

FDEN Ceiling suspended inverter

- All new inverter heat pump systems
- Slim, compact & lightweight design
- Low noise levels
- Wired or infra red control options



INDOOR UNIT		FDEN40VD	FDEN50VD	FDEN60VD	FDEN71VD	FDEN100VD	FDEN100VD	FDEN125VD
OUTDOOR UNIT		SRC40ZIX-S	SRC50ZIX-S	SRC60ZIX-S	FDC71VN	FDC100VN	FDC100VS (3 phase)	FDC125VN
WIRED CONTROLLER		RC-E4	RC-E4	RC-E4	RC-E4	RC-E4	RC-E4	RC-E4
Cooling (Nominal)	kW	4.0	5.0	5.6	7.1	10.0	10.0	12.5
Cooling Range	kW	1.8 to 4.7	2.2 to 5.6	2.8 to 6.3	3.2 to 8.0	4.0 to 11.2	4.0 to 11.2	5.0 to 14.0
UK Cooling	kW	3.8	4.8	5.4	6.7	9.4	9.4	11.8
UK Sensible Cooling	kW	3.0	3.3	4.6	5.1	6.8	6.8	8.2
E.E.R (Energy Label)		3.85 (A)	3.14 (B)	2.87 (C)	3.36 (A)	3.51 (A)	3.51 (A)	2.80 (D)
Heating (Nominal)	kW	4.5	5.4	6.7	8.0	11.2	11.2	14.0
Heating Range	kW	2.0 to 5.4	2.5 to 6.3	3.1 to 7.1	3.6 to 9.0	4.0 to 12.5	4.0 to 12.5	4.0 to 16.0
C.O.P (Energy Label)		3.98 (A)	3.42 (B)	3.16 (D)	3.79 (A)	3.77 (A)	3.77 (A)	3.43 (B)
Operating Range (Outdoor Air) Cooling	°C DB	-15 to 43						
Operating Range (Outdoor Air) Heating	°C WB	-15 to 24						

INDOOR UNIT								
Exterior Dimensions (H x W x D)	mm	210 x 1070 x 690	210 x 1070 x 690	210 x 1320 x 690	210 x 1320 x 690	250 x 1620 x 690	250 x 1620 x 690	250 x 1620 x 690
Net Weight	kg	28	28	37	37	49	49	49
Air Volume (L - M - H)	m3/s	0.12 - 0.15 - 0.18	0.12 - 0.15 - 0.18	0.20 - 0.23 - 0.30	0.20 - 0.23 - 0.30	0.35 - 0.38 - 0.43	0.35 - 0.38 - 0.43	0.38 - 0.43 - 0.48
Sound Pressure Level* (L / M / H)	dB(A)	37 / 38 / 39	37 / 38 / 39	38 / 39 / 41	38 / 39 / 41	39 / 41 / 44	39 / 41 / 44	43 / 44 / 46

OUTDOOR UNIT								
Exterior Dimensions (H x W x D)	mm	640 x 800(+71) x 290	640 x 800(+71) x 290	640 x 800(+71) x 290	750 x 880(+88) x 340	845 x 970 x 370	845 x 970 x 370	845 x 970 x 370
Net Weight	kg	43	43	43	60	81	83	81
Sound Pressure Level	dB(A)	47	47	48	51	49	49	51

ELECTRICAL DATA								
Power Source Rating MCB	A	16	20	20	20	32	20 per phase	32
Mains Power To	Outdoor	230V/1ph/50Hz	230V/1ph/50Hz	230V/1ph/50Hz	230V/1ph/50Hz	230V/1ph/50Hz	415V/3ph/50Hz	230V/1ph/50Hz
Interconnecting Wires		3 + E	3 + E	3 + E	3 + E	3 + E	3 + E	3 + E
Running Current - Cooling	A	4.7	7.1	8.7	9.4	12.5	4.2 per phase	19.5
Running Current - Heating	A	5.1	7.0	9.4	9.4	13.0	4.3 per phase	17.9
Power Input - Cooling	kW	1.04	1.59	1.95	2.11	2.85	2.85	4.45
Power Input - Heating	kW	1.13	1.58	2.12	2.11	2.97	2.97	4.08
Start Current	A	5	5	5	5	5	5 per phase	5

INSTALLATION/REFRIGERANT								
Ref. Piping Size o.d ins (mm)	Liquid	1/4" (6.35)	1/4" (6.35)	1/4" (6.35)	3/8" (9.52)	3/8" (9.52)	3/8" (9.52)	3/8" (9.52)
	Gas	1/2" (12.7)	1/2" (12.7)	1/2" (12.7)	5/8" (15.88)	5/8" (15.88)	5/8" (15.88)	5/8" (15.88)
Ref. Max Piping Length	m	30	30	30	50	50	50	50
Vertical Height Difference (Max)								
- Outdoor Unit Above Indoor Unit	m	20	20	20	30	30	30	30
- Outdoor Unit Below Indoor Unit	m	15	15	15	15	15	15	15
Refrigerant Amount Precharged	kg	1.4	1.4	1.4	2.95	3.8	3.8	3.8
- For Pipe Length Up To	m	15	15	15	30	30	30	30
Additional Refrigerant	g/m	20	20	20	60	60	60	60

RETAIL PRICE								
Indoor Unit		£605	£614	£680	£786	£917	£917	£1,237
Outdoor Unit		£783	£948	£1,036	£1,450	£1,698	£1,698	£1,835
Wired Controller		£60	£60	£60	£60	£60	£60	£60
SYSTEM PRICE		£1,448	£1,622	£1,776	£2,296	£2,675	£2,675	£3,132



FDEN125VD	FDEN140VD	FDEN140VD
FDC125VS (3 phase)	FDC140VN	FDC140VS (3 phase)
RC-E4	RC-E4	RC-E4
12.5	14.0	14.0
5.0 to 14.0	5.0 to 14.5	5.0 to 14.5
11.8	12.7	12.7
8.2	8.5	8.5
2.80 (D)	2.41 (E)	2.41 (E)
14.0	16.0	16.0
4.0 to 16.0	4.0 to 16.5	4.0 to 16.5
3.43 (B)	3.25 (C)	3.25 (C)
	-15 to 43	
	-15 to 24	

250 x 1620 x 690	250 x 1620 x 690	250 x 1620 x 690
49	49	49
0.38 - 0.43 - 0.48	0.38 - 0.43 - 0.48	0.38 - 0.43 - 0.48
43 / 44 / 46	43 / 44 / 46	43 / 44 / 46

845 x 970 x 370	845 x 970 x 370	845 x 970 x 370
83	81	83
51	51	51

20 per phase	32	20 per phase
415V/3ph/50Hz	230V/1ph/50Hz	415V/3ph/50Hz
3 + E	3 + E	3 + E
6.8 per phase	25.6	8.6 per phase
6.3 per phase	22.1	7.2 per phase
4.45	5.80	5.80
4.08	4.92	4.92
5 per phase	5	5 per phase

3/8" (9.52)	3/8" (9.52)	3/8" (9.52)
5/8" (15.88)	5/8" (15.88)	5/8" (15.88)
50	50	50
30	30	30
15	15	15
3.8	3.8	3.8
30	30	30
60	60	60

£1,237	£1,424	£1,424
£1,835	£2,114	£2,114
£60	£60	£60
£3,132	£3,598	£3,598

TECHNICAL NOTE:

The indoor unit comes set-up for use with an IR controller. When using the RC-E4 or RCH-E3 wired controller, please disconnect the IR PCB from the AB connection on the indoor unit.

* Sound Pressure Level fan speeds: LOW/MED/HIGH measured at 1m below.