

KXZ2 VRF-T SYSTEM

The best solution for air conditioning "sophisticated" buildings

High air conditioning performance for all commercial applications.
Comfort and energy efficiency, application flexibility, intuitive and customizable controls, maintenance and management made even easier.



10~12HP
(28.0~33.5 kW)

14~20HP
(40.0~56.0 kW)

KXZ2

CONNECT UP TO 44 INDOOR UNITS/
200% CAPACITY

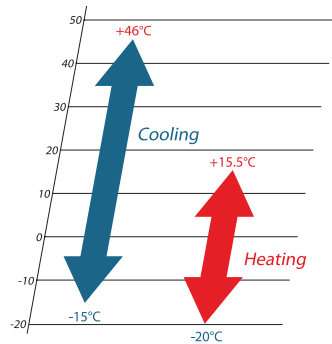
FDC 280 KXZE2 28.0 kW

FDC 335 KXZE2 33.5 kW

FEATURES

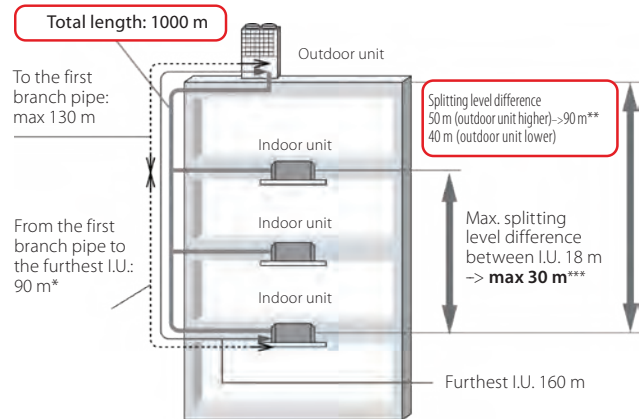
- Maximum energy efficiency: COP 4.25 and EER 3.86 [10 HP]
- Only DC Inverter compressors
- High splitting distance: up to 1000 m in total and with a max. distance between the O.U. and the furthest I.U. of 160 m
- Up to 85 Pa fan static pressure

OPERATING RANGE



10~12HP (28.0~33.5 kW)

INSTALLATION DIAGRAM



- * With difference of length between the furthest indoor unit and the nearest one from the first branch pipe < 40 m (MAX 85 m).
- ** Comply with installation conditions. For details, refer to the Technical Manual.
- *** It is necessary to change the corresponding setting of each difference in level during installation. Range of use also varies.

Outdoor unit model			FDC 280 KXZE2	FDC 335 KXZE2
Power class	HP		10	12
Nominal data				
Rated capacity	Cooling	kW	28.00	33.50
		kW	7.25	8.98
		EER ¹	3.86	3.73
Rated capacity	Heating	kW	31.50	37.5
		kW	7.41	9.03
		COP ¹	4.25	4.15
Seasonal data				
Seasonal energy efficiency index	Cooling	SEER ²	7.30	7.54
	Heating	SCOP ²	4.88	4.68
Electrical data				
Power supply	Ph-V-Hz		3Ph-380~415V-50Hz	
Rated current	Cooling	A	120	14.7
	Heating	A	12.20	14.80
Maximum current	A		20.10	20.10
Refrigerant circuit data				
Refrigerant ³	type (GWP)		R410A (2088)	
Q.ty of refrigerant pre-charge ⁴ (tons of CO ₂ equivalent)	kg		11 (22.968)	11 (22.968)
Piping diameter	Liquid	inch (mm)	3/8" (9.52)	1/2" (12.7)
	Gas		7/8" (22.22)	1" (25.4)
Product specifications				
Dimensions	HxLxD	mm	1697x1350x720	1697x1350x720
Net weight		kg	288	288
Sound power level	Max	dB(A)	76	82
Sound pressure level	Max	dB(A)	57	63
Volume of air treated	Standard	m ³ /h	13500	17640
Fan static pressure	Max	Pa	85	85
Operating range (outdoor temperature)	Cooling	°C	-15~46	-15~46
	Heating	°C	-20~15.5	-20~15.5
Connectable indoor units ⁵	Min ~ Max	nb.	1 ~ 37	1 ~ 44
	Capacity	%	50 ~ 200	50 ~ 200

1. Value measured according to the harmonised standard EN14511. 2. EU Regulations No. 206/2012 - No. 2281/2016 - Value measured according to the harmonised standard EN14825. 3. Refrigerant leakage contributes to climate change. When released into the atmosphere, refrigerants with a lower global warming potential (GWP) contribute less to global warming than those with a higher GWP. This appliance contains a refrigerant with a GWP of 2088. If 1 kg of this refrigerant fluid were released into the atmosphere, therefore, the impact on global warming would be 2088 times higher than 1 kg of CO₂ over a period of 100 years. Under no circumstances should the user try to intervene on the refrigerant circuit or disassemble the product. Always contact qualified personnel if necessary. 4. For the calculation of the additional refrigerant charge, refer to the labels placed inside and outside the unit. 5. When connecting indoor units of type FDK, FDL, FDFU or FDFW the upper limit is always 130%.

KXZ2

CONNECT UP TO 59 INDOOR UNITS/
160% (FDC 400~450 KXZE2 200%) CAPACITY

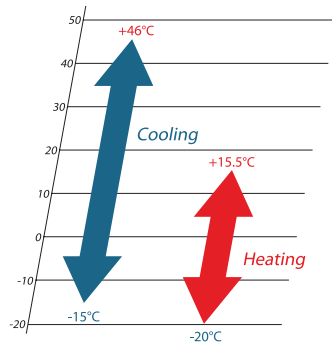
- FDC 400 KXZE2 40.0 kW FDC 500 KXZE2 50.0 kW
- FDC 450 KXZE2 45.0 kW FDC 560 KXZE2 56.0 kW
- FDC 475 KXZE2 47.5 kW

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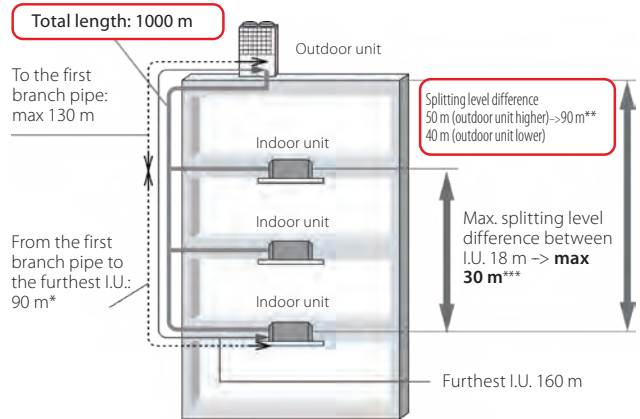
- Maximum energy efficiency: COP 4.40 and EER 3.64 [14 HP]
- Only DC Inverter compressors
- High splitting distance: up to 1000 m in total and with a max. distance between the O.U. and the furthest I.U. of 160 m
- Up to 85 Pa fan static pressure



OPERATING RANGE



INSTALLATION DIAGRAM



14~20HP (40.0~56.0 kW)

* With difference of length between the furthest indoor unit and the nearest one from the first branch pipe < 40 m (MAX 85 m).
 ** Comply with installation conditions. For details, refer to the Technical Manual.
 *** It is necessary to change the corresponding setting of each difference in level during installation. Range of use also varies.

Outdoor unit model			FDC 400 KXZE2	FDC 450 KXZE2	FDC 475 KXZE2	FDC 500 KXZE2	FDC 560 KXZE2
Power class		HP	14	16	17	18	20
Nominal data							
Rated capacity	Cooling	kW	40.00	45.00	47.50	50.00	56.00
Rated power input		kW	10.98	13.98	13.97	14.01	17.50
Rated energy efficiency coefficient		EER ¹	3.64	3.22	3.40	3.57	3.20
Rated capacity	Heating	kW	45.00	50.00	53.00	56.00	63.00
Rated power input		kW	10.23	12.50	12.99	13.56	16.15
Rated energy performance coefficient		COP ¹	4.40	4.00	4.08	4.13	3.90
Seasonal data							
Seasonal energy efficiency index	Cooling	SEER ²	7.12	7.01	6.84	7.29	6.73
	Heating	SCOP ²	4.87	4.36	4.45	4.58	4.30
Electrical data							
Power supply		Ph-V-Hz	3Ph-380~415V-50Hz				
Rated current	Cooling	A	17.60	22.40	22.60	22.60	26.90
	Heating	A	16.70	20.40	21.00	21.90	26.10
Maximum current		A	32.00	32.00	40.20	40.20	40.20
Refrigerant circuit data							
Refrigerant ³		type (GWP)	R410A (2088)				
Q.ty of refrigerant pre-charge ⁴ (tons of CO ₂ equivalent)		kg	11.5 (24.012)	11.5 (24.012)	11.5 (24.012)	11.5 (24.012)	11.5 (24.012)
Piping diameter	Liquid	inch (mm)	1/2" (12.7)	1/2" (12.7)	1/2" (12.7)	1/2" (12.7)	1/2" (12.7)
	Gas	inch (mm)	1" (25.4)	1-1/8" (28.58)	1-1/8" (28.58)	1-1/8" (28.58)	1-1/8" (28.58)
Product specifications							
Dimensions	HxLxD	mm	2052x1350x720	2052x1350x720	2052x1350x720	2052x1350x720	2052x1350x720
Net weight		kg	332	332	378	378	378
Sound power level	Max	dB(A)	82	82	81	82	83
Sound pressure level	Max	dB(A)	62	62	61	62	64
Volume of air treated	Standard	m ³ /h	18240	18240	18000	18000	18000
Fan static pressure	Max	Pa	85	85	85	85	85
Operating range (outdoor temperature)	Cooling	°C	-15~-46	-15~-46	-15~-46	-15~-46	-15~-46
	Heating	°C	-20~-15.5	-20~-15.5	-20~-15.5	-20~-15.5	-20~-15.5
Connectable indoor units ⁵	Min ~ Max	nb.	1 ~ 53	1 ~ 60	1 ~ 50	1 ~ 53	1 ~ 59
	Capacity	%	50 ~ 200	50 ~ 200	50 ~ 160	50 ~ 160	50 ~ 160

1. Value measured according to the harmonised standard EN14511. 2. EU Regulations No. 206/2012 - No. 2281/2016 - Value measured according to the harmonised standard EN14825. 3. Refrigerant leakage contributes to climate change. When released into the atmosphere, refrigerants with a lower global warming potential (GWP) contribute less to global warming than those with a higher GWP. This appliance contains a refrigerant with a GWP of 2088. If 1 kg of this refrigerant fluid were released into the atmosphere, therefore, the impact on global warming would be 2088 times higher than 1 kg of CO₂ over a period of 100 years. Under no circumstances should the user try to intervene on the refrigerant circuit or disassemble the product. Always contact qualified personnel if necessary. 4. For the calculation of the additional refrigerant charge, refer to the labels placed inside and outside the unit. 5. When connecting indoor units of type FDK, FDL, FDFU or FDFW the upper limit is always 130%.

KXZ2

CONNECT UP TO 71 INDOOR UNITS/160% CAPACITY

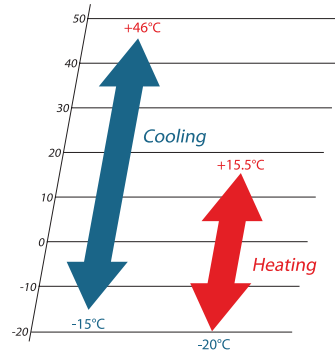
FDC 615 KXZE2 (FDC 280+FDC 335) 61.5 kW

FDC 670 KXZE2 (FDC 335+FDC 335) 67.0 kW

FEATURES

- Maximum energy efficiency: COP 4.20 and EER 3.79 [22 HP]
- Only DC Inverter compressors
- High splitting distance: up to 1000 m in total and with a max. distance between the O.U. and the furthest I.U. of 160 m
- Up to 85 Pa fan static pressure

OPERATING RANGE



22~24HP
(61.5~67.0 kW)

COMBINATIONS

Outdoor unit model			FDC 615 KXZE2	FDC 670 KXZE2
Combinations			FDC 280 KXZE2	FDC 335 KXZE2
			FDC 335 KXZE2	FDC 335 KXZE2
Power class			22	24
Rated capacity			61.50	67.00
Rated power input			16.24	17.96
Rated energy efficiency coefficient			3.79	3.73
Rated capacity			69.00	75.00
Rated power input			16.44	18.06
Rated energy performance coefficient			4.20	4.15
Electrical data			3Ph-380~415V-50Hz	
Power supply			3Ph-380~415V-50Hz	
Rated current			26.70	29.40
Maximum current			40.20	40.20
Refrigerant circuit data			R410A (2088)	
Refrigerant ²			R410A (2088)	
Q.ty of refrigerant pre-charge ³ (tons of CO2 equivalent)			22 (45.936)	22 (45.936)
Piping diameter ⁴			1-1/8" (28.58)	1-1/8" (28.58)
			3/8" (9.52)	3/8" (9.52)
Product specifications			1697x2700x720	
Dimensions			1697x2700x720	
Net weight			576	
Connectable indoor units ⁵			2 ~ 71	
Capacity			50 ~ 160	

1. Value measured according to the harmonised standard EN 14511. 2. Refrigerant leakage contributes to climate change. When released into the atmosphere, refrigerants with a lower global warming potential (GWP) contribute less to global warming than those with a higher GWP. This appliance contains a refrigerant with a GWP of 2088. If 1 kg of this refrigerant fluid were released into the atmosphere, therefore, the impact on global warming would be 2088 times higher than 1 kg of CO₂, over a period of 100 years. Under no circumstances should the user try to intervene on the refrigerant circuit or disassemble the product. Always contact qualified personnel if necessary. 3. For the calculation of the additional refrigerant charge, refer to the labels positioned inside and outside the unit. 4. The diameters indicated refer to the section up to the first junction, with an equivalent length of less than 90 m. 5. When connecting indoor units of type FDK, FDFL, FDFU or FDFW the upper limit is always 130%.

KXZ2

CONNECT UP TO 80 INDOOR UNITS/160% CAPACITY
(FDC 1000~1120 KXZE2 130%)

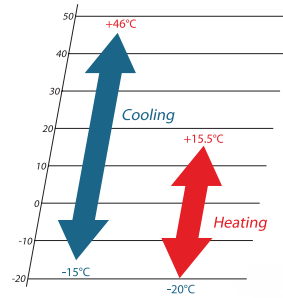
FDC 735 KXZE2 (FDC 335+FDC 400) 73.5 kW
 FDC 800 KXZE2 (FDC 400+FDC 400) 80.0 kW
 FDC 850 KXZE2 (FDC 400+FDC 450) 85.0 kW
 FDC 900 KXZE2 (FDC 450+FDC 450) 90.0 kW

FDC 950 KXZE2 (FDC 475+FDC 475) 95.0 kW
 FDC 1000 KXZE2 (FDC 500+FDC 500) 100.0 kW
 FDC 1060 KXZE2 (FDC 500+FDC 560) 106.0 kW
 FDC 1120 KXZE2 (FDC 560+FDC 560) 112.0 kW

FEATURES

- Maximum energy efficiency: COP 4.40 (28HP); EER 3.68 [26 HP]
- Only DC Inverter compressors
- High splitting distance: up to 1000 m in total and with a max. distance between the O.U. and the furthest I.U. of 160 m
- Up to 85 Pa fan static pressure

OPERATING RANGE



26HP (73,5 kW)



28~40HP (80,0~112,0 kW)

COMBINATIONS

Outdoor unit model			FDC 735 KXZE2	FDC 800 KXZE2	FDC 850 KXZE2	FDC 900 KXZE2	FDC 950 KXZE2	FDC 1000 KXZE2	FDC 1060 KXZE2	FDC 1120 KXZE2
Combinations			FDC 335 KXZE2	FDC 400 KXZE2	FDC 400KXZE2	FDC 450 KXZE2	FDC 475 KXZE2	FDC 500 KXZE2	FDC 500 KXZE2	FDC 560 KXZE2
			-	-	-	-	-	-	-	-
Power class		HP	26	28	30	32	34	36	38	40
Rated capacity	Cooling	kW	73.50	80.00	85.00	90.00	95.00	100.00	106.00	112.00
Rated power input		kW	19.96	21.96	24.96	27.95	27.94	28.02	31.51	35.00
Rated energy efficiency coefficient		EER1	3.68	3.64	3.41	3.22	3.40	3.57	3.36	3.20
Rated capacity	Heating	kW	82.50	90.00	95.00	100.00	106.00	112.00	119.00	126.00
Rated power input		kW	19.26	20.45	22.73	25	25.98	27.12	29.71	32.31
Rated energy performance coefficient		COP1	4.28	4.40	4.18	4.00	4.08	4.13	4.01	3.90
Electrical data										
Power supply		Ph-V-Hz	3Ph-380~415V-50Hz							
Rated current	Cooling	A	32.30	35.20	40.00	44.80	45.20	45.20	49.50	53.80
	Heating	A	31.50	33.40	37.10	40.80	42.00	43.80	48.00	52.20
Maximum current		A	52.10	64.00	64.00	64.00	80.40	80.40	80.40	80.40
Refrigerant circuit data										
Refrigerant ²		type (GWP)	R410A (2088)							
Q.ty of refrigerant pre-charge ³ (tons of CO2 equivalent)		kg	22.5 (46.980)	23 (48.024)	23 (48.024)	23 (48.024)	23 (48.024)	23 (48.024)	23 (48.024)	23 (48.024)
Piping diameter ⁴	Liquid	inch (mm)	5/8" (15.88)	5/8" (15.88)	5/8" (15.88)	5/8" (15.88)	5/8" (15.88)	5/8" (15.88)	3/4" (19.05)	3/4" (19.05)
	Gas	inch (mm)	1-1/4" (31.75)	1-1/4" (31.75)	1-1/4" (31.75)	1-1/4" (31.75)	1-1/4" (31.75)	1-1/2" (38.1)	1-1/2" (38.1)	1-1/2" (38.1)
	Oil balancing	inch (mm)	3/8" (9.52)	3/8" (9.52)	3/8" (9.52)	3/8" (9.52)	3/8" (9.52)	3/8" (9.52)	3/8" (9.52)	3/8" (9.52)
Product specifications										
Dimensions	HxLxD	mm	2052x2700x720	2052x2700x720	2052x2700x720	2052x2700x720	2052x2700x720	2052x2700x720	2052x2700x720	2052x2700x720
Net weight		kg	620	664	664	664	756	756	756	756
Connectable indoor units ⁵	Min ~ Max	nb.	2 ~ 78	2 ~ 80	2 ~ 80	2 ~ 80	2 ~ 80	2 ~ 80	2 ~ 80	2 ~ 80
	Capacity	%	50 ~ 160	50 ~ 160	50 ~ 160	50 ~ 160	50 ~ 160	50 ~ 130	50 ~ 130	50 ~ 130

1. Value measured according to the harmonised standard EN 14511. 2. Refrigerant leakage contributes to climate change. When released into the atmosphere, refrigerants with a lower global warming potential (GWP) contribute less to global warming than those with a higher GWP. This appliance contains a refrigerant with a GWP of 2088. If 1 kg of this refrigerant fluid were released into the atmosphere, therefore, the impact on global warming would be 2088 times higher than 1 kg of CO₂, over a period of 100 years. Under no circumstances should the user try to intervene on the refrigerant circuit or disassemble the product. Always contact qualified personnel if necessary. 3. For the calculation of the additional refrigerant charge, refer to the labels positioned inside and outside the unit. 4. The diameters indicated refer to the section up to the first junction, with an equivalent length of less than 90 m. 5. When connecting indoor units of type FDK, FDFL, FDFU or FDFW the upper limit is always 130%.

KXZ2

CONNECT UP TO 80 INDOOR UNITS/130% CAPACITY

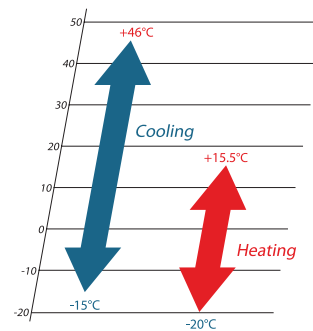
- FDC 1200 KXZE2 (FDC 400+FDC 400+FDC 400) 120.0 kW
- FDC 1250 KXZE2 (FDC 400+FDC 400+FDC 450) 125.0 kW
- FDC 1300 KXZE2 (FDC 400+FDC 450+FDC 450) 130.0 kW
- FDC 1350 KXZE2 (FDC 450+FDC 450+FDC 450) 135.0 kW
- FDC 1425 KXZE2 (FDC 475+FDC 475+FDC 475) 142.5 kW

- FDC 1450 KXZE2 (FDC 475+FDC 475+FDC 500) 145.0 kW
- FDC 1500 KXZE2 (FDC 500+FDC 500+FDC 500) 150.0 kW
- FDC 1560 KXZE2 (FDC 500+FDC 500+FDC 560) 156.0 kW
- FDC 1620 KXZE2 (FDC 500+FDC 560+FDC 560) 162.0 kW
- FDC 1680 KXZE2 (FDC 560+FDC 560+FDC 560) 168.0 kW

FEATURES

- Maximum energy efficiency: COP 4.40 and EER 3.64 [42 HP]
- Only DC Inverter compressors
- High splitting distance: up to 1000 m in total and with a max. distance between the O.U. and the further I.U. of 160 m
- Up to 85 Pa fan static pressure

OPERATING RANGE



42~60HP
(120.0~168.0 kW)

COMBINATIONS

Outdoor unit model			FDC 1200 KXZE2	FDC 1250 KXZE2	FDC 1300 KXZE2	FDC 1350 KXZE2	FDC 1425 KXZE2	FDC 1450 KXZE2	FDC 1500 KXZE2	FDC 1560 KXZE2	FDC 1620 KXZE2	FDC 1680 KXZE2		
Combinations			FDC 400 KXZE2	FDC 400 KXZE2	FDC 400 KXZE2	FDC 450 KXZE2	FDC 475 KXZE2	FDC 475 KXZE2	FDC 500 KXZE2	FDC 500 KXZE2	FDC 560 KXZE2	FDC 560 KXZE2		
Power class			HP	42	44	46	48	50	52	54	56	58	60	
Rated capacity			kW	120.00	125.00	130.00	135.00	142.50	145.00	150.00	156.00	162.00	168.00	
Rated power input			kW	32.94	35.94	38.93	41.93	41.91	41.95	42.03	45.52	49.01	52.50	
Rated energy efficiency coefficient			EER ¹	3.64	3.48	3.34	3.22	3.40	3.46	3.57	3.43	3.31	3.20	
Rated capacity			kW	135.00	140.00	145.00	150.00	159.00	162.00	168.00	175.00	182.00	189.00	
Rated power input			kW	30.68	32.95	35.23	37.50	38.97	39.54	40.68	43.27	45.87	48.46	
Rated energy performance coefficient			COP ¹	4.40	4.25	4.12	4.00	4.08	4.10	4.13	4.04	3.97	3.90	
Electrical data														
Power supply			Ph-V-Hz	3Ph-380~415V-50Hz										
Rated current			Cooling	A	52.80	57.60	62.40	67.20	67.80	67.80	72.10	76.40	80.70	
			Heating	A	50.10	53.80	57.50	61.20	63.00	63.90	65.70	69.90	74.10	78.30
Maximum current			A	96.00	96.00	96.00	96.00	120.60	120.60	120.60	120.60	120.60	120.60	
Refrigerant circuit data														
Refrigerant ²			type (GWP)	R410A (2088)										
Q.ty of refrigerant pre-charge ³ (tons of CO ₂ equivalent)			kg	34.5 (72.036)	34.5 (72.036)	34.5 (72.036)	34.5 (72.036)	34.5 (72.036)	34.5 (72.036)	34.5 (72.036)	34.5 (72.036)	34.5 (72.036)		
Piping diameter ⁴			inch (mm)	Liquid	3/4" (19.05)	3/4" (19.05)	3/4" (19.05)	3/4" (19.05)	3/4" (19.05)	3/4" (19.05)	3/4" (19.05)	3/4" (19.05)		
				Gas	1-1/2" (38.1)	1-1/2" (38.1)	1-1/2" (38.1)	1-1/2" (38.1)	1-1/2" (38.1)	1-1/2" (38.1)	1-1/2" (38.1)	1-1/2" (38.1)	1-1/2" (38.1)	
				Oil balancing	3/8" (9.52)	3/8" (9.52)	3/8" (9.52)	3/8" (9.52)	3/8" (9.52)	3/8" (9.52)	3/8" (9.52)	3/8" (9.52)	3/8" (9.52)	
Product specifications														
Dimensions			HxLxD	2052x4050x720										
Net weight			kg	996	996	996	996	1134	1134	1134	1134	1134		
Connectable indoor units ⁵			Min ~ Max	nb.	3 ~ 80	3 ~ 80	3 ~ 80	3 ~ 80	3 ~ 80	3 ~ 80	3 ~ 80	3 ~ 80		
			Capacity	%	50 ~ 130	50 ~ 130	50 ~ 130	50 ~ 130	50 ~ 130	50 ~ 130	50 ~ 130	50 ~ 130	50 ~ 130	

1. Value measured according to the harmonised standard EN 14511. 2. Refrigerant leakage contributes to climate change. When released into the atmosphere, refrigerants with a lower global warming potential (GWP) contribute less to global warming than those with a higher GWP. This appliance contains a refrigerant with a GWP of 2088. If 1 kg of this refrigerant fluid were released into the atmosphere, therefore, the impact on global warming would be 2088 times higher than 1 kg of CO₂, over a period of 100 years. Under no circumstances should the user try to intervene on the refrigerant circuit or disassemble the product. Always contact qualified personnel if necessary. 3. For the calculation of the additional refrigerant charge, refer to the labels positioned inside and outside the unit. 4. The diameters indicated refer to the section up to the first junction, with an equivalent length of less than 90 m. 5. When connecting indoor units of type FDK, FDFL, FDFU or FDFW the upper limit is always 130%.