

SUBMITTAL DATA SHEET



Series Name: Slim Duct Energy Star Series
Model Number: SZ18H525ZMO / D18H525ZMI

Slim Duct Heat Pump System

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



INDOOR SPECIFICATION

Indoor Air Flow (Turbo/H/M/L/Si) (CFM)	706.3 / 618.0 / 529.7 / 441.4 / N/A
Indoor Noise Level (Turbo/H/M/L/Si) (dBA)	40/37/35/33/29.0
Indoor static pressure range	0-0.8
Dimension (W×D×H)	inch 39.37 x 29.53 x 9.65
Package (W×D×H)	inch 48.23 x 33.86 x 11.97
Net/Gross Weight	lbs 79.81/91.27

OUTDOOR SPECIFICATION

Compressor Type	ROTARY
Compressor Model	KSN140D58UFZ
Refrigerant	R454B
Refrigerant Oil Charge(mL)	440
Refrigerant Oil	7.2
Outdoor Air Flow (Max) (CFM)	1765.8
Outdoor Noise Level (dBA)	58.0
Dimension (W×D×H)	inch 35.04 x 13.46 x 26.50
Package (W×D×H)	inch 39.17 x 15.67 x 29.13
Net/Gross Weight	lbs 92.59/100.31

EFFICIENCY

Cooling		Heating	
SEER2	20.0	HSPF2-4	11.3
EER2	13.3	COP	3.90

PERFORMANCE of Cooling

Cooling (Btu/hr)	
Rated Capacity	17500
Min/Max Capacity	4500~20200
Moisture Removal(L/h)	1.71
Standard Operating Range(°F/°C)	-13~122(-25~50)
Conditions:	Indoor: 80°F DB/67°F WB Outdoor: 95°F DB/75°F WB

PERFORMANCE of Heating

Heating (Btu/hr)	
1. @ 47°F Rated	20000
1. @ 47°F Min/Max Capacity	5200~23000
2. @ 17°F Rated	14900
3. @ 5°F Rated: Capacity / COP	14200/2.40
3. @ 5°F Max: Capacity	14200
Standard Operating Range(°F/°C)	-13~75(-25~24)
1. Conditions:	Indoor: 70°F DB/60°F WB Outdoor: 47°F DB/43°F WB
2. Conditions:	Indoor: 70°F DB/60°F WB Outdoor: 17°F DB/15°F WB
3. Conditions	Indoor: 70°F DB/60°F WB Outdoor: 5°F DB/5°F WB

ELECTRICAL

Power Supply	208/230V, 60Hz, 1Ph
System MCA	18.00
Connection Wiring	14#x4
System MOCP	20
Compressor RLA	10.0
Outdoor Fan Motor RLA	0.9
Outdoor Fan Motor W	80
Indoor Fan Motor RLA	1.8
Indoor Fan Motor W	165
System Power Input @ Cooling (W)	1315(570 ~ 1770)
System Power Input @ Heating (W)	1500(310 ~ 1720)
MCA: Min. circuit amps (A)	MOCP: Max. over current protection (A)
RLA: Rated load amps (A)	W: Fan motor rated output (W)

PIPING

Throttle type(Indoor)	N/A
Throttle type(Outdoor)	EXV+Throttle valve
Liquid Size	6.35mm(1/4in)
Gas Size	12.7mm(1/2in)
Max. Piping Length(ft/m)	98.40(30)
Max. Height Difference(ft/m)	65.60(20)
Max. Pre-charged Length(ft/m)	24.6(7.5)
Refrigerant Pre-charged Amount(oz/kg)	47.97(1.36)
Additional Charge of Refrigerant((oz/ft)/(g/m))	0.16(15)
Connection Method	Flared

Features

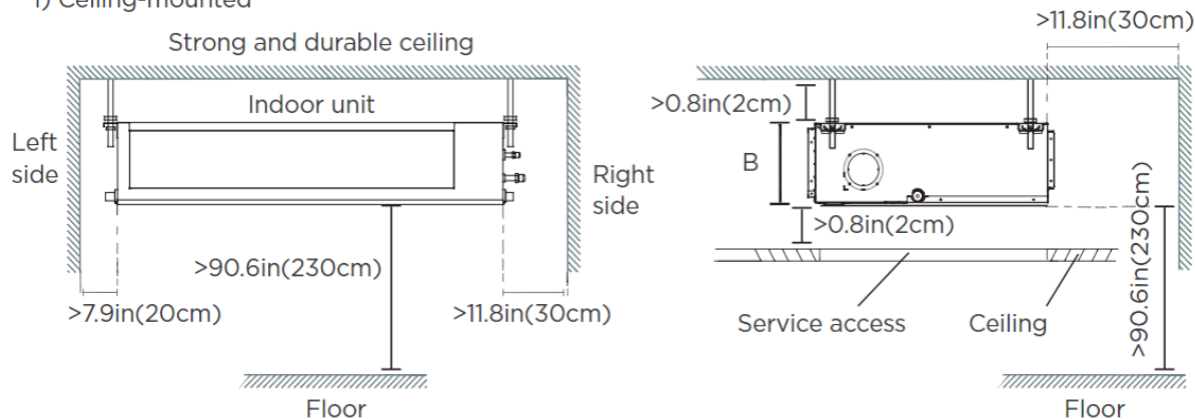
- Compatible with both horizontal and vertical installation
- Static pressure up to 0.8 in.w.g(for all models)
- Static pressure setting stages: 8
- Refrigerant leakage detection sensor
- Constant airflow
- Built-in pump
- i-clean
- Fan speed stages: 1~100%
- WiFi capability: through wired controller with built-in WiFi
- OTA(by using wired controller 120N(X6W))
- 2-pin connector(HA/HB) for programmable wired controller
- Multiple control options available:
 - Two way communication wired controller:120N(X6)
 - Two way communication wired controller with built-in WiFi:120N(X6W)
 - Infrared wired controller: 120L
 - Wireless remote controller
 - Third-Party 24V Thermostat*

Installation Instruction

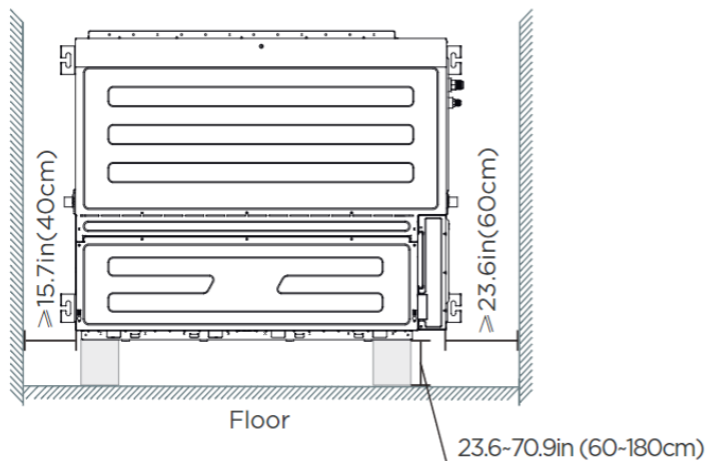
Installation place

The distance between the mounted indoor unit should meet the specifications illustrated in the following diagram.

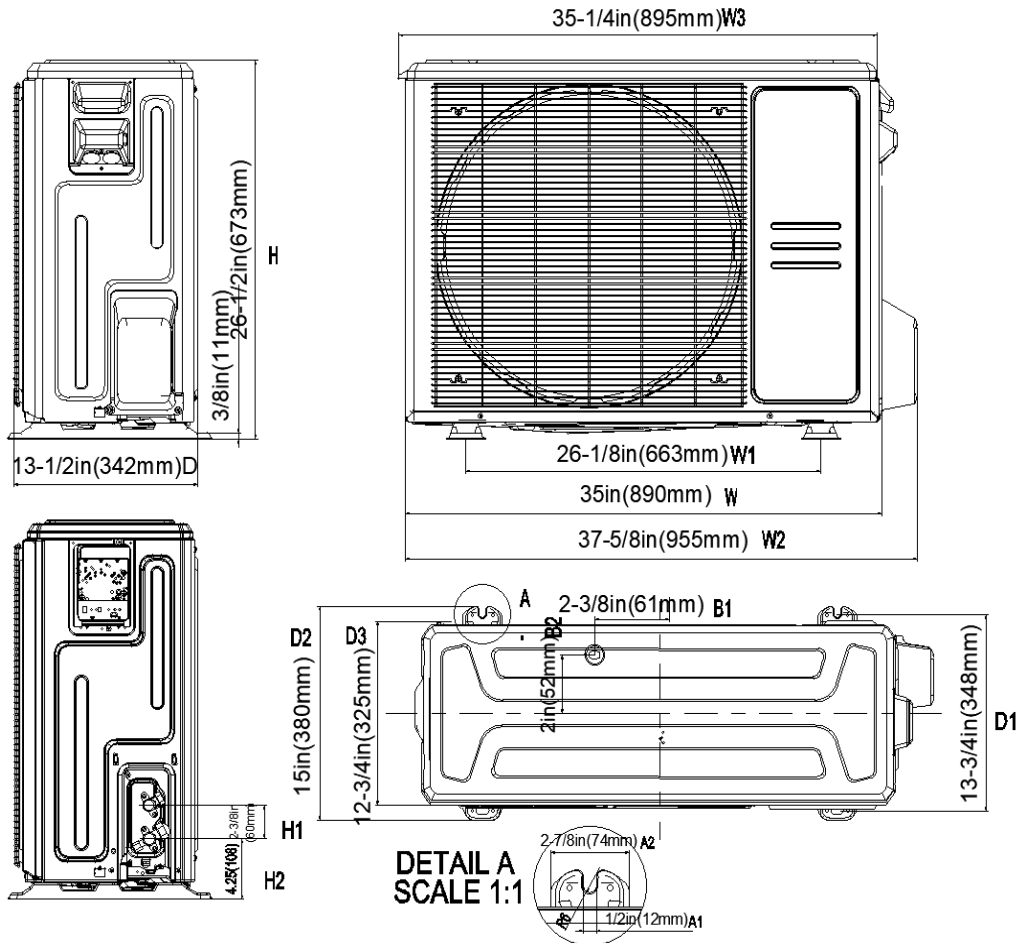
1) Ceiling-mounted



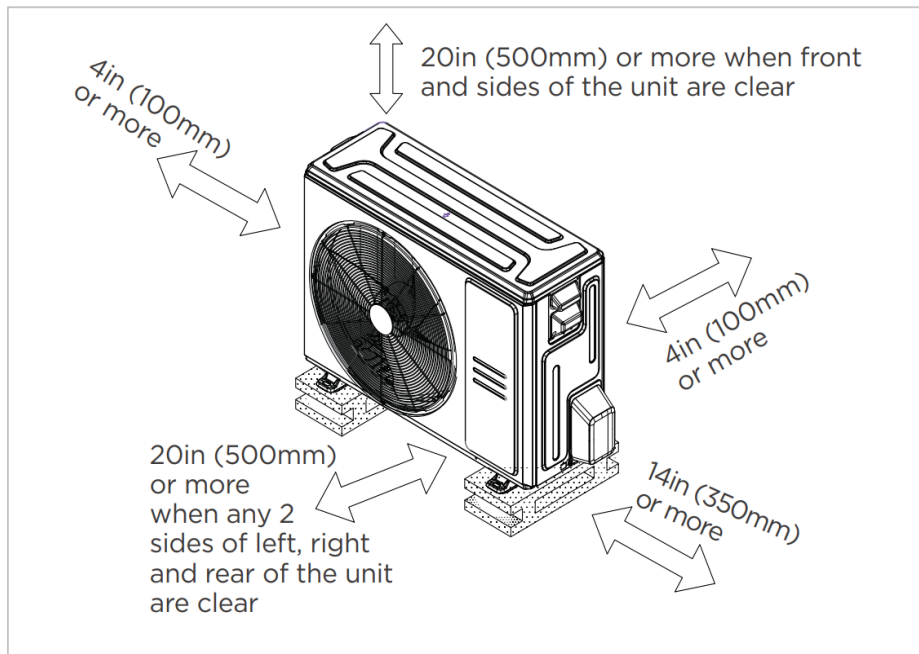
2) Wall-mounted



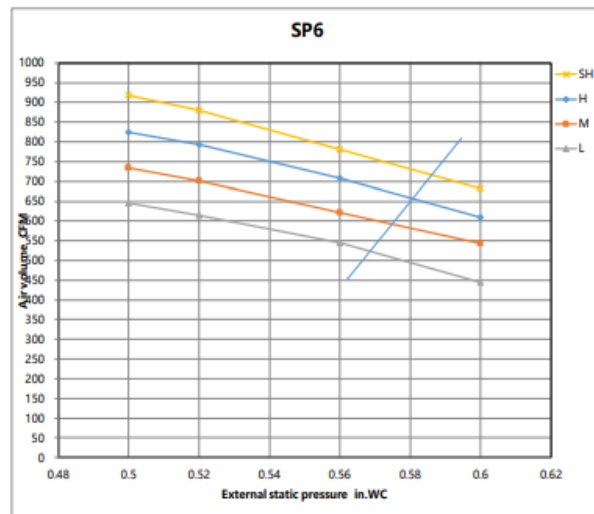
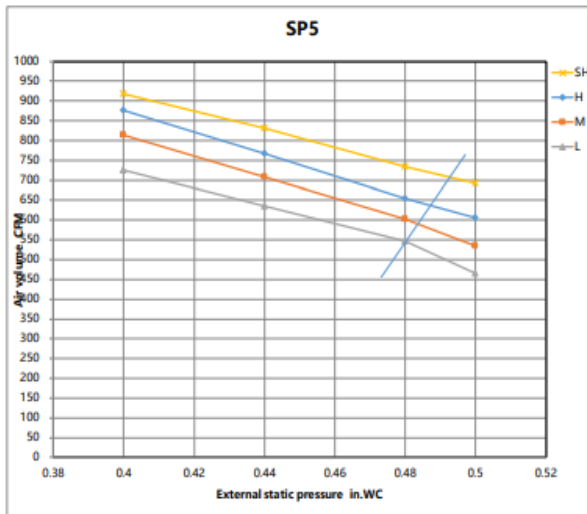
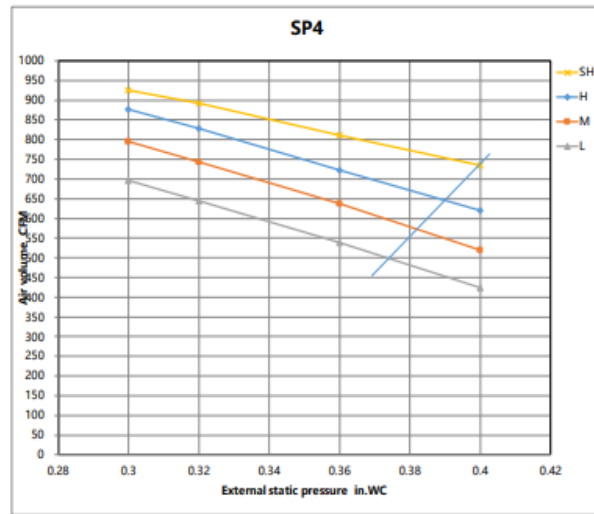
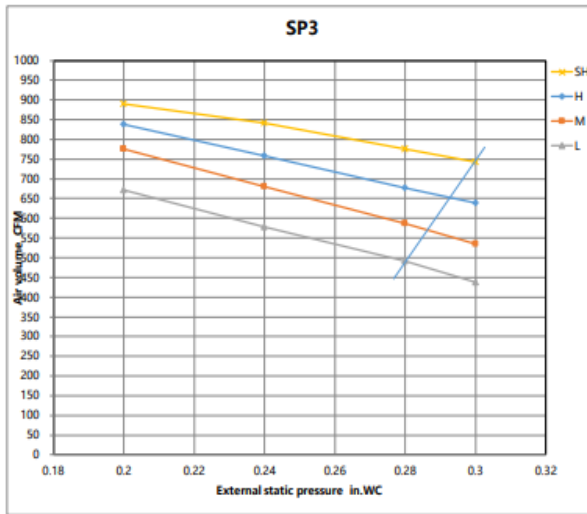
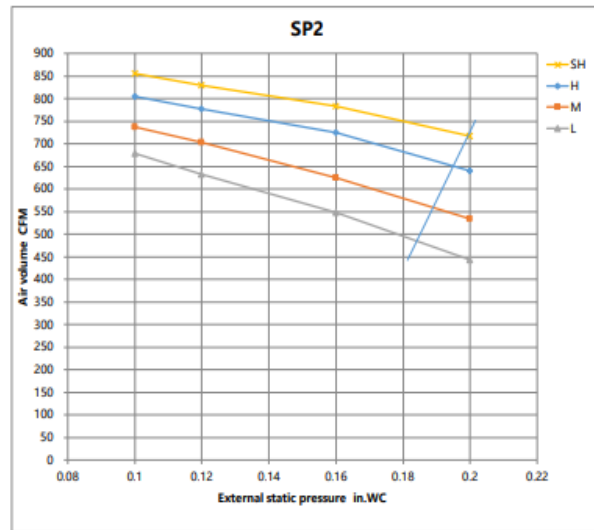
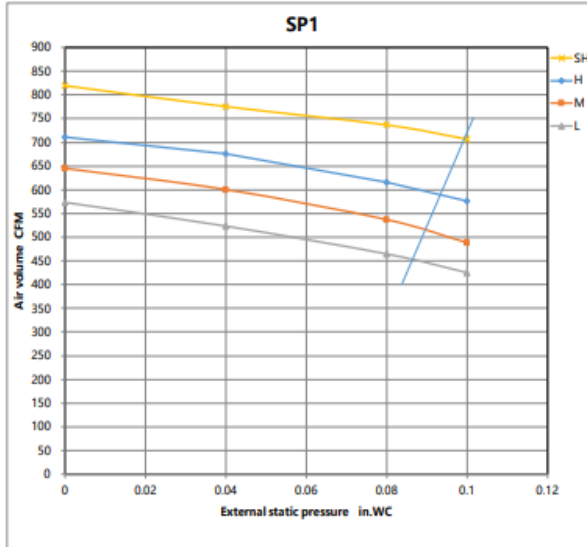
Outdoor Unit Dimension



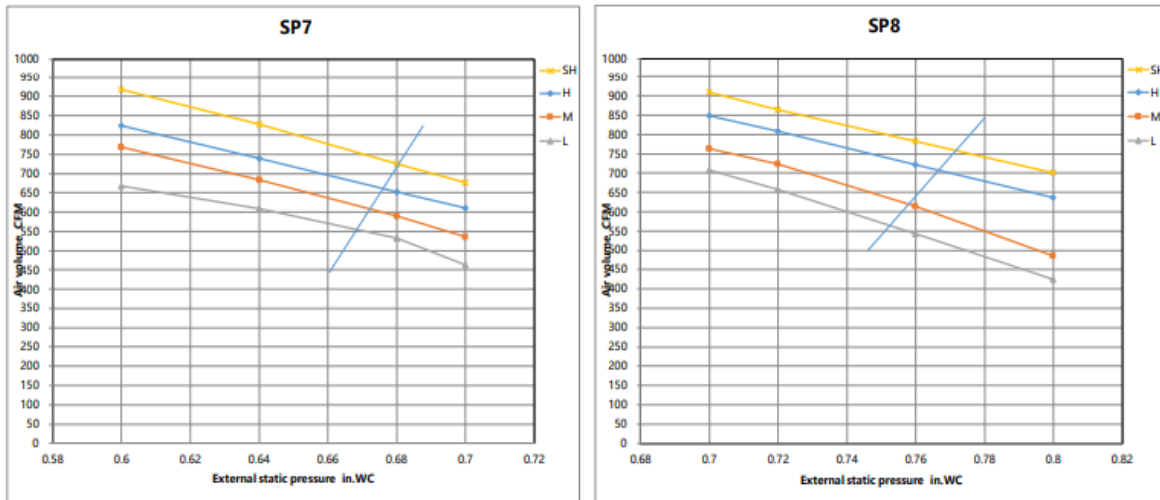
Installation Instruction



☒ Meets all spatial requirements shown in Installation Clearance Requirements above.



Fan performance



Constant air volume

