SAMSUNGClimate Solutions





Large Ceiling Suspended

- 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).







Specifications







N	Model	Outdoor Indoor	AC100RXADKG/EU AC100RNCDKG/EU	AC100RXADNG/EU AC100RNCDKG/EU	AC120RXADKG/EU AC120RNCDKG/EU	
Electrical						
Power Supply	Outdoor	Φ, #, V, Hz	1Ф, 2, 220-240 V, 50 Hz	3Ф, 4, 380-415 V, 50 Hz	1Ф, 2, 220-240 V, 50 Hz	
	Indoor	Φ, #, V, Hz	1Ф, 2, 220-240 V, 50 Hz	1Ф, 2, 220-240 V, 50 Hz	1Ф, 2, 220-240 V, 50 Hz	
MCA	System (Outdoor/Indoor)	Α	26.5 (24.0 / 2.5)	18.6 (16.1 / 2.5)	26.5 (24.0 / 2.5)	
MFA	System	A	30.0	20.0	30.0	
Minimum SSC value	Outdoor	MVA	1.4 2.5		1.9	
nterconnecting Communication Cable		mm²	Screened 0.75-1.5mm², 2 Core, F1 F2 Connection			
Performance ¹						
Nominal Cooling Capacity	Total Cooling (Sensible Cooling)	kW	10.0 (7.4)	10.0 (7.4)	12.0 (8.5)	
UK Cooling Capacity	Total Cooling (Sensible Cooling)	kW	9.5 (7.1)	9.5 (7.1)	11.4 (8.1)	
Nominal Heating Capacity		kW	11.2	11.2	13.2	
Operating Temperature Range	Cooling	°C	-15.0 ~ 50.0 °C	-15.0 ~ 50.0 °C	-15.0 ~ 50.0 °C	
	Heating	°C	-20.0 ~ 24.0 °C	-20.0 ~ 24.0 °C	-20.0 ~ 24.0 °C	
nergy Efficiency ²						
Rated Efficiency	EER (Nominal Cooling)	W/W	3.05	3.17	2.76	
	COP (Nominal Heating)	W/W	3.44	3.5	3.44	
Seasonal Efficiency	SEER / Energy Label	W/W	6.1 / A++	6.1 / A++	5.9 / A+	
	SCOP / Energy Label	W/W	4.0 / A+	4.0 / A+	4.0 / A+	
Air Flow Rate						
ndoor Unit Airflow Rate	H/M/L	l/s	433 / 383 / 317	433 / 383 / 317	500 / 400 / 333	
Outdoor Unit Airflow Rate		l/s	1,200	1,200	1,200	
Piping Connections						
iquid Pipe		ø, mm (inch)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)	
Gas Pipe		ø, mm (inch)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)	
Prain Pipe		ø, mm	VP-25(OD32, ID25)	VP-25(OD32, ID25)	VP-25(OD32, ID25)	
Max Piping Length (Height)		m	50 (30)	50 (30)	50 (30)	
Refrigerant						
уре				R32 (Fluorinated greenhouse gas, GWP=675)		
actory Charging		kg	2.7	2.7	2.7	
		tCO ₂ e	1.82	1.82	1.82	
Precharge to		m	30	30	30	
Additional Charge		g/m	50	50	50	
Sound						
ndoor Sound Pressure Level	H/M/L	dB(A)	42 / 38 / 34	42 / 38 / 34	44 / 41 / 37	
ndoor Sound Power Level		dB(A)	60	60	62	
Outdoor Sound Pressure Level	Cooling / Heating	dB(A)	52 / 54	52 / 54	54 / 56	
Outdoor Sound Power Level		dB(A)	69	69	70	
Dimensions						
Net Weight	Indoor Unit/Outdoor Unit	kg	42.0 / 75.0	42.0 / 74.0	41.5/ 81.0	
Indoor Unit Net Dimensions	WxHxD	mm	1,650 x 235 x 675	1,650 x 235 x 675	1,650 x 235 x 675	
Outdoor Unit Net Dimensions	WxHxD	mm	940 x 998 x 330	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	MWR-SH11N	MWR-WG00JN	MIM-H04EN	MRW-TA

¹ Performances are based on the following design conditions:

- Nominal Cooling Capacity: Indoor temperature Z?**C DB, 19**C WB, Outdoor temperature 35**C DB
- Nominal Heating Capacity: Indoor temperature 20**C DB, Outdoor temperature 20**C DB, 65**C WB
- UK Cooling Capacity: Indoor temperature 23**C DB, 16**C WB, Outdoor temperature 30**C DB

- 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).







Specifications







M	lodel	Outdoor Indoor	AC120RXADNG/EU AC120RNCDKG/EU	AC140RXADKG/EU AC140RNCDKG/EU	AC140RXADNG/EU AC140RNCDKG/EU
Electrical					
Power Supply	Outdoor	Ф, #, V, Hz	3Ф, 4, 380-415 V, 50 Hz	1Ф, 2, 220–240 V, 50 Hz	3Ф, 4, 380-415 V, 50 Hz
	Indoor	Φ, #, V, Hz	1Ф, 2, 220-240 V, 50 Hz	1Ф, 2, 220-240 V, 50 Hz	1Ф, 2, 220-240 V, 50 Hz
MCA	System (Outdoor/Indoor)	Α	18.6 (16.1 / 2.5)	34.5 (32.0 / 2.5)	18.6 (16.1 / 2.5)
MFA	System	A	20.0	40.0	20.0
Minimum SSC value	Outdoor	MVA	2.7	1.9	2.5
nterconnecting Communication Cable		mm²		Screened 0.75-1.5mm², 2 Core, F1 F2 Connection	
Performance ¹					
Nominal Cooling Capacity	Total Cooling (Sensible Cooling)	kW	12.0 (8.5)	13.4 (9.4)	13.4 (9.4)
UK Cooling Capacity	Total Cooling (Sensible Cooling)	kW	11.4 (8.1)	12.7 (9.0)	12.7 (9.0)
Nominal Heating Capacity		kW	13.2	15.5	15.5
Operating Temperature Range	Cooling	°C	-15.0 ~ 50.0 °C	-15.0 ~ 50.0 °C	-15.0 ~ 50.0 °C
	Heating	°C	-20.0 ~ 24.0 °C	-20.0 ~ 24.0 °C	-20.0 ~ 24.0 °C
Energy Efficiency ²					
Rated Efficiency	EER (Nominal Cooling)	W/W	2.89	2.97	2.97
	COP (Nominal Heating)	W/W	3.47	3.41	3.41
Seasonal Efficiency	SEER / Energy Label	W/W	5.9 / A+	6.1	6.1
	SCOP / Energy Label	W/W	4.0 / A+	4.0	4.0
Air Flow Rate					
Indoor Unit Airflow Rate	H/M/L	l/s	500 / 400 / 333	567 / 450 / 383	567 / 450 / 383
Outdoor Unit Airflow Rate		l/s	1,200	1,833	1,833
Piping Connections					
Liquid Pipe		ø, mm (inch)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)
Gas Pipe		ø, mm (inch)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)
Drain Pipe		ø, mm	VP-25(OD32, ID25)	VP-25(OD32, ID25)	VP-25(OD32, ID25)
Max Piping Length (Height)		m	50 (30)	75 (30)	75 (30)
Refrigerant					
Гуре				R32 (Fluorinated greenhouse gas, GWP=675)	
Factory Charging		kg	2.7	2.9	2.9
		tCO₂e	1.82	1.96	1.96
Precharge to		m	30	30	30
Additional Charge		g/m	50	50	50
Sound					
ndoor Sound Pressure Level	H/M/L	dB(A)	44 / 41 / 37	46 / 42 / 38	46 / 42 / 38
ndoor Sound Power Level		dB(A)	62	64	64
Outdoor Sound Pressure Level	Cooling / Heating	dB(A)	54 / 56	53 / 54	53 / 54
Outdoor Sound Power Level		dB(A)	70	69	69
Dimensions					
Net Weight	Indoor Unit/Outdoor Unit	kg	41.5/ 80.0	41.5/ 91.5	41.5/ 90.5
Indoor Unit Net Dimensions	WxHxD	mm	1,650 x 235 x 675	1,650 x 235 x 675	1,650 x 235 x 675
Outdoor Unit Net Dimensions	WxHxD	mm	940 x 998 x 330	940 x 1,210 x 330	940 x 1,210 x 330

- 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).



Specifications



N	1odel	Outdoor Indoor	AC160JXADGH/EU AC160JNCDEH/EU			
Electrical						
Power Supply	Outdoor	Φ, #, V, Hz	3Ф, 4, 380-415 V, 50 Hz			
	Indoor	Φ, #, V, Hz	1Ф, 2, 220–240 V, 50 Hz			
MCA	System (Outdoor/Indoor)	Α	14.7 (12.0 / 2.7)			
MFA	System	Α	16.2			
Minimum SSC value	Outdoor	MVA	0.725			
Interconnecting Communication Cable		mm²	Screened 0.75-1.5mm², 2 Core, F1 F2 Connection			
Performance ¹						
Nominal Cooling Capacity	Total Cooling (Sensible Cooling)	kW	15.0 (12.0)			
UK Cooling Capacity	Total Cooling (Sensible Cooling)	kW	15.0 (12.0)			
Nominal Heating Capacity		kW	17.5			
Operating Temperature Range	Cooling	°C	-15.0 ~ 50.0 °C			
	Heating	°C	-20.0 ~ 24.0 °C			
Energy Efficiency ²						
Rated Efficiency	EER (Nominal Cooling)	W/W	2.84			
	COP (Nominal Heating)	W/W	3.60			
Seasonal Efficiency	SEER / Energy Label	W/W	5.4			
	SCOP / Energy Label	W/W	3.8			
Air Flow Rate						
Indoor Unit Airflow Rate	H/M/L	l/s	616.7 / 516.7 / 433.3			
Outdoor Unit Airflow Rate		l/s	1,916.7			
Piping Connections						
Liquid Pipe		ø, mm (inch)	9.52 (3/8)			
Gas Pipe		ø, mm (inch)	15.88 (5/8)			
Drain Pipe		ø, mm	VP-25(OD32, ID25)			
Max Piping Length (Height)		m	75 (30)			
Refrigerant						
Туре			R410A (Fluorinated greenhouse gas, GWP=2088			
Factory Charging		kg	3.50			
		tCO₂e	7.31			
Precharge to		m	30			
Additional Charge		g/m	50			
Sound						
Indoor Sound Pressure Level	H/M/L	dB(A)	51 / 47 / 44			
Indoor Sound Power Level		dB(A)	68			
Outdoor Sound Pressure Level	Cooling / Heating	dB(A)	56 / 58			
Outdoor Sound Power Level		dB(A)	73			
Dimensions						
Net Weight	Indoor Unit/Outdoor Unit	kg	42.0 / 96.0			
Indoor Unit Net Dimensions	WxHxD	mm	1,650 x 235 x 675			
Outdoor Unit Net Dimensions	WxHxD	mm	940 x 1,420 x 330			

¹ Performances are based on the following design conditions:

- Nominal Cooling Capacity: Indoor temperature Z?**C DB, 19**C WB, Outdoor temperature 35**C DB
- Nominal Heating Capacity: Indoor temperature 20**C DB, Outdoor temperature 20**C DB, 65**C WB
- UK Cooling Capacity: Indoor temperature 23**C DB, 16**C WB, Outdoor temperature 30**C DB

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	25kW Twin DPM Three Phase
System Composition				
Outdoor Unit			AC200KXAPNH/EU	AC250KXAPNH/EU
Indoor Unit			AC100RNCDKG/EU X2	AC120RNCDKG/EU X2
Branch Pipe Kit			MXJ-2D2509K	MXJ-2D2509K
Outdoor Unit Details				
Power Supply		Ф, #, V, Hz	3Ф, 4, 380-415 V, 50 Hz	3Ф, 4, 380-415 V, 50 Hz
MCA		A	25.0	25.0
MFA		A	31.25	31.25
Minimum SSC value		MVA	2.459	4.139
Airflow Rate		l/s	3,333	3,333
Sound Pressure Level	Cooling / Heating	dB(A)	58 / 60	59 / 61
Sound Power Level		dB(A)	75	77
Net Weight		kg	154.0	154.0
Net Dimensions	WxHxD	mm	940 x 1,630 x 460	940 x 1,630 x 460
Piping Connections				
Total Pipe Length (all lengths combined)		m	75	75
Max Main Pipe Length	L1+a+b	m	75	75
Max Individual Pipe Length After Branch	L2, L3, L4, L5	m	15	15
Max Pipe Length Difference Between Indoor Units	e.g. L2-L3, (a+L3)-(b+L5)	m	5	5
Max Distance Between Indoor Units	D	m	10	10
Max Height Between Indoors And Outdoor	h1	m	30	30
Max Height Difference Between Indoors	h2	m	0.5	0.5
Main Pipe (L1+a+b)	Liquid	ø, mm (inch)	9.52 (3/8)	9.52 (3/8)
	Gas	ø, mm (inch)	19.05 (3/4)	22.22 (7/8)
Individual Liquid Pipe After Branch (L2, L3, L4, L5)	Liquid	ø, mm (inch)	9.52 (3/8)	9.52 (3/8)
	Gas	ø, mm (inch)	15.88 (5/8)	15.88 (5/8)
Refrigerant*				
Гуре			R410A (Fluorinated gree	enhouse gas, GWP=2088)

 $^{^{\}star}\, \text{Additional refrigerant charge for DPM systems is different than single CAC, please consult the relevant installation manual}$

Twin DPM

