



Submittal Data Sheet

Outdoor Unit Model#: SC-27Z-HH-M4B

27K Multi-Zone (3-Zone) Heat Pump Condenser

Location:	Approval:
Engineer:	Date:
Submitted to:	Construction:
Submitted by:	Unit #:
Reference:	Drawing #:



OUTDOOR UNIT SPECIFICATION

Compressor Type		2 - Stage Rotary Inverter
Refrigerant		R410A
Condenser Material		Aluminum Fin - Copper Tube
Outdoor Noise Level (dBA)		58
Dimension (WxDxH)	inch	38 x 15-7/8 x 26
	mm	965.20 x 403.23 x 660.40
Package (WxDxH)	inch	40-5/8 x 18 x 29
	mm	1031.88 x 457.20 x 736.60
Net/Gross Weight	lbs	114.6 / 124.6
	kg	51.98 / 56.52

ELECTRICAL SPECIFICATIONS

Power Supply	208/230V, 1 Ph, 60 Hz
Min./Max. Voltage (V)	187 / 253
System MCA	19
System MOCP	25
Suggested Breaker Size (A)	20
Main Power Wire Size (AWG)	Per Local Code
Interconnecting Wire Size (AWG)	14 / 4
Rated Current - Cooling (A)	15.00
Rated Current - Heating (A)	15
MCA: Min. circuit amps (A)	MOCP: Max. over current protection (A)

EFFICIENCY RATINGS

Cooling		Heating	
SEER	21.0	HSPF	10.0
EER (Btu/h)/W	12.5	COP (W/W)	3.90

COOLING PERFORMANCE

Cooling (Btu/hr)	
Rated Capacity	23200
Min/Max Capacity	7500 ~ 34100
Ambient Operating Temperature Range °F (°C)	-22° ~ 118° (-30° ~ 48°)

HEATING PERFORMANCE

Heating (Btu/hr)	
Rated Capacity	24000
Min/Max Capacity	7500 ~ 31400
Heating Capacity @ 5°F (-15°C)	21600
Heating Capacity @ 17°F (-8.33°C)	23600
Heating Capacity @ 47°F (8.33°C)	24000
Ambient Operating Temperature Range °F (°C)	-22° ~ 75.2° (-30° ~ 24°)

REFRIGERANT PIPING SPECIFICATIONS

Liquid Size (O.D.)	3 x 6.00mm (1/4in)
Gas Size (O.D.)	3 x 9.52mm (3/8in)
Min./Max. Piping Length for all rooms (ft/m)	10 - 197 / 3.05 - 60.05
Max. Piping Length for one IDU (ft/m)	66 / 20.12
Max. Height Difference of IDU and ODU (ft/m)	49 / 14.94
Refrigerant Charge Amount (oz/kg)	84.6 / 2.40
Additional Refrigerant Charge Amount (oz/ft) / (g/m)	0.2 / 20.0
Connection Method	Flare Connection

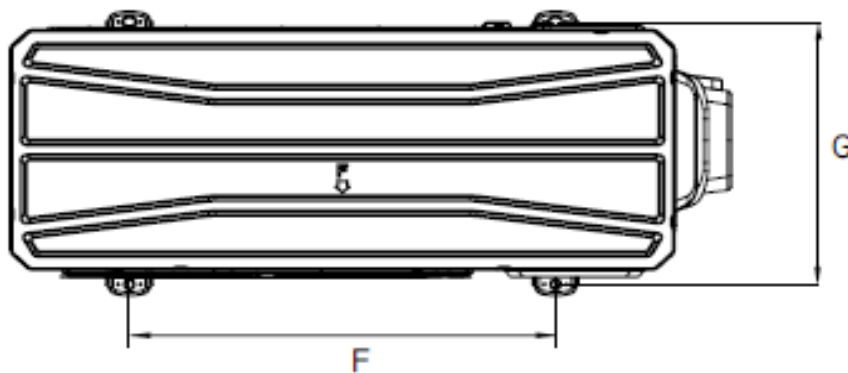
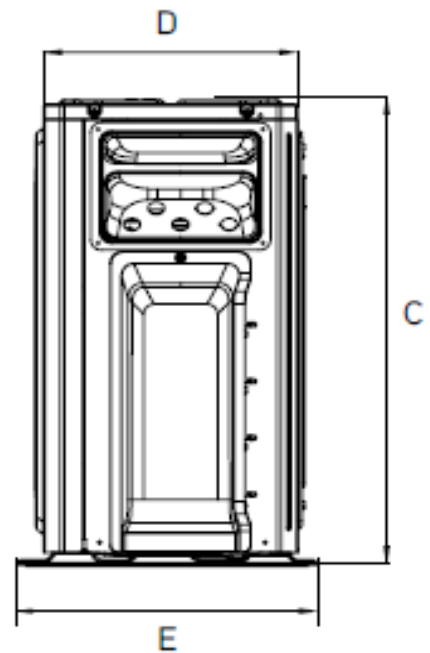
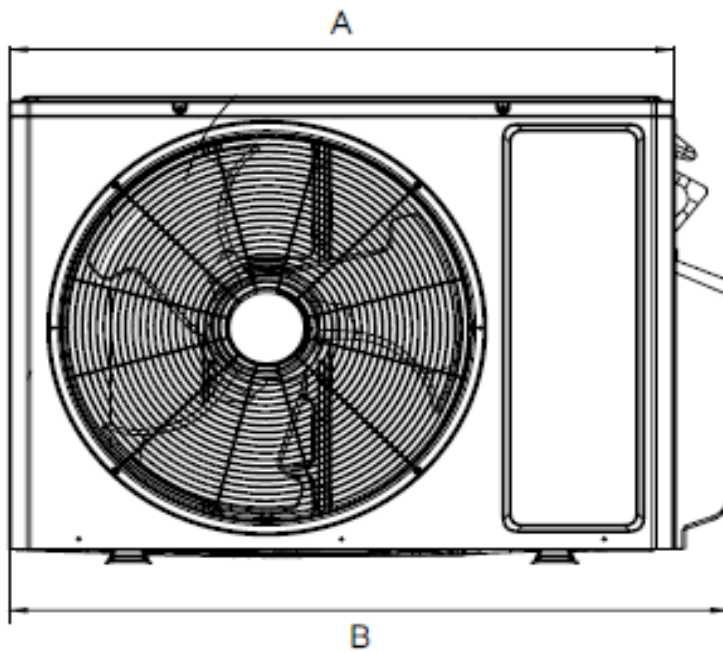
FEATURES

- High Efficiency DC Inverter Technology
- High Efficiency Rotary Compressor
- Power Factor Correction
- Ultra Low Frequency Torque Control
- Compact and Quiet Design
- Low Voltage Startup
- Auto Restart after Power Outages (with Memory/Power Failure Recovery)
- Multi-Point & Self Diagnostics
- Copper Tube/Aluminum Fin Coils
- Blue Fin Coating (500 Hrs Salt Spray Tested)
- Base Pan with Electric Heater
- Intelligent Preheating & Defrosting
- Low Ambient Cooling down to -20°F (Range: -22°F ~ 118°F)
- Low Ambient Heating down to -22°F (Range: -22°F ~ 75°F)
- Low Ambient Heating down to -22°F (Range: -22°F ~ 75°F)

Indoor Unit Capacity/Multi-zone Combinations

POSSIBLE COMBINATIONS*	COOLING CAPACITY (Btu/h)					HEATING CAPACITY (Btu/h)				
	ZONE1	ZONE2	ZONE3	ZONE4	ZONE5	ZONE1	ZONE2	ZONE3	ZONE4	ZONE5
5K + 7K	5.000	7.000				6.000	8.000			
7K + 7K	7.000	7.000				8.000	8.000			
5K + 5K + 5K	5.000	5.000	5.000			6.000	6.000	6.000		
7K + 7K + 7K	7.000	7.000	7.000			8.000	8.000	8.000		
5K + 5K + 7K	5.000	5.000	6.000			6.000	6.000	8.000		
5K + 7K + 7K	5.000	7.000	7.000			6.000	8.000	8.000		
9K + 9K	9.000	9.000				9.500	9.500			
9K + 12K	9.000	12.000				9.429	12.571			
9K + 18K	7.733	15.467				8.000	16.000			
12K + 12K	11.600	11.600				12.000	12.000			
12K + 18K	9.280	13.920				9.600	14.400			
18K + 18K	11.600	11.600				12.000	12.000			
9K + 9K + 9K	7.733	7.733	7.733			8.000	8.000	8.000		
9K + 9K + 12K	6.960	6.960	9.280			7.200	7.200	9.600		
9K + 9K + 18K	5.800	5.800	11.600			6.000	6.000	12.000		
9K + 12K + 12K	6.327	8.436	8.436			6.545	8.727	8.727		
12K + 12K + 12K	7.733	7.733	7.733			8.000	8.000	8.000		

Outdoor Unit Dimensions



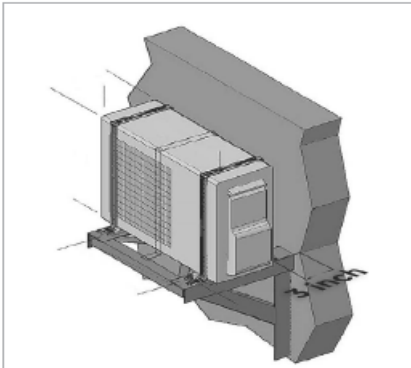
DIMENSIONS

A	35
B	38
C	26
D	13-25/64
E	15-7/8
F	22-7/16
G	14-39/64

Unit: inch

OUTDOOR UNIT

Minimum clearance

**NOTE:**

If bottom of the unit is free of airflow obstructions similar to the mounting bracket figure, the clearance to the wall on the back can be reduced to 3 inches.

