

1. Models Line Up

1.1 Indoor Unit

Category	Picture	Chassis	Nominal Capacity (kBtu/h)	Model Name
Gallery		SE	9	A09GA1.NSE (S3NM09EL16A.EK6GEEU)
Gallery		SE	9	A09GA2.NSE (S3NM09EL26A.EK6GEEU)
Gallery		SE	12	A12GA2.NSE (S3NM12EL26A.EK6GEEU)
Gallery		SE	12	A12GA1.NSE (S3NM12EL16A.EK6GEEU)

1. Models Line Up

1.2 Outdoor Unit

Power Supply	Picture	Chassis	Nominal Capacity (kBtu/h)	Model Name
1 Ø , 220 ~ 240 V , 50 Hz		UL2	9	A09GA1.U18 (S3UM09EL16A.EC6GEEU)
1 Ø , 220 ~ 240 V , 50 Hz		UL2	9	A09GA2.U18 (S3UM09EL26A.EC6GEEU)
1 Ø , 220 ~ 240 V , 50 Hz		UL2	12	A12GA2.U18 (S3UM12EL26A.EC6GEEU)
1 Ø , 220 ~ 240 V , 50 Hz		UL2	12	A12GA1.U18 (S3UM12EL16A.EC6GEEU)

3. Specifications

Buyer Model				A09GA1.SSE (A09GA1.NSE / A09GA1.U18)		
Factory Model	Set (Indoor / Outdoor)		Unit	S3-M09EL16A.EK6GEEU (S3NM09EL16A.EK6GEEU / S3UM09EL16A.EC6GEEU)		
Capacity	Cooling	Min ~ Rated ~ Max	kW	0.890	2,600	3,700
			Btu/h	3,039	8,877	12,633
			kJ/h	-	-	-
	Cooling (T3)	Min ~ Rated ~ Max	kW	-	-	-
			Btu/h	-	-	-
			kJ/h	-	-	-
Heating	Min ~ Rated ~ Max	kW	0.890	3,300	4,100	
		Btu/h	3,039	11,267	13,999	
		kJ/h	-	-	-	
Heating -7°C	Max	kW	-	2,600	-	
Power Input	Cooling	Min ~ Rated ~ Max	W	200	623	1,400
	Cooling (T3)	Min ~ Rated ~ Max	W	-	-	-
	Heating	Min ~ Rated ~ Max	W	200	808	1,650
Running Current	Cooling	Min ~ Rated ~ Max	A	1.10	3.00	6.00
	Cooling (T3)	Min ~ Rated ~ Max	A	-	-	-
	Heating	Min ~ Rated ~ Max	A	1.10	3.70	7.20
EER			WW	4.17		
			(Btu/h)/W	14.25		
			(kJ/h)/W	-		
EER (T3)			WW	-		
			(Btu/h)/W	-		
SEER			-	7.3		
			WW	4.08		
COP			(Btu/h)/W	13.95		
			(kJ/h)/W	-		
SCOP			-	4.3		
P design C / P design H			kW	2.6 / 2.8		
Energy Label Grade		Cooling / Heating	-	A++ / A+		
Annual Energy Consumption		Cooling / Heating	kWh/year	124 / 911		
Weighted EER			(Btu/h)/W	-		
			WW	-		
Power Supply			Ø, V, Hz	1, 220 ~ 240, 50		
Available Voltage Range			V	187 ~ 276		
Power Factor		Cooling / Heating	%	97.0 / 96.0		
Moisture Removal			l/h	1.10		
Indoor	Air Flow Rate	Cooling, SH / H / M / L	m³/min	11.0 / 10.0 / 8.0 / 6.0		
		Heating, SH / H / M / L	m³/min	11.0 / 10.0 / 8.0 / 6.0		
	Sound Pressure Level	Cooling, SH / H / M / L / SL	dB(A)	- / 42 / 36 / 28 / 20		
		Heating, SH / H / M / L	dB(A)	- / 42 / 36 / 28		
	Sound Power Level		dB(A)	60		
			dB(A)	62		
	Dimensions (W × H × D)	Net	mm	652 x 158 x 652		
		Shipping	mm	744 x 235 x 736		
Outdoor	Weight	Net	kg	20		
		Shipping	kg	23		
	Exterior Color Code		-	Cream White (Cream White)		
	Air Flow Rate	Max	m³/min	35.0		
	Fan Motor Speed	Cooling, Min ~ Max	rpm	200 ~ 840		
		Heating, Min ~ Max	rpm	400 ~ 800		
	Sound Pressure Level	Cooling, Rated	dB(A)	50		
		Heating, Rated	dB(A)	53		
	Sound Power Level		dB(A)	62		
		dB(A)	62			
Dimensions (W × H × D)	Net	mm	770 x 545 x 288			
	Shipping	mm	920 x 593 x 388			
Weight	Net	kg	29.9			
	Shipping	kg	32			
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	-15 ~ 24			
	Heating	°C WB	-15 ~ 18			
Circuit Breaker			A	15		
Power Supply to Unit			-	Outdoor		
Power and Communication Cable			No. × mm²	4 × 1		
Piping	Size	Liquid	mm	ø 6.35		
		Gas	mm	ø 9.52		
Connections Method		Indoor / Outdoor	-	Flared / Flared		
Drain Hose Size			O.D, I.D	mm	21.5, 16	
Between Indoor & Outdoor	Piping Length	Min / Standard / Max	m	3 / 7.5 / 20		
		No Charge	m	10		
	Max. Elevation Difference		m	10		
Piping Connection Heat Insulation			-	Both liquid and gas pipes		
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 values.						
• Maximum heating capacity is for heating operation without any frost.						
• Fan motor speed could 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.						

3. Specifications

Buyer Model		Set (Indoor / Outdoor)		Unit	A09GA1.SSE (A09GA1.NSE / A09GA1.U18)		
Factory Model					S3-M09EL16A.EK6GEEU (S3NM09EL16A.EK6GEEU / S3UM09EL16A.EC6GEEU)		
Refrigerant	Type		-	-	R32		
	Pre Charge		kg	-	0.800		
	Additional Charge		g/m	-	20		
	Control		-	-	Electronic Expansion Valve		
	Global Warming Potential		-	-	675		
	t-CO ₂ eq		-	-	0.540		
Defrost Method			-	-	Reverse Cycle		
Tool Code (Chassis)			Indoor / Outdoor		-	SE / UL2	
Compressor	Type		-	-	Twin Rotary		
	Model		-	-	DST128MCA		
	Motor Type		-	-	BLDC		
	Oil Type / Maker		-	-	PVE (FW68D) / IDEMITSU		
	Oil Charge		cc	-	330		
	O.L.P. Name		-	-	-		
	Manufacturer / Country of Origin		-	-	LG Electronics / China		
Fan (Indoor)	Type		-	-	Turbo Fan		
	Motor Output		W	-	36		
Fan (Outdoor)	Type		-	-	Propeller Fan		
	Motor Type		-	-	BLDC		
	Motor Output		W	-	43		
	Motor Insulation		-	-	Class E		
	Motor Enclosure / Ingress Protection		-	-	TEAO / IPX4		
Heat Exchanger	Evaporator	Material, Tube / Fin		-	-	Cu / Al	
		(ø x Row x Column x FPI x L) x Qty.		#1	-	(ø7 x 2 x 21 x 21 x 441) x 1	
		(ø x Row x Column x FPI x L) x Qty.		#2	-	-	
		(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	
	Condenser	Fin Type		-	-	Slit	
		Material, Tube / Fin		-	-	Cu / Al	
		(ø x Row x Column x FPI x L) x Qty.		#1	-	(ø7 x 2 x 24 x 18 x 814) x 1	
		(ø x Row x Column x FPI x L) x Qty.		#2	-	-	
		Corrosion Protection		-	-	Gold	
Fin Type		-	-	Corugate			

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 values.
- Maximum heating capacity is for heating operation without any frost.
- Fan motor speed could 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.

4. Function List

Category	Function	A09GA1.SSE S3-M09EL16A.EK6GEFU	
Air Flow	Air Supply Outlet		3
	Airflow Direction Control (Left & Right)		X
	Airflow Direction Control (Up & Down)		X
	Auto Swing (Left & Right)		X
	Auto Swing (Up & Down)		X
	Fan Speed Steps (Fan / Cool / Heat)		6 / 6 / 6
	Natural Wind (Auto Wind)		O
	Jet Cool / Jet Heat (Power Wind)		O / O
	Comfort Air		O
Air Purifying	Pre-filter (Washable)		O
	Deodorizing Filter		X
	Micro Dust Filter		X
	Allergy Filter		X
	Plasma Air Purifier (Ionizer)		O
Installation	Drain Pump		X
Reliability	Hot Start		O
	Self Diagnosis		O
	De-ice Control (Defrost)		O
	Dry (Dehumidification) Operation		O
Convenience	Auto Changeover		O
	Auto Operation (Artificial Intelligence)		O
	Auto Cleaning (Coil Dry)		O
	Auto Restart Operation		O
	Child Lock ¹		O
	Forced Operation		O
	Group Control ¹		X
	Sleep Mode		12hr
	Timer 24hr (On/Off) / 7hr (Off)		O / X
	Timer (Weekly) ¹		X
	Two Thermistor Control ¹		O
	Low Ambient Operation		O
	Overheating Protection		O
	Low Heating		X
	Voice Control		X
	Outdoor Silent Mode		O
	Mosquito Away		X
	Smart Diagnosis		O
	Indoor Unit Display Type		1 LED
	Indoor Unit Display Light		On/Off
	Energy Display		X
	Air Quality Indicator (Dust Sensor)		X
Energy Saving	Energy Saving		O
	Energy Control		X
	Gen Mode		X
			X
Individual Control	Wired Remote Controller (Premium) ²		
	Wired Remote Controller (Standard) ²		PQRCVSL0(QW) / PREMTB(0/B)01
	Wired Remote Controller (Simple with Mode Selection) ²		PQRCVCL0Q(W)
	Wired Remote Controller (Simple without Mode Selection) ²		PQRCHA0Q(W)
	Handheld Wireless Controller		AKB76044303
	Setting Temperature Range (Cooling)		18~30 °C (64~86 °F)
CAC Network Function	Setting Temperature Range (Heating)		16~30 °C (60~86 °F)
	General Central Controller (Non LGAP)		X
	Network Solution (LGAP)		O
	Dry Contact ²		PDRYCB000, PDRYCB100, PDRYCB400, DRRYCB500
	PDI (Power Distribution Indicator) ²		X
	Outdoor Unit PI 485 ²		PMNFP14A0/PMNFP14A1
Special Function Kit	Wi-Fi ²		Embedded
	Water Level Sensor Connection ²		X
	Wind Baffle Kit ²		X
	Sump Heater		X
	Sheath Heater ²		X
	Crank Case Heater		X
Others	Smart Inverter Monitoring System (SIMs) ²		X
	Mode Lock		Cooling Only or Heating Only
	DRED (Demand Response Enabling Device)		X

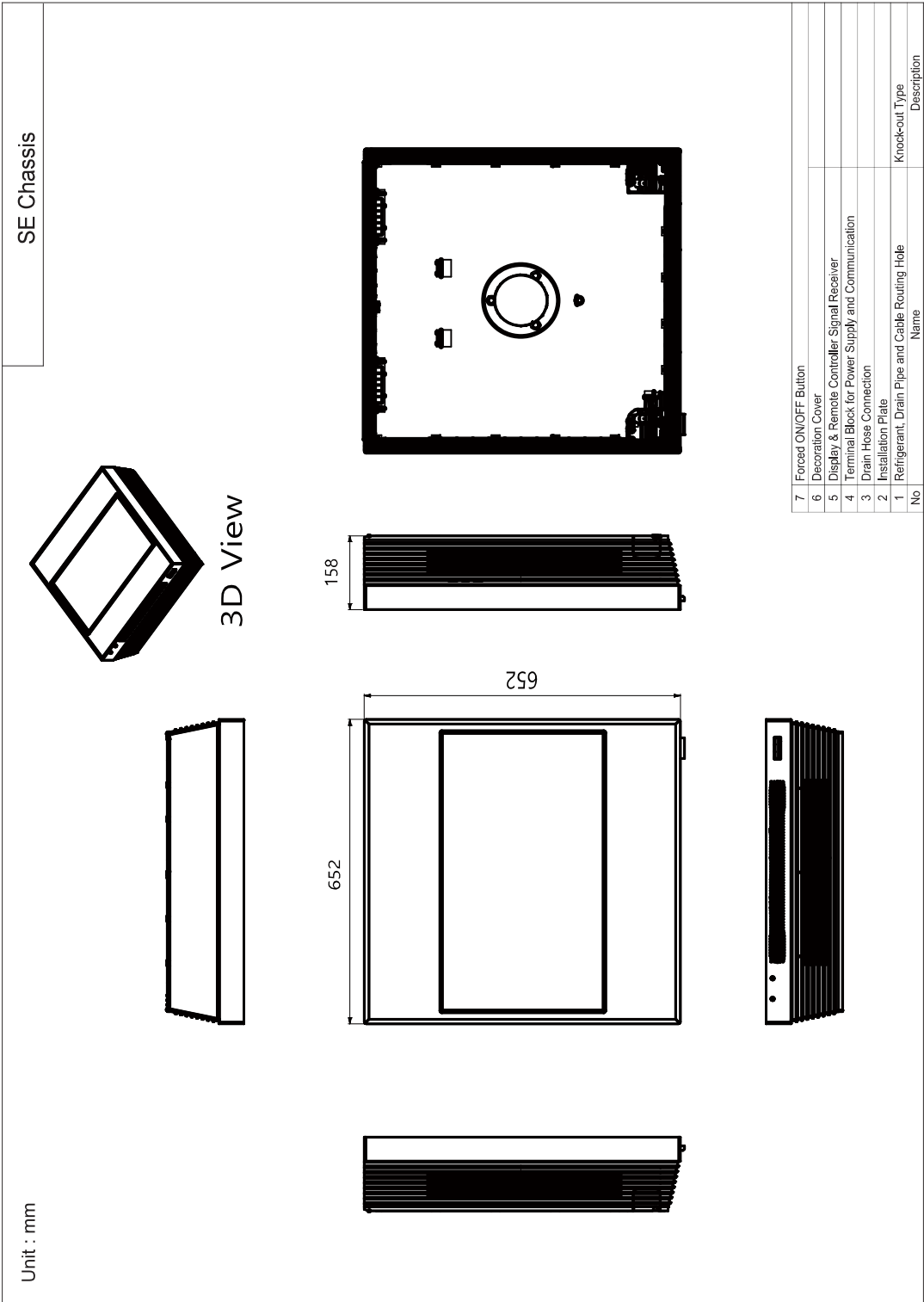
Note

- O : Applied, X : Not applied
- Filters are optional in some specific areas.
- ¹ : This function can be operated only when the wired remote controller is connected. The applicability of each function depends on the above table.
- ² : Optional accessories must be purchased separately. If shown as "Embedded", this function is included in product.
- The function Wi-Fi is only compatible with 2.4 GHz band. (802.11 b/g/n)
- Some specifications may be changed without notifications due to our policy of innovation.

5. Dimensional Drawings

5.1 Indoor Unit

A09GA1.NSE (S3NM09EL16A.EK6GEEU)



5. Dimensional Drawings

5.2 Outdoor Unit

A09GA1.U18 (S3UM09EL16A.EC6GEEU)

UL2 Chassis

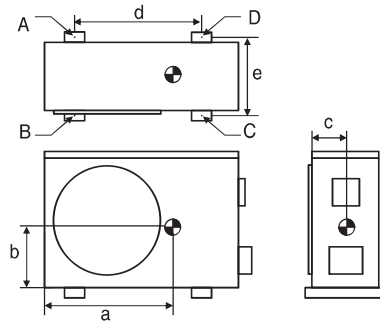
Unit : mm

Drain Hole 2-Ø20

6	Liquid Pipe Connection	Flare Joint
5	Gas Pipe Connection	Flare Joint
4	Service Valve Cover	
3	Power and Communication Cable Hole	
2	Control Box	
1	Air Outlet	

5. Dimensional Drawings

5.3 Corner Weight and Center of Gravity Dimension for Outdoor Unit



Model	Tool	Weight (kg)		Center of Gravity (mm)			Leg (mm)		Corner Weight (kg)			
		Shipping	Net	a	b	c	d	e	A	B	C	D
A09GA1.U18	UL2	32.0	29.9	507	237	143	558	330	4.1	4.3	10.8	10.6
A09GA2.U18	UL2	32.0	29.9	507	237	143	558	330	4.1	4.3	10.8	10.6
A12GA2.U18	UL2	32.0	29.9	507	237	143	558	330	4.1	4.3	10.8	10.6
A12GA1.U18	UL2	32.0	29.9	507	237	143	558	330	4.1	4.3	10.8	10.6

Model	Tool	Weight (lb.)		Center of Gravity (in.)			Leg (in.)		Corner Weight (lb.)			
		Shipping	Net	a	b	c	d	e	A	B	C	D
A09GA1.U18	UL2	70.5	65.9	19-31/32	9-11/32	5-5/8	21-31/32	13	9.1	9.5	23.9	23.5
A09GA2.U18	UL2	70.5	65.9	19-31/32	9-11/32	5-5/8	21-31/32	13	9.1	9.5	23.9	23.5
A12GA2.U18	UL2	70.5	65.9	19-31/32	9-11/32	5-5/8	21-31/32	13	9.1	9.5	23.9	23.5
A12GA1.U18	UL2	70.5	65.9	19-31/32	9-11/32	5-5/8	21-31/32	13	9.1	9.5	23.9	23.5

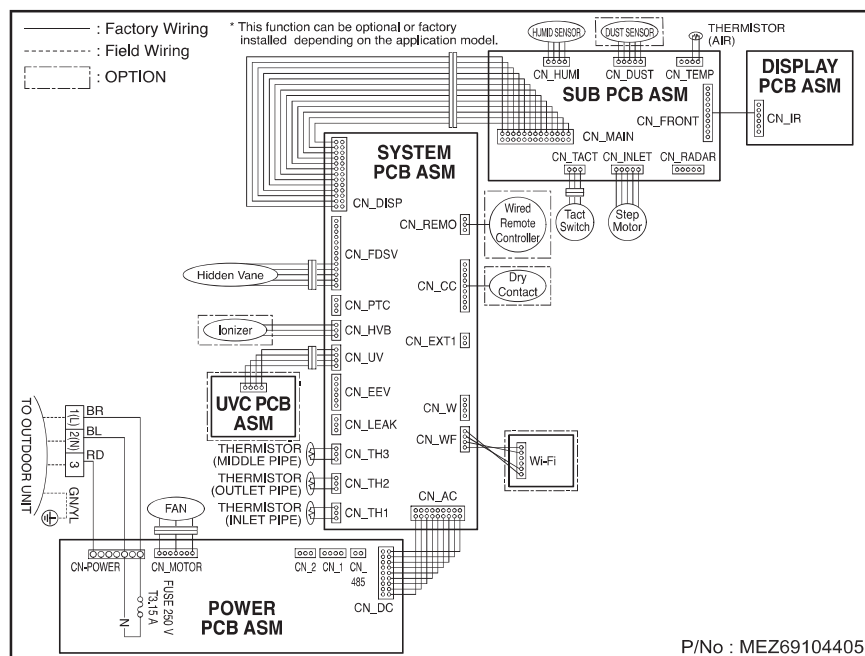
Note

- Design features and information of indoor and outdoor unit may be changed without notifications due to our policy of innovation.
- The center of gravity and corner weight may be different from the actual values because these are simulation results.

6. Wiring Diagrams

6.1 Indoor Unit

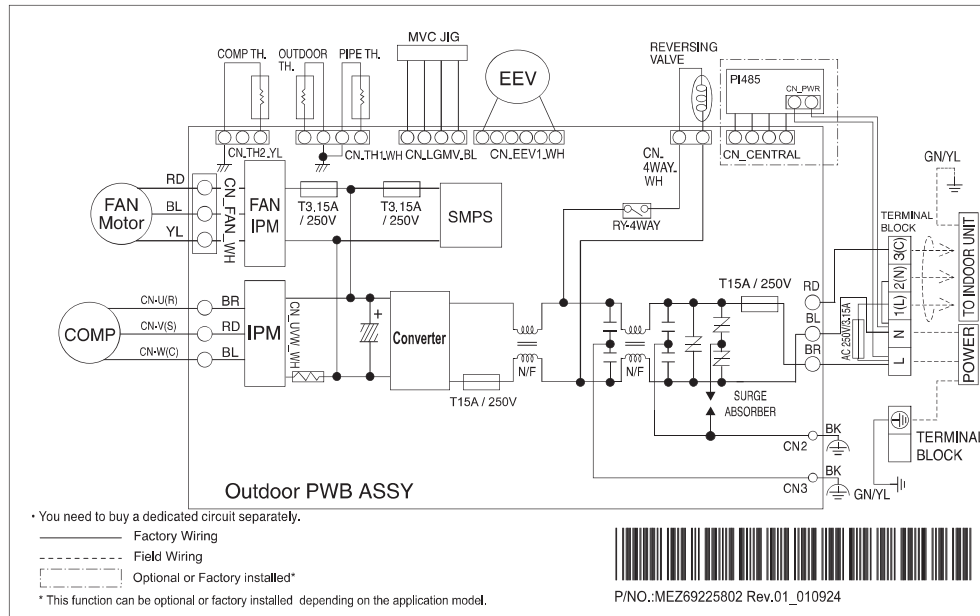
A09GA1.NSE (S3NM09EL16A.EK6GEEU)



6. Wiring Diagrams

6.2 Outdoor Unit

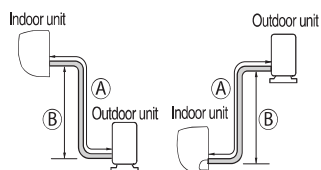
A09GA1.U18 (S3UM09EL16A.EC6GEEU)



9. Capacity Coefficient Factor

9.2 Pipe Size, Length and Elevation

Model	Pipe Size				Standard Pipe Length [m (ft.)]	Min. / Max. Pipe Length A [m (ft.)]	Max. Elevation B [m (ft.)]	Additional Refrigerant [g/m (oz./ft.)]	No Charge Pipe Length [m (ft.)]
	Gas		Liquid						
	mm	inch	mm	inch					
A09GA1.SSE (S3-M09EL16AEK6GEEU)	ø 9.52	ø 3/8	ø 6.35	ø 1/4	7.5 (24.6)	3 / 20 (9.8 / 65.6)	10 (32.8)	20 (0.22)	10 (32.8)
A09GA2.SSE (S3-M09EL26AEK6GEEU)	ø 9.52	ø 3/8	ø 6.35	ø 1/4	7.5 (24.6)	3 / 20 (9.8 / 65.6)	10 (32.8)	20 (0.22)	10 (32.8)
A12GA2.SSE (S3-M12EL26AEK6GEEU)	ø 9.52	ø 3/8	ø 6.35	ø 1/4	7.5 (24.6)	3 / 20 (9.8 / 65.6)	10 (32.8)	20 (0.22)	10 (32.8)
A12GA1.SSE (S3-M12EL16AEK6GEEU)	ø 9.52	ø 3/8	ø 6.35	ø 1/4	7.5 (24.6)	3 / 20 (9.8 / 65.6)	10 (32.8)	20 (0.22)	10 (32.8)

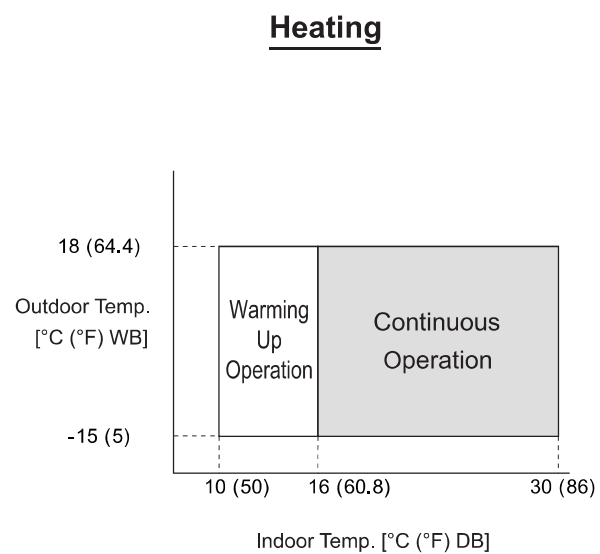
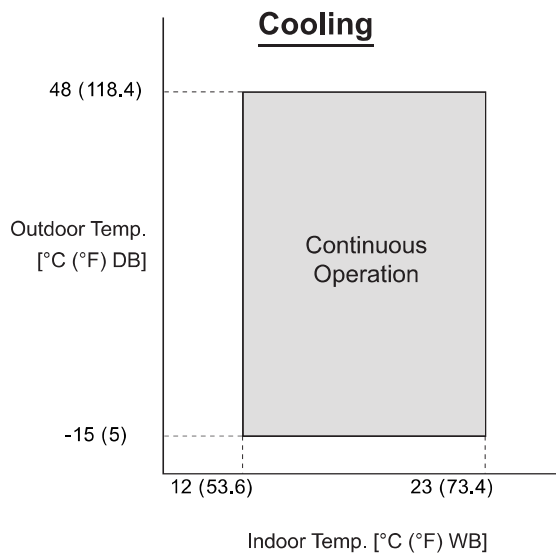


WARNING

- It may cause reliability, performance, noise, and vibration problem, if piping limitations are not met. Keep minimum piping length by making loops, although indoor unit and outdoor unit are close.

10. Operation Range

A09GA1.SSE (S3-M09EL16A.EK6GEEU)



Note

The figures are based on the following conditions :
– Equivalent Piping Length : 7.5 m (24.6 ft.)
– Level Difference : 0 m (0 ft.)