

# FDU Ducted (high static pressure) inverter

- All new inverter heat pump split system
- Bottom or rear return air option (up to 140V model)
- Slim design



INDOOR UNIT		FDU71VD	FDU100VD	FDU100VD	FDU125VD	FDU125VD	FDU140VD
<b>OUTDOOR UNIT</b>		<b>FDC71VN</b>	<b>FDC100VN</b>	<b>FDC100VS (3 PHASE)</b>	<b>FDC125VN</b>	<b>FDC125VS (3 PHASE)</b>	<b>FDC140VN</b>
<b>WIRED CONTROLLER</b>		<b>RC-E4</b>	<b>RC-E4</b>	<b>RC-E4</b>	<b>RC-E4</b>	<b>RC-E4</b>	<b>RC-E4</b>
Cooling (Nominal)	kW	7.1	10.0	10.0	12.5	12.5	14.0
Cooling Range	kW	3.2 to 8.0	4.0 to 11.2	4.0 to 11.2	5.0 to 14.0	5.0 to 14.0	5.0 to 14.5
UK Cooling	kW	6.7	9.4	9.4	11.8	11.8	12.7
UK Sensible Cooling	kW	5.7	8.0	8.0	10.0	10.0	10.3
E.E.R (Energy Label)		3.30 (A)	3.47 (A)	3.47 (A)	3.09 (B)	3.09 (B)	2.83 (C)
Heating (Nominal)	kW	8.0	11.2	11.2	14.0	14.0	16.0
Heating Range	kW	3.6 to 9.0	4.0 to 12.5	4.0 to 12.5	4.0 to 16.0	4.0 to 16.0	4.0 to 16.5
C.O.P (Energy Label)		3.72 (A)	3.75 (A)	3.75 (A)	3.69 (B)	3.69 (B)	3.61 (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	297 x 850 x 650	350 x 1370 x 650	350 x 1370 x 650	350 x 1370 x 650	350 x 1370 x 650	350 x 1370 x 650
External Static Pressure (Standard / Max)	Pa	51 / 130	51 / 130	51 / 130	51 / 130	51 / 130	51 / 130
Size Of Supply Air Spigot (H x W)	mm	244 x 848	297 x 1368	297 x 1368	297 x 1368	297 x 1368	297 x 1368
Net Weight	kg	40	63	63	63	63	63
Air Volume (L - H)	m <sup>3</sup> /s	0.28 - 0.33	0.45 - 0.57	0.45 - 0.57	0.56 - 0.70	0.56 - 0.70	0.56 - 0.70
Sound Pressure Level* (L / H)	dB(A)	37 / 41	37 / 42	37 / 42	38 / 43	38 / 43	38 / 43

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

ELECTRICAL DATA							
Power Source Rating MCB	A	20	32	20 per phase	32	20 per phase	32
Mains Power To	Outdoor	230V/1ph/50Hz	230V/1ph/50Hz	415V/3ph/50Hz	230V/1ph/50Hz	415V/3ph/50Hz	230V/1ph/50Hz
Interconnecting Wires		3 + E	3 + E	3 + E	3 + E	3 + E	3 + E
Running Current - Cooling	A	9.7	12.7	4.3 per phase	17.8	6.0 per phase	21.7
Running Current - Heating	A	9.7	13.1	4.4 per phase	16.6	5.6 per phase	19.5
Power Input - Cooling	kW	2.15	2.88	2.88	4.04	4.04	4.95
Power Input - Heating	kW	2.15	2.99	2.99	3.79	3.79	4.43
Start Current	A	5	5	5 per phase	5	5 per phase	5

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

RETAIL PRICE							
<b>Indoor Unit</b>		<b>£722</b>	<b>£924</b>	<b>£924</b>	<b>£1,169</b>	<b>£1,169</b>	<b>£1,172</b>
<b>Outdoor Unit</b>		<b>£1,450</b>	<b>£1,698</b>	<b>£1,698</b>	<b>£1,835</b>	<b>£1,835</b>	<b>£2,114</b>
<b>Wired Controller</b>		<b>£60</b>	<b>£60</b>	<b>£60</b>	<b>£60</b>	<b>£60</b>	<b>£60</b>
<b>SYSTEM PRICE</b>		<b>£2,232</b>	<b>£2,682</b>	<b>£2,682</b>	<b>£3,064</b>	<b>£3,064</b>	<b>£3,346</b>

FDU140VD	FDU200VD	FDU250VD
FDC140VS (3 PHASE)	FDC200VS (3 PHASE)	FDC250VS (3 PHASE)
RC-E4	RC-E4	RC-E4
14.0	20.0	25.0
5.0 to 14.5	7.0 to 22.4	10.0 to 28.0
12.7	19.1	23.8
10.3	14.2	18.2
2.83 (C)	3.03 (B)	2.52 (E)
16.0	22.4	28.0
4.0 to 16.5	7.6 to 25.0	9.5 to 31.5
3.61 (B)	3.68 (B)	3.29 (C)
	-15 to 43	
	-15 to 24	

350 x 1370 x 650	360 x 1570 x 830	360 x 1570 x 830
51 / 130	100 / 200	100 / 200
297 x 1368	250 x 1450	250 x 1450
63	92	92
0.56 - 0.70	0.85	1.13
38 / 43	51	51

845 x 970 x 370	1300 x 970 x 370	1505 x 970 x 370
83	122	140
51	57	58

20 per phase	25 per phase	32 per phase
415V/3ph/50Hz	415V/3ph/50Hz	415V/3ph/50Hz
3 + E	3 + E	3 + E
7.4 per phase	10.8 per phase	15.7 per phase
6.6 per phase	10.2 per phase	14.4 per phase
4.95	6.59	9.91
4.43	6.08	8.50
5 per phase	5 per phase	5 per phase

3/8" (9.52)	<40m = 3/8" >40m = 1/2"	1/2"
5/8" (15.88)	<35m = 7/8" >35m = 1 1/8"	<35m = 7/8" >35m = 1 1/8"
50	70	70
30	30	30
15	15	15
3.8	5.4	7.2
30	30 (15 if 1/2" & 1 1/8")	30
60	60 (120 if 1/2" & 1 1/8")	120

£1,172	£2,506	£2,768
£2,114	£2,952	£3,240
£60	£60	£60
£3,346	£5,518	£6,068