MICRO COMPACT

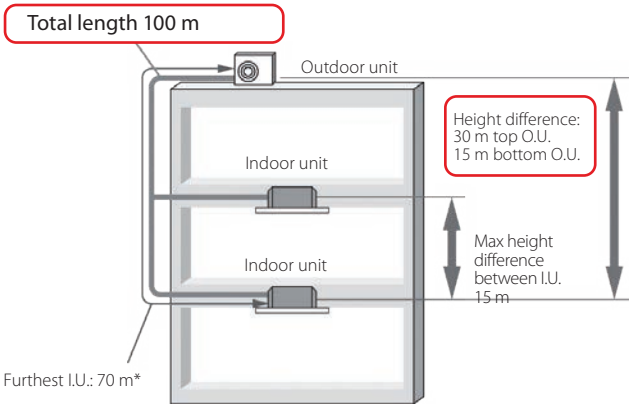
CONNECT UP TO 10 INDOOR UNITS/150% CAPACITY

FDC 121 KXZEN1/ZES1 12.1 kW single-phase/three-phase
FDC 140 KXZEN1/ZES1 14.0 kW single-phase/three-phase
FDC 155 KXZEN1/ZES1 15.5 kW single-phase/three-phase

CHARACTERISTICS

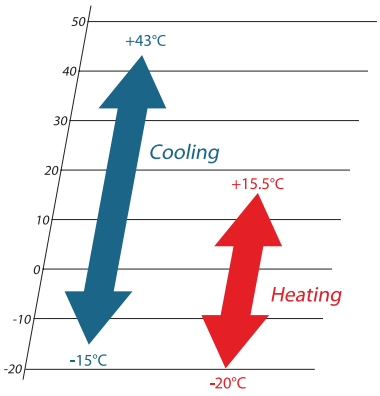
- Maximum energy efficiency COP 3.92 (4HP)
- Scroll DC Inverter compressor on all units
- DC Inverter fan motors
- 4 sound levels in Silent mode
- New PCB cooling system: a refrigerant pipe branch passes to the base of the PCB to prevent overheating
- **Can connect 1.5 kW indoor units**
- New system for managing indoor unit priorities
- Pump down" safety function: to identify any gas leaks inside the room (third-party sensor) and start up the refrigerant recall procedure by the outdoor unit, present inside the system

INSTALLATION DIAGRAM



* The total length of piping, liquid side ø9.52 mm (3/8") should be 50 m or less.

OPERATING RANGE

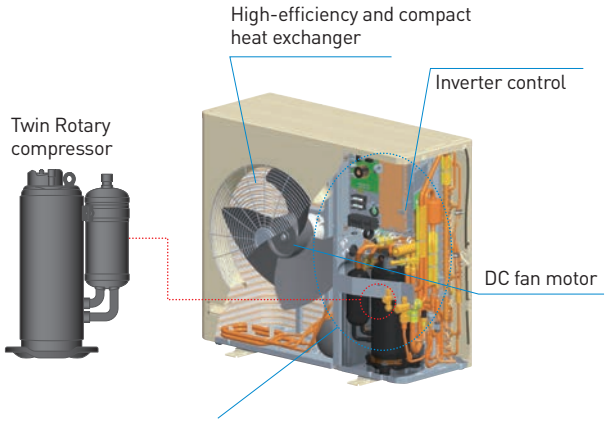


I.U. NUMBER INCREASED CONNECTABLE

	KXE6	NEW KXZ
4HP	6 units	→ 8 units
5HP	8 units	→ 10 unit[1]
6HP	8 units	→ 10 unit[2]

1. max capacity <=100% with 9 or 10 connected units
2. max capacity <=100% with 9 or 10 connected units

HIGH EFFICIENCY OF OUTDOOR UNITS 4~6HP



Optimal coolant control system, advanced liquid return control, high-speed control system with Superlink, and optimised coolant distribution.

MICRO COMPACT

4-6HP (12.1~15.5 kW)

BLUE FIN

REFRIGERANT CONNECTIONS

HP		4	5	6
Liquid side	Furthest I.U. =<70 m	ø 9.52 (3/8")		
Gas side		ø 15.88 (5/8")		

BRANCH PIPES

DIS-22-1B
DIS-180-1B

MANIFOLDS

HEAD4-22-1B
HEAD6-180-1B

Models			FDC121KXZEN1	FDC140KXZEN1	FDC155KXZEN1	FDC121KXZES1	FDC140KXZES1	FDC155KXZES1
Rated power		HP	4	5	6	4	5	6
Nominal capacity (T=35°C)	Cooling	kW	12.10	14.00	15.50	12.10	14.00	15.50
Power consumption (T=35°C)		kW	3.16	3.96	5.20	3.16	3.96	5.20
Seasonal energy efficiency index		SEER[1]	8.15	7.73	7.21	8.15	7.73	7.21
Rated energy efficiency coefficient		EER[2]	3.83	3.54	2.98	3.83	3.54	2.98
Nominal capacity (T=7°C)	Heating	kW	12.10	14.00	15.50	12.10	14.00	15.50
Power consumption (T=7°C)		kW	3.09	3.66	4.28	3.09	3.66	4.28
Seasonal energy efficiency index		SCOP[1]	4.63	4.59	4.55	4.63	4.59	4.55
Rated energy efficiency coefficient		COP[2]	3.92	3.83	3.62	3.92	3.83	3.62
Electrical data								
Power		Ph-V-Hz	1Ph-220~240V-50Hz			3Ph-380~415V-50Hz		
Rated current	Cooling	A	15.30	19.60	25.70	5.20	6.50	8.60
Rated current	Heating	A	15.20	18.30	21.40	5.10	6.10	7.10
Maximum current		A	28.00	28.00	28.00	13.50	13.50	13.50
Refrigerant circuit/features								
Refrigerant (GWP)[3]			R410A (2088)					
Quantity refrigerant pre-load		kg	5	5	5	5	5	5
Tons of CO2 equivalent			10.440	10.440	10.440	10.440	10.440	10.440
Diameter refrigerant pipes	Liquid	inch (mm)	ø3/8" (9.52)	ø3/8" (9.52)	ø3/8" (9.52)	ø3/8" (9.52)	ø3/8" (9.52)	ø3/8" (9.52)
	Gas		ø5/8" (15.88)	ø5/8" (15.88)	ø5/8" (15.88)	ø5/8" (15.88)	ø5/8" (15.88)	ø5/8" (15.88)
Product Specifications								
Dimensions	LxHxD	mm	845x970x370	845x970x370	845x970x370	845x970x370	845x970x370	845x970x370
Net weight		kg	85	85	85	87	87	87
Sound pressure level	Max	dB(A)	56	57	57	56	57	57
Sound power level	Max	dB(A)	72	72	74	72	72	74
Treated air volume	Standard	m³/h	4500	4500	4500	4500	4500	4500
Fan static pressure	Max	Pa	-	-	-	-	-	-
Max. connectable I.U.	**Min ~ Max**	**no**	**1 ~ 8**	**1 ~ 10***	**1 ~ 10***	**1 ~ 8**	**1 ~ 10***	**1 ~ 10***
	Capacity	**%**	**80 ~ 150**	**80 ~ 150**	**80 ~ 150**	**80 ~ 150**	**80 ~ 150**	**80 ~ 150**

* With limitations on maximum connectivity.

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.