

KXZ2 VRF-T SYSTEM

The best solution for the air conditioning of “sophisticated” buildings

High air conditioning performance for all business environments. Comfort and energy efficiency, system flexibility, intuitive and customisable controls, as well as even simpler maintenance and management.



10~12HP
(28.0~33.5 kW)

14~20HP
(40.0~56.0 kW)

KXZ2

CONNECT UP TO 44 INDOOR UNITS/200% CAPACITY

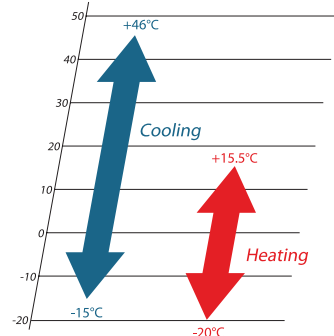
FDC 280 KXZE2 28.0 kW

FDC 335 KXZE2 33.5 kW

CHARACTERISTICS

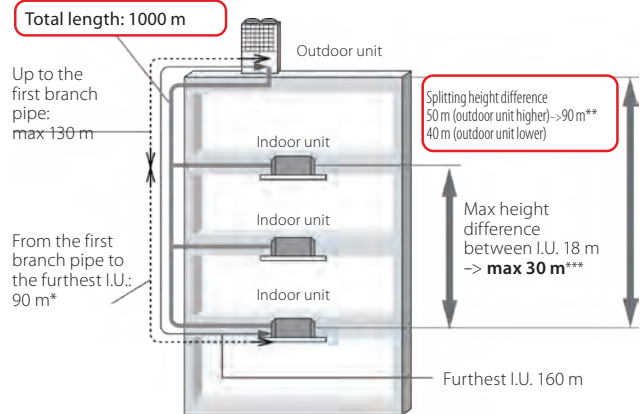
- Maximum energy efficiency COP 4.25 and EER 3.86 [10 HP]
- Only DC Inverter compressors
- High split: up to 1000 m in total and with a maximum distance between the O.U. and the furthest I.U. of 160 m
- Up to 85 Pa prevalence on fans

OPERATING RANGE



10~12HP (28.0~33.5 kW)

INSTALLATION DIAGRAM



* With difference of length between the farthest 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.

Models			FDC280KXZE2	FDC335KXZE2
Rated power			10	12
Nominal capacity (T=35°C)	Cooling	HP	28.00	33.50
Power consumption (T=35°C)		kW	7.25	8.98
Seasonal energy efficiency index		SEER ¹	7.30	7.54
Rated energy efficiency coefficient		EER ²	3.86	3.73
Nominal capacity (T=7°C)	Heating	kW	31.50	37.50
Power consumption (T=7°C)		kW	7.41	9.03
Seasonal energy efficiency index		SCOP ¹	4.88	4.68
Rated energy efficiency coefficient		COP ²	4.25	4.15
Electrical data				
Power		Ph-V-Hz	3Ph-380~415V-50Hz	
Rated current	Cooling	A	12.00	14.70
Rated current	Heating	A	12.20	14.80
Maximum current		A	20.10	20.10
Refrigerant circuit/features				
Refrigerant (GWP) ³			R410A (2088)	
Quantity refrigerant pre-load ⁴		kg	11	11
Tons of CO2 equivalent			22.968	22.968
Diameter refrigerant pipes	Liquid	inch (mm)	ø3/8" (9.52)	ø1/2" (12.7)
	Gas		ø7/8" (22.22)	ø1" (25.4)
Product Specifications				
Dimensions	LxHxD	mm	1697x1350x720	1697x1350x720
Net weight		kg	288	288
Sound pressure level	Max	dB(A)	57	63
Sound power level	Max	dB(A)	76	82
Treated air volume	Standard	m ³ /h	13500	17640
Fan static pressure	Max	Pa	85	85
Max. connectable I.U. ⁵	Min ~ Max	no	1 ~ 37	1 ~ 44
	Capacity	%	50 ~ 200	50 ~ 200

1. EU Regulation No. 206/2012 - N.2281/2016 - Value measured according to the harmonised standard EN 14825. 2. Value measured according to the harmonised standard EN 14511. 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, FDFL, FDFU or FDFW the upper limit is always 130%.

KXZ2

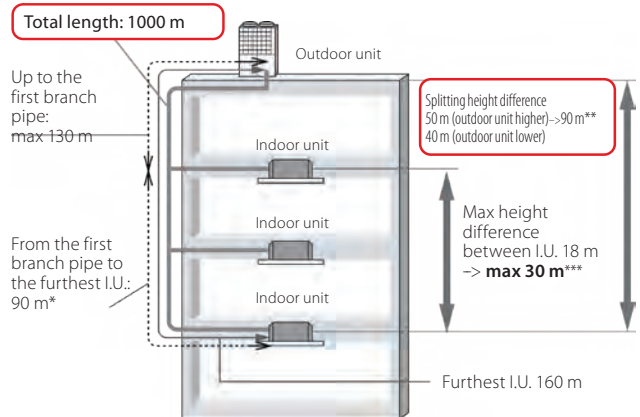
CONNECT UP TO 59 INDOOR UNITS/160%
(FDC 400~450 KXZE2 200%) CAPACITY

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

CHARACTERISTICS

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

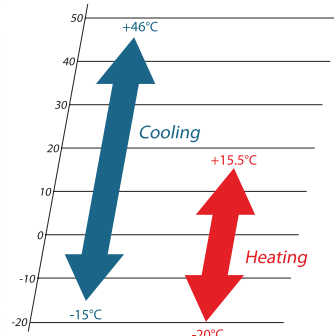
INSTALLATION DIAGRAM



* With difference of length between the farthest 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.



OPERATING RANGE



14~20HP (40.0~56.0 kW)

Models			FDC400KXZE2	FDC450KXZE2	FDC475KXZE2	FDC500KXZE2	FDC560KXZE2
Rated power		HP	14	16	17	18	20
Nominal capacity (T=35°C)	Cooling	kW	40.00	45.00	47.50	50.00	56.00
Power consumption (T=35°C)		kW	10.98	13.98	13.97	14.01	17.50
Seasonal energy efficiency index		SEER ¹	7.12	7.01	6.84	7.29	6.73
Rated energy efficiency coefficient		EER ²	3.64	3.22	3.40	3.57	3.20
Nominal capacity (T=7°C)	Heating	kW	45.00	50.00	53.00	56.00	63.00
Power consumption (T=7°C)		kW	10.23	12.50	12.99	13.56	16.15
Seasonal energy efficiency index		SCOP ¹	4.87	4.36	4.45	4.58	4.30
Rated energy efficiency coefficient		COP ²	4.40	4.00	4.08	4.13	3.90
Electrical data							
Power		Ph-V-Hz	3Ph-380~415V-50Hz				
Rated current	Cooling	A	17.60	22.40	22.60	22.60	26.90
Rated current	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/features							
Refrigerant (GWP) ³			R410A (2088)				
Quantity refrigerant pre-load ⁴		kg	11.5	11.5	11.5	11.5	11.5
Tons of CO2 equivalent			24.012	24.012	24.012	24.012	24.012
Diameter refrigerant pipes	Liquid	inch (mm)	ø1/2" (12.7)	ø1/2" (12.7)	ø1/2" (12.7)	ø1/2" (12.7)	ø1/2" (12.7)
	Gas		ø1" (25.4)	ø1-1/8" (28.58)	ø1-1/8" (28.58)	ø1-1/8" (28.58)	ø1-1/8" (28.58)
Product Specifications							
Dimensions	LxHxD	mm	2052x1350x720	2052x1350x720	2052x1350x720	2052x1350x720	2052x1350x720
Net weight		kg	332	332	378	378	378
Sound pressure level	Max	dB(A)	62	62	61	62	64
Sound power level	Max	dB(A)	82	82	81	82	83
Treated air volume	Standard	m ³ /h	18240	18240	18000	18000	18000
Fan static pressure	Max	Pa	85	85	85	85	85
Max. connectable I.U. ⁵	Min ~ Max	no	1 ~ 53	1 ~ 60	1 ~ 50	1 ~ 53	1 ~ 59
	Capacity	%	50 ~ 200	50 ~ 200	50 ~ 160	50 ~ 160	50 ~ 160

1. EU Regulation No. 206/2012 - N.2281/2016 - Value measured according to the harmonised standard EN 14825. 2. Value measured according to the harmonised standard EN 14511. 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

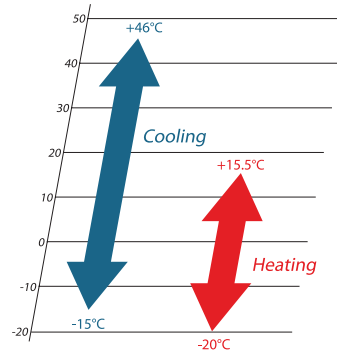
FDC 615 KXZE2 (FDC 280+FDC 335) 61.5 kW

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

CHARACTERISTICS

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

OPERATING RANGE



22~24HP
(61.5~67.0 kW)

COMBINATIONS

Models			FDC615KXZE2	FDC670KXZE2	
Combinations			FDC280KXZE2	FDC335KXZE2	
			FDC335KXZE2	FDC335KXZE2	
			-	-	
Rated power			22	24	
Nominal capacity (T=35°C)			61.50	67.00	
Power consumption (T=35°C)			16.24	17.96	
Rated energy efficiency coefficient			3.79	3.73	
Nominal capacity (T=7°C)			69.00	75.00	
Power consumption (T=7°C)			16.44	18.06	
Rated energy efficiency coefficient			4.20	4.15	
Electrical data					
Power			3Ph-380~415V-50Hz		
Rated current		Cooling	A	26.70	
Rated current		Heating	A	27.00	
Maximum current		A	A	40.20	
Refrigerant circuit/features					
Refrigerant (GWP) ²			R410A (2088)		
Quantity refrigerant pre-load ³			kg	22	
Tons of CO2 equivalent				45.936	
Diameter refrigerant pipes ⁴			Liquid	inch (mm)	ø1/2" (12.7)
			Gas		ø1-1/8" (28.58)
			Oil balancing		ø3/8" (9.52)
Product Specifications					
Dimensions			LxHxD	mm	1697x2700x720
Net weight				kg	576
Max. connectable I.U. ⁵			Min ~ Max	no	2 ~ 65
			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%)

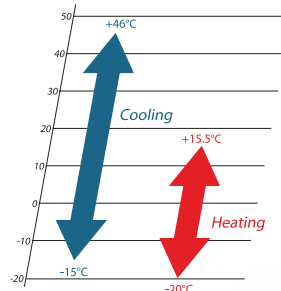
FDC 735 KXZE2 (FDC 335+FDC 400) 73.5 kW
FDC 800 KXZE2 (FDC 400+FDC 400) 80.0 kW
FDC 850 KXZE2 (FDC 400+FDC 450) 85.0 kW
FDC 900 KXZE2 (FDC 450+FDC 450) 90.0 kW

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

CHARACTERISTICS

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

OPERATING RANGE



26HP (73.5)



28~40HP (80~112.0 kW)

COMBINATIONS

Models			FDC735KXZE2	FDC800KXZE2	FDC850KXZE2	FDC900KXZE2	FDC950KXZE2	FDC1000KXZE2	FDC1060KXZE2	FDC1120KXZE2		
Combinations			FDC335KXZE2 FDC400KXZE2	FDC400KXZE2 FDC400KXZE2	FDC400KXZE2 FDC450KXZE2	FDC450KXZE2 FDC450KXZE2	FDC475KXZE2 FDC475KXZE2	FDC500KXZE2 FDC500KXZE2	FDC500KXZE2 FDC560KXZE2	FDC560KXZE2 FDC560KXZE2		
Rated power			HP	26	28	30	32	34	36	38	40	
Nominal capacity (T=35°C)			Cooling	kW	73.50	80.00	85.00	90.00	95.00	100.00	106.00	112.00
Power consumption (T=35°C)				kW	19.96	21.96	24.96	27.95	27.94	28.02	31.51	35.00
Rated energy efficiency coefficient				EER ¹	3.68	3.64	3.41	3.22	3.40	3.57	3.36	3.20
Nominal capacity (T=7°C)			Heating	kW	82.50	90.00	95.00	100.00	106.00	112.00	119.00	126.00
Power consumption (T=7°C)				kW	19.26	20.45	22.73	25.00	25.98	27.12	29.71	32.31
Rated energy efficiency coefficient				COP ¹	4.28	4.40	4.18	4.00	4.08	4.13	4.01	3.90
Electrical data			3Ph-380~415V-50Hz									
Power			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
Rated current			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	80.40
Refrigerant circuit/features			R410A (2088)									
Refrigerant (GWP) ²			R410A (2088)									
Quantity refrigerant pre-load ³			kg	22.5	23	23	23	23	23	23	23	23
Tons of CO2 equivalent				46.980	48.024	48.024	48.024	48.024	48.024	48.024	48.024	48.024
Diameter refrigerant pipes ⁴			inch (mm)	Liquid	ø5/8" (15.88)	ø5/8" (15.88)	ø5/8" (15.88)	ø5/8" (15.88)	ø5/8" (15.88)	ø5/8" (15.88)	ø3/4" (19.05)	ø3/4" (19.05)
				Gas	ø1-1/4" (31.75)	ø1-1/4" (31.75)	ø1-1/4" (31.75)	ø1-1/4" (31.75)	ø1-1/4" (31.75)	ø1-1/2" (38.1)	ø1-1/2" (38.1)	ø1-1/2" (38.1)
				Oil balancing	ø3/8" (9.52)	ø3/8" (9.52)	ø3/8" (9.52)	ø3/8" (9.52)	ø3/8" (9.52)	ø3/8" (9.52)	ø3/8" (9.52)	ø3/8" (9.52)
Product Specifications												
Dimensions			LxHxD	mm	2052x2700x720	2052x2700x720	2052x2700x720	2052x2700x720	2052x2700x720	2052x2700x720	2052x2700x720	2052x2700x720
Net weight			kg	620	664	664	664	756	756	756	756	
Max. connectable I.U. ⁵			Min ~ Max	no	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

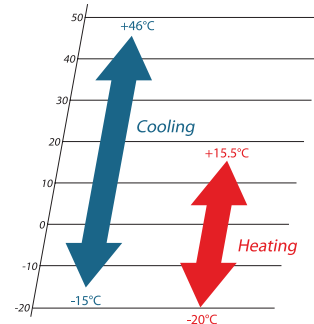
FDC 1200 KXZE2 (FDC 400+FDC 400+FDC 400) 120.0 kW
 FDC 1250 KXZE2 (FDC 400+FDC 400+FDC 450) 125.0 kW
 FDC 1300 KXZE2 (FDC 400+FDC 450+FDC 450) 130.0 kW
 FDC 1350 KXZE2 (FDC 450+FDC 450+FDC 450) 135.0 kW
 FDC 1425 KXZE2 (FDC 475+FDC 475+FDC 475) 142.5 kW

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

CHARACTERISTICS

- Maximum energy efficiency COP 4.40 and EER 3.64 [42 HP]
- Only DC Inverter compressors
- High split: up to 1000 m in total and with a maximum distance between the O.U. and the furthest I.U. of 160 m
- Up to 85 Pa prevalence on fans

OPERATING RANGE



42~60HP
(120,0~168,0 kW)

COMBINATIONS

Models			FDC1200KXZE2	FDC1250KXZE2	FDC1300KXZE2	FDC1350KXZE2	FDC1425KXZE2	FDC1450KXZE2	FDC1500KXZE2	FDC1560KXZE2	FDC1620KXZE2	FDC1680KXZE2	
Combinations			FDC400KXZE2	FDC400KXZE2	FDC400KXZE2	FDC450KXZE2	FDC475KXZE2	FDC475KXZE2	FDC500KXZE2	FDC500KXZE2	FDC500KXZE2	FDC560KXZE2	
			FDC400KXZE2	FDC450KXZE2	FDC450KXZE2	FDC450KXZE2	FDC475KXZE2	FDC475KXZE2	FDC500KXZE2	FDC500KXZE2	FDC560KXZE2	FDC560KXZE2	
Rated power			HP	42	44	46	48	50	52	54	56	60	
Nominal capacity (T=35°C)			Cooling	kW	120.00	125.00	130.00	135.00	142.50	145.00	156.00	162.00	
Power consumption (T=35°C)				kW	32.94	35.94	38.93	41.93	41.91	41.95	42.03	45.52	49.01
Rated energy efficiency coefficient				EER ¹	3.64	3.48	3.34	3.22	3.40	3.46	3.57	3.43	3.31
Nominal capacity (T=7°C)			Heating	kW	135.00	140.00	145.00	150.00	159.00	162.00	175.00	182.00	
Power consumption (T=7°C)				kW	30.68	32.95	35.23	37.50	38.97	39.54	40.68	43.27	
Rated energy efficiency coefficient				COP ¹	4.40	4.25	4.12	4.00	4.08	4.10	4.13	4.04	
Electrical data			Ph-V-Hz	3Ph-380~415V-50Hz									
Rated current			Cooling	A	52.80	57.60	62.40	67.20	67.80	67.80	67.80	72.10	76.40
Rated current			Heating	A	50.10	53.80	57.50	61.20	63.00	63.90	65.70	69.90	74.10
Maximum current			A	96.00	96.00	96.00	96.00	120.60	120.60	120.60	120.60	120.60	
Refrigerant circuit/features			R410A (2088)										
Refrigerant (GWP) ²			R410A (2088)										
Quantity refrigerant pre-load ³			kg	34.5	34.5	34.5	34.5	34.5	34.5	34.5	34.5	34.5	
Tons of CO ₂ equivalent				72.036	72.036	72.036	72.036	72.036	72.036	72.036	72.036	72.036	
Diameter refrigerant pipes ⁴			Liquid	ø3/4" (19.05)									
			Gas	ø1-1/2" (38.1)									
			Oil balancing	ø3/8" (9.52)									
Product Specifications													
Dimensions			LxHxD	2052x4050x720									
Net weight			kg	996	996	996	996	1134	1134	1134	1134	1134	
Max. connectable I.U. ⁵			Min ~ Max	no	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	

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%.