

SAMSUNG
Climate Solutions

VRF



WindFree™ High Efficiency 4way Cassette

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- WindFree™ Cooling mode.
- Four-way air supply via independently adjustable blades.
- Built-in condensation drain pump and humidity sensor.
- Direct drive fan powered by a BLDC motor.

- Can be controlled by Smartphone via Wi-Fi Kit (Optional).
- Motion Detect Sensor (Optional).
- Air Purification Panel, Auto Elevation Panel (Optional).
- Predisposition of the air inlet to let fresh air in.

Specifications



Model			AM028AN4PKH/EU	AM036AN4PKH/EU	AM045AN4PKH/EU	AM056AN4PKH/EU	AM071AN4PKH/EU
Electrical							
Power Supply	Ø, #, V, Hz		1Ø, 2, 220–240 V, 50/60 Hz	1Ø, 2, 220–240 V, 50/60 Hz	1Ø, 2, 220–240 V, 50/60 Hz	1Ø, 2, 220–240 V, 50/60 Hz	1Ø, 2, 220–240 V, 50/60 Hz
MCA	A		0.33	0.36	0.40	0.43	0.47
MFA	A		15	15	15	15	15
Interconnecting Communication Cable	mm ²		Screened 0.75-1.5mm ² , 2 Core, F1 F2 Connection				
Performance¹							
Nominal Cooling Capacity	Total Cooling (Sensible Cooling)	kW	2.8 (2.0)	3.6 (2.5)	4.5 (3.1)	5.6 (3.9)	7.1 (5.0)
UK Cooling Capacity	Total Cooling (Sensible Cooling)	kW	2.3 (1.8)	2.9 (2.3)	3.7 (2.8)	4.6(3.5)	5.8 (4.5)
Nominal Heating Capacity		kW	3.2	4.0	5.0	6.3	8.0
Fan							
Type		-	Turbo Fan	Turbo Fan	Turbo Fan	Turbo Fan	Turbo Fan
Number of Fans		ea	1	1	1	1	1
Fan Motor	Model	-	BLDC Motor	BLDC Motor	BLDC Motor	BLDC Motor	BLDC Motor
	Output x n	W	65 x 1	65 x 1	65 x 1	65 x 1	65 x 1
Airflow Rate	H/M/L	m ³ /min	14.4 / 13.4 / 12.4	15.4 / 14.4 / 13.4	16.3 / 15.4 / 14.4	16.4 / 14.6 / 12.8	18.2 / 15.4 / 12.8
		l/s	240.0 / 223.3 / 206.7	255.0 / 240.0 / 223.3	271.7 / 256.7 / 240.0	273.3 / 243.3 / 213.3	303.3 / 256.7 / 213.3
Piping Connections							
Liquid Pipe	ø, mm (inch)		6.35 (1/4)	6.35 (1/4)	6.35 (1/4)	6.35 (1/4)	9.50 (3/8)
Gas Pipe	ø, mm (inch)		12.70 (1/2)	12.70 (1/2)	12.70 (1/2)	12.70 (1/2)	15.88 (5/8)
Drain Pipe	ø, mm		VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)
Refrigerant							
Type			R410A (Fluorinated greenhouse gas, GWP=2088)				
Control Method			EEV included	EEV included	EEV included	EEV included	EEV included
Sound							
Sound Pressure Level	H/M/L	dB(A)	30 / 28 / 27	31 / 30 / 28	33 / 31 / 29	35 / 33 / 29	37 / 34 / 30
Sound Power Level	Cooling	dB(A)	46	47	49	51	53
Dimensions							
Net Weight		kg	15.0	15.0	15.0	16.5	16.5
Net Dimensions	W x H x D	mm	840 x 204 x 840	840 x 204 x 840	840 x 204 x 840	840 x 204 x 840	840 x 204 x 840
Drain Pump							
Internal Model		-	Included	Included	Included	Included	Included
External Model		-					
Max Lifting Height / Displacement		mm / litres/h	750 / 24	750 / 24	750 / 24	750 / 24	750 / 24
Default Panel							
Model Code		-	PC4NUFMAN	PC4NUFMAN	PC4NUFMAN	PC4NUFMAN	PC4NUFMAN
Net Weight		kg	6.3	6.3	6.3	6.3	6.3
Net Dimensions	W x H x D	mm	950 x 64 x 950	950 x 64 x 950	950 x 64 x 950	950 x 64 x 950	950 x 64 x 950
Colour		-	White	White	White	White	White

¹ Performances are based on the following design conditions:

- Nominal Cooling Capacity: Indoor temperature 27°C DB, 19°C WB, Outdoor temperature 35°C DB
- Nominal Heating Capacity: Indoor temperature 20°C DB, Outdoor temperature 7°C DB, 6°C WB
- UK Cooling Capacity: Indoor temperature 23°C DB, 16°C WB, Outdoor temperature 30°C DB

Accessories

Wireless Remote Controller	Touch Wired Controller	Premium Wired Controller	Wi-Fi Kit
AR-EH03E	MWR-SH11N	MWR-WG00JN	MIM-H04EN
External Room Sensor	Motion Detect Sensor	Air Purification Panel	Auto Elevation Panel
MRW-TA	MCR-SMC	PC4NUCEAN	PC4NUXMAN

Specifications



Model			AM090AN4PKH/EU	AM112AN4PKH/EU	AM128AN4PKH/EU	AM140AN4PKH/EU
Electrical						
Power Supply		Ø, #, V, Hz	1Ø, 2, 220–240 V, 50/60 Hz	1Ø, 2, 220–240 V, 50/60 Hz	1Ø, 2, 220–240 V, 50/60 Hz	1Ø, 2, 220–240 V, 50/60 Hz
MCA		A	0.60	0.80	1.00	1.13
MFA		A	15	15	15	15
Interconnecting Communication Cable		mm ²	Screened 0.75-1.5mm ² , 2 Core, F1 F2 Connection			
Performance¹						
Nominal Cooling Capacity	Total Cooling (Sensible Cooling)	kW	9.0 (6.3)	11.2 (7.9)	12.8 (9.1)	14.0 (9.6)
UK Cooling Capacity	Total Cooling (Sensible Cooling)	kW	7.3 (5.7)	9.1 (7.1)	10.4 (8.1)	11.4 (8.5)
Nominal Heating Capacity		kW	10.0	12.5	13.8	16.0
Fan						
Type		-	Turbo Fan	Turbo Fan	Turbo Fan	Turbo Fan
Number of Fans		ea	1	1	1	1
Fan Motor	Model	-	BLDC Motor	BLDC Motor	BLDC Motor	BLDC Motor
	Output x n	W	65 x 1	65 x 1	97 x 1	97 x 1
Airflow Rate	H/M/L	m ³ /min	24.4 / 19.9 / 15.5	26.6 / 21.0 / 15.5	35.4 / 29.2 / 24.3	37.9 / 31.7 / 25.5
		l/s	406.7 / 331.7 / 258.3	443.3 / 350.0 / 258.3	590 / 486.7 / 405	631.7 / 528.3 / 425
Piping Connections						
Liquid Pipe		ø, mm (inch)	9.50 (3/8)	9.50 (3/8)	9.50 (3/8)	9.50 (3/8)
Gas Pipe		ø, mm (inch)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)
Drain Pipe		ø, mm	VP25 (OD 32, ID 25)	VP25 (OD 32, ID 25)	VP25 (OD 32, ID 25)	VP25 (OD 32, ID 25)
Refrigerant						
Type		-	R410A (Fluorinated greenhouse gas, GWP=2088)			
Control Method		-	EEV included	EEV included	EEV included	EEV included
Sound						
Sound Pressure Level	H/M/L	dB(A)	39 / 35 / 30	41 / 36 / 30	42 / 37 / 35	44 / 39 / 35
Sound Power Level	Cooling	dB(A)	55	59	58	60
Dimensions						
Net Weight		kg	18.0	18.0	21.5	21.5
Net Dimensions	W x H x D	mm	840 x 246 x 840	840 x 246 x 840	840 x 288 x 840	840 x 288 x 840
Drain Pump						
Internal Model		-	Included	Included	Included	Included
External Model		-				
Max Lifting Height / Displacement		mm / litres/h	750 / 24	750 / 24	750 / 24	750 / 24
Default Panel						
Model Code		-	PC4NUFMAN	PC4NUFMAN	PC4NUFMAN	PC4NUFMAN
Net Weight		kg	6.3	6.3	6.3	6.3
Net Dimensions	W x H x D	mm	950 x 64 x 950	950 x 64 x 950	950 x 64 x 950	950 x 64 x 950
Colour		-	White	White	White	White

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- Nominal Cooling Capacity: Indoor temperature 27°C DB, 19°C WB, Outdoor temperature 35°C DB
- Nominal Heating Capacity: Indoor temperature 20°C DB, Outdoor temperature 7°C DB, 6°C WB
- UK Cooling Capacity: Indoor temperature 23°C DB, 16°C WB, Outdoor temperature 30°C DB