

KXZ2 Heat pump systems 10, 12HP (28.0kW, 33.5kW)

Model No. **Nominal Cooling Capacity**

FDC280KXZA2 28.0kW FDC335KXZA2 33.5kW



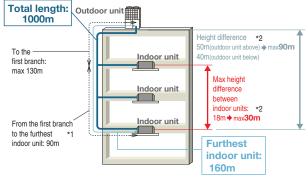
• The new KXZ2 series has a layered design and a refined new form.

- Connect up to 29 indoor units/up to 130% capacity.
- High efficiency with EER up to 3.86.
- New Heating solution Continuous Heating Capacity Control (CHCC).





Uniform footprint of models allows continuous side-by-side installation



- *1 The difference between the longest and the shortest indoor unit piping from the first branch must be within 40m. (MAX85m)
- *2 It is necessary to change the setting corresponding to each height difference in installation.
 The range of use is also defferent.

Range of operation Cooling

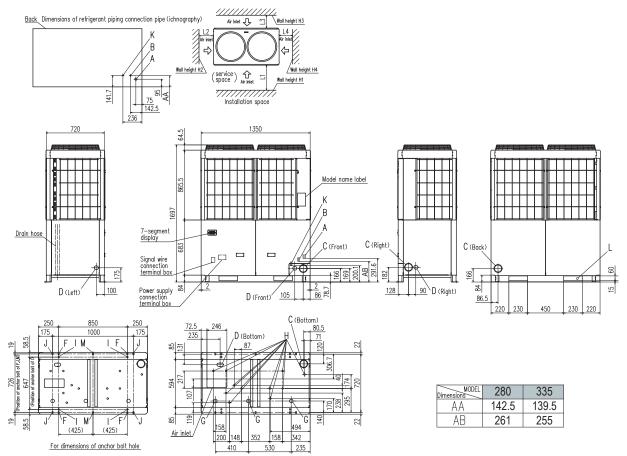
Specifications

Item			Model	FDC280KXZA2	FDC335KXZA2	
Nominal horse power				10HP	12HP	
Power source				3 Phase 380-415V, 50Hz		
Starting current			Α	5	5	
Max current			А	20	.1	
Naminal against	Cooling		14/4/	28.0	33.5	
Nominal capacity	Heating		kW	31.5	37.5	
Electrical	Power	Cooling	kW	7.25	8.98	
characteristics	consumption	Heating	KVV	7.41	9.03	
Exterior dimensions	HxWxD		mm	1697x1350x720		
Net weight			kg	284		
Sound pressure level	Cooling/Heatin	g	dB(A)	56/57	63/62	
Refrigerant	Type / GWP			R410A / 2088		
nelligeralli	Charge		kg/TCO2Eq	11.0 / 22.968		
Refrigerant piping	Liquid line		mm/in)	ø9.52(3/8")	ø12.7(1/2")	
size	Gas line		mm(in)	ø22.22(7/8")	ø25.4(1") [ø22.22(7/8")]	
Capacity connection %			%	50~200		
Number of connectable	e indoor units			24	29	

^{1.} The data are measured under the following conditions(ISO-T1, H1). 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. 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- 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.

Dimensions

All measurements in mm.

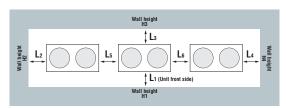


Mark	Content	280	335		
Α	Refrigerant gas piping connection pipe	ø22.22(Brazing)	ø25.4(Brazing)		
В	Refrigerant liquid piping connection pipe	ø9.52(Flare)	ø12.7(Flare)		
C	Refrigerant piping exit hole	ø88(or ø100)			
D	Power supply entry hole	ø50 (right · left · front), lo	ong hole 40 x 80 (bottom)		
F	Anchor bolt hole	M10 x 4	4 places		
G	Drain waste water hose hole	ø45 x 3	3 places		
Н	Drain hole	ø20 x 1	1 places		
K	Refrigerant oil equalization piping connection pipe	ø9.52	(Flare)		
L	Carrying in or hole for hanging	230	x 60		

Installation example						
Dimensions	1	2				
L ₁	500	Open				
L ₂	10(30)	10(30)				
L ₃	100	100				
L ₄	10(30)	Open				
H ₁	1500	Open				
H ₂	No limit	No limit				
Нз	1000	No limit				
H4	No limit	Open				
\ .ln oooo it i	a the promised inc	tallation location				

0 :In case it is the promised installation location that the outdoor unit is used on conditions with the ambient temperature of 43°C or more.

When more than one unit is installed



I	nstallation exa	ımple				
Dimensions	1	2				
L ₁	500	Open				
L ₂	10(30)	200				
L ₃	100	300				
L ₄	10(30)	Open				
L ₅	10(30)	400				
L ₆	10(30)	400				
H ₁	1500	Open				
H ₂	No limit	No limit				
Нз	1000	No limit				
H4	No limit	Open				



KXZ2 Heat pump systems 14 ~ 20HP (40.0kW~56.0kW)

Model No. **Nominal Cooling Capacity**

FDC400KXZA2 40.0kW FDC450KXZA2 45.0kW FDC475KXZA2 47.5kW FDC500KXZA2 50.0kW FDC560KXZA2 56.0kW

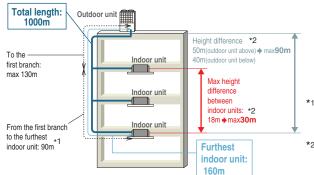
- The new KXZ2 series has a layered design and a refined new form.
- Connect up to 48 indoor units/up to 130% capacity.
- High efficiency with EER up to 3.64.
- New Heating solution Continuous Heating Capacity Control (CHCC).





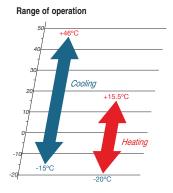


Uniform footprint of all models allows continuous side-by-side installation



*1 The difference between the longest and the shortest indoor unit piping from the first branch must be within 40m. (MAX85m)

*2 It is necessary to change the setting corresponding to each height difference in installation The range of use is also defferent.

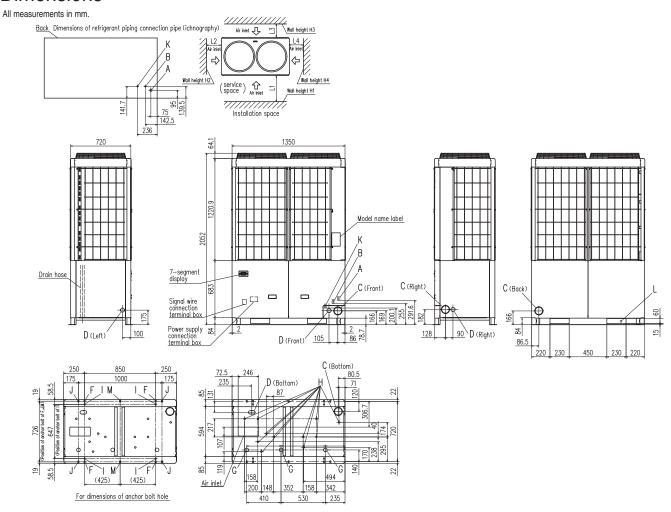


Specifications

Item			Model	FDC400KXZA2	FDC450KXZA2	FDC475KXZA2	FDC500KXZA2	FDC560KXZA2	
Nominal horse power				14HP	16HP	17HP	18HP	20HP	
Power source					3	Phase 380-415V, 50I	Hz		
Starting current			Α	Ę	5		8		
Max current			Α	32	2.0		40.2		
Naminal canacity	Cooling		kW	40.0	45.0	47.5	50.0	56.0	
Nominal capacity	Heating		KVV	45.0	50.0	53.0	56.0	63.0	
Electrical	Power	Cooling	kW	10.98	13.98	13.97	14.01	17.50	
characteristics	consumption	Heating	KVV	10.23	12.50	12.99	13.56	16.15	
Exterior dimensions	HxWxD		mm	2052x1350x720					
Net weight			kg	32	328 374				
Sound pressure level	Cooling/Heatin	g	dB(A)	60/62	61/62	61/61	61/62	63/64	
Defriesrant	Type / GWP			R410A / 2088					
Refrigerant	Charge		kg/TCO2Eq	11.5 / 24.012					
Defries rent pining	Liquid line					ø12.7(1/2")			
Refrigerant piping size	Gas line		mm(in)	ø25.4(1") [ø28.58(1 1/8")]					
Capacity connection %				50~130					
Number of connectable	le indoor units			34	39	41	43	48	

^{1.} The data are measured under the following conditions(ISO-T1, H1). 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. 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- 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.

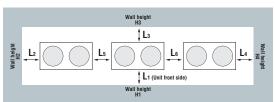
Dimensions



Mark	Content	400	450, 475, 500, 560		
Α	Refrigerant gas piping connection pipe	ø25.4(Brazing)	ø28.58(Brazing)		
В	Refrigerant liquid piping connection pipe	ø12.7	(Flare)		
C	Refrigerant piping exit hole	ø88(or ø100)			
D	Power supply entry hole	ø50 (right · left · front), lo	ong hole 40 x 80 (bottom)		
F	Anchor bolt hole	M10 x 4	l places		
G	Drain waste water hose hole	ø45 x 3	places		
Н	Drain hole	ø20 x 1	1 places		
K	Refrigerant oil equalization piping connection pipe	ø9.52	(Flare)		
L	Carrying in or hole for hanging	230	x 60		

Installation example						
Dimensions	1	2				
L ₁	500	Open				
L ₂	10(30)	10(30)				
L ₃	100	100				
L ₄	10(30)	Open				
H ₁	1500	Open				
H ₂	No limit	No limit				
Нз	1000	No limit				
H4	No limit	Open				

0 :In case it is the promised installation location that the outdoor unit is used on conditions with the ambient temperature of 43°C or more.



li	nstallation exa	mple				
Dimensions	1	2				
L ₁	500	Open				
L ₂	10(30)	200				
L ₃	100	300				
L ₄	10(30)	Open				
L ₅	10(30)	400				
L ₆	10(30)	400				
H ₁	1500	Open				
H ₂	No limit	No limit				
Нз	1000	No limit				
H4	No limit	Open				



KXZ2 Heat pump systems 22, 24HP (61.5kW, 67.0kW)

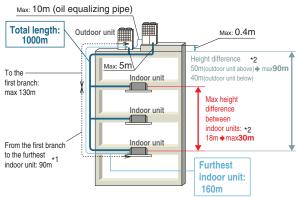


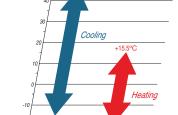
Nominal Cooling Capacity Model No.

FDC615KXZA2 61.5kW FDC670KXZA2 67.0kW

- The new KXZ2 series has a layered design and a refined new form.
- Connect up to 58 indoor units/up to 130% capacity.
- High efficiency with EER up to 3.78.
- New Heating solution Continuous Heating Capacity Control (CHCC).







Range of operation

- *1 The difference between the longest and the shortest indoor unit piping
- from the first branch must be within 40m. (MAX85m)

 *2 It is necessary to change the setting corresponding to each height difference in installation.

Specifications

Exterior dimension: Please refer to page 45.

Item			Model	FDC615KXZA2	FDC670KXZA2			
Combination (FDC)				280KXZA2	335KXZA2			
				335KXZA2	335KXZA2			
Nominal horse power				22HP	24HP			
Power source				3 Phase 380	-415V, 50Hz			
Starting current			Α	1	0			
Max current			Α	40	40.2			
Naminal apparitu	Nominal capacity Cooling Heating		kW	61.5	67.0			
Nominal capacity			KVV	69.0	75.0			
Electrical	Power	Cooling	kW	16.24	17.96			
characteristics	consumption	Heating		16.44	18.06			
Exterior dimensions	HxWxD		mm	1697x2700x720				
Net weight			kg	56	37			
Refrigerant charge	R410A		kg	11.0	0x2			
Refrigerant piping	Liquid line		(:)	ø12.7	(1/2")			
size	Gas line		mm(in)	ø28.58(1 1/8")				
Capacity connection			%	50~130				
Number of connectab	le indoor units			53	58			

^{1.} The data are measured under the following conditions(ISO-T1,H1). 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. 2. Sound pressure level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.

KXZ2 Heat pump systems 26 ~ 40HP (73.5kW~112.0kW)

Nominal Cooling Capacity Model No. FDC735KXZA2 73.5kW FDC800KXZA2 80.0kW FDC850KXZA2 85.0kW FDC900KXZA2 90.0kW FDC950KXZA2 95.0kW 100.0kW FDC1000KXZA2 106.0kW FDC1060KXZA2 112.0kW FDC1120KXZA2



• The new KXZ2 series has a layered design and a refined new form.

- Connect up to 80 indoor units/up to 130% capacity.
- High efficiency with EER up to 3.68.
- New Heating solution Continuous Heating Capacity Control (CHCC).
- Industry leading total piping length up to 1000m and a maximum height difference between indoor units has been increased to maximum of 30m.
- Wide range of operation.







Specifications

Exterior dimension: Please refer to page 45, 47.

- p	Exterior difficulties refer to page 43, 47.										
Item			Model	FDC735KXZA2	FDC800KXZA2	FDC850KXZA2	FDC900KXZA2	FDC950KXZA2	FDC1000KXZA2	FDC1060KXZA2	FDC1120KXZA2
Combination (FDC)			335KXZA2	400KXZA2	400KXZA2	450KXZA2	475KXZA2	500KXZA2	500KXZA2	560KXZA2	
Combination (FDC)				400KXZA2	400KXZA2	450KXZA2	450KXZA2	475KXZA2	500KXZA2	560KXZA2	560KXZA2
Nominal horse power				26HP	28HP	30HP	32HP	34HP	36HP	38HP	40HP
Power source							3 Phase 380	-415V, 50Hz			
Starting current			А		1	0			1	6	
Max current			Α	52.1	64.0				80).4	
Nominal capacity	Cooling		kW	73.5	80.0	85.0	90.0	95.0	100.0	106.0	112.0
Nominal capacity	Heating		KVV	82.5	90.0	95.0	100.0	106.0	112.0	119.0	126.0
Electrical	Power	Cooling	kW	19.96	21.96	24.96	27.95	27.94	28.02	31.51	35.00
characteristics	consumption	Heating		19.26	20.45	22.73	25.00	25.98	27.12	29.71	32.31
Exterior dimensions	HxWxD		mm				2052x27	700x720			
Net weight			kg	611		655			74	747	
Refrigerant charge	R410A		kg	11.0+11.5				11.5x2			
Refrigerant piping	Liquid line		mama(im)				ø15.88(5/8")			ø19.0	5(3/4")
size	Gas line		mm(in)		ø31.75(1	1/4") [ø34.9	2(1 3/8")]	ø38.1(1 1/2") [ø34.92(1 3/8")]			2(1 3/8")]
Capacity connection %				50~130							
Number of connectab	ole indoor units			63	69 73 78 80						

^{1.}The data are measured under the following conditions(ISO-T1,H1). 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. 2.Sound pressure level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.

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



KXZ2 Heat pump systems 42 ~ 48HP (120.kW~135.0kW)



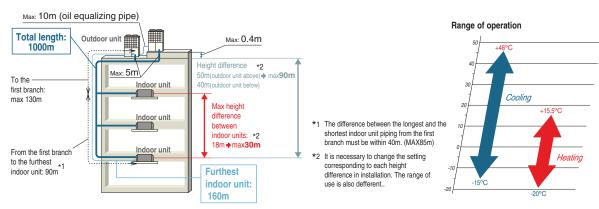
Model No. **Nominal Cooling Capacity**

FDC1200KXZA2 120.0kW FDC1250KXZA2 125.0kW FDC1300KXZA2 130.0kW FDC1350KXZA2 135.0kW



- The new KXZ2 series has a layered design and a refined new form.
- Connect up to 80 indoor units/up to 130% capacity.
- High efficiency with EER up to 3.64.
- New Heating solution Continuous Heating Capacity Control (CHCC).





Specifications

Exterior dimension: Please refer to page 47.

exterior difficulties on . Please feller to page 47.								
Item			Model	FDC1200KXZA2	FDC1250KXZA2	FDC1300KXZA2	FDC1350KXZA2	
				400KXZA2	400KXZA2	400KXZA2	450KXZA2	
Combination (FDC)				400KXZA2	400KXZA2	450KXZA2	450KXZA2	
				400KXZA2	450KXZA2	450KXZA2	450KXZA2	
Nominal horse power				42HP	44HP	46HP	48HP	
Power source				3 Phase 380-415V, 50Hz				
Starting current			Α	15				
Max current			Α	96.0				
Cooling			kW	120.0	125.0	130.0	135.0	
Nominal capacity	Heating		KVV	135.0	140.0	145.0	150.0	
Electrical	Power	Cooling	kW	32.94	35.94	38.93	41.93	
characteristics	consumption	Heating		30.68	32.95	35.23	37.50	
Exterior dimensions	HxWxD		mm		2052x40	050x720		
Net weight			kg		98	32		
Refrigerant charge	R410A		kg		11.5	5x3		
Refrigerant piping	Liquid line		(:-)		ø19.0	5(3/4")		
size	Gas line		mm(in)	ø38.1(1 1/2") [ø34.92(1 3/8")]				
Capacity connection			%	50~130				
Number of connectab	le indoor units				8	0		

^{1.} The data are measured under the following conditions(ISO-T1,H1). 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. 2. Sound pressure level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.

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

KXZ2 Heat pump systems 50 ~ 60HP (142.5kW~168.0kW)



Model No. **Nominal Cooling Capacity**

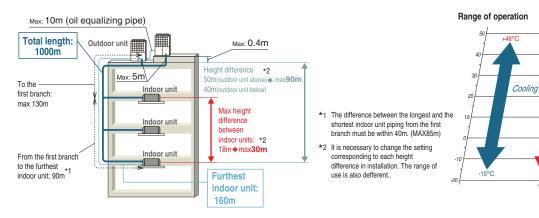
FDC1425KXZA2 142.5kW FDC1450KXZA2 145.0kW FDC1500KXZA2 150.0kW FDC1560KXZA2 156.0kW



FDC1620KXZA2 162.0kW FDC1680KXZA2 168.0kW

- The new KXZ2 series has a layered design and a refined new form.
- Connect up to 80 indoor units/up to 130% capacity.
- High efficiency with EER up to 3.57.
- New Heating solution Continuous Heating Capacity Control (CHCC).





Specifications

Exterior dimension: Please refer to page 47.

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Item			Model	FDC1425KXZA2	FDC1450KXZA2	FDC1500KXZA2	FDC1560KXZA2	FDC1620KXZA2	FDC1680KXZA2
Combination (FDC)				475KXZA2	475KXZA2	500KXZA2	500KXZA2	500KXZA2	560KXZA2
				475KXZA2	475KXZA2	500KXZA2	500KXZA2	560KXZA2	560KXZA2
				475KXZA2	500KXZA2	500KXZA2	560KXZA2	560KXZA2	560KXZA2
Nominal horse power				50HP	52HP	54HP	56HP	58HP	60HP
Power source				3 Phase 380-415V, 50Hz					
Starting current			А	24					
Max current			Α	120.6					
Nominal capacity	Cooling		kW	142.5	145.0	150.0	156.0	162.0	168.0
	Heating			159.0	162.0	168.0	175.0	182.0	189.0
Electrical characteristics	Power consumption	Cooling	kW	41.91	41.95	42.03	45.52	49.01	52.50
		Heating		38.97	39.54	40.68	43.27	45.87	48.46
Exterior dimensions	ons HxWxD		mm	2052x4050x720					
Net weight			kg	1120					
Refrigerant charge	R410A		kg	11.5x3					
Refrigerant piping size	Liquid line		mama/im\	ø19.05(3/4")					
	Gas line		mm(in)	ø38.1(1 1/2") [ø34.92(1 3/8")]					
Capacity connection			%	50~130					
Number of connectable indoor units				80					
				<u></u>					

^{1.} The data are measured under the following conditions(ISO-T1,H1). 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. 2. Sound pressure level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.
3. []: Pipe sizes applicable to European installations are shown in parentheses.