

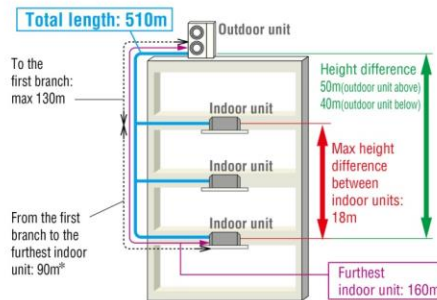


Micro model Heat pump systems

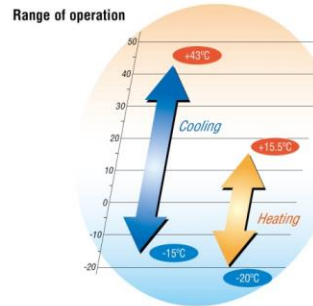
8, 10, 12HP (22.4kW~33.5kW)

Model No.	Nominal Cooling Capacity
FDC224KXE6G	22.4kW
FDC280KXE6G	28.0kW
FDC335KXE6G	33.5kW

- Connect up to 24 indoor units/up to 150% capacity.
- High efficiency with COP (in cooling) up to 4.0.
- These units employ DC inverter compressors ONLY.
- Industry leading total piping length up to 510m and a maximum pipe run of 160m.



* The difference between the longest and the shortest indoor unit piping from the first branch must be within 40m.



Specifications

Item	Model	FDC224KXE6G	FDC280KXE6G	FDC335KXE6G
Nominal horse power		8HP	10HP	12HP
Power source		3 Phase 380-415V, 50Hz		
Starting current	A	5		
Max current	A	20		
Nominal capacity	Cooling	22.4	28.0	33.5
	Heating	25.0	31.5	37.5
Electrical characteristics	Power consumption	5.60	8.09	9.82
	Heating	6.03	8.21	10.12
Exterior dimensions	HxWxD	mm 1675x1080x480		
Net weight	kg	221		
Sound pressure level	Cooling/Heating	58/58	59/60	61/61
Refrigerant	Type / GWP	R410A / 2088		
	Charge	kg/TCO ₂ Eq 11.5 / 24.012		
Refrigerant piping size	Liquid line	mm(in) ø9.52(3/8")		
	Gas line	ø19.05(3/4")	ø22.22(7/8")	ø25.4(1") [ø22.22(7/8")]
Capacity connection	%	50-150		
Number of connectable indoor units		22	24	24

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.
 4. [] : Pipe sizes applicable to European installations are shown in parentheses.

Refrigerant piping

Outdoor unit (HP)		8	10	12
Gas pipe	Furthest indoor unit =<90m	ø19.05	ø22.22	ø25.4(ø22.22)
Liquid pipe		ø9.52 ø12.7		
Gas pipe	90m	ø22.22	ø25.4(ø22.22)	
Liquid pipe	=<Furthest indoor unit	ø12.7		

Branch pipes



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



DIS-371-1G

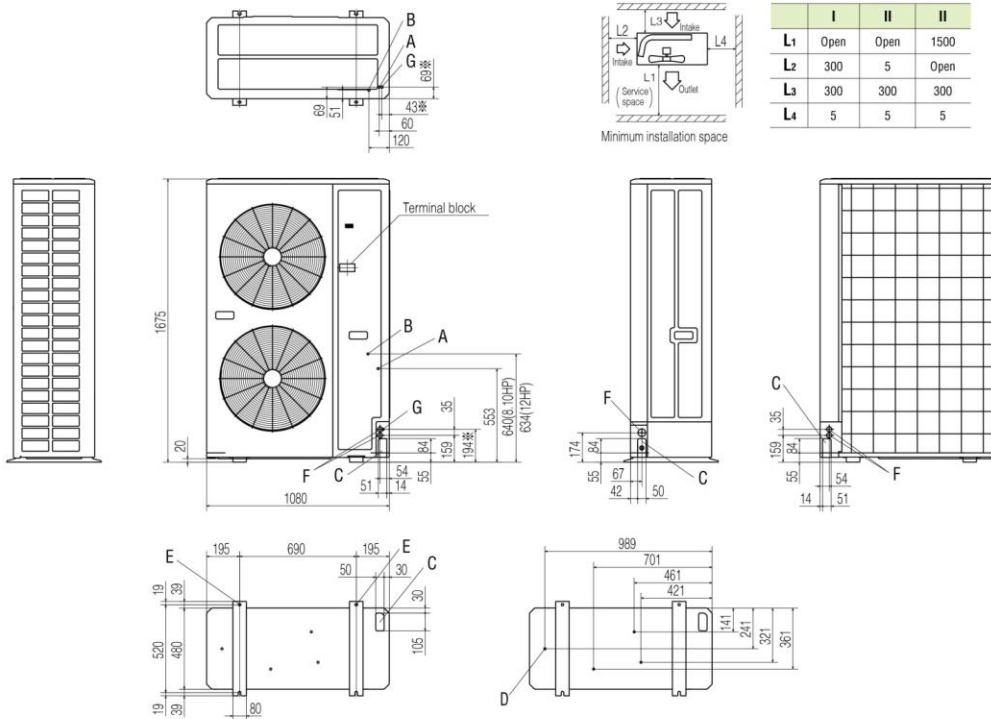
Header pipe



HEAD4-22-1G
HEAD6-180-1G
HEAD8-371-2

Dimensions

All measurements in mm.



Mark	Content	224	280	335
A	Service valve connection of the attached connecting pipe (gas side)	ø19.05 (3/4") (Flare)	ø19.05 (3/4") (Flare)	ø19.05 (3/4") (Flare)
B	Service valve connection (liquid side)	ø9.52 (3/8") (Flare)	ø9.52 (3/8") (Flare)	ø12.7 (1/2") (Flare)
C	Pipe/cable draw-out hole	4places	4places	4places
D	Drain discharge hole	ø20 × 4places	ø20 × 4places	ø20 × 4places
E	Anchor bolt hole	M10 × 4places	M10 × 4places	M10 × 4places
F	Cable draw-out hole	ø30 × 2places (front) ø45 (side) ø30 × 2places (back)	ø30 × 2places (front) ø45 (side) ø30 × 2places (back)	ø30 × 2places (front) ø45 (side) ø30 × 2places (back)
G	Connecting position of the local pipe. (gas side)	ø19.05 (3/4") (Brazing)	ø22.22 (7/8") (Brazing)	ø25.4 (1") (Brazing)

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, the blower outlet should face perpendicularly to the dominant wind direction.
- (4) Leave a 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.
- (7) Connect the Service valve with local pipe by using the pipe of the attachment.(Gas side only)
- (8) Mark ⚡ shows the connecting position of the local pipe.(Gas side only)