
Space for installation and service Select either of two cases to keep space for installation and services.
(Case 1) From side of unit





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

FDU224KXZE1, 280KXZE1





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