



# Outdoor units

## *Micro* model Heat pump systems

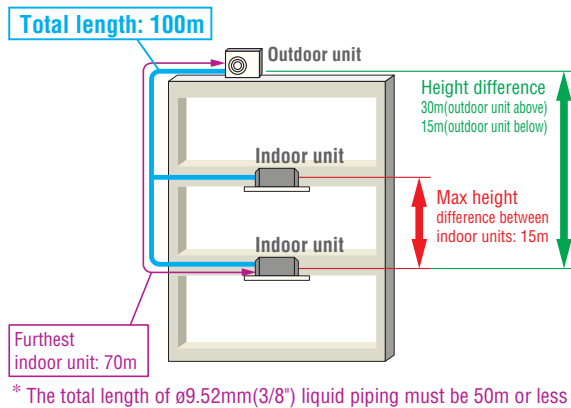
### 4, 5, 6HP (11.2kW~15.5kW)

Model No.	Nominal Cooling Capacity
FDC112KXEN6	11.2kW (220V)
FDC140KXEN6	14.0kW (220V)
FDC155KXEN6	15.5kW (220V)
FDC112KXES6	11.2kW (380V)
FDC140KXES6	14.0kW (380V)
FDC155KXES6	15.5kW (380V)

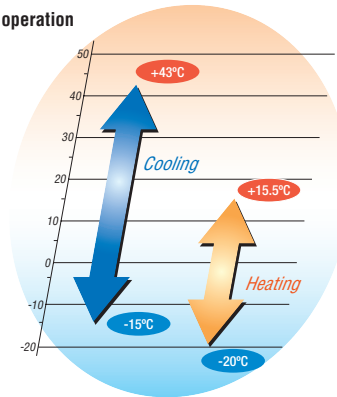
- Connect up to 8 indoor units/up to 150% capacity.
- High efficiency with COP (in cooling) up to 4.0.
- KX6 employs DC inverter compressors ONLY.
- Industry leading total piping length up to 100m and a maximum pipe run of 70m.



Note: FDUT15KXE6F-E, FDC15KXE1 and FDK15KXE1 can not be connected to the above systems.



Range of operation



## Specifications

Item	Model	FDC112KXEN6	FDC140KXEN6	FDC155KXEN6	FDC112KXES6	FDC140KXES6	FDC155KXES6
Nominal horse power		4HP	5HP	6HP	4HP	5HP	6HP
Power source		1 Phase 220-240V, 50Hz			3 Phase 380-415V, 50Hz		
Starting current	A				5		
Max current	A	23			13.5		
Nominal capacity	Cooling	11.2	14.0	15.5	11.2	14.0	15.5
	Heating	12.5	16.0	16.3	12.5	16.0	16.3
Electrical characteristics	Power consumption	Cooling	2.80	4.17	4.71	2.80	4.17
		Heating	2.89	4.31	4.38	2.89	4.31
Exterior dimensions	HxWxD	mm 845x970x370					
Net weight	kg	85			87		
Sound pressure level	Cooling/Heating	52/54	53/57	53/57	52/54	53/57	53/57
Refrigerant	Type / GWP	R410A / 2088					
	Charge	kg/TCO <sub>2</sub> Eq 5.0 / 10.44					
Refrigerant piping size	Liquid line	mm(in) ø9.52(3/8")					
	Gas line	mm(in) ø15.88(5/8")					
Capacity connection	%	80~150					
Number of connectable indoor units		6	8	8	6	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 CO<sub>2</sub> 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)		4	5	6
Gas pipe	Furthest indoor unit =<70m	ø15.88		
Liquid pipe		ø9.52		

Branch pipes



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

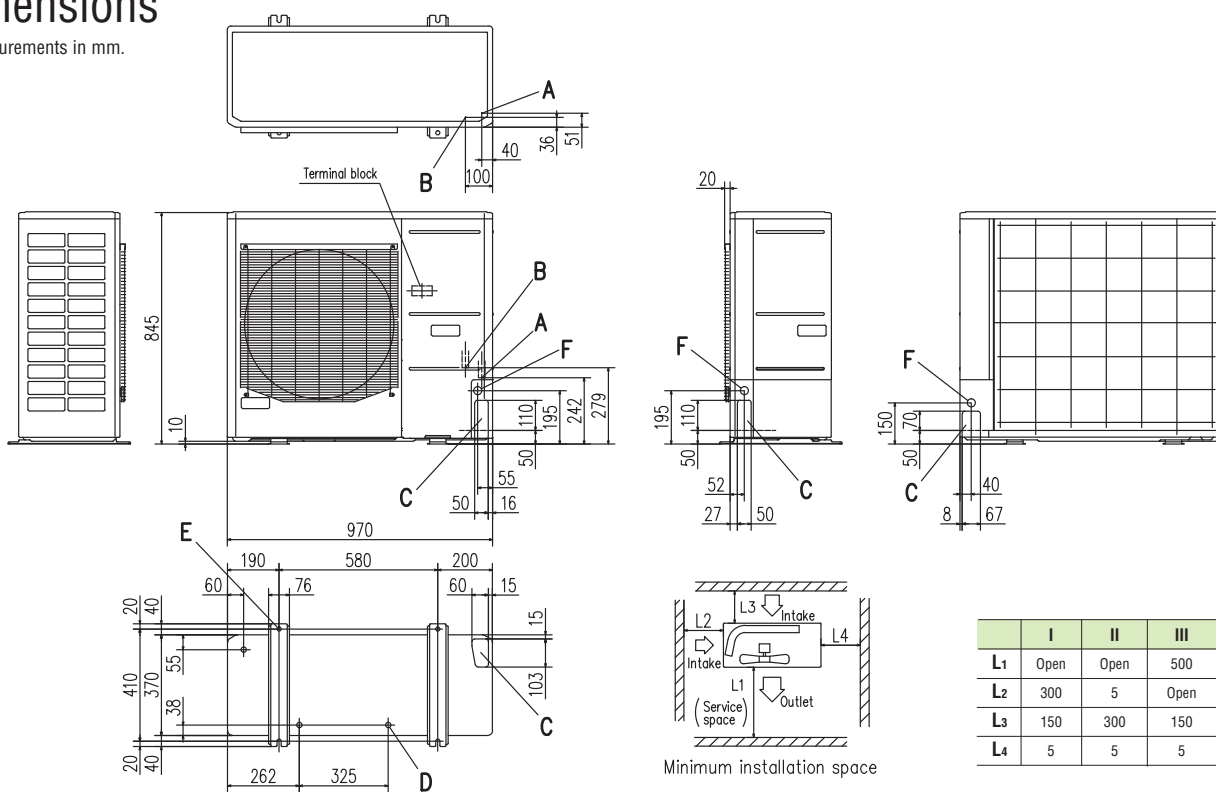
Header pipe



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	5	5	5

Mark	Content	
A	Service valve connection (gas side)	ø15.88 (5/8") (Flare)
B	Service valve connection (liquid side)	ø9.52 (3/8") (Flare)
C	Pipe/cable draw-out hole	
D	Drain discharge hole	ø20 x 3 places
E	Anchor bolt hole	M10 x 4 places
F	Cable draw-out hole	ø30 x 3 places

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.

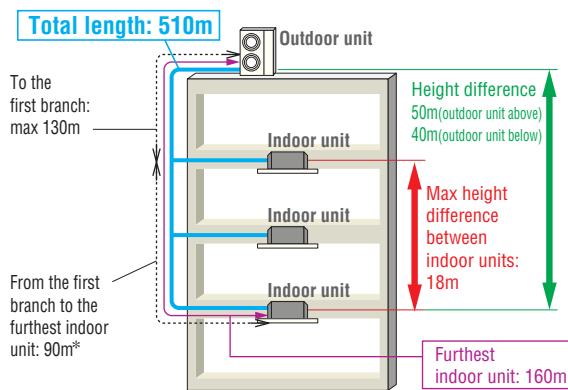


# Micro model Heat pump systems

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

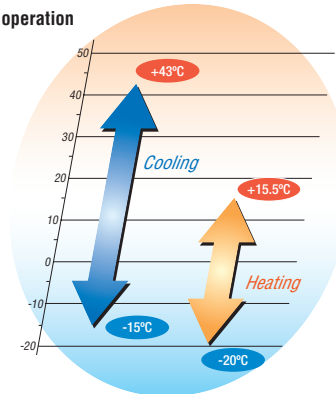
Model No.	Nominal Cooling Capacity
FDC224KXE6G	22.4kW
FDC280KXE6G	28.0kW
FDC335KXE6G	33.5kW

- 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.

Range of operation



## Specifications

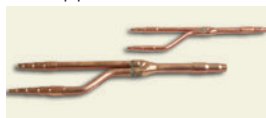
Item	Model	FDC224KXE6G	FDC280KXE6G	FDC335KXE6G
Nominal horse power		8HP	10HP	12HP
Power source		3 Phase 380-415V, 50Hz		
Starting current	A	5		
Max current	A	20		
Nominal capacity	Cooling	22.4	28.0	33.5
	Heating	25.0	31.5	37.5
Electrical characteristics	Power consumption	Cooling	5.60	8.09
		Heating	6.03	8.21
Exterior dimensions	HxWxD	1675x1080x480		
Net weight	kg	221		
Sound pressure level	Cooling/Heating	58/58	59/60	61/61
Refrigerant	Type / GWP	R410A / 2088		
	Charge	kg/TCO <sub>2</sub> Eq 11.5 / 24.012		
Refrigerant piping size	Liquid line	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 CO<sub>2</sub> 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

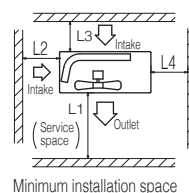
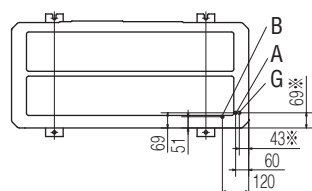
Header pipe



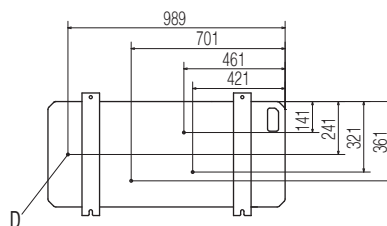
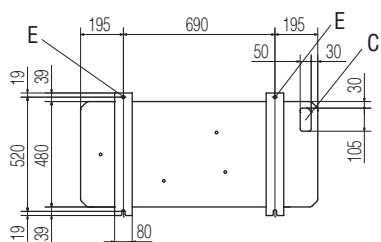
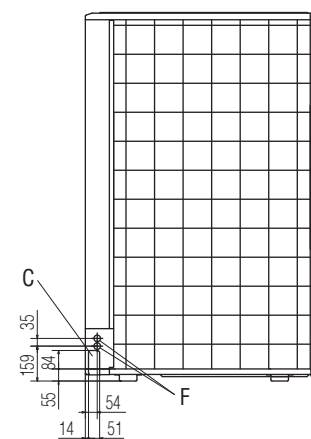
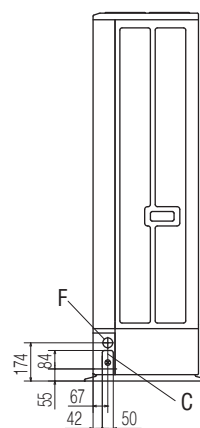
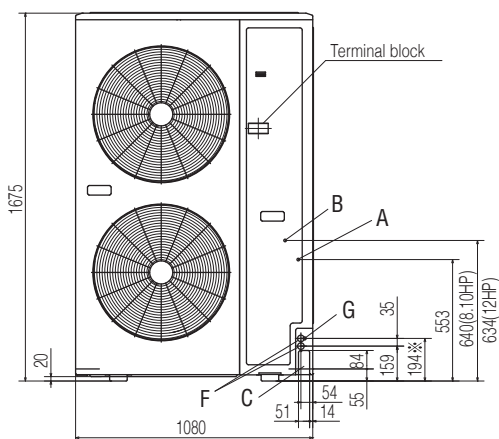
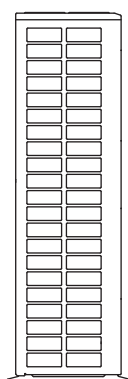
HEAD4-22-1G  
HEAD6-180-1G  
HEAD8-371-2

## Dimensions

All measurements in mm.



	I	II	II
L1	Open	Open	1500
L2	300	5	Open
L3	300	300	300
L4	5	5	5



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)