

SAMSUNG
Climate Solutions



Large Wall Mounted

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- Motorised louvre provides an automatic change in airflow by directing the air up and down.
- Manual adjustable guide vane allows users to change the airflow from side to side (left to right).
- Equipped with washable pre-filter.
- Can be controlled by Smartphone via Wi-Fi Kit (Optional).
- Wireless remote controller (AR-EH03E) included as standard.



Specifications

Model		Outdoor Indoor	AC100RXADKG/EU AC100RNTDKG/EU	AC100RXADNG/EU AC100RNTDKG/EU
Electrical				
Power Supply	Outdoor	Φ, #, V, Hz	1Φ, 2, 220-240 V, 50 Hz	3Φ, 4, 380-415 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	25.6 (24.0 / 1.6)	17.7 (16.1 / 1.6)
MFA	System	A	30.0	20.0
Minimum SSC value	Outdoor	MVA	1.4	2.5
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	9.5 (6.7)	9.5 (6.7)
UK Cooling Capacity	Total Cooling (Sensible Cooling)	kW	9.0 (6.4)	9.0 (6.4)
Nominal Heating Capacity		kW	10.8	10.8
Operating Temperature Range	Cooling	°C	-15.0 - 50.0 °C	-15.0 - 50.0 °C
	Heating	°C	-20.0 - 24.0 °C	-20.0 - 24.0 °C
Energy Efficiency²				
Rated Efficiency	EER (Nominal Cooling)	W/W	2.53	2.62
	COP (Nominal Heating)	W/W	2.82	2.98
Seasonal Efficiency	SEER / Energy Label	W/W	5.9 / A+	5.9 / A+
	SCOP / Energy Label	W/W	4.0 / A+	4.0 / A+
Air Flow Rate				
Indoor Unit Airflow Rate	H/M/L	l/s	378 / 330 / 297	378 / 330 / 297
Outdoor Unit Airflow Rate		l/s	1,200	1,200
Piping Connections				
Liquid Pipe		ø, mm (inch)	9.52 (3/8)	9.52 (3/8)
Gas Pipe		ø, mm (inch)	15.88 (5/8)	15.88 (5/8)
Drain Pipe		ø, mm	VP-25(OD32, ID25)	VP-25(OD32, ID25)
Max Piping Length (Height)		m	50 (30)	50 (30)
Refrigerant				
Type			R32 (Fluorinated greenhouse gas, GWP=675)	
Factory Charging		kg	2.7	2.7
		tCO ₂ e	1.82	1.82
Precharge to		m	30	30
Additional Charge		g/m	50	50
Sound				
Indoor Sound Pressure Level	H/M/L	dB(A)	49 / 46 / 43	49 / 46 / 43
Indoor Sound Power Level		dB(A)	65	65
Outdoor Sound Pressure Level	Cooling / Heating	dB(A)	52 / 54	52 / 54
Outdoor Sound Power Level		dB(A)	69	69
Dimensions				
Net Weight	Indoor Unit/Outdoor Unit	kg	18.5 / 75.0	18.5 / 74.0
Indoor Unit Net Dimensions	W x H x D	mm	1,280 x 345 x 253	1,280 x 345 x 253
Outdoor Unit Net Dimensions	W x H x D	mm	940 x 998 x 330	940 x 998 x 330

Accessories

Wireless Remote Controller	Touch Wired Controller	Premium Wired Controller	Wi-Fi Kit	External Room Sensor
AR-EH03E (Included as standard)	MWR-SH11N	MWR-WG00JN	MIM-H04EN	MRW-TA

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		20kW Twin DPM Three Phase	
System Composition			
Outdoor Unit			AC200KXAPNH/EU
Indoor Unit			AC100RNTDKG/EU X2
Branch Pipe Kit			MXJ-2D2509K
Outdoor Unit Details			
Power Supply		Φ, #, V, Hz	3Φ, 4, 380-415 V, 50 Hz
MCA		A	25.0
MFA		A	31.25
Minimum SSC value		MVA	2.459
Airflow Rate		l/s	3,333
Sound Pressure Level	Cooling / Heating	dB(A)	58 / 60
Sound Power Level		dB(A)	75
Net Weight		kg	154.0
Net Dimensions	WxHxD	mm	940 x 1,630 x 460
Piping Connections			
Total Pipe Length (all lengths combined)		m	75
Max Main Pipe Length	L1+a+b	m	75
Max Individual Pipe Length After Branch	L2, L3, L4, L5	m	15
Max Pipe Length Difference Between Indoor Units	e.g. L2-L3, (a+L3)-(b+L5)	m	5
Max Distance Between Indoor Units	D	m	10
Max Height Between Indoors And Outdoor	h1	m	30
Max Height Difference Between Indoors	h2	m	0.5
Main Pipe (L1+a+b)	Liquid	ø, mm (inch)	9.52 (3/8)
	Gas	ø, mm (inch)	19.05 (3/4)
Individual Liquid Pipe After Branch (L2, L3, L4, L5)	Liquid	ø, mm (inch)	9.52 (3/8)
	Gas	ø, mm (inch)	15.88 (5/8)
Refrigerant*			
Type			R410A (Fluorinated greenhouse gas, GWP=2088)

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

Twin DPM

