



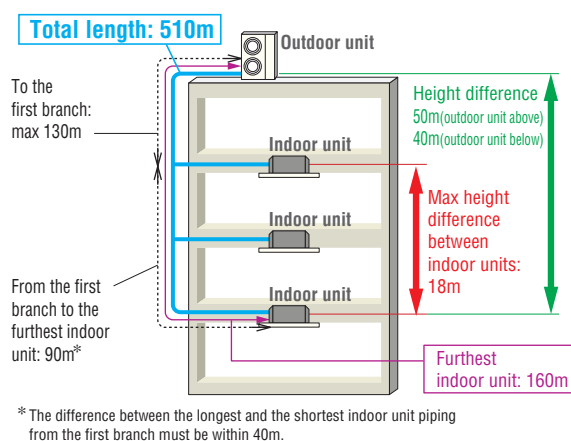
Micro model Heat pump systems

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

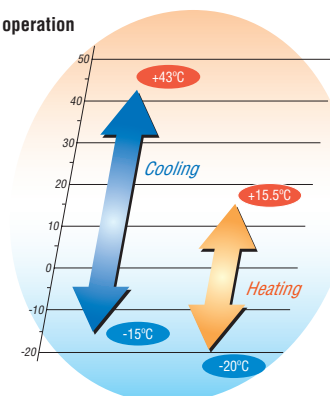


Model No.	Nominal Cooling Capacity
FDC224KXE6	22.4kW
FDC280KXE6	28.0kW
FDC335KXE6	33.5kW

- 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.



Range of operation



Specifications

Item			Model	FDC224KXE6	FDC280KXE6	FDC335KXE6
Nominal horse power				8HP	10HP	12HP
Power source				3 Phase 380-415V, 50Hz		
Starting current			A	5		
Max current			A	20		23
Nominal capacity	Cooling		kW	22.4	28.0	33.5
	Heating			25.0	31.5	37.5
Electrical characteristics	Power consumption	Cooling Heating	kW	5.60	8.09	9.82
				6.03	8.21	10.12
Exterior dimensions	HxWxD		mm	1675x1080x480		
Net weight			kg	221		224
Sound pressure level	Cooling/Heating		dB(A)	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")		ø12.7(1/2")
	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

- 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.
- Sound pressure level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.
- '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.
- [] : 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

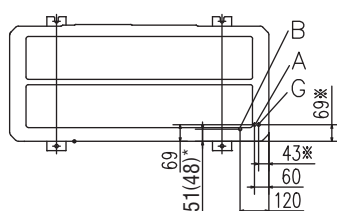
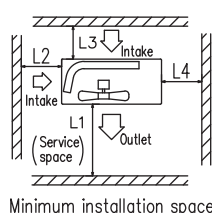
Header pipe



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

Dimensions

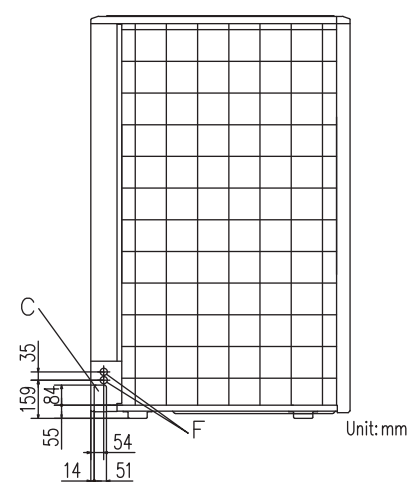
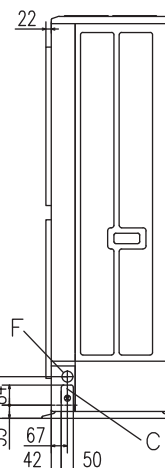
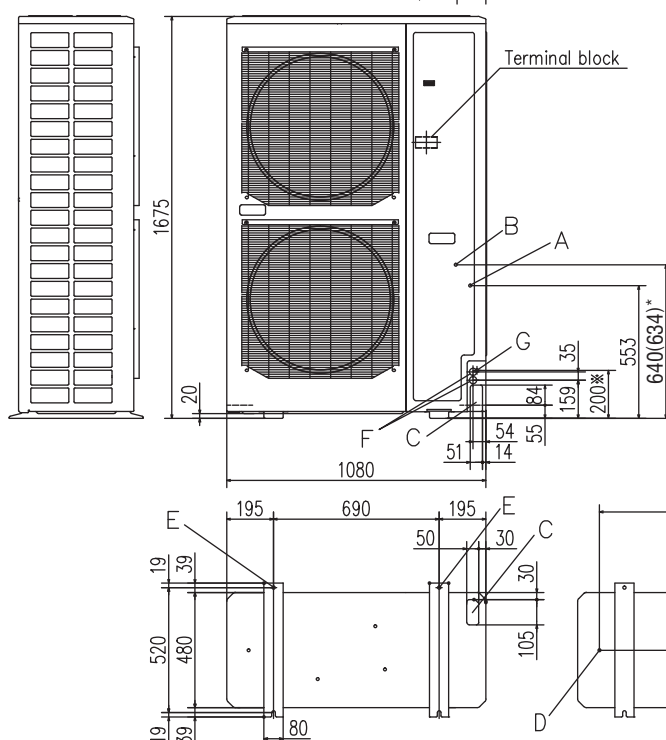
All measurements in mm.



	I	II	III
L1	Open	Open	1500(500)*1
L2	300	5	Open
L3	300	300	300
L4	250(5)*2	250(5)*2	250(5)*2

Notes:

- *1 Figure in () shows the value applicable when the flex flow adaptor is installed.
- *2 Under the setting condition as specified in (), it is necessary to secure 250 mm for the dimension L4 when replacing the compressor. Establish this for example by moving the unit during the work.



*The value of 335 model in ()

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")(Brazeing)	ø22.22 (7/8")(Brazeing)	ø25.4 (1")(Brazeing)

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)