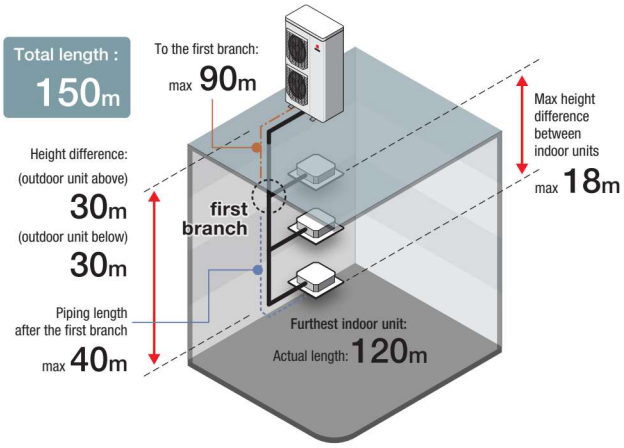
KXZ Lite Heat pump systems

8,10 HP (22.4kW, 28.0kW)

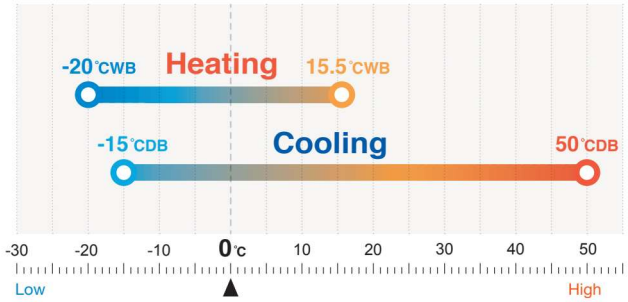
R410A Blue Fin

Model No.	Nominal Cooling Capacity
FDC224KXZPE1	22.4kW
FDC280KXZPE1	28.0kW

- Connect up to 8 indoor units/up to 120% capacity.
- High efficiency with EER up to 4.00.
- These units employ DC inverter multiport compressors with concentrated winding motor.
- KXZ Lite extends a cooling range operation up to 50°C.
- External static pressure is available up to 35 Pa.
- Tropical usage mode.



Range of operation



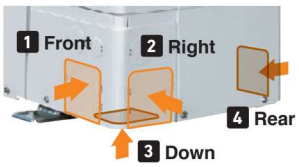
Specifications

Item			Model	FDC224KXZPE1	FDC280KXZPE1
Nominal horse power				8HP	10HP
Power source				3 Phase 380-415V, 50Hz	
Starting current			A	5	
Max current			A	21	22
Nominal capacity	Cooling		kW	22.4	28.0
	Heating			22.4	28.0
Electrical characteristics	Power consumption	Cooling	kW	5.6	7.87
		Heating		4.8	6.47
Exterior dimensions	HxWxD		mm	1505x970x370	
Net weight			kg	165	
Sound pressure level	Cooling/Heating		dB(A)	59/60	60/63
Refrigerant	Type / GWP			R410A / 2088	
	Charge		kg/TCO2Eq	8.9 / 18.583	
Refrigerant piping size	Liquid line		mm(in)	ø9.52(3/8")	
	Gas line			ø19.05(3/4")	ø22.22(7/8")
Capacity connection			%	50-120	
Number of connectable indoor units				8	8

1. The data are measured under the following conditions(ISO-T1, H1). Cooling: Indoor temp. of 27°CDB, 19°CCWB, 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.
3. 'tonne(s) of CO_2 equivalent' means a quantity of greenhouse gases- expressed as the product of the weight of the greenhouse gases in metric tonnes and of their global warming potential.

Serviceability

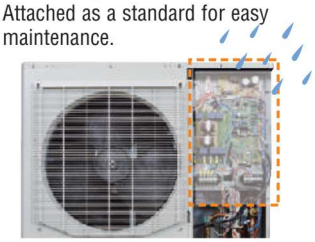
Improved freedom of piping layout



Hole size became 120% bigger.

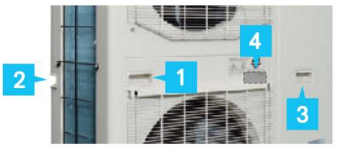
A transparent rain cover

Attached as a standard for easy maintenance.



Wire insertion holes for fall prevention

Four handles



Located at the same level for easy transport and transfer.

Fixing screws to service panel

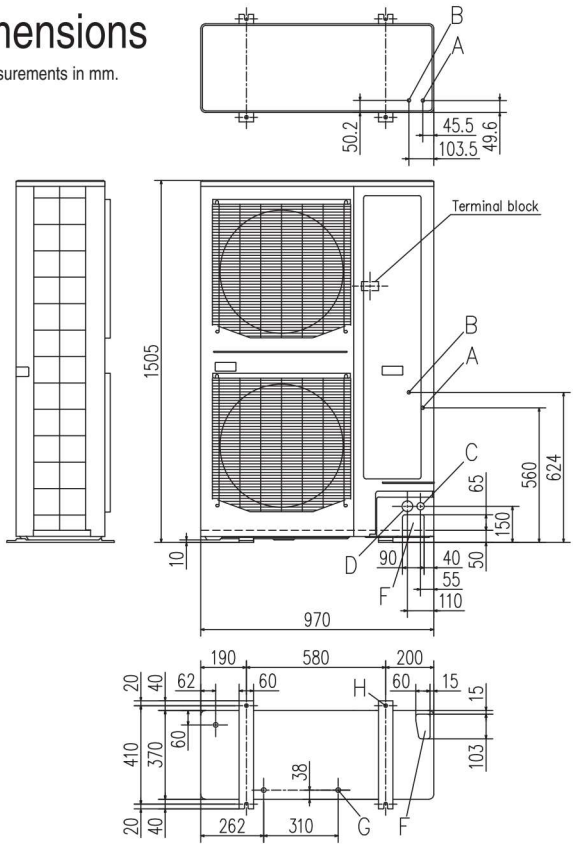
Decreased number of screws from 5 to 2, installation & service speed is improved.

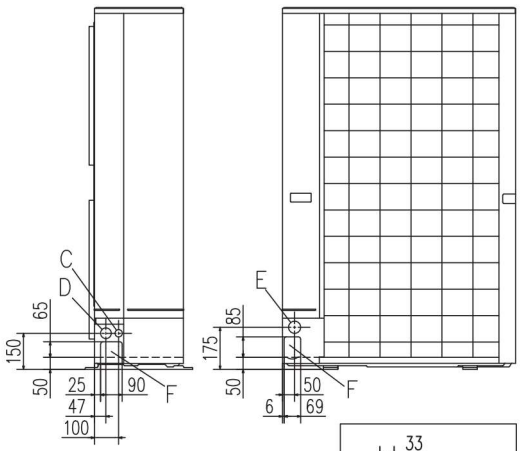
Refrigerant piping

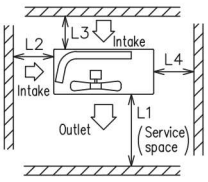
Please refer to page 67.

Dimensions

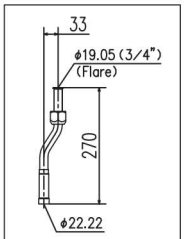
All measurements in mm.







Minimum installation space



Accessory pipe
(Used only by FDC280KXZPE1)

	I	II	III
L_1	Open	Open	500
L_2	300	5	Open
L_3	150	300	150
L_4	250 (5)*1	250 (5)*1	250 (5)*1

Notes:
*1 At the time of the installation at ( ) dimension, Secure space of 250mm in lateral (L4) by unit movement at the time of the exchange work of the compressor.

Mark	Content	
A	Service valve connection of the attached connecting pipe (gas side)	ø19.05 (3/4") (Flare)
B	Service valve connection (liquid side)	ø9.52 (3/8") (Flare)
C	Cable draw-out hole (front · side)	ø30 x 2places
D	Cable draw-out hole (front · side)	ø45 x 2places
E	Cable draw-out hole (back)	ø50
F	Pipe/cable draw-out hole	4places
G	Drain discharge hole	ø20 x 3places
H	Anchor bolt hole	M10 x 4places

Notes:
(1) It must not be surrounded by walls on the four sides.
(2) The unit must be fixed with anchor bolts.
An anchor bolt must not protrude more than 15mm.
(3) Where the unit is subject to strong winds, lay it in such a direction that the blower outlet faces perpendicularly to the dominant wind direction.
(4) Leave 1m or more space above the unit.
(5) A wall in front of the blower outlet must not exceed the units height.
(6) The model name label is attached on the lower right corner of the front panel.
(7) Connect the Service valve with local pipe by using the pipe of the attachment.
(Gas side only) (Accessory pipe is used only by FDC280KXZPE1)
(8) Regarding attaching the pipe of accessories, refer to an attached installation manual.