

Submittal Data: SC-18CD-UM / SC-18Z-UM

18000 BTUH Slim Duct Heat Pump System

Job Name		Location		Date
Purchaser		Engineer		
Submitted To		For	☐ Reference	☐ Approval
			☐ Construction	
Unit Designation		Schedule No.		
GENERAL FEATURES -Multi-Speed Fan -Medium Static Pressure Capability -Flexible Return Air From Bottom Or Rear -Internal Condensate Drain Pump -Sentry Condensate Overflow Protection -Wired Remote Controllers -Acrylic Resin/Anti-Corrosion Fin Coating				
System Ratings		Indoor Unit Data		
Cooling		Fan Motor	Output Power	60 W
Rated Capacity	17100 BTU/H		FLA	0.6 A
Capacity Range	5400-19800 BTU/H	Airflow		
Power Input (Max)	1750 W	Cooling Wet (Lo/Hi)		362/585 CFM
SEER	16.0	Heating Dry (Lo/Hi)		362/585 CFM
EER	11.0	Sound Level		
Heating at 47° F		Cooling (Min/Max)		28/39 dB(A)
Rated Capacity	18800 BTU/H	Heating (Min/Max)		28/39 dB(A)
Capacity Range	4700-23200 BTU/H	Dehumidification		
Power Input (Max)	1900 W			0.66 pt/hr
HSPF	9.5	Condensate Drain Lift (Height)		
COP	3.3			33-in
Heating at 17° F		Power Supply (Dedicated Circuit: Size Per Local Code)		
Rated Capacity	10900 BTU/H	Normal Operational Voltage		208/230 V, 1 Phase, 60 Hz
Operating Range		Voltage Range		187 - 253 V
Cooling	(Max)	MCA		1.0A
	(Min)	MOCB/Breaker Size		15A
Heating	(Max)	Communication Wire Size		
	(Min)			18-2 AWG / 300V THHN
Refrigerant Piping Data		Outdoor Unit Data		
Gas Pipe Size (OD)	1/2-in	Compressor		
Liquid Pipe Size (OD)	1/4-in			DC Inverter Driven Rotary
Connection Method	Flared	RLA		12.0 A
Factory Charge	49.6 oz	Refrigerant Type		
Additional Charge	0.3 oz/ft			R410A
Pre-Charge Length	25-ft	Fan Motor		
MAX Refrigerant Pipe Length	164-ft	Output Power		1/6HP
		FLA		1.5 A
MIN Refrigerant Pipe Length	10-ft	Sound Level		
MAX Refrigerant Pipe Elevation	49-ft	Cooling/Heating		56/56 dB(A)
		Power Supply (Dedicated Circuit)		
		Normal Operational Voltage		208/230 V, 1 Phase, 60 Hz
		Voltage Range		187 - 253 V
		Main Supply Wire Size		10 AWG
		MCA		15.9 A
		MOCB/Breaker Size		25 A

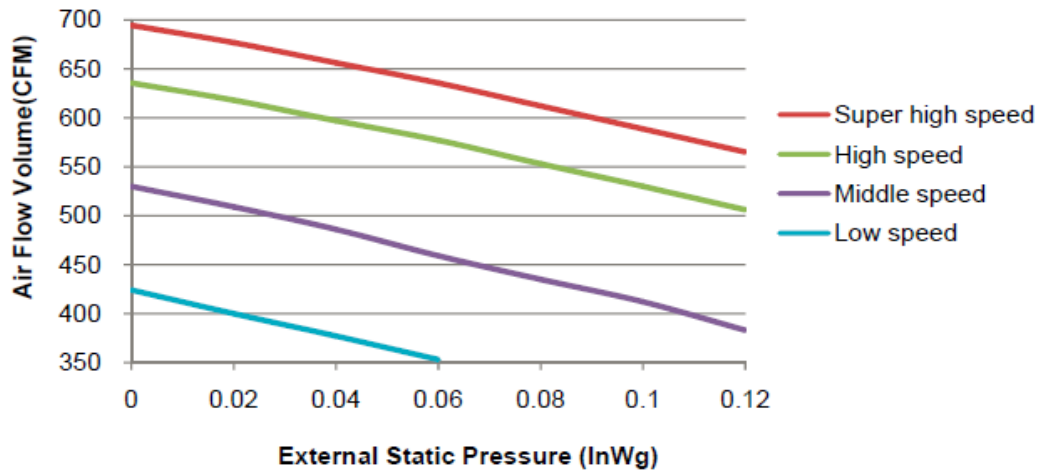
SYSTEM FEATURES

Inverter Type	G10
Ultra Low Frequency Torque Control	YES
Power Factor Correction	YES
Compressor Type	Rotary
Refrigerant Type	R410A
Basepan With Electric Heater	YES
Compressor With Electric Heater	NO
Outdoor Fin Coating	Acrylic Resin
Intelligent Defrosting	YES
Intelligent Preheating	YES
Low Voltage Startup	YES
Memory/Power Failure Recovery	YES
Self Diagnosis	YES
Low Ambient Cooling	YES
Internal Condensate Pump	YES
XK60 Wired Controller Interface	YES
Wi-Fi Interface	NO
Indoor Fan Type	Centrifugal
Multi Fan Speeds	3 Speeds
LED Display Indoor Unit	NO
Advance Filter	NO
Auxiliary Electrical Heater	NO
Ventilation (Outdoor Air)	Optional

WIRED CONTROLLER FUNCTIONS

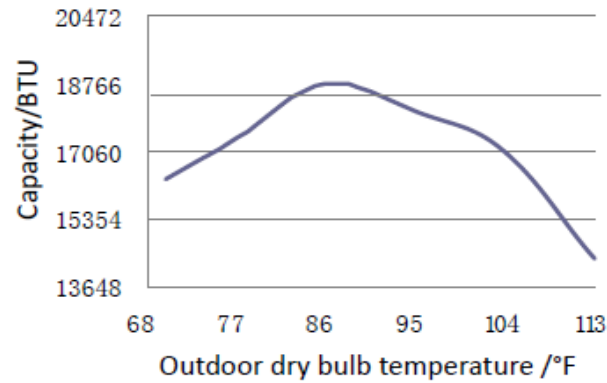
Auto Mode	YES
Auto Fan	YES
Auto Swing (Continuous Sweep)	NO
Adjustable Swing Louvers (5 pos.)	NO
Clock on Remote Controller	YES
Dry Mode	YES
Dry Anti-Mildew (X-Fan) Mode	YES
Energy Saving Mode	NO
Dirty Filter Alert	NO
I Feel Function	YES
Lock on Wired Controller	YES
Quiet Mode	NO
Room Temperature Display (5 sec.)	YES
Sleep Mode	YES
Timer Mode	YES
Turbo Mode	YES
Display On/Off Control	NO
Freeze Guard Mode	YES

FAN PERFORMANCE CURVES

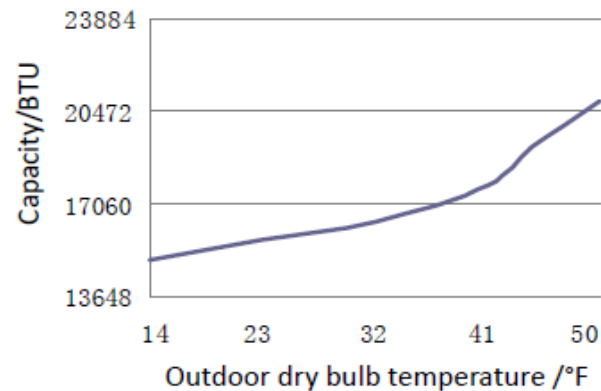


EXTENDED RATINGS

COOLING PERFORMANCE



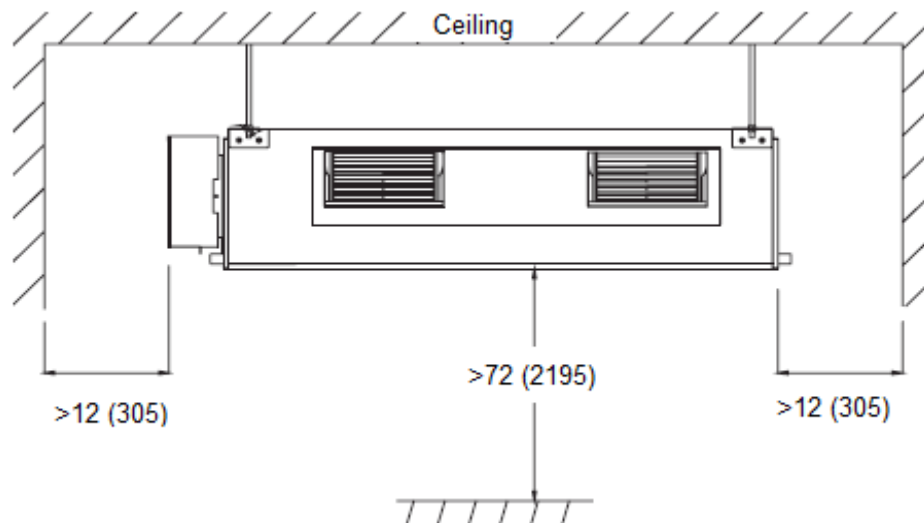
HEATING PERFORMANCE



MINIMUM SPACING REQUIREMENTS

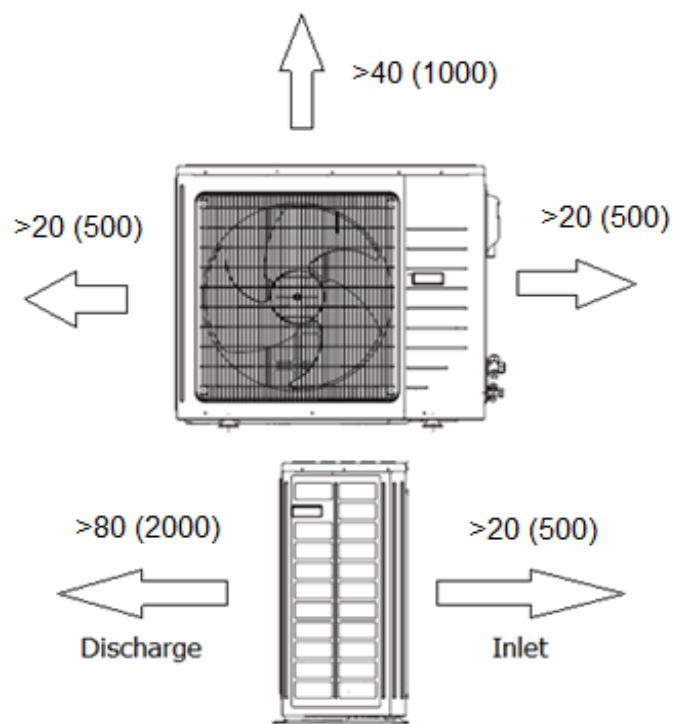
Units: inch (mm)

INDOOR



Units: inch (mm)

OUTDOOR

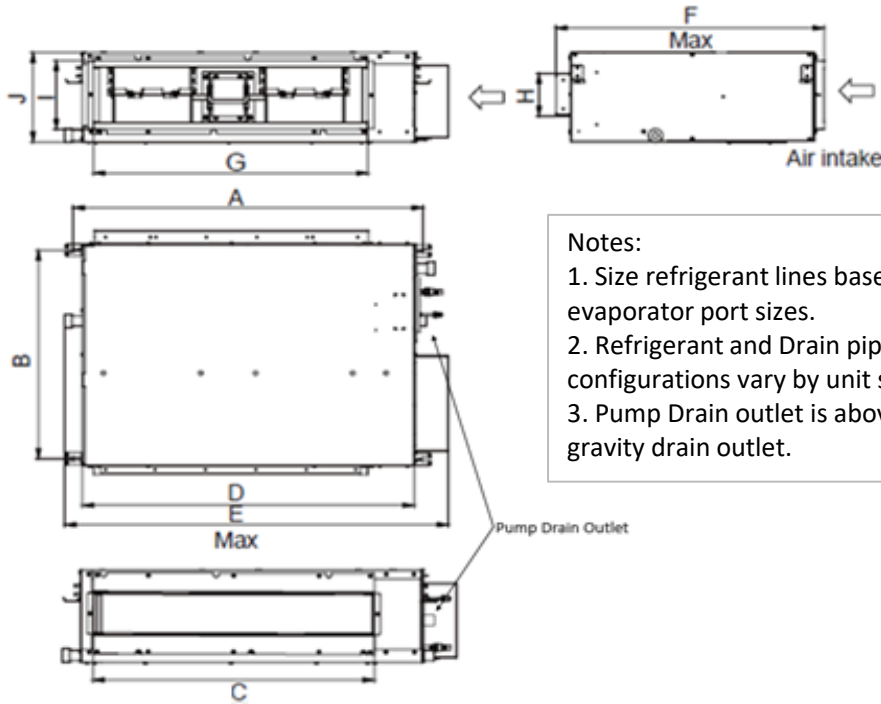


DIMENSIONAL SPECIFICATIONS

SC-18CD-UM

INDOOR UNIT DIMENSIONS & WEIGHTS

Units: inch (mm)



Notes:

1. Size refrigerant lines based on evaporator port sizes.
2. Refrigerant and Drain pipe configurations vary by unit size.
3. Pump Drain outlet is above gravity drain outlet.

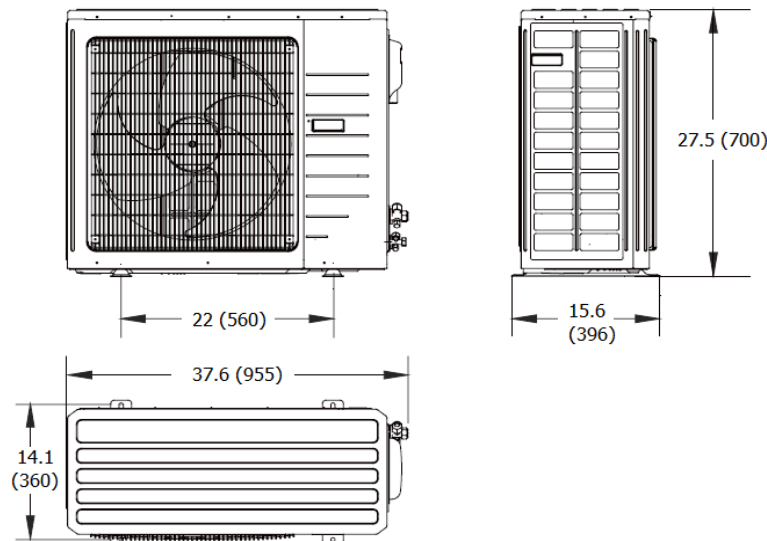
A	37.25	(945)
B	24.375	(618)
C	29.0	(738)
D	35.125	(892)
E	40.88	(1037)
F	28.375	(721)
G	29.0	(738)
H	4.875	(125)
I	8.0	(203)
J	10.5	(266)

Net Weight	72.6 lbs
Shipping Weight	83.6 lbs

Liquid Line Valve	1/4-in OD Flared
Gas Line Valve	1/2-in OD Flared
Drain Connector	1-3/16 in OD

OUTDOOR UNIT DIMENSIONS & WEIGHTS

Units: inch (mm)



Net Weight	105.6 lbs
Shipping Weight	114.4 lbs

Liquid Line Valve	1/4-in OD Flared
Gas Line Valve	1/2-in OD Flared

Notes:

1. Recommended Communication WireType 18-2 AWG Stranded Copper THHN 300V Wire
2. Power wiring size must comply with applicable national and local codes for both ID and OD dedicated circuits.
3. Test conditions are based on AHRI 210/240.

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