

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				A12GA1.SSE (A12GA1.NSE / A12GA1.U18)		
Factory Model	Set (Indoor / Outdoor)		Unit	S3-M12EL16A.EK6GEEU (S3NM12EL16A.EK6GEEU / S3UM12EL16A.EC6GEEU)		
Capacity	Cooling	Min ~ Rated ~ Max	kW	0.890	3.700	4.000
			Btu/h	3,039	12,633	13,658
			kJ/h	-	-	-
	Cooling (T3)	Min ~ Rated ~ Max	kW	-	-	-
			Btu/h	-	-	-
			kV	0.890	4.000	4.700
Heating	Min ~ Rated ~ Max	Btu/h	3,039	13,658	16,036	
		kJ/h	-	-	-	
		kV	-	3.200	-	
Power Input	Cooling	Min ~ Rated ~ Max	W	200	1,057	1,450
	Cooling (T3)	Min ~ Rated ~ Max	W	-	-	-
	Heating	Min ~ Rated ~ Max	W	200	1,078	1,650
	Heating	Min ~ Rated ~ Max	A	1.10	4.60	6.20
Running Current	Cooling (T3)	Min ~ Rated ~ Max	A	-	-	-
	Heating	Min ~ Rated ~ Max	A	1.10	4.80	7.20
	EER			WW	3.50	-
			(Btu/h)/W	11.95	-	
			(kJ/h)/W	-	-	
EER (T3)			WW	-	-	
			(Btu/h)/W	-	-	
SEER			-	7.0	-	
			WW	3.71	-	
COP			(Btu/h)/W	12.67	-	
			(kJ/h)/W	-	-	
SCOP			-	4.3	-	
P design C / P design H			kV	3.7 / 2.8	-	
Energy Label Grade		Cooling / Heating	-	A++ / A+	-	
Annual Energy Consumption		Cooling / Heating	kWh/year	184 / 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	1.30	-	
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	-	
Weight	Net	kg	16.7	-		
	Shipping	kg	19.4	-		
Exterior Color Code			-	Cream White (Cream White)	-	
Outdoor	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 x 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	A12GA1.SSE (A12GA1.NSE / A12GA1.U18) S3-M12EL16A.EK6GEEU (S3NM12EL16A.EK6GEEU / S3UM12EL16A.EC6GEEU)	
Factory Model					
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

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- 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

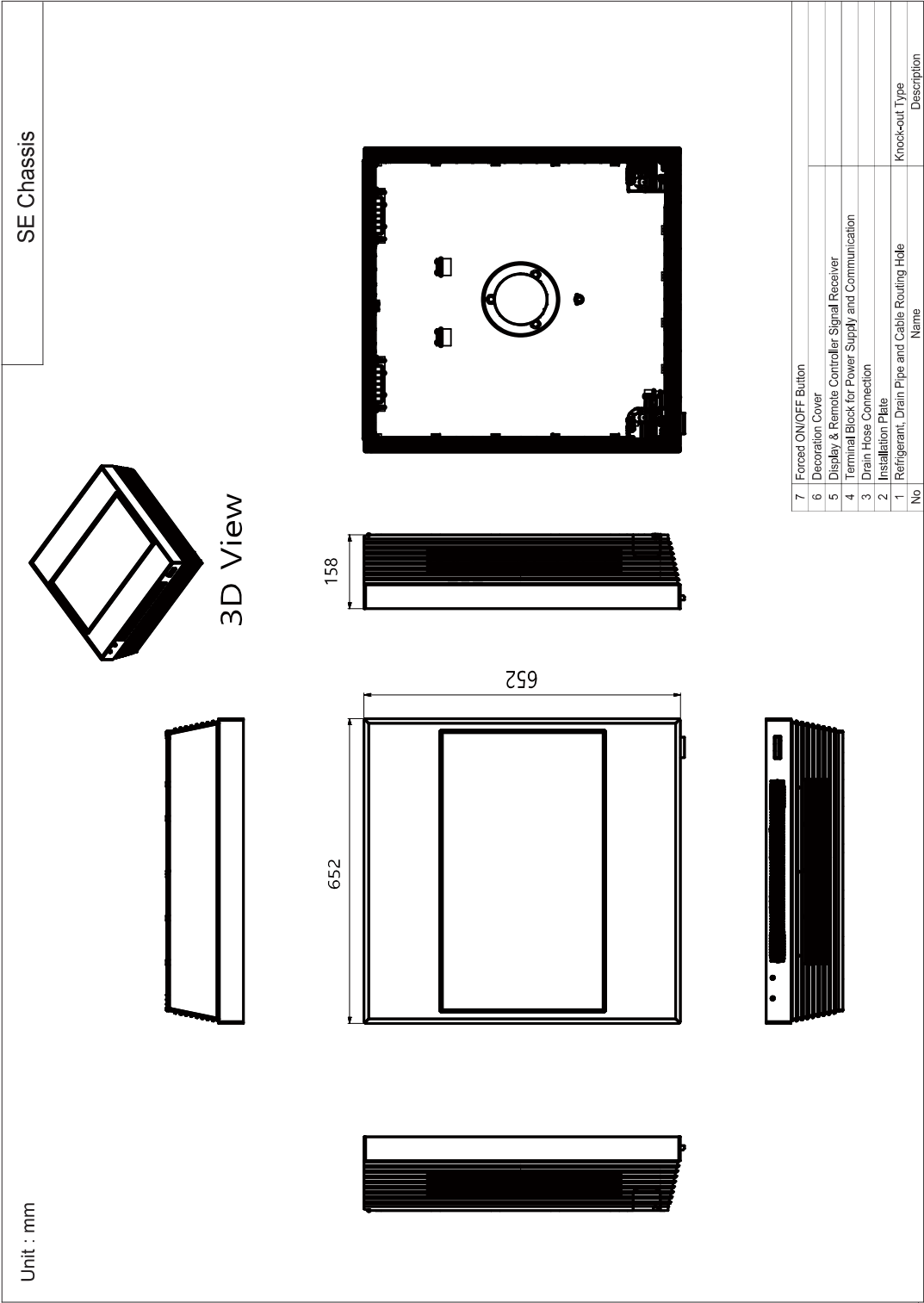
Category	Function	A12GA1.SSE S3-M12EL16A.EK6GEFU	
Air Flow	Air Supply Outlet		3
	Airflow Direction Control (Left & Right)		X
	Airflow Direction Control (Up & Down)		X
	Auto Swing (Left & Right)		X
	Auto Swing (Up & Down)		X
	Fan Speed Steps (Fan / Cool / Heat)		6 / 6 / 6
	Natural Wind (Auto Wind)		O
	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
Energy Saving	Air Quality Indicator (Dust Sensor)		X
	Energy Saving		O
	Energy Control		X
	Gen Mode		X
Individual Control	Wired Remote Controller (Premium) ²		X
	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

A12GA1.NSE (S3NM12EL16A.EK6GEEU)



5. Dimensional Drawings

A12GA1.U18 (S3UM12EL16A.EC6GEEU)

Unit : mm

UL2 Chassis

Top view of the UL2 chassis. It shows the internal layout of the unit, including the control box, power and communication cable hole, and air outlet. The dimensions are as follows:

- Overall width: 353 mm
- Overall height: 558 mm
- Distance from top edge to control box: 106 mm
- Distance from top edge to power and communication cable hole: 330 mm
- Distance from top edge to air outlet: 113 mm

Front view of the UL2 chassis. It shows the fan and the control box. The dimensions are as follows:

- Overall width: 353 mm
- Overall height: 558 mm
- Distance from top edge to control box: 106 mm
- Distance from top edge to fan: 330 mm
- Distance from top edge to air outlet: 113 mm

Side view of the UL2 chassis. It shows the fan and the control box. The dimensions are as follows:

- Overall width: 353 mm
- Overall height: 558 mm
- Distance from top edge to control box: 106 mm
- Distance from top edge to fan: 330 mm
- Distance from top edge to air outlet: 113 mm

Rear view of the UL2 chassis. It shows the fan and the control box. The dimensions are as follows:

- Overall width: 353 mm
- Overall height: 558 mm
- Distance from top edge to control box: 106 mm
- Distance from top edge to fan: 330 mm
- Distance from top edge to air outlet: 113 mm

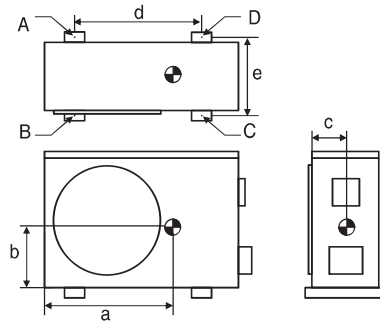
Bottom view of the UL2 chassis. It shows the fan and the control box. The dimensions are as follows:

- Overall width: 353 mm
- Overall height: 558 mm
- Distance from top edge to control box: 106 mm
- Distance from top edge to fan: 330 mm
- Distance from top edge to air outlet: 113 mm

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

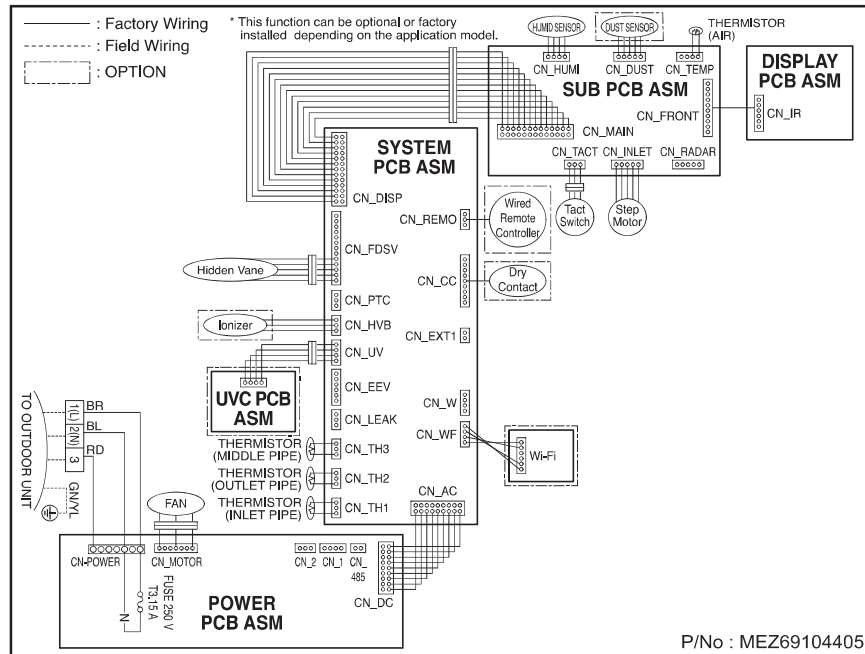
Model	Tool	Weight (lb.)		Center of Gravity (in.)			Leg (in.)		Corner Weight (lb.)			
		Shipping	Net	a	b	c	d	e	A	B	C	D
A09GA1.U18	UL2	70.5	65.9	19-31/32	9-11/32	5-5/8	21-31/32	13	9.1	9.5	23.9	23.5
A09GA2.U18	UL2	70.5	65.9	19-31/32	9-11/32	5-5/8	21-31/32	13	9.1	9.5	23.9	23.5
A12GA2.U18	UL2	70.5	65.9	19-31/32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

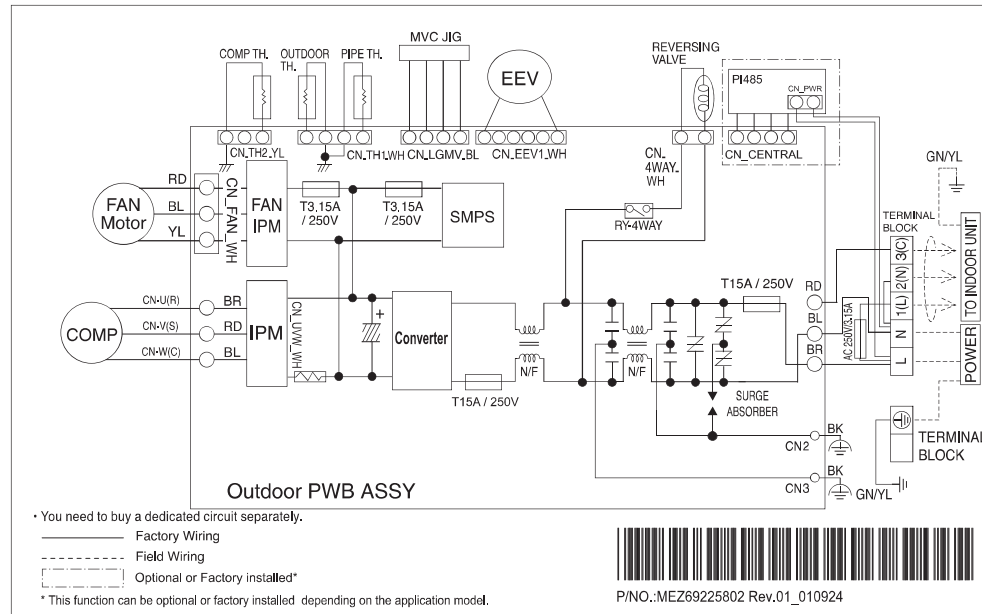
6. Wiring Diagrams

A12GA1.NSE (S3NM12EL16A.EK6GEEU)



6. Wiring Diagrams

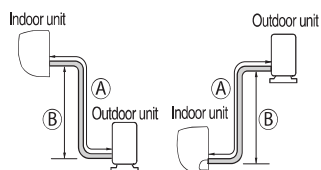
A12GA1.U18 (S3UM12EL16A.EC6GEEU)



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)

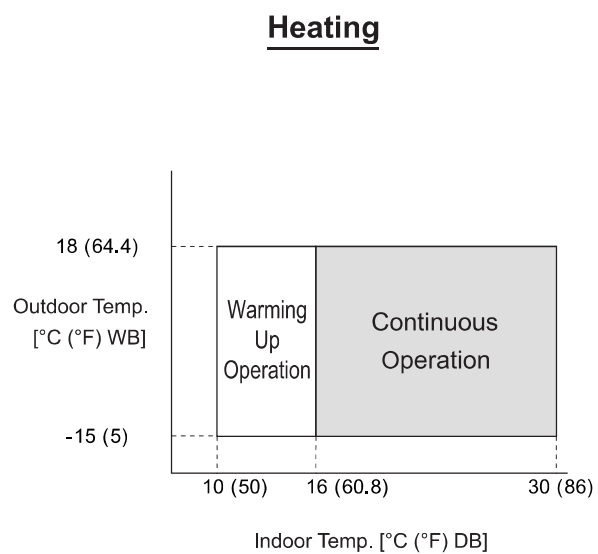
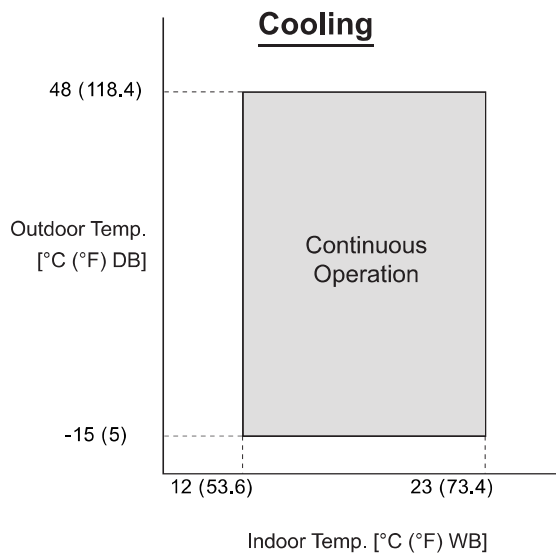


WARNING

- 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

A12GA1.SSE (S3-M12EL16A.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.)