

SAMSUNG
Climate Solutions



High Efficiency Ceiling Suspended

High Efficiency Ceiling Suspended

- Horizontal installation.
- Air supply by means of one adjustable blade.
- Long-life washable HD 40 permanent filter is included.
- Can be controlled by Smartphone via Wi-Fi Kit (Optional).
- Wide Operation Range.
- Smart Outdoor unit with inverter PBA Self-Diagnosis.
- Enhanced Performance of 100% Heating Capacity at -15°C.



Specifications

Model		Outdoor Indoor	AC052BXAPKG/EU AC052BNCPKG/EU	AC071BXAPKG/EU AC071BNCPKG/EU	AC071BXAPNG/EU AC071BNCPKG/EU
Electrical					
Power Supply	Outdoor	Φ, #, V, Hz	1Φ, 2, 220-240 V, 50 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	1Φ, 2, 220-240 V, 50 Hz
MCA	System (Outdoor/Indoor)	A	18.5 (16.0 / 2.5)	22.5 (20.0 / 2.5)	18.6 (16.1 / 2.5)
MFA	System	A	20.0	25.0	20.0
Minimum SSC value	Outdoor	MVA	Not Applicable	Not Applicable	1.4
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	5.0 (4.45)	71 (5.5)	71 (5.5)
UK Cooling Capacity	Total Cooling (Sensible Cooling)	kW	5.2 (4.4)	7.0 (5.1)	7.0 (5.1)
Nominal Heating Capacity		kW	6.0	8.0	8.0
Operating Temperature Range	Cooling	°C	-20.0 ~ 52.0 °C	-20.0 ~ 52.0 °C	-20.0 ~ 52.0 °C
	Heating	°C	-25.0 ~ 24.0 °C	-25.0 ~ 24.0 °C	-25.0 ~ 24.0 °C
Energy Efficiency²					
Rated Efficiency	EER (Nominal Cooling)	W/W	4.42	3.78	3.78
	COP (Nominal Heating)	W/W	4.58	3.79	3.79
Seasonal Efficiency	SEER / Energy Label	W/W	8.0 / A++	7.1 / A++	7.1 / A++
	SCOP / Energy Label	W/W	4.8 / A++	4.4 / A+	4.4 / A+
Air Flow Rate					
Indoor Unit Airflow Rate	H/M/L	l/s	317 / 268 / 230	342 / 293 / 255	342 / 293 / 255
Outdoor Unit Airflow Rate		l/s	917	1,200	1,200
Piping Connections					
Liquid Pipe		ø, mm (inch)	6.35 (1/4)	9.52 (3/8)	9.52 (3/8)
Gas Pipe		ø, mm (inch)	12.7 (1/2)	15.88 (5/8)	15.88 (5/8)
Drain Pipe		ø, mm	VP25 (OD32, ID25)	VP25 (OD32, ID25)	VP25 (OD32, ID25)
Max Piping Length (Height)		m	50 (30)	55 (30)	55 (30)
Refrigerant					
Type			R32 (Fluorinated greenhouse gas, GWP=675)		
Factory Charging		kg	1.7	2.7	2.7
		tCO ₂ e	1.15	1.82	1.82
Precharge to		m	20	30	30
Additional Charge		g/m	30	45	45
Sound					
Indoor Sound Pressure Level	H/M/L	dB(A)	38 / 35 / 32	39 / 36 / 33	39 / 36 / 33
Indoor Sound Power Level		dB(A)	56	58	58
Outdoor Sound Pressure Level	Cooling / Heating	dB(A)	47 / 48	47 / 49	47 / 49
Outdoor Sound Power Level		dB(A)	63	64	64
Dimensions					
Net Weight	Indoor Unit/Outdoor Unit	kg	33.0 / 50.0	33.0 / 75.0	33.0 / 74.0
Indoor Unit Net Dimensions	W x H x D	mm	1,350 x 235 x 675	1,350 x 235 x 675	1,350 x 235 x 675
Outdoor Unit Net Dimensions	W x H x D	mm	880 x 798 x 310	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-EH04E	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 (LOT11) 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.

High Efficiency Ceiling Suspended

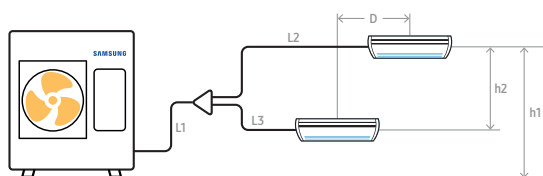
Multi-Unit Operation (DPM)

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		10 kW Twin DPM Single Phase	10kW Twin DPM Three Phase	12kW Triple DPM Three Phase	14kW Twin DPM Three Phase	14kW Triple DPM Three Phase
System Composition						
Outdoor Unit		AC100BXAPKG/EU	AC100BXAPNG/EU	AC120BXAPNG/EU	AC140BXAPNG/EU	AC140BXAPNG/EU
Indoor Unit		AC052BNCPKG/EU X2	AC052BNCPKG/EU X2	AC052BNCPKG/EU X3	AC071RNCCKG/EU X2	AC052BNCPKG/EU X3
Branch Pipe Kit		MXJ-2D2509K	MXJ-2D2509K	MXJ-3D2509K	MXJ-2D2509K	MXJ-3D2509K
Outdoor Unit Details						
Power Supply	Φ, #, V, Hz	10, 2, 220–240 V, 50 Hz	3Φ, 4, 380–415 V, 50 Hz	3Φ, 4, 380–415 V, 50 Hz	3Φ, 4, 380–415 V, 50 Hz	3Φ, 4, 380–415 V, 50 Hz
MCA	A	28.0	16.1	16.1	16.1	16.1
MFA	A	35.0	20.0	20.0	20.0	20.0
Minimum SSC value	MVA	Not Applicable	1.6	1.6	1.6	1.6
Airflow Rate	l/s	2,083	2,083	2,083	2,083	2,083
Sound Pressure Level	Cooling / Heating dB(A)	47 / 50	47 / 50	49 / 52	50 / 52	50 / 52
Sound Power Level	dB(A)	66	66	69	70	70
Net Weight	kg	100.0	100.0	100.0	100.0	100.0
Net Dimensions	WxHxD mm	940 x 1,420 x 330	940 x 1,420 x 330	940 x 1,420 x 330	940 x 1,420 x 330	940 x 1,420 x 330
Piping Connections						
Total Pipe Length (all lengths combined)	m	85	85	85	85	85
Max Main Pipe Length	L1+a+b m	55	55	55	55	55
Max Individual Pipe Length After Branch	L2, L3, L4, L5 m	15	15	15	15	15
Max Pipe Length Difference Between Indoor Units	e.g. L2-L3, (a+L3)-(b+L5) m	5	5	5	5	5
Max Distance Between Indoor Units	D m	10	10	10	10	10
Max Height Between Indoors And Outdoor	h1 m	30	30	30	30	30
Max Height Difference Between Indoors	h2 m	0.5	0.5	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)	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)	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)	9.52 (3/8)	6.35 (1/4)
	Gas ø, mm (inch)	12.7 (1/2)	12.7 (1/2)	12.7 (1/2)	15.88 (5/8)	12.7 (1/2)
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



Triple DPM

