

SUBMITTAL DATA SHEET



Series Name: Regular Heat AHU Series
Model Number: AH18H525ZMI/SZ18H525ZMO

Air Handler Heat Pump System

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



INDOOR SPEINDOOR SPECIFICATIONCIFICATION

Indoor Air Flow (Turbo/H/M/L/Si) (CFM)		618.0 / 576.8 / 529.7 / 488.5 / N/A
Indoor Noise Level (Turbo/H/M/L/Si) (dBA)		N/A/42/39.5/33/N/A
Dimension (W×D×H)	inch	21.02 x 17.52 x 45.00
	mm	534.0×445.0×1143.0
Package (W×D×H)	inch	26.57 x 20.87 x 48.62
	mm	675×530×1235
Net/Gross Weight	lbs	104.72/125.66
	kg	47.5/57

OUTDOOR SPECIFICATION

Compressor Type		ROTARY
Compressor Model		KSN140D58UFZ
Refrigerant		R454B
Refrigerant Oil Charge(mL)		440
Refrigerant Oil		VG74
Outdoor Air Flow (Max) (CFM)		1765.8
Outdoor Noise Level (dBA)		56.5
Dimension (W×D×H)	inch	35.04 x 13.46 x 26.50
	mm	894.1×341.3×673.1
Package (W×D×H)	inch	39.17 x 15.67 x 29.13
	mm	994.7×397.1×740.0
Net/Gross Weight		92.59/100.31

EFFICIENCY

Cooling		Heating	
SEER2	18.5	HSPF2-4	9.8
EER2	12.1	COP	3.6

PERFORMANCE of Cooling

Cooling (Btu/hr)	
Rated Capacity	18000
Min/Max Capacity	5600~20400
Moisture Removal(L/h)	1.66
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	18000
1. @ 47°F Min/Max Capacity	5500~21800
2. @ 17°F Rated	13200
3. @ 5°F Rated: Capacity / COP	13000/2.3
3. @ 5°F Max: Capacity	13000
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
Connection Wiring	AWG 14-4
System MOCP	20
Compressor RLA	10
Outdoor Fan Motor RLA	0.9
Outdoor Fan Motor W	80
Indoor Fan Motor RLA	2.3
Indoor Fan Motor W	250
System Power Input @ Cooling (W)	1475(470 ~ 1850)
System Power Input @ Heating (W)	1465(325 ~1800)
MCA: Min. circuit amps (A)	MOCP: Max. over current protection (A)
RLA: Rated load amps (A)	W: Fan motor rated output (W)

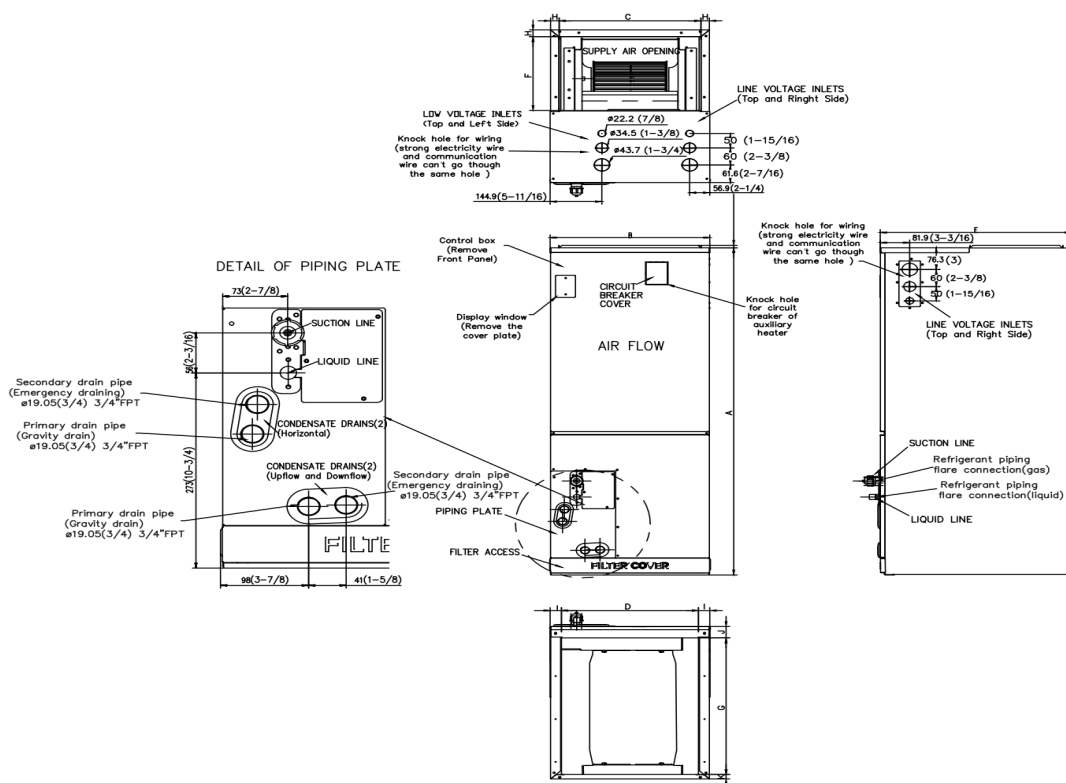
PIPING

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)	98.4(30)
Max. Height Difference(ft/m)	65.6(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

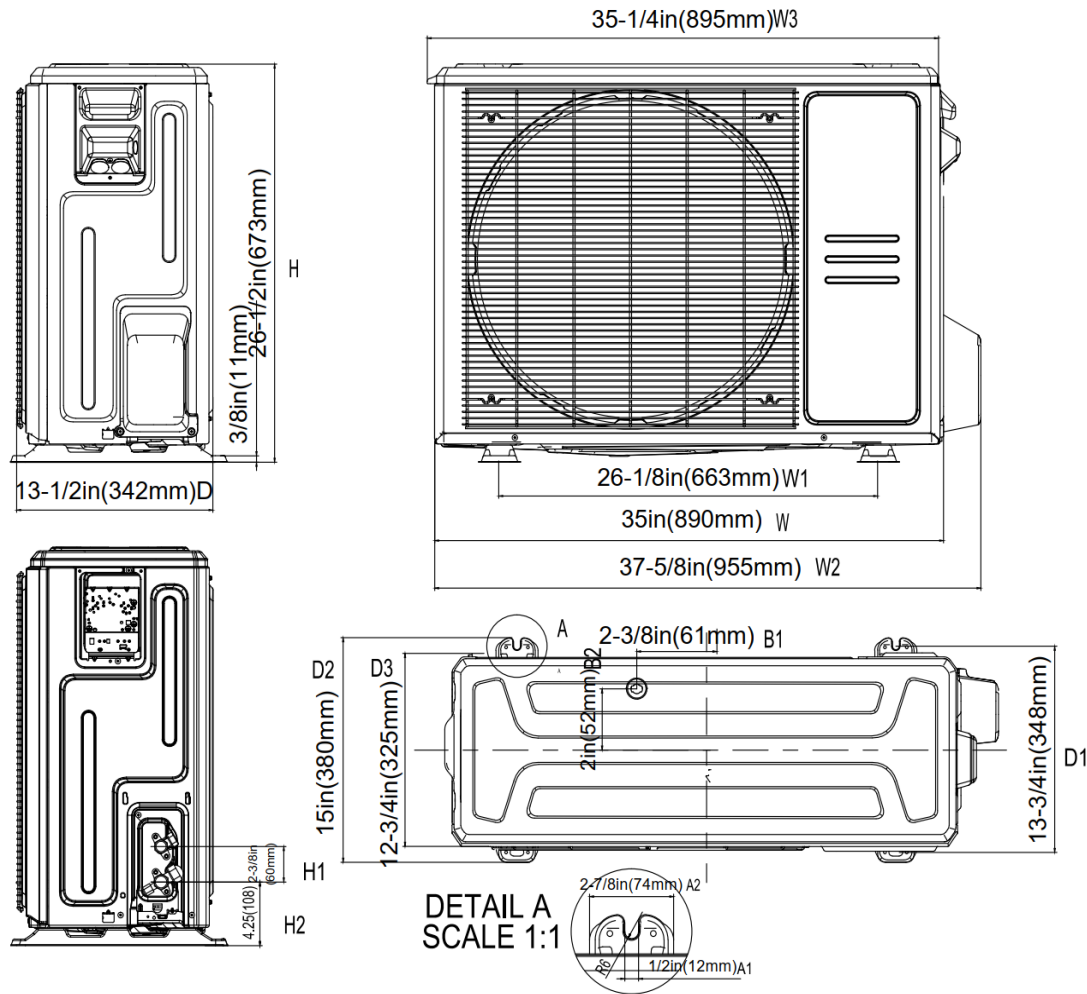
- Multi-position installation: horizontal(left or right), vertical(up or down)
- Aluminum Coil
- Constantly Air Flow system up to 0.80 In.W.G
- 1 inch R4.2 fiberglass free insulation reduces condensation and boosts efficiency(optional)
- Optional Auxiliary heat kit up to 25kW
- Easy Maintenance
- Multiple control options available:
 - Two way communication wired controller:120N(X6)
 - Two way communication wired controller with built-in WiFi:120N(X6W)
 - Wireless remote controller
 - Third-Party 24V Thermostat
- High efficiency up to 19.7 SEER2, 12.1 EER2, 9.8 HSPF2
- Chassis heater and crankcase heater equipped as standard

Indoor Unit Dimension

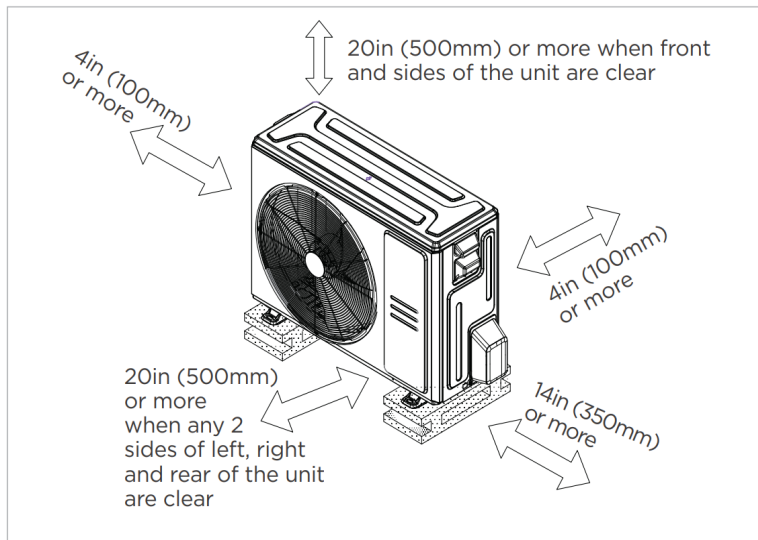


Dimensions	Model	18k/24k		30k/36k		48k/60k	
		inch	mm	inch	mm	inch	mm
A	Model Height	45	1143	49	1245	53	1346
B	Model Width	17-1/2	445	21	534	24-1/2	622
C	Supply Air Opening Width	15-5/8	397	19-1/8	486	22-5/8	575
D	Return Air Opening Width	15-1/8	384	18-5/8	473	22-1/8	562
E	Model Depth	21	534	21	534	21	534
F	Supply Air Opening Depth	10-1/4	260	10-1/4	260	10-1/4	260
G	Return Air Opening Depth	18-3/4	476	18-3/4	476	18-3/4	476
H	Supply Air Opening Clearance	15/16	24	15/16	24	15/16	24
I	Return Air Opening Side Clearance	1-1/4	32	1-1/4	32	1-1/8	28
J	Return Air Opening Front Clearance	1-1/2	38	1-5/8	41	1-5/8	41
K	Return Air Opening Back Clearance	5/8	16	5/8	16	3/4	19

Outdoor Unit Dimension



Installation Instruction



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

Fan Performance For Indoor Unit

