## 10, 12<sub>HP</sub> (28.0kw · 33.5kw)







#### Technical focus

- The KXZ2 series has a layered design and a refined new form
- High efficiency with EER up to 3.86
- VTCC: advanced variable temperature and capacity control
- Total piping length up to 1000m and a maximum height difference between indoor unit is maximum of 30m.
- Wide range of operation.



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



FDC280 · 335

Item		Model	FDC280KXZE2	FDC335KXZE2			
Nominal hors	e power		10HP	12HP			
Power source	)		3 Phase 380	)-415V, 50Hz			
Nominal	Coolin	ng kW	28.0	33.5			
capacity	Heatii	ng	31.5	37.5			
Max heating	Max heating capacity k		31.5	37.5			
Power	Coolir	ng kW	7.25	8.98			
consumption	Heatii	ng NVV	7.41	9.03			
EER			3.86	3.73			
COP			4.25	4.15			
SEER			7.30	7.54			
SCOP			4.88	4.68			
Exterior dimen	sions (HxW	(D) mm	1697x1350x720				
Net weight		kg	288				
Sound	Coolir	ng dB(A)	75	82			
power level	Heatii	ng db(A)	76	81			
Sound	Coolir	dB(A)	56	63			
pressure leve	Heatin	ng db(A)	57	62			
Starting curr	ent	А	5				
Max current		А	20	0.1			
	Type / GWP	)		/ 2088			
Refrigerant	Charge	kg	11	1.0			
	TCO <sub>2</sub> Eq		22.	968			
Refrigerant	Liquid	mm	ø9.52(3/8")	ø12.7(1/2")			
piping size	piping size Gas (in)		ø22.22(7/8")	ø25.4(1")[ø22.22(7/8")]			
Total piping length m		m	10	00			
	Outdoor operating Cooling °CDB		-15	<b>-</b> 52			
temperature ra	temperature range Heating °CWB		-20-	-15.5			
Capacity con	nection	%	50–200				
Number of co	Number of connectable indoor units		37	44			

<sup>1.</sup> 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. SEER/SCOP are based on EN14825:2016 and Commission regulation (EU) No.2016/2281. Temperature conditions for calculating SCOP are based on "Average climate".
3. Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.
4. '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.
5. Refrigerant contained in the products is a fluorinated greenhouse gas listed in Regulation (EU) No 517/2014.
6. Refrigerant piping size applicable to European installations are shown in parentheses.

# 14-20<sub>HP</sub> (40.0kW-56.0kW)







#### Technical focus

- The KXZ2 series has a layered design and a refined new form
- High efficiency with EER up to 3.64
- VTCC: advanced variable temperature and capacity control
- Total piping length up to 1000m and a maximum height difference between indoor unit is maximum of 30m.
- Wide range of operation.



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



FDC400-560

Item		Mo	odel	FDC400KXZE2	E2 FDC450KXZE2 FDC475KXZE2 FDC500KXZE2 FDC560KXZ					
Nominal hors	e power			14HP	16HP	17HP	18HP	20HP		
Power source	9					3 Phase 380-415V, 50Hz				
Nominal	Cooli	ing	kW	40.0	45.0	47.5	50.0	56.0		
capacity	Heat	ing	KVV	45.0	50.0	53.0	56.0	63.0		
Max heating	capacity		kW	45.0	50.0	53.0	56.0	63.0		
Power Cooling		kW	10.98	13.98	13.97	14.01	17.50			
consumption	Heat	ing	KVV	10.23	12.50	12.99	13.56	16.15		
EER				3.64	3.22	3.40	3.57	3.20		
COP				4.40	4.00	4.08	4.13	3.90		
SEER				7.12	7.01	6.84	7.29	6.73		
SCOP				4.87	4.36	4.45	4.58	4.30		
Exterior dimen	Exterior dimensions (HxWxD) mm					2052x1350x720				
Net weight			kg	332			378			
Sound	Cooli	ing	dB(A)	80	81	81	81	82		
power level	Heat	ing	ub(A)	82	82	81	82	83		
Sound	Cooli	ing	dB(A)	60	61	61	61	63		
pressure leve	Heat	ing	ub(A)	62	62	61	62	64		
Starting curr	ent		Α	5	5		8			
Max current			Α	32	.0		40.2			
	Type / GW	Р				R410A / 2088				
Refrigerant	Charge		kg			11.5				
	TCO <sub>2</sub> Eq					24.012				
Refrigerant	Liquid		mm			ø12.7(1/2")				
piping size	Gas		(in)	ø25.4(1")[ø28.58(1·1/8")]		ø28.58	(1·1/8")			
Total piping I	ength		m			1000				
Outdoor opera		0	°CDB			-15-52				
temperature r	ange Heat	ing °	°CWB			-20-15.5				
Capacity con	Capacity connection %		50-	200		50–160				
Number of connectable indoor units			units	53	60	50	53	59		

<sup>1.</sup> 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. SEER/SCOP are based on EN14825:2016 and Commission regulation (EU) No.2016/2281. Temperature conditions for calculating SCOP are based on "Average climate".

3. Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.

<sup>4. &#</sup>x27;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.

5. Refrigerant contained in the products is a fluorinated greenhouse gas listed in Regulation (EU) No 517/2014.

6. Refrigerant piping size applicable to European installations are shown in parentheses.

# 22-26<sub>HP</sub> (61.5kw-73.5kw)







#### Technical focus

- The KXZ2 series has a layered design and a refined new form
- High efficiency with EER up to 3.79
- VTCC: advanced variable temperature and capacity control
- Total piping length up to 1000m and a maximum height difference between indoor unit is maximum of 30m.
- Wide range of operation.





Item Mode		Model	FDC615KXZE2	FDC670KXZE2	FDC735KXZE2			
Combination (FDC)			280KXZE2	335KXZE2	335KXZE2			
			335KXZE2	335KXZE2	400KXZE2			
Nominal horse power			22HP	24HP	26HP			
Power source								
Nominal	Cooling	g kW	61.5	67.0	73.5			
<b>capacity</b> Heating		g KVV	69.0	75.0	82.5			
Power	Cooling	g kW	16.24	17.96	19.96			
consumption	Heating		16.44	18.06	19.26			
EER			3.79	3.73	3.68			
COP			4.20 4.15		4.28			
Net weight		kg	57	76	620			
Starting curr	ent	Α		10				
Max current		Α	40	52.1				
Refrigerant	Type / GWP							
ieiiiyeiaiit	Charge	kg	11.0-	11.0+11.5				
	Liquid		ø12.7	7(1/2")	ø15.88(5/8")			
Refrigerant Diping size	Gas	mm (in)	ø28.58	ø31.75(1·1/4") [ø34.92(1·3/8")]				
p.p9 0120	Oil equalizati	on		ø9.52 (3/8")				
Total piping I	ength	m		1000				
outdoor operating =				-15–52				
temperature range Heating °CW		°CWB		-20-15.5				
Capacity connection %		%		50–160				
Number of connectable indoor units		oor units	65	71	78			

<sup>1.</sup> 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.

<sup>2.</sup> Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.

<sup>3.</sup> Refrigerant piping size applicable to European installations are shown in parentheses.

# 28-40<sub>HP</sub> (80.0kw-112.0kw)







#### Technical focus

- The KXZ2 series has a layered design and a refined new form
- High efficiency with EER up to 3.64
- VTCC: advanced variable temperature and capacity control
- Total piping length up to 1000m and a maximum height difference between indoor unit is maximum of 30m.
- Wide range of operation.



Item		Mod	el	FDC800KXZE2	FDC850KXZE2	FDC900KXZE2	FDC950KXZE2	FDC1000KXZE2	FDC1060KXZE2	FDC1120KXZE2	
Combination	(EDC)			400KXZE2	400KXZE2	450KXZE2	475KXZE2	500KXZE2	500KXZE2	560KXZE2	
Combination	(ГБС)			400KXZE2	450KXZE2	450KXZE2	475KXZE2				
Nominal hors	e power			28HP	30HP	32HP	34HP	36HP 38HP 40HP			
Power source	9					3 Pl	nase 380-415V, 5	0Hz			
Nominal	Cool	ing k	۱۸/	0.08	85.0	90.0	95.0	100.0	106.0	112.0	
capacity	Heat	ing	vv	90.0	95.0	100.0	106.0	112.0	119.0	126.0	
Power	Cool	ing k	۱۸/	21.96	24.96	27.95	27.94	28.02	31.51	35.00	
consumption	Heat	ing	vv	20.45	22.73	25.00	25.98	27.12	29.71	32.31	
EER				3.64	3.41	3.22	3.40	3.57	3.36	3.20	
COP				4.40	4.18	4.00	4.08	4.13	4.01	3.90	
Net weight		k	g		664			75	56		
Starting curr	ent	A	4		10			1	6		
Max current		A	4		64.0			80	).4		
Refrigerant	Type / GW	Р					R410A / 2088				
Homgorant	Charge	k	g				11.5+11.5				
Defriverent	Liquid					ø15.88(5/8")			ø19.0	5(3/4")	
Refrigerant piping size	Gas	m (ii			ø31.75(1·1/4") [	ø34.92(1·3/8")]		ø38.1	(1·1/2") [ø34.92(1·	3/8")]	
1.13	Oil equaliza		<i>'</i>				ø9.52 (3/8")	(3/8")			
Total piping I	ength	n	n				1000				
Outdoor opera		-	DB				-15–52				
temperature r	ange Heat	ing °C\	WB				-20-15.5				
Capacity con	nection	9	6		50-	160			50–130		
Number of co	Number of connectable indoor units 80										

<sup>1.</sup> 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.

<sup>2.</sup> Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.

<sup>3.</sup> Refrigerant piping size applicable to European installations are shown in parentheses.

# 42-50 HP (120.0kw-142.5kw)







#### Technical focus

- The KXZ2 series has a layered design and a refined new form
- High efficiency with EER up to 3.64
- VTCC: advanced variable temperature and capacity control
- Total piping length up to 1000m and a maximum height difference between indoor unit is maximum of 30m.
- Wide range of operation.



Item		Mod	del	FDC1200KXZE2	FDC1250KXZE2	FDC1300KXZE2	FDC1350KXZE2	FDC1425KXZE2		
				400KXZE2	400KXZE2	400KXZE2	450KXZE2	475KXZE2		
Combination	(FDC)			400KXZE2 400KXZE2 450KXZE2		450KXZE2	475KXZE2			
				400KXZE2	400KXZE2 450KXZE2 450KXZE2 450KXZE2					
Nominal horse power				42HP	44HP	46HP	48HP	50HP		
Power source	9				;	3 Phase 380-415V, 50Hz				
Nominal Cooling			kW	120.0	125.0	130.0	135.0	142.5		
capacity	Hea	iting '	KVV	135.0	140.0	145.0	150.0	159.0		
Power	Coo	ling	kW	32.94	35.94	38.93	41.93	41.91		
consumption	Hea	ting '	NVV	30.68	32.95	35.23	37.50	38.97		
EER				3.64	3.48	3.34	3.22	3.40		
COP				4.40						
Net weight			kg		99	96		1134		
Starting curr	ent		Α	15 24						
Max current			Α	96.0 120.6						
Refrigerant	Type / GW	/P				R410A / 2088				
Henrigerant	Charge		kg	11.5x3						
Dofringrant	Liquid					ø19.05(3/4")				
Refrigerant piping size	Gas		mm (in)	ø38.1(1·1/2") [ø34.92(1·3/8")]						
J. J	Oil equaliz		` '	ø9.52 (3/8")						
Total piping length m			m	1000						
Outdoor operating Cooling °CDB				-15–52						
temperature range Heating °CWB					-20-15.5					
Capacity con	nection		%	50–130						
Number of connectable indoor units 80										

<sup>1.</sup> 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.

<sup>2.</sup> Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.

 $<sup>{\</sup>it 3.} \ {\it Refrigerant piping size applicable to European installations are shown in parentheses.}$ 

# **52-60**HP (145.0kW-168.0kW)







#### Technical focus

- The KXZ2 series has a layered design and a refined new form
- High efficiency with EER up to 3.57
- VTCC: advanced variable temperature and capacity control
- Total piping length up to 1000m and a maximum height difference between indoor unit is maximum of 30m.
- Wide range of operation.



Item		Model	FDC1450KXZE2	FDC1500KXZE2	FDC1560KXZE2	FDC1620KXZE2	FDC1680KXZE2		
0			475KXZE2 500KXZE2		500KXZE2	500KXZE2	560KXZE2		
Combination	(FDC)		475KXZE2 500KXZE2		500KXZE2	560KXZE2	560KXZE2		
			500KXZE2	560KXZE2					
Nominal hors	se power		52HP	54HP	56HP	58HP	60HP		
Power source	9				3 Phase 380-415V, 50Hz				
Nominal	Cooling	kW	145.0	150.0	156.0	162.0	168.0		
capacity	Heating	KVV	162.0	168.0	175.0	182.0	189.0		
Power	Cooling	kW	41.95	42.03	45.52	49.01	52.50		
consumption	Heating	KVV	39.54	40.68	43.27	45.87	48.46		
EER			3.46	3.57	3.43	3.31	3.20		
COP			4.10	4.10 4.13 4.04 3.97 3.90					
Net weight		kg			1134				
Starting curr	ent	Α			24				
Max current		Α	120.6						
Refrigerant	Type / GWP				R410A / 2088				
Honigorani	Charge	kg	11.5x3						
Refrigerant	Liquid	m. m.			ø19.05(3/4")				
piping size	Gas	mm (in)	ø38.1(1·1/2") [ø34.92(1·3/8")]						
	Oil equalization		ø9.52 (3/8")						
Total piping length m			1000						
Outdoor operating Cooling °CDB			-15-52						
temperature range Heating °CWB			-20–15.5						
Capacity connection %				50–130					
Number of connectable indoor units 80									

<sup>1.</sup> 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.

<sup>2.</sup> Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.

 $<sup>{\</sup>it 3.} \ {\it Refrigerant piping size applicable to European installations are shown in parentheses.}$ 

# 20-32<sub>HP</sub> (56.0kW-89.5kW)







#### Technical focus

- The KXZ2 series has a layered design and a refined new form
- High efficiency with EER up to 3.86
- VTCC: advanced variable temperature and capacity control
- Total piping length up to 1000m and a maximum height difference between indoor unit is maximum of 30m.
- Wide range of operation.







Item Model		ioaei	FDC560KXZXE2	FDC850KXZXE2	FDC900KXZXE2				
Oznaki zaki za (EDO)			280KXZE2	280KXZE2	280KXZE2				
Combination (FDC)			280KXZE2	280KXZE2	280KXZE2				
			-	280KXZE2	335KXZE2				
Nominal horse power			20HP	30HP	32HP				
Power source				3 Phase 380-415V, 50Hz					
Nominal	Cooling	kW	56.0	84.0	89.5				
capacity	Heating	KVV	63.0	94.5	100.5				
Power	Cooling	kW	14.51	21.76	23.49				
consumption	Heating	KVV	14.82	22.23	23.85				
EER			3.86	3.86	3.81				
COP			4.25	4.25	4.21				
Net weight		kg	576	86	64				
Starting curre	ent	Α	10	15					
Max current		Α	40.2	60.3					
Refrigerant	Type / GWP			R410A / 2088					
nemyeram	Charge	kg	11.0+11.0	11.0	Dx3				
	Liquid		ø12.7(1/2")	ø15.88	3(5/8")				
Refrigerant piping size	Gas	mm (in)	ø28.58(1·1/8")	ø31.75(1·1/4") [	ø34.92(1·3/8")]				
	Oil equalization	(111)		ø9.52 (3/8")					
Total piping le	ength	m		1000					
Outdoor operating Cooling °CDB		°CDB		-15-52					
temperature range Heating °CWB		°CWB		-20-15.5					
Capacity connection %		%		80–160					
Number of connectable indoor units			59	8	0				

<sup>1.</sup> 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.

<sup>2.</sup> Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.

<sup>3.</sup> Refrigerant piping size applicable to European installations are shown in parentheses.

### 34-40 HP (95.0kW-113.5kW)







#### Technical focus

- The KXZ2 series has a layered design and a refined new form
- High efficiency with EER up to 3.77
- VTCC : advanced variable temperature and capacity control
- Total piping length up to 1000m and a maximum height difference between indoor unit is maximum of 30m.
- Wide range of operation.









Item	N	/lodel	FDC950KXZXE2	FDC1000KXZXE2	FDC1060KXZXE2	FDC1120KXZXE2				
			280KXZE2 335KXZE2		335KXZE2	335KXZE2				
Combination	(FDC)		335KXZE2	335KXZE2	335KXZE2	400KXZE2				
			335KXZE2	335KXZE2	400KXZE2	400KXZE2				
Nominal horse power			34HP	36HP	38HP	40HP				
Power source	е			3 Phase 380	-415V, 50Hz					
Nominal	Cooling	kW	95.0	100.5	107.0	113.5				
capacity	Heating	KVV	106.5	112.5	120.0	127.5				
Power	Cooling	kW	25.22	26.94	28.94	30.94				
consumption	Heating	KVV	25.47	27.09	28.29	29.48				
EER			3.77	3.73	3.70	3.67				
COP			4.18	4.15	4.24	4.32				
Net weight		kg	86	64	908	952				
Starting curr	ent	Α		15						
Max current		Α	60	.3	72.2	84.1				
Refrigerant	Type / GWP			R410A	A / 2088					
nemyerani	Charge	kg	11.0	)x3	11.0+11.0+11.5 11.0+11.5+11.5					
Defeirerent	Liquid		ø15.88	3(5/8")	ø19.0	5(3/4")				
Refrigerant piping size	Gas	mm (in)	ø31.75(1·1/4") [ø34.92(1·3/8")]		ø38.1(1·1/2") [ø34.92(1·3/8")]					
F-13	Oil equalization			ø9.52	(3/8")					
Total piping I	ength	m		10	00					
Outdoor operating Cooling °CDB		°CDB		-15	<b>-</b> 52					
temperature r	ange Heating	°CWB		-20-	15.5					
Capacity connection %		%	80–160 80–130							
Number of connectable indoor units				8	0					

<sup>1.</sup> 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.

<sup>2.</sup> Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.

<sup>3.</sup> Refrigerant piping size applicable to European installations are shown in parentheses.



### 8-12<sub>HP</sub> (22.4kW-33.5kW)







#### Technical focus

- The KXZ2 series has a layered design and a refined new form
- High efficiency with EER up to 3.89
- VTCC: advanced variable temperature and capacity control
- Continuous heating capacity control
- Total piping length up to 1000m and a maximum pipe run of 160m



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

#### - for simultaneous heating and cooling



FDC224-335

Refrigerant   Feating capacity   Feating capacity	Item Model		Model	FDC224KXZRE2	FDC280KXZRE2	FDC335KXZRE2					
Nominal capacity   Heating   Heating capacity   Heating   Heating capacity   Heating   Heatin	Nominal hors	se power		8HP	10HP	12HP					
Realing capacity	Power sourc	e			3 Phase 380-415V, 50Hz						
Rearing capacity   Heating   Capacity   Realing capacity   Realing capacity   Realing capacity   Realing   Capac	Nominal	Cooling	k/M	22.4	28.0	33.5					
Power   Cooling   Coolin	capacity	Heating	KVV	22.4	28.0	33.5					
Second   Heating   Second   Heating   Second   Heating   Second   Second	Max heating	capacity	kW	25.0	31.5	37.5					
Heating   S.27   S.86   S.44	101101		I/W	5.76	7.39	9.65					
August	consumption	l Heating	KVV	5,27	6.86	8.44					
SEER	EER			3.89	3.79	3.47					
SCOP	COP			4.25	4.08	3.97					
Max   Sound   Heating   Mean   Mea	SEER			6.21	6.36	7.15					
Net weight Sound power level         Cooling Heating power level         Cooling Heating power level         Max (Cooling power level)	SCOP			4.06	4.02	4.43					
Sound power level   Heating   dB(A)   75   75   82	Exterior dimer	nsions (HxWxD)	mm		1697x1350x720						
Heating   Heating   Sound   Free Sturies   Heating   H	Net weight		kg								
Heating   Food   Food	Sound	Cooling	dB(A)	75	75	82					
Starting current	power level	Heating	UD(A)	77	76	82					
Starting current   Fleating   S8   S7   63	Sound	· ·	dB(Δ)								
Max current         A         16.0         20.0         21.2           Refrigerant piping size         Tog₂ Eq         Kg         11.5         <	pressure lev	el Heating	UD(A)	58	57	63					
Type / GWP   R410A / 2088   R410A / 2088     Charge   kg	Starting curr	ent	Α								
Charge   kg   11.5   24.012	Max current		Α	16.0	16.0 20.0						
TCO <sub>2</sub> Eq		Type / GWP									
Refrigerand piping size   Liquid   Suction gas   Discharge gas   Discharge gas   Mind   Min	Refrigerant	Charge	kg								
Suction gas   Suction gas   Discharge gas   Mm (in)   Ø19.05(3/4")   Ø22.22(7/8")   Ø25.4(1") [Ø22.22(7/8")]   Ø19.05(3/4")   Ø19.05(3/4")		TCO <sub>2</sub> Eq			24.012						
Suction gas   Figure   Figur	Dofrigoront		mm	ø9.52	(3/8")	ø12.7(1/2")					
Discharge gas   w   w   w   w   w   w   w   w   w		Suction gas		ø19.05(3/4")	ø22.22(7/8")	ø25.4(1") [ø22.22(7/8")]					
Outdoor operating temperature range         Cooling heating         °CDB         -15-46           Capacity connection         *CWB         -20-15.5           50-200         50-200	1.1	Discharge gas		ø15.88(5/8")	ø19.09	5(3/4")					
temperature range Heating °CWB -20–15.5 Capacity connection % 50–200	Total piping length m										
Capacity connection % 50–200											
	temperature r	range Heating									
Number of connectable indoor units 29 37 44	Capacity con	inection	%								
	Number of co	nnectable indo	or units	29	37	44					

<sup>1.</sup> 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. SEER/SCOP are based on EN14825:2016 and Commission regulation (EU) No.2016/2281. Temperature conditions for calculating SCOP are based on "Average climate".
3. Sound pressure level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.

<sup>4. &#</sup>x27;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. 5. Refrigerant contained in the products is a fluorinated greenhouse gas listed in Regulation (EU) No 517/2014.
6. Refrigerant piping size applicable to European installations are shown in parentheses.



## 14-24<sub>HP</sub> (40.0kw-67.0kw)







#### Technical focus

- The KXZ2 series has a layered design and a refined new form
- High efficiency with EER up to 3.46
- VTCC: advanced variable temperature and capacity control
- Continuous heating capacity control
- Total piping length up to 1000m and a maximum pipe run of 160m



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

#### - for simultaneous heating and cooling



FDC400-670

Item		Mod	leb	FDC400KXZRE2	FDC450KXZRE2	FDC475KXZRE2	FDC500KXZRE2	FDC560KXZRE2	FDC615KXZRE2	FDC670KXZRE2
Nominal hors	e power			14HP	16HP	17HP	18HP	20HP	22HP	24HP
Power source	9					3 Pl	nase 380-415V, 5	0Hz		
Nominal	Cool	ing	(W	40.0	45.0	47.5	50.0	56.0	61.5	67.0
capacity	Heat	ing	(VV	40.0	45.0	47.5	50.0	56.0	61.5	63.0
Max heating	capacity	k	κW	45.0	50.0	53.0	56.0	63.0	63.0	63.0
Power	Cool	ing	(W	11.56	14.47	14.84	15.20	19.31	21.35	25.57
consumption	Heat	ing	\ VV	9.76	11.39	11.67	12.69	14.93	16.14	17.45
EER				3.46	3.11	3.20	3.29	2.90	2.88	2.62
COP				4.10	3.95	4.07	3.94	3.75	3.81	3.61
SEER				6.78	6.29	6.60	7.01	6.26	6.05	5.88
SCOP				4.39	4.33	4.27	4.39	4.29	4.34	4.50
Exterior dimen	sions (HxW	(xD) m	nm				2052x1350x720			
Net weight		k	kg	37	<b>7</b> 2			420		
Sound	Cool	ing	3(A)	81					84	
power level	Heat	ing	J(A)		8	2		82	8	3
Sound	Cool	ing	3(A)		6	1		64	6	55
pressure leve	Heat	ing	5(71)		6	2		63	6	64
Starting curr	ent	ı	Α	5	5			8		
Max current		1	Α	30.0	32.0	40.4	41.0	41.6	42.0	42.4
	Type / GW	Р					R410A / 2088			
Refrigerant	Charge	k	kg				11.5			
	TCO <sub>2</sub> Eq						24.012			
	Liquid						ø12.7(1/2")			
Refrigerant piping size	Suction ga	20	$\begin{array}{ccc} \text{mm} & \varnothing 25.4 (1") \\ \text{(in)} & [\varnothing 28.58 (1 \cdot 1/8")] \end{array} \\ & \varnothing 28.58 (1 \cdot 1/8") \end{array}$							
	Discharge gas		22.22(7/8")]							
Total piping I	otal piping length m 1000									
Outdoor opera		0	CDB				-15-46			
temperature ra	ange Heat	ing °C	CWB				-20-15.5			
Capacity con	nection	q	%	50-	200			50-160		
Number of connectable indoor units 53 60		nits	53	60	50	53	59	65	71	

<sup>1.</sup> 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. SEER/SCOP are based on EN14825:2016 and Commission regulation (EU) No.2016/2281. Temperature conditions for calculating SCOP are based on "Average climate".
3. Sound pressure level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.
4. '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.
5. Refrigerant contained in the products is a fluorinated greenhouse gas listed in Regulation (EU) No 517/2014.
6. Refrigerant piping size applicable to European installations are shown in parentheses.



# 26-40<sub>HP</sub> (73.5kw-112.0kw)







#### Technical focus

- The KXZ2 series has a layered design and a refined new form
- High efficiency with EER up to 3.47
- VTCC : advanced variable temperature and capacity control
- Continuous heating capacity control
- Total piping length up to 1000m and a maximum pipe run of 160m





- for simultaneous heating and cooling

FDC735

Item		M	lodel	FDC735KXZRE2							FDC1120KXZRE2
Combination	(EDC)			335KXZRE2	400KXZRE2	400KXZRE2	450KXZRE2	475KXZRE2	500KXZRE2	500KXZRE2	560KXZRE2
Combination	(FDC)			400KXZRE2	400KXZRE2	450KXZRE2	450KXZRE2	475KXZRE2	500KXZRE2	560KXZRE2	560KXZRE2
Nominal hors	se power			26HP 28HP 30HP 32HP 34HP 36HP 38HP 40H							40HP
Power source	е						3 Phase 380	-415V, 50Hz			
Nominal Cooling kW			k\M	73.5	80.0	85.0	90.0	95.0	100.0	106.0	112.0
capacity	Hea	ating	KVV	73.5	80.0	85.0	90.0	95.0	100.0	106.0	112.0
Power	Cod	oling	kW	21.21	23.12	26.03	28.94	29.68	30.40	34.51	38.62
consumption	Hea	ating	KVV	18.20	19.52	21.15	22.78	23.34	25.38	27.62	29.86
EER				3.47	3.46	3.27	3.11	3.20	3.29	3.07	2.90
COP				4.04 4.10 4.02 3.95 4.07 3.94 3.84						3.75	
Net weight			kg	677		744			84	10	
Starting curr	ent		Α		1	0			1	6	
Max current			Α	51.2	60.0	62.0	64.0	80.8	82.0	82.6	83.2
Refrigerant	Type / GV	VP					R410A	/ 2088			
Henrigerant	Charge		kg				11.5-	+11.5			
	Liquid					ø15.88	3(5/8")			ø19.0	5(3/4")
Refrigerant	Suction	gas	mm		ø31.75(	1·1/4") [ø34.92(	[1·3/8")]		ø38.1(1	·1/2") [ø34.92(	1·3/8")]
piping size	Discharge	e gas	(in)	ø25.4(1") [ø28.58(1·1/8")]			ø28.58(1·1/8")				(1·1/4") 8(1·1/8")]
	Oil equali	zation		ø9.52 (3/8")							
Total piping I	ength		m	1000							
Outdoor opera	9	oling	°CDB				-15·	<del>-</del> 46			
temperature r	ange Hea	ating	°CWB				-20-	15.5			
Capacity con	nection		%			50–160				50-130	
Number of connectable indoor units 78 80											

<sup>1.</sup> 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 level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.

<sup>3.</sup> Refrigerant piping size applicable to European installations are shown in parentheses.



# 42-50 HP (120.0kW-142.5kW)







#### Technical focus

- for simultaneous heating and cooling

- The KXZ2 series has a layered design and a refined new form
- High efficiency with EER up to 3.46
- VTCC : advanced variable temperature and capacity control
- Continuous heating capacity control
- Total piping length up to 1000m and a maximum pipe run of 160m



Item	- 1	Model	FDC1200KXZRE2	FDC1425KXZRE2					
			400KXZRE2	400KXZRE2	400KXZRE2	450KXZRE2	475KXZRE2		
Combination (FDC)			400KXZRE2	400KXZRE2	450KXZRE2	450KXZRE2	475KXZRE2		
			400KXZRE2	475KXZRE2					
Nominal horse	power		42HP	44HP	46HP	48HP	50HP		
Power source					3 Phase 380-415V, 50Hz				
Nominal	Cooling	kW	120.0	125.0	130.0	135.0	142.5		
capacity	Heating	NVV	120.0	125.0	130.0	135.0	142.5		
Power	Cooling	kW	34.68	37.59	40.50	43.41	44.52		
consumption	Heating	KVV	29.28	30.91	32.54	34.17	35.01		
EER			3.46	3.33	3.21	3.11	3.20		
COP		4.10 4.04 4.00 3.95					4.07		
Net weight		kg		11	16		1260		
Starting currer	nt	А		1	5		24		
Max current		Α	90.0 92.0 94.0 96.0 121.2						
Refrigerant	Type / GWP		R410A / 2088						
Henrigerant	Charge	kg	11.5x3						
	Liquid				ø19.05(3/4")				
Refrigerant	Suction gas	mm		ø3	38.1(1·1/2") [ø34.92(1·3/8	")]			
piping size	Discharge gas	(in)		ø3	1.75(1·1/4") [ø28.58(1·1/8	(")]			
Oil equalization					ø9.52 (3/8")				
Total piping length m			1000						
Outdoor operati		°CDB	-15–46						
temperature rar	nge Heating	°CWB			-20-15.5				
Capacity conn	ection	%			50-130				
Number of conn	nectable indo	or units			80				

<sup>1.</sup> 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.

<sup>2.</sup> Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.

<sup>3.</sup> Refrigerant piping size applicable to European installations are shown in parentheses.



### 52-60 HP (145.0kW-168.0kW)







#### Technical focus

- for simultaneous heating and cooling

- The KXZ2 series has a layered design and a refined new form
- High efficiency with EER up to 3.29
- VTCC : advanced variable temperature and capacity control
- Continuous heating capacity control
- Total piping length up to 1000m and a maximum pipe run of 160m



Item	Model FDC1450KXZRE2		FDC1500KXZRE2 FDC1560KXZRE2		FDC1620KXZRE2	FDC1680KXZRE2			
Combination (FDC)			475KXZRE2	RE2 500KXZRE2 500KXZRE2 500KXZRE2		500KXZRE2	560KXZRE2		
			475KXZRE2	475KXZRE2 500KXZRE2 500KXZRE2		560KXZRE2	560KXZRE2		
			500KXZRE2	500KXZRE2 560KXZRE2		560KXZRE2	560KXZRE2		
Nominal horse power			52HP	54HP 56HP 58HP			60HP		
Power source			3 Phase 380-415V, 50Hz						
Nominal	Coolir	ng kW	145.0	150.0	156.0	162.0	168.0		
capacity	Heatii	ng KW	145.0	150.0	156.0	162.0	168.0		
Power consumption	Coolir	ng kW	44.88	45.60	49.71	53.82	57.93		
	Heatii	ng	36.03	38.07	40.31	42.55	44.79		
EER			3.23	3.29	3.14	3.01	2.90		
COP			4.02 3.94 3.87		3.81	3.75			
Net weight kg		1260							
Starting curre	Starting current A		24						
Max current		А	121.8 123.0		123.6	123.6 124.2			
Refrigerant	Type / GWP		R410A / 2088						
Horrigorant	Charge	kg	11.5x3						
	Liquid		ø19.05(3/4")						
Refrigerant	Suction ga		ø38.1(1·1/2") [ø34.92(1·3/8")]						
piping size	Discharge (	gas (in)	ø31.75(1·1/4") [ø28.58(1·1/8")]						
	Oil equaliza	tion	ø9.52 (3/8")						
Total piping l	Total piping length		1000						
Outdoor operating temperature range Heating			-15–46						
		ng °CWB	-20–15.5						
Capacity connection %		%	50–130						
$\label{lem:number of connectable indoor units} \label{lem:number of connectable indoor units}$		door units	80						

<sup>1.</sup> 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.

<sup>2.</sup> Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.

<sup>3.</sup> Refrigerant piping size applicable to European installations are shown in parentheses.



# 16-24<sub>HP</sub> (45.0kw-67.0kw)







#### Technical focus

- for simultaneous heating and cooling

- The KXZ2 series has a layered design and a refined new form
- High efficiency with EER up to 3.91
- VTCC: advanced variable temperature and capacity control
- Continuous heating capacity control
- Total piping length up to 1000m and a maximum pipe run of 160m





Item		Model	FDC450KXZRXE2	FDC500KXZRXE2	FDC560KXZRXE2	FDC615KXZRXE2	FDC670KXZRXE2		
Combination (FDC)		224KXZRE2	224KXZRE2 280KXZRE2		280KXZRE2	335KXZRE2			
Combination (FDC)			224KXZRE2	280KXZRE2 280KXZRE2		335KXZRE2	335KXZRE2		
Nominal horse power			16HP	18HP 20HP		22HP	24HP		
Power source			3 Phase 380-415V, 50Hz						
Nominal	Coolin	g kW	45.0	50.0	56.0	61.5	67.0		
capacity	Heatir	ig Kvv	45.0	50.0	56.0	61.5	67.0		
Power	Coolin	g kW	11.52	13.15	14.78	17.04	19.30		
consumption	Heatir	ig NVV	10.54	12.13	13.72	15.30	16.88		
EER		3.91	3.80	3.79	3.61	3.47			
COP			4.27	4.12	4.08	4.02	3.97		
Net weight kg			610						
Starting current A		10							
Max current		Α	32.0	36.0 40.0		41.2	42.4		
Refrigerant	Type / GWP		R410A / 2088						
	Charge kg		11.5+11.5						
Refrigerant piping size	Liquid		ø12.7(1/2")						
	Suction gas	S mm			ø28.58(1·1/8")				
	Discharge g	as (in)		ø22.22(7/8")		ø25.4(1") [ø22.22(7/8")]			
	Oil equalizat	ion	ø9.52 (3/8")						
Total piping length m		m	1000						
Outdoor opera		-	-15–46						
temperature ra	ange Heatin	g °CWB	-20-15.5						
Capacity connection %		80–200	80–160						
Number of connectable indoor units			60	53	59	65	71		

<sup>1.</sup> 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.

<sup>2.</sup> Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.

<sup>3.</sup> Refrigerant piping size applicable to European installations are shown in parentheses.



# 26-36HP (73.5kW-100.0kW)





- for simultaneous heating and cooling



#### Technical focus

- The KXZ2 series has a layered design and a refined new form
- High efficiency with EER up to 3.89
- VTCC: advanced variable temperature and capacity control
- Continuous heating capacity control
- Total piping length up to 1000m and a maximum pipe run of 160m





Item		N	/lodel	FDC735KXZRXE2	FDC800KXZRXE2	FDC850KXZRXE2	FDC900KXZRXE2	FDC950KXZRXE2	FDC1000KXZRXE2	
				224KXZRE2	224KXZRE2	280KXZRE2	280KXZRE2	280KXZRE2	335KXZRE2	
Combination (FDC)			224KXZRE2 280KXZRE2 280KXZRE2 280KXZRE2 335KXZRE2				335KXZRE2			
				280KXZRE2	280KXZRE2	280KXZRE2	335KXZRE2	335KXZRE2	335KXZRE2	
Nominal horse power				26HP	28HP	30HP	32HP	34HP	36HP	
Power source				3 Phase 380-415V, 50Hz						
Nominal	Co	oling	kW	73.5	80.0	85.0	90.0	95.0	100.0	
capacity	Не	ating		73.5	80.0	85.0	90.0	95.0	100.0	
Power	Co	oling	kW	18.91	20.54	22.17	24.43	26.69	28.95	
consumption	He	ating		17.40	18.99	20.58	22.16	23.74	25.32	
EER			3.89	3.89	3.83	3.68	3.56	3.45		
COP		4.22	4.21	4.13	4.06	4.00	3.95			
Net weight kg		915								
Starting current A		15								
Max current	Max current A		Α	52.0	56.0	60.0	61.2	62.4	63.6	
Refrigerant	Type / G	WP		R410A / 2088						
nelligeralli	Charge		kg	11.5x3						
Refrigerant piping size	Liquid			ø15.88(5/8")						
	Suction	on gas mm		ø31.75(1·1/4") [ø34.92(1·3/8")]					ø38.1(1·1/2") [ø34.92(1·3/8")]	
	Dischar	Discharge gas (i		ø25.4(1") [ø28.58(1·1/8")]						
	Oil equa	lization		ø9.52 (3/8")						
Total piping length n		m	1000							
		oling	°CDB	-15–46						
temperature r	ange He	ating	°CWB	-20-15.5						
Capacity connection %		80–160 80–130					80–130			
Number of connectable indoor units		78 80								

<sup>1.</sup> 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.

<sup>2.</sup> Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.

<sup>3.</sup> Refrigerant piping size applicable to European installations are shown in parentheses.