

MONOSPLIT SUPER

DUCTED HIGH STATIC PRESSURE ADJUSTABLE



FDU 100-125-140 VH

- **max 200**
Fan static pressure
- Unit with bottom or rear air intake
- **280 mm**
Height
- **50 m**
Splitting distance
- ESP function: automatic maintenance of the air flow rate as flow resistance varies
- Filter not included
- Compatible with **AIRZONE** systems

Indoor unit model			FDU 100 VH	FDU 100 VH	FDU 125 VH	FDU 125 VH	FDU 140 VH	FDU 140 VH
Outdoor unit model			FDU 100 VNA-W	FDC 100 VSA-W	FDC 125 VNA-W	FDC 125 VSA-W	FDC 140 VNA-W	FDC 140 VSA-W
Type		DC-Inverter heat pump						
Nominal data								
Rated capacity (T=+35°C)	Cooling	kW	10.00 (4.00~11.20)		12.50 (5.00~14.00)		13.60 (5.00~14.50)	
Rated power input (T=+35°C)		kW	2.99		4.36		5.13	
Rated energy efficiency coefficient		EER ¹	3.35		2.87		2.65	
Rated capacity (T=+7°C)	Heating	kW	11.20 (4.00~12.50)		14.00 (4.00~16.00)		15.50 (4.00~16.50)	
Rated power input (T=+7°C)		kW	2.66		3.69		4.21	
Rated energy performance coefficient		COP ¹	4.21		3.79		3.68	
Seasonal data								
Design load (Pdesignc)	Cooling	kW	10.00		12.50		13.60	
Seasonal energy efficiency index		SEER ²	6.11		5.57		5.30	
Seasonal energy efficiency class		626/2011 ³	A++		-		-	
Annual energy consumption		kWh/y	574		-		-	
Design load (Pdesignh) @ -10°C	Heating (average climate conditions)	kW	8.50		14.00		15.50	
Seasonal energy efficiency index		SCOP ²	4.19		4.13		4.01	
Seasonal energy efficiency class		626/2011 ³	A+		-		-	
Annual energy consumption		kWh/y	2843		-		-	
Electrical data								
Power supply	Outdoor unit	Ph-V-Hz	1-220~240V-50Hz	3-380~415V-50Hz	1-220~240V-50Hz	3-380~415V-50Hz	1-220~240V-50Hz	3-380~415V-50Hz
Power cable		Type	3 x 6 mm ²	5 x 4 mm ²	3 x 6 mm ²	5 x 4 mm ²	3 x 6 mm ²	5 x 4 mm ²
Connection wires between I.U. and O.U.		nb.	4	4	4	4	4	4
Nominal absorbed current	Cooling	A	14.30	4.60	20.40	6.80	23.70	8.10
	Heating	A	12.70	4.10	17.80	5.90	20.30	6.80
Maximum current		A	26.00	17.00	26.00	17.00	27.00	18.00
Max power input		kW	6.40	10.20	6.40	10.20	6.40	10.20
Refrigerant circuit data								
Refrigerant ⁴		Type (GWP)	R32 (675)					
Q.ty of refrigerant pre-charge		Kg	3.3		3.3		3.3	
Tons of CO2 equivalent		t	2.228		2.228		2.228	
Diameter of refrigerant pipings liquid/gas		mm (inches)	ø9.52 (3/8") - ø15.88(5/8")		ø9.52 (3/8") - ø15.88(5/8")		ø9.52 (3/8") - ø15.88(5/8")	
Max splitting distance		m	50		50		50	
Splitting level difference I.U./O.U.	O.U. above/O.U. below	m	50/15		50/15		50/15	
Splitting distance without additional charge		m	30		30		30	
Additional charge		g/m	54		54		54	
Indoor unit specifications								
Dimensions	LxDxH	mm	1370x740x280		1370x740x280		1370x740x280	
Net weight		Kg	54		54		54	
Sound power level	Max	dB(A)	65		67		70	
Sound pressure level	P-Hi/Hi/Me/Lo	dB(A)	44/38/36/30		45/40/34/29		47/40/35/30	
Volume of air treated	P-Hi/Hi/Me/Lo	m ³ /h	2160/1680/1500/1140		2340/1920/1560/1200		2880/2100/1680/1320	
Fan static pressure	Std/Max	Pa	60/200		60/200		60/200	
Outdoor unit specifications								
Dimensions	LxDxH	mm	970x370x845		970x370x845		970x370x845	
Net weight		Kg	77	78	77	78	77	78
Sound power level	Max	dB(A)	70		71		73	
Sound pressure level	Max	dB(A)	55		56		58	
Volume of air treated	Max	m ³ /h	4500		4500		4500	
Operating range (outdoor temperature)	Cooling	°C			-15~+50			
	Heating	°C			-20~+20			
Accessories								
Wired control			RC-E5 (LCD) / RC-EX3A (touch) / RC-EX23A (touch + zone control) / RCH-E3 (simplified)					
IR remote control (KIT)			RCN-KIT4-E2					
Optional parts								
Wi-Fi module			INWFIMH001R100					
Human sensor (KIT)			LB-KIT2					
SUPERLINK II interface			SC-ADNA-E					

1. Value measured according to the harmonised standard EN 14511. 2. EU Regulation No. 206/2012 -- Value measured according to the harmonised standard EN 14825. 3. Delegated Regulation (EU) No 626/2011 regarding the new energy labelling of air conditioners. 4. 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 675. If 1 kg of this refrigerant fluid were released into the atmosphere, therefore, the impact on global warming would be 675 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.

MONOSPLIT SUPER

DUCTED HIGH STATIC PRESSURE ADJUSTABLE



- **max 200**
Fan static pressure
- Unit with bottom or rear air intake
- **70 m**
Splitting distance (20.00~25.00 kW)
- ESP function: automatic maintenance of the air flow rate as flow resistance varies

FDU 200-250-280 VH

Indoor unit model		FDU 200 VH	FDU 250 VH	FDU 280 VH	
Outdoor unit model		FDC 200 VSA-W	FDC 250 VSA-W	FDC 280 VSA-W	
Type		DC-Inverter heat pump			
Nominal data					
Rated capacity (T=+35°C)	Cooling	kW	20.00 (7.20~22.40)	25.00 (7.20~28.00)	27.00 (6.90~31.50)
Rated power input (T=+35°C)		kW	6.15	8.25	9.15
Rated energy efficiency coefficient		EER ¹	3.25	3.03	2.95
Rated capacity (T=+7°C)	Heating	kW	22.40 (6.50~25.00)	28.00 (6.70~31.50)	30.00 (6.90~33.50)
Rated power input (T=+7°C)		kW	5.67	7.55	9.12
Rated energy performance coefficient		COP ¹	3.95	3.75	3.29
Seasonal data					
Design load (Pdesignc)	Cooling	kW	20.00	25.00	27.00
Seasonal energy efficiency index		SEER ²	5.90	4.89	4.93
Seasonal energy efficiency class		626/2011 ³	-	-	-
Annual energy consumption		kWh/y	-	-	-
Design load (Pdesignh) @ -10°C	Heating (average climate conditions)	kW	22.40	28.00	30.00
Seasonal energy efficiency index		SCOP ²	3.55	3.54	3.70
Seasonal energy efficiency class		626/2011 ³	-	-	-
Annual energy consumption		kWh/y	-	-	-
Electrical data					
Power supply	Outdoor unit	Ph-V-Hz	3-380~415V-50Hz		
Power cable		Type	5 x 6 mm ²	5 x 6 mm ²	5 x 6 mm ²
Connection wires between I.U. and O.U.		nb.	4	4	4
Nominal absorbed current	Cooling	A	9.80	12.70	14.20
		Heating	A	8.90	11.60
Maximum current		A	23.00	25.00	25.00
Max power input		kW	12.00	11.20	11.40
Refrigerant circuit data					
Refrigerant ⁴		Type (GWP)	R32 (675)		
Q.ty of refrigerant pre-charge		Kg	4.3	5.1	5.6
Tons of CO2 equivalent		t	2.903	3.443	3.780
Diameter of refrigerant pipings liquid/gas		mm (inches)	ø9.52 (3/8") - ø22.2 (7/8") ⁵	ø12.7 (1/2") - ø22.2 (7/8") ⁵	ø12.7 (1/2") - ø22.2 (7/8") ⁵
Max splitting distance		m	70	70	60
Splitting level difference I.U./O.U.	O.U. above/O.U. below	m	50/15	50/15	50/15
Splitting distance without additional charge		m	30	30	30
Additional charge		g/m	Please consult the Technical Manual ⁵		
Indoor unit specifications					
Dimensions	LxDxH	mm	1600x893x379	1600x893x379	1600x893x379
Net weight		Kg	88	88	88
Sound power level	Max	dB(A)	78	78	78
Sound pressure level	P-Hi/Hi/Me/Lo	dB(A)	52/50/47/45	52/50/47/45	52/50/47/45
Volume of air treated	P-Hi/Hi/Me/Lo	m ³ /h	4800/4320/3840/3360	4800/4320/3840/3360	4800/4320/3840/3360
Fan static pressure	Std/Max	Pa	72/200	72/200	72/200
Outdoor unit specifications					
Dimensions	LxDxH	mm	970x370x1505	970x370x1505	970x370x1505
Net weight		Kg	144	145	155
Sound power level	Max	dB(A)	74	75	77
Sound pressure level	Max	dB(A)	59	62	63
Volume of air treated	Max	m ³ /h	8880	9180	8400
Operating range (outdoor temperature)	Cooling	°C	-15~+50		
	Heating	°C	-20~+20		
Accessories					
Wired control			RC-E5 (LCD) / RC-EX3A (touch) / RC-EX23A (touch + zone control) / RCH-E3 (simplified)		
IR remote control (KIT)			RCN-KIT4-E2		
Optional parts					
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