



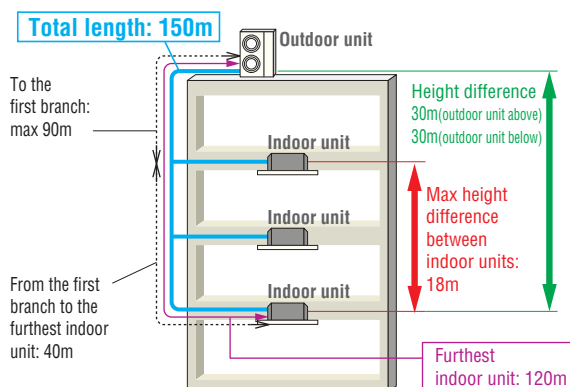
KXZ Lite Heat pump systems

8, 10HP (22.4kW - 28.0kW)

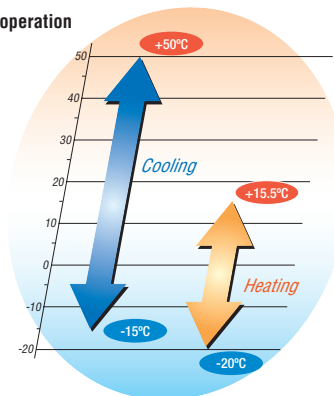
Model No.	Nominal Cooling Capacity
FDC224KXZPE1	22.4kW
FDC280KXZPE1	28.0kW



- Connect up to 8 indoor units/up to 120% capacity.
- High efficiency with COP (in cooling) up to 4.0.
- 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

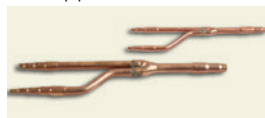
Item	Model	FDC224KXZPE1	FDC280KXZPE1
Nominal horse power		8HP	10HP
Power source		3 Phase 380-415V, 50Hz	
Starting current	A	5	
Max current	A	21	22
Nominal capacity	Cooling	22.4	28.0
	Heating	22.4	28.0
Electrical characteristics	Power consumption	Cooling	5.6
		Heating	4.8
Exterior dimensions	HxWxD	1505x970x370	
Net weight	kg	165	
Sound pressure level	Cooling/Heating	59/60	60/63
Refrigerant	Type / GWP	R410A / 2088	
	Charge	kg/TCO ₂ Eq	
Refrigerant piping size	Liquid line	ø9.52(3/8")	
	Gas line	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). 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. Piping length is 7.5m.
 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 CO₂ 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.

Refrigerant piping

Outdoor unit (HP)		8	10
Gas pipe	Furthest indoor unit =<90m	ø19.05	ø22.22
Liquid pipe		ø9.52	
Gas pipe	90m	ø22.22	ø25.4/ø28.58
Liquid pipe	=<Furthest indoor unit	ø9.52	

Branch pipes



DIS-22-1G
DIS-180-1G

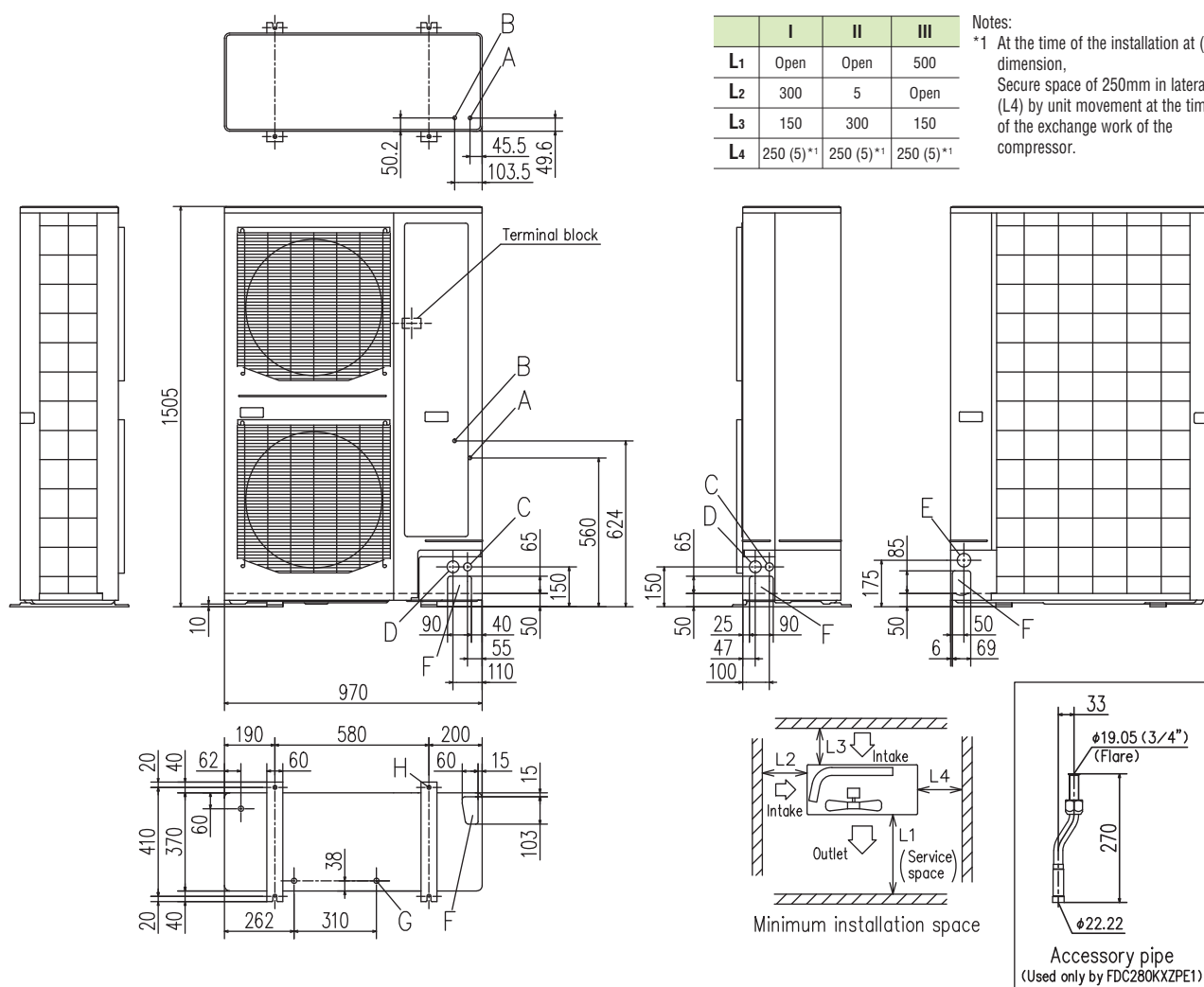
Header pipe



HEAD4-22-1G
HEAD6-180-1G

Dimensions

All measurements in mm.



	I	II	III
L1	Open	Open	500
L2	300	5	Open
L3	150	300	150
L4	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 × 2places
D	Cable draw-out hole (front · side)	ø45 × 2places
E	Cable draw-out hole (back)	ø50
F	Pipe/cable draw-out hole	4places
G	Drain discharge hole	ø20 × 3places
H	Anchor bolt hole	M10 × 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.