

# 1. Specification

Buyer Model	Set (Indoor / Outdoor)		Unit	AC24BQ.SSK (AC24BQ.NSK / AC24BQ.U24)		
Factory Model				S3-M24K2RZA (S3NM24K2RZA / S3UM24K2RZA)		
Capacity	Cooling	Min ~ Rated ~ Max	kW	0.90	6.60	7.42
	Cooling (T3)	Min ~ Rated ~ Max	Btu/h	3,071	22,520	25,317
	Heating	Min ~ Rated ~ Max	kW	0.80	7.50	8.64
	Heating -7 °C	Max	Btu/h	3,071	25,590	29,460
Power Input	Cooling	Min ~ Rated ~ Max	W	210	2,164	2,500
	Heating	Min ~ Rated ~ Max	W	210	2,238	2,750
	Cooling	Min ~ Rated ~ Max	A	1.2	9.8	14.0
Running Current	Heating	Min ~ Rated ~ Max	A	1.2	10.0	14.0
			W/W		3.05	
EER			(Btu/h)/W		10.41	
EER (T3)			W/W		-	
SEER			(Btu/h)/W		-	
COP					6.90	
SCOP			W/W		3.35	
P design C / P design H			(Btu/h)/W		11.43	
Energy Label Grade	Cooling / Heating				4.30	
Annual Energy Consumption	Cooling / Heating		kW		6.6 / 5.0	
Power Supply			-		A++ / A+	
Available Voltage Range			kWh/year		335 / 1628	
Power Factor			Ø, V, Hz		1, 220-240, 50	
Moisture Removal			V		187 ~ 276	
Indoor	Air Flow Rate	Cooling, Max / H / M / L	m³/min			18.3 / 16.1 / 13.1 / 10.5
		Heating, Max / H / M / L	m³/min			19.8 / 17.6 / 14.3 / 11.0
	Sound Pressure Level	Cooling, Max / H / M / L / SL	dB(A)			49 / 47 / 42 / 34 / 31
		Heating, Max / H / M / L	dB(A)			50 / 47 / 42 / 34
	Sound Power Level		dB(A)			65
	Dimensions (W x H x D)	Net	mm			998 x 345 x 212
		Shipping	mm			1089 x 428 x 298
	Weight	Net	kg			13.5
		Shipping	kg			18.3
	Exterior Color Code					Munsell 7.5PB 10/2 (RAL 9016)
Outdoor	Air Flow Rate	Max	m³/min			49.0
	Fan Motor Speed	Cooling, Min ~ Max	rpm			190 ~ 850
		Heating, Min ~ Max	rpm			190 ~ 850
	Sound Pressure Level	Cooling, Rated	dB(A)			56
		Heating, Rated	dB(A)			57
	Sound Power Level		dB(A)			70
	Dimensions (W x H x D)	Net	mm			870 x 650 x 330
		Shipping	mm			1026 x 683 x 446
	Weight	Net	kg			46.4
		Shipping	kg			49.9
Max. Fuse Size		A			20	
Exterior Color Code					Munsell 9.54Y 8.34/1.31 (RAL 9001)	
Operation Range	Cooling	°C DB			-15 ~ 48	
	Heating	°C DB			-10 ~ 24	
	Heating	°C WB			-10 ~ 18	
Circuit Breaker		A			25	
Power Supply Cable		No. x mm²			3 x 2.5	
Power Supply to Unit					Outdoor	
Power and Communication Cable		No. x mm²			4 x 1.0	
Piping	Size	Liquid	mm			ø 6.35
		Gas	mm			ø 15.88
Connections Method	Indoor / Outdoor				Flared / Flared	
Drain Hose Size	O.D, I.D		mm		21.5, 16.0	
Between Indoor & Outdoor	Piping Length	Min / Standard / Max	m			3 / 7.5 / 30
	Max. Elevation Difference	No Charge	m			7.5
	Piping Connection Heat Insulation		m			15
Refrigerant	Type					Both liquid and gas pipes
	Pre Charge		g			R32
	Additional Charge		g/m			1100
	Control					20
	Global Warning Potential					Electronic Expansion Valve
	I-CO <sub>2</sub> eq					675
Defrost Method					0.743	
Tool Code (Chassis)	Indoor / Outdoor				Reverse Cycle	
Compressor	Type					SK / U24A
	Model					Twin Rotary
	Motor Type					DKT176MAJ
	Oil Type / Maker					BLDC
	Oil Charge		cc			PVE (FW68D) / IDEMITSU
	O.L.P. Name					470
Manufacturer / Country of Origin						
Fan(Indoor)	Type					LG Electronics / China
	Motor Output		W			Cross Flow Fan
Fan(Outdoor)	Type					58
	Motor Type					Propeller Fan
	Motor Output		W			BLDC
	Motor Insulation					85
Motor Enclosure / Ingress Protection					Class E	
Heat Exchanger	Material, Tube / Fin					TEAO / IPX4
	(ø x Row x Column x FPI x L) x Qty.	#1				Cu / Al
	(ø x Row x Column x FPI x L) x Qty.	#2				(ø7 x 2 x 16 x 20 x 744) x 1
	(ø x Row x Column x FPI x L) x Qty.	#3				-
	(ø x Row x Column x FPI x L) x Qty.	#4				-
	Corrosion Protection					PCM
	Fin Type					Slit
	Material, Tube / Fin					Cu / Al
(ø x Row x Column x FPI x L) x Qty.	#1				(ø7 x 2 x 28 x 18 x 938) x 1	
(ø x Row x Column x FPI x L) x Qty.	#2				-	
Corrosion Protection					Gold	
Fin Type					Corrugate	

- Note
- : No Relation
  - All power supply and communication cables and circuit breaker must comply with applicable local and national codes.
  - Exterior color code is approximate value.
  - It is difficult to measure air flow rate of sleep because of small volume.
  - Maximum heating capacity is for heating operation without any frost.
  - Fan motor speed can vary +20 rpm according to the operating conditions.
  - It may cause reliability, performance, noise, and vibration problem, unless meeting the range of connecting pipe length. Keep the minimum piping length by making loops, although indoor unit and outdoor unit are close.
  - This product contains fluorinated greenhouse gases.
  - Some specifications may be changed without notifications due to our policy of innovation.
  - Test conditions are based on EN 14511 and EN 14825.

Conversion Formula
kW = Btu/h x 0.0002931
CFM = CMM x 35.3

## Multi Model

Buyer Model	Indoor		Unit	AC24BQ.NSK		
Factory Model				S3NM24K2RZA		
Power Supply			Ø, V, Hz	1, 220-240, 50		
Power Input	Cooling		W	58		
	Heating		W	58		
Running Current	Cooling		A	0,4		
	Heating		A	0,4		
Indoor	Air Flow Rate	H / M / L	m <sup>3</sup> /min	15.2 / 12.6 / 8.9		
	Sound Pressure Level	H / M / L	dB(A)	45 / 40 / 33		
	Sound Power Level		dB(A)	65		
	Dimensions (W × H × D)	Net	mm	998	345	212
		Shipping	mm	1089	428	298
	Weight	Net	kg	13.5		
Shipping		kg	18.3			
Fan(Indoor)	Type		-	Cross Flow Fan		
	Motor Output		W	58		
Piping	Size	Liquid	mm	Ø 6.35		
		Gas	mm	Ø 12.7		
Connections Method	Indoor		-	Flared		
Drain Hose Size	O,D, I,D		mm	21.5, 16.0		
Defrost Method			-	Reverse Cycle		
Tool Code (Chassis)	Indoor		-	SK		

### Note:

1. Capacities are based on the following conditions:

Cooling: - Indoor Temperature 27 °C (80.6 °F) DB / 19 °C (66.2 °F) WB  
 - Outdoor Temperature 35 °C (95 °F) DB / 24 °C(75.2 °F) WB

Heating: - Indoor Temperature 20 °C (68 °F) DB / 15 °C(59 °F) WB  
 - Outdoor Temperature 7 °C (44.6 °F) DB / 6 °C(42.8 °F) WB

Piping Length - Interconnecting Piping Length 7.5 m  
 - Level Difference of Zero

2. Wiring cable size must comply with the applicable local and national code.

3. The specification may be subject to change without prior notice for purpose of improvement.

Conversion Formula
kW = Btu/h x 0.0002931
cfm = CMM x 35.3