

DUCTS

→ General Characteristics

The duct type units include a tilted evaporator; it provides a wider exchange area and a compact and reduced height, which facilitates the unit installation in rooms where ceiling is just 241 mm high. Similar characteristics to direct expansion ducts, except that it does not have a condensate pump. In the standard unit, with air impulsion facing the user, the hydraulic connections are in the left side.

- Coil with 3 rows.
- Plate to support duct during suction/discharge.
- DC Inverter fan (depending to the model).
- Removable filter without opening the duct unit case.
- Replaceable outlet panel (rear/lower).
- Fresh air supply.
- Available pressure 12/30/50 Pa.
- Standard extended drainage pan on the left-hand side.
- Optional left/right pipework kit.
- Optional three-way valve.
- Optional ON/OFF valve driver.



KC-FCD2
Recommended thermostat

CONTROLLERS COMPATIBLE WITH THE INTERFACE TO KAYSUN CONTROLLER

INDIVIDUAL WIRELESS	INDIVIDUAL WIRED	CENTRALISED	BMS INTEGRATION SYSTEMS		WIFI CONTROL
KID-05 S KI-04 S	KC-FC-2T KC-FC-4T KC-FCD2 FC-FCD2-M	KCCT-64 I (B)	K02-MODBUS K01-MODBUS 1 K01-MODBUS 4 K01-MODBUS 8 K01-MODBUS 32	K01-LON K01-KNX 1 K01-KNX 16 K01-KNX 64 K01-BACNET	K01-WIFI

For further information, please see our Controllers range.

ACCESSORIES	
Thermostat for 2 pipes units	KC-FC-2T
Thermostat for 4 pipes units	KC-FC-4T
Thermostat with display for 2 pipe units	KC-FCD2
Thermostat with display for 4 pipe units	KC-FCD2-M
Interface to Kaysun control for 2 pipe units	K01-FC-2T
Interface to Kaysun control for 4 pipe units	K01-FC-4T
Pipework kit for 2 pipes Ducts Fancoils	KIT TUB FC PD-2T-1
Pipework kit for 4 pipes Ducts Fancoils	KIT TUB FC PD-4T-1
3-way valve 3/4	KV3-FC 3/4
ON/OFF Actuator	KACT-0



→ Technical Specifications

2 PIPES

MODEL		KFC-PD-2T-200D	KFC-PD-2T-300D	KFC-PD-2T-400D	KFC-PD-2T-600D	KFC-PD-2T-800D	KFC-PD-2T-1000D	KFC-PD-2T-1200D	
Capacity	Cooling min./max.	kW	1.32 / 2.35	2.1 / 3.12	2.5 / 3.99	3.78 / 5.85	5.08 / 8.02	5.66 / 8.96	6.79 / 10.79
	Sensitive cooling min./max.	kW	0.9 / 1.75	1.49 / 2.53	1.8 / 3.1	2.7 / 4.49	3.64 / 6.19	4.21 / 7.33	5.04 / 8.84
	heating min./max.	kW	1.42 / 2.68	2.28 / 3.82	2.77 / 4.7	4 / 6.62	5.58 / 9.15	6.35 / 10.74	7.47 / 12.62
Power input		W	6	7	9	12	16	19	21
Power input max.		W	17	20	26	49	60	96	106
Indoor unit	Air flow low/medium/high	m ³ /h	205 / 273 / 411	311 / 442 / 596	389 / 564 / 734	544 / 760 / 1022	781 / 1038 / 1452	906 / 1332 / 1824	1083 / 1581 / 2134
	Sound pressure low/medium/high	dB(A)	23 / 28 / 38	21 / 30 / 36	24 / 32 / 38	30 / 39 / 46	28 / 36 / 45	31 / 41 / 48	32 / 42 / 49
	Max. pressure available	Pa	50	50	50	50	50	50	50
	Width/height/depth	mm	741 / 241 / 522	841 / 241 / 522	941 / 241 / 522	1161 / 241 / 522	1461 / 241 / 522	1566 / 241 / 522	1566 / 241 / 522
	Net weight	kg	16.7	19	21	23.7	33	34.7	39.2
	Power supply	V/ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
Hydraulic system	Water flow cooling min./max.	m ³ /h	0.25 / 0.43	0.37 / 0.6	0.43 / 0.69	0.65 / 1.05	0.89 / 1.42	0.98 / 1.59	1.2 / 1.93
	Water pipe connections	inch	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
Evaporator pressure drop	Cooling min./max.	kPa	6.3 / 13.6	11.3 / 23.8	5.8 / 13	14.2 / 31.4	13.9 / 31.6	10.8 / 24.1	12.8 / 26.3
	Heating min./max.	kPa	4.9 / 12.6	11.3 / 25	6.2 / 13	13.6 / 31.7	13.9 / 32.9	12 / 28.3	11.9 / 29.4

4 PIPES

MODEL		KFC-PD-4T-200D	KFC-PD-4T-300D	KFC-PD-4T-500D	KFC-PD-4T-600D	KFC-PD-4T-800D	
Capacity	Cooling min./max.	kW	0.8 / 1.4	1.5 / 2.2	1.9 / 3	2.5 / 4.2	3.1 / 5.3
	Sensitive cooling min./max.	kW	0.58 / 1.02	1.1 / 1.61	1.39 / 2.2	1.82 / 3.1	2.26 / 3.87
	heating min./max.	kW	1.23 / 2.3	2.2 / 3.08	2.84 / 3.62	3.51 / 5.57	4.41 / 6.3
Power input		W	5	8	10	11	14
Power input max.		W	16	21	36	45	57
Indoor unit	Air flow low/medium/high	m ³ /h	140 / 210 / 320	280 / 340 / 450	370 / 470 / 690	440 / 670 / 900	670 / 840 / 1240
	Sound pressure low/medium/high	dB(A)	26 / 32 / 36	26 / 33 / 37	28 / 35 / 58	29 / 36 / 39	30 / 37 / 41
	Max. pressure available	Pa	50	50	50	50	50
	Width/height/depth	mm	741 / 241 / 522	841 / 241 / 522	941 / 241 / 522	1161 / 241 / 522	1461 / 241 / 522
	Net weight	kg	17.2	19.5	21.5	24.2	33.5
	Power supply	V/ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
Hydraulic system	Water flow cooling min./max.	m ³ /h	0.16 / 0.27	0.23 / 0.38	0.34 / 0.54	0.45 / 0.73	0.58 / 0.93
	Water flow heating min./max.	m ³ /h	0.11 / 0.2	0.19 / 0.27	0.25 / 0.32	0.31 / 0.49	0.38 / 0.55
	Water pipes connection cooling/heating	inch	3/4" / 1/2"	3/4" / 1/2"	3/4" / 1/2"	3/4" / 1/2"	3/4" / 1/2"
Evaporator pressure drop	Cooling min./max.	kPa	4.7 / 10.2	5 / 10.5	6 / 13.6	6.9 / 15.3	5.6 / 12.8
	Heating min./max.	kPa	3.6 / 8.9	4 / 9.1	5.2 / 11.7	19 / 42.8	5.3 / 12

The product complies with the European Directive ErP (Energy Related Products), which includes the Commission Delegated Regulation (EU) N° 2016/2281, also known as Ecodesign LOT21. Airflow without ducts (0 Pa pressure available).

Cooling capacity, Sensitive cooling capacity, Water flow cooling, Evaporator pressure drop cooling: Water in inlet exchanger 7°C (thermal jump 5°C) - Ambient air 27°C DB/19°C WB.

2 PIPES: Heating capacity, Evaporator pressure drop heating: Water in inlet exchanger 45°C (thermal jump 5°C) - Ambient air 20°C.

4 PIPES: Heating capacity, Water flow heating, Water pipes connection cooling/heating, Evaporator pressure drop heating: Water in inlet exchanger 65°C (thermal jump 10°C) - Ambient air 20°C.

Sound pressure: Sound levels measured in an anechoic chamber and referred to unit for 2-pipe installation. Sound pressure level has been measured at 1 m distance from the external surface of the unit in open field operation.