

Duct Connected -High Static Pressure-FDU

Model No.

FDU45KXE6F FDU56KXE6F FDU71KXE6F FDU90KXE6F FDU112KXE6F FDU140KXE6F

FDU160KXE6F





Remote control (option)

Wired



RC-EX3A RC-E5 RCH-E3

Wireless



RCN-KIT4-E2

Model No.

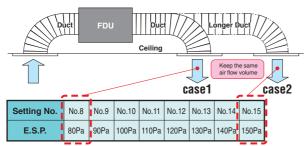
FDU224KXZE1 FDU280KXZE1

External Static Pressure(E.S.P) control

The External Static Pressure (E.S.P.) can be manually set on the wired remote controller. Indoor unit will control the fan speed to keep rated air flow volume at each fan speed setting. You can set required E.S.P. by 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.

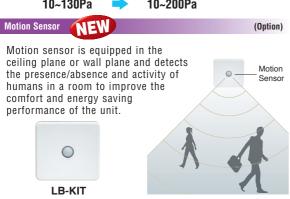


^{*}Range of 80~150 Pa is set at ex-factory default.

Range of 10~200 Pa is available by setting SW8-4 switch on at site.

<Expansion of external static pressure range>

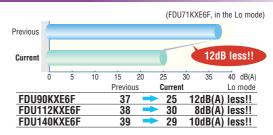
Previous **Current 10~130Pa** → **10~200Pa**



Thin design



Reduction of sound pressure level



Transparent inspection window

Dirt condition of the bottom of a drain pan can be checked through this transparent inspection window without removing drain pan. (Please refer to P74)

Improvement of the serviceability

Fan unit (impeller and motor) can be pulled out from the right side of the unit. Maintenance can be available from the right side or the bottom side. (Common for FDIJM22~160KXF6F

(Common for FDUM22~160KXE6F & FDU45~160KXE6F)





Specifications

Item N	/lodel	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, 50H	Z		
Power Cooling	kW	0.10-	-0.10	0.24	-0.25	0.31-0.32	0.35-0.36	0.42-0.43
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)	6	0	(35		_	
Sound pressure level	dB(A)	P-Hi:37 Hi:32	Me:29 Lo:26	P-Hi:38 Hi:33	3 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	280x75	50x635	280x9	50x635		280x1370x740	
Net weight	kg	29 34		54				
Air flow	m³/min	P-Hi:13 Hi:1	0 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		Procure locally						
Remote control(option)		wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-KIT4-E2						
Installation data Refrigerant piping size	mm(in)	Liquid line:ø6.35(1/4") Liquid line:ø9.52(3/8") Gas line:ø12.7(1/2") 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. External static pressure of indoor unit is 60Pa.
2. Sound pressure level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.

Item M	odel	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	
Power Cooling	LAM	1.16-1.20	1.16-1.20	
consumption Heating	kW	1.16-1.20	1.16-1.20	
Sound pressure level	dB(A)	P-Hi:52 Hi:50	Me:47 Lo:45	
Exterior dimensions H x W x D	mm	379x1600x893		
Net weight	kg	89		
Air flow	m3/min	P-Hi:80 Hi:72 Me:64 Lo:56		
Maximum external static pressure	Pa	200		
Outside air intake		Possible(on return duct)		
Air filter		Procure	e locally	
Remote control(option)		wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-KIT4-E2		
Installation data Refrigerant piping size ^r	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")	

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. External static pressure of indoor unit is 72Pa.

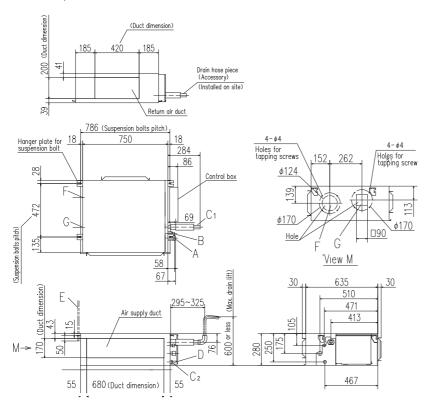
2. Sound pressure level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.



Dimensions

All measurements in mm.

FDU45KXE6F, 56KXE6F



Symbol		Content	
A Gas piping		ø12.7 (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)	
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 (b) \Diamond 150~ 200 1000 or more Pipe (c) Fan unit 100~200 Notes (a) There must not be obstacle to draw out fan unit. For fan unit maintenance, refer to the service manual.

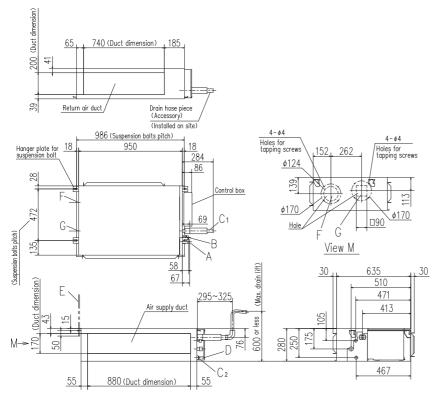
(b) Install refrigerant pipes, drain pipe, and wiring so as not to cross Essas marked area.

(c) The case that pipes are installed to upper (bottom) of fan unit, keep space of 60mm or more to upper (bottom) of unit.

(Case 2) From bottom of unit Note

(1) The model name label 4 00 mg/m is attached on the lid of the control box.

FDU71KXE6F, 90KXE6F



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 (b) \Diamond 150~ 200 1000 or m Pipe (c) Notes (a) There must not be obstacle to draw out fan unit. For fan unit maintenance, refer to the service manual.

(b) Install refrigerant pipes, drain pipe, and wiring so as not to cross Essas marked area.

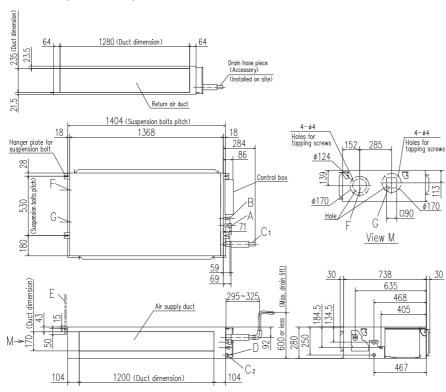
(c) The case that pipes are installed to upper (bottom) of fan unit, keep space of 60mm or more to upper (bottom) of unit.

(Case 2) From bottom of unit \Diamond 300 Inspection

is attached on the lid of the control box.



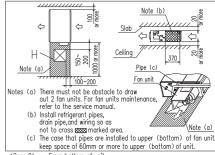
FDU112KXE6F, 140KXE6F, 160KXE6F

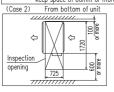


Symbol	Content		
Α	Gas piping	ø15.88 (5/8") (Flare)	
В	Liquid piping	φ9.52 (3/8") (Flare)	
C1	Drain piping	VP25 (0.D.32)	
C2	Drain piping (Gravity drainage)	VP20	
D	Hole for wiring		
E	Suspension bolts	M10	
F	Outside air opening for ducting	(Knock out)	
G	Air outlet opening for ducting	(Knock out)	
Н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

Space for installation and service

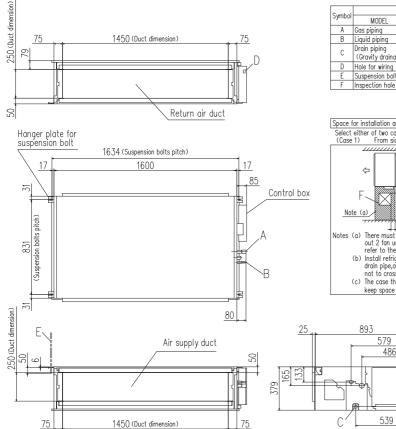
Select either of two cases to keep space for installation and services.
(Case 1) From side of unit



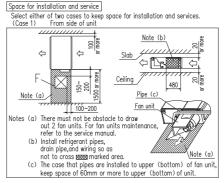


(1) The model name label is attached on the lid of the control box.

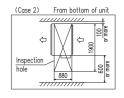
FDU224KXZE1, 280KXZE1



C L . I	Content				
Symbol	MODEL	224	280		
Α	Gas piping		\$22.22 (7/8") (Brazing)		
В	Liquid piping	φ9.52 (3/8'	*) (Brazing)		
С	Drain piping (Gravity drainage)	VP25 (0.	D.32)		
D	Hole for wiring				
Е	Suspension bolts	M10			
F	Inspection hole	(450X4	50)		



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