

SAMSUNG
Climate Solutions



WindFree™ 1way Cassette

WindFree™ 1way Cassette

- Fast Cooling mode and WindFree™ Cooling mode.
- One-way air supply by means of a 100 mm wide blade.
- Built-in condensation drain pump and humidity sensor.
- Can be controlled by Smartphone via Wi-Fi Kit (Optional).
- Optional Air Purification Panel.



Specifications

Model		Outdoor Indoor	AC026RXADKG/EU AC026RN1DKG/EU	AC035RXADKG/EU AC035RN1DKG/EU
Electrical				
Power Supply	Outdoor	Φ, #, V, Hz	1Φ, 2, 220–240 V, 50 Hz	1Φ, 2, 220–240 V, 50 Hz
	Indoor	Φ, #, V, Hz	1Φ, 2, 220–240 V, 50 Hz	1Φ, 2, 220–240 V, 50 Hz
MCA	System (Outdoor/Indoor)	A	11.0 (10.0 / 1.0)	11.0 (10.0 / 1.0)
MFA	System	A	12.5	12.5
Minimum SSC value	Outdoor	MVA	Not Applicable	Not Applicable
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	2.6 (1.9)	3.5 (2.5)
UK Cooling Capacity	Total Cooling (Sensible Cooling)	kW	2.4 (1.8)	3.3 (2.4)
Nominal Heating Capacity		kW	3.3	4.0
Operating Temperature Range	Cooling	°C	-15.0 – 46.0 °C	-15.0 – 46.0 °C
	Heating	°C	-20.0 – 24.0 °C	-20.0 – 24.0 °C
Energy Efficiency²				
Rated Efficiency	EER (Nominal Cooling)	W/W	3.61	3.21
	COP (Nominal Heating)	W/W	3.26	3.12
Seasonal Efficiency	SEER / Energy Label	W/W	6.4 / A++	6.2 / A++
	SCOP / Energy Label	W/W	4.0 / A+	4.0 / A+
Air Flow Rate				
Indoor Unit Airflow Rate	H/M/L	l/s	121.6 / 108.3 / 96.6	150 / 136.6 / 120
Outdoor Unit Airflow Rate		l/s	500	500
Piping Connections				
Liquid Pipe		ø, mm (inch)	6.35 (1/4)	6.35 (1/4)
Gas Pipe		ø, mm (inch)	9.52 (3/8)	9.52 (3/8)
Drain Pipe		ø, mm	VP-20 (OD26, ID20)	VP-20 (OD26, ID20)
Max Piping Length (Height)		m	20 (15)	20 (15)
Refrigerant				
Type			R32 (Fluorinated greenhouse gas, GWP=675)	
Factory Charging		kg	0.9	0.9
		tCO ₂ e	0.61	0.61
Precharge to		m	20	20
Additional Charge		g/m	-	-
Sound				
Indoor Sound Pressure Level	H/M/L	dB(A)	32 / 29 / 26	35 / 32 / 29
Indoor Sound Power Level		dB(A)	52	55
Outdoor Sound Pressure Level	Cooling / Heating	dB(A)	46 / 47	48 / 48
Outdoor Sound Power Level		dB(A)	59	61
Dimensions				
Net Weight	Indoor Unit/Outdoor Unit	kg	9.2 / 32.5	9.2 / 32.5
Indoor Unit Net Dimensions	W x H x D	mm	970 x 135 x 410	970 x 135 x 410
Outdoor Unit Net Dimensions	W x H x D	mm	790 x 548 x 285	790 x 548 x 285
Drain Pump				
Max Lifting Height / Displacement		mm / litres/h	750 / 24	750 / 24
Default Panel (PC1NWFMAN)				
Net Weight		kg	4.3	4.3
Net Dimensions	W x H x D	mm	1,198 x 35 x 500	1,198 x 35 x 500
Colour		-	White	White

Accessories

Wireless Controller	Touch Controller	Wired Remote Controller	Wi-Fi Receiver	External Room Sensor	Air Purification Panel
AR-EH03E	MWR-SH11N	MWR-WG00JN	MIM-H04EN	MRW-TA	PC1NWCMA

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

² For units with capacity up to 12kW: Efficiencies as shown are according to EU No 206/2012 (LOT10) Ecodesign requirements for air conditioners.

For units with capacity up to 12kW: Energy labels as shown are according to EU No 626/2011 (LOT10) label classification 2019, on a scale from D to A+++.

For units with capacity greater than 12kW: Efficiencies as shown are according to EU No 2016/2281 (LOT 21) Ecodesign requirements for heat pumps/air conditioners.

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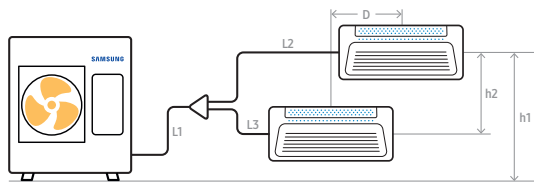
Multi-Unit Operation (DPM)

Instead of connecting just one indoor unit, users can connect two, three or four indoor units with a single outdoor unit for more efficient cooling and heating. The indoor units operate and are controlled simultaneously as one cycle within the same mode via one remote controller. This system is ideal for spaces requiring multiple indoor units for better temperature and airflow distribution, such as open plan offices or shops.

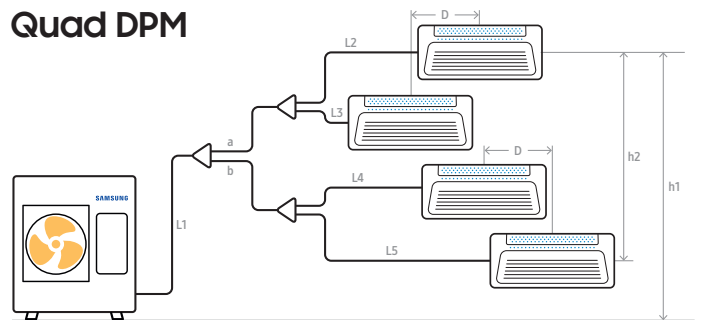
Model			7kW Twin DPM Single Phase	10kW Triple DPM Single Phase	10kW Triple DPM Three Phase	12kW Quad DPM Single Phase
System Composition						
Outdoor Unit			AC071RXADKG/EU	AC100RXADKG/EU	AC100RXADKG/EU	AC120RXADKG/EU
Indoor Unit			AC035RN1DKG/EU x2	AC035RN1DKG/EU x3	AC035RN1DKG/EU x3	AC035RN1DKG/EU x4
Branch Pipe Kit			MXJ-2D2509K	MXJ-3D2509K	MXJ-3D2509K	MXJ-4D2509K
Outdoor Unit Details						
Power Supply	Φ, #, V, Hz		1Φ, 2, 220-240 V, 50 Hz	1Φ, 2, 220-240 V, 50 Hz	3Φ, 4, 380-415 V, 50 Hz	1Φ, 2, 220-240 V, 50 Hz
MCA	A		16.5	24.0	16.1	24.0
MFA	A		20.6	30.0	20.0	30.0
Minimum SSC value	MVA		Not Applicable	1.4	2.5	1.9
Airflow Rate	l/s		850	1,200	1,200	1,200
Sound Pressure Level	Cooling / Heating	dB(A)	49 / 51	52 / 54	52 / 54	54 / 56
Sound Power Level		dB(A)	65	69	69	70
Net Weight		kg	51.0	75.0	74.0	81.0
Net Dimensions	WxHxD	mm	880 x 798 x 310	940 x 998 x 330	940 x 998 x 330	940 x 998 x 330
Piping Connections						
Total Pipe Length (all lengths combined)		m	50	50	50	50
Max Main Pipe Length	L1+a+b	m	30	30	30	30
Max Individual Pipe Length After Branch	L2, L3, L4, L5	m	15	15	15	15
Max Pipe Length Difference Between Indoor Units	e.g. L2-L3, (a+L3)-(b+L5)	m	5	5	5	5
Max Distance Between Indoor Units	D	m	10	10	10	10
Max Height Between Indoors And Outdoor	h1	m	30	30	30	30
Max Height Difference Between Indoors	h2	m	0.5	0.5	0.5	0.5
Main Pipe (L1+a+b)	Liquid	ø, mm (inch)	6.35 (1/4)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)
	Gas	ø, mm (inch)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)
Individual Liquid Pipe After Branch (L2, L3, L4, L5)	Liquid	ø, mm (inch)	6.35 (1/4)	6.35 (1/4)	6.35 (1/4)	6.35 (1/4)
	Gas	ø, mm (inch)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)
Refrigerant*						
Type	R32 (Fluorinated greenhouse gas, GWP=675)					

* Additional refrigerant charge for DPM systems is different than single CAC, please consult the relevant installation manual

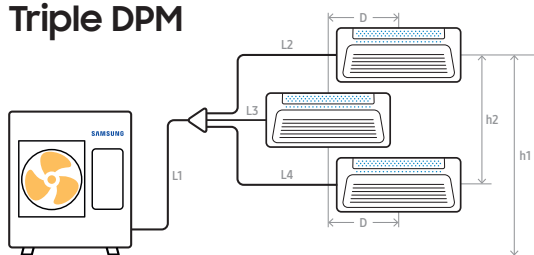
Twin DPM



Quad DPM



Triple DPM



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Model			12kW Quad DPM Three Phase	14kW Quad DPM Single Phase	14kW Quad DPM Three Phase
System Composition					
Outdoor Unit			AC120RXADKG/EU	AC140RXADKG/EU	AC140RXADKG/EU
Indoor Unit			AC035RN1DKG/EU x4	AC035RN1DKG/EU x4	AC035RN1DKG/EU x4
Branch Pipe Kit			MXJ-4D2509K	MXJ-4D2509K	MXJ-4D2509K
Outdoor Unit Details					
Power Supply	Φ, #, V, Hz		3Φ, 4, 380–415 V, 50 Hz	1Φ, 2, 220–240 V, 50 Hz	3Φ, 4, 380–415 V, 50 Hz
MCA	A		16.1	32.0	16.1
MFA	A		20.0	40.0	20.0
Minimum SSC value	MVA		2.7	1.9	2.5
Airflow Rate	l/s		1,200	1,833	1,833
Sound Pressure Level	Cooling / Heating	dB(A)	54 / 56	53 / 54	53 / 54
Sound Power Level		dB(A)	70	69	69
Net Weight		kg	80.0	91.5	90.5
Net Dimensions	WxHxD	mm	940 x 998 x 330	940 x 1,210 x 330	940 x 1,210 x 330
Piping Connections					
Total Pipe Length (all lengths combined)		m	50	75	75
Max Main Pipe Length	L1+a+b	m	30	50	50
Max Individual Pipe Length After Branch	L2, L3, L4, L5	m	15	15	15
Max Pipe Length Difference Between Indoor Units	e.g. L2-L3, (a+L3)-(b+L5)	m	5	5	5
Max Distance Between Indoor Units	D	m	10	10	10
Max Height Between Indoors And Outdoor	h1	m	30	30	30
Max Height Difference Between Indoors	h2	m	0.5	0.5	0.5
Main Pipe (L1+a+b)	Liquid	ø, mm (inch)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)
	Gas	ø, mm (inch)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)
Individual Liquid Pipe After Branch (L2, L3, L4, L5)	Liquid	ø, mm (inch)	6.35 (1/4)	6.35 (1/4)	6.35 (1/4)
	Gas	ø, mm (inch)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)
Refrigerant*					
Type			R32 (Fluorinated greenhouse gas, GWP=675)		

* Additional refrigerant charge for DPM systems is different than single CAC, please consult the relevant installation manual

Quad DPM

