



High Wall Heat Pump System	
Indoor Model: SAK-18-WM1/220V	Outdoor Model: SAK-18-WM2/220V
Location:	Approval:
Engineer:	Date:
Submitted to:	Construction:
Submitted by:	Unit #:
Reference:	Drawing #:



INDOOR SPECIFICATION		
Indoor Air Flow (Turbo/H/M/L/SI) (CFM)	429.7 / 388.5 / 259.0 / 217.8 / /	
Indoor Noise Level (Turbo/H/M/L/SI) (dBA)	50.5/45/36/24/19	
Dimension (WxDxH)	inch	37.99 x 8.46 x 12.56
	mm	965.0x215.0x319.0
Package (WxDxH)	inch	41.14 x 12.01 x 16.14
	mm	1045x305x410
Net/Gross Weight	lbs	24.47/32.63
	kg	11.1/14.8

OUTDOOR SPECIFICATION		
Compressor Type	ROTARY	
Compressor Model	KSN140D21UFZ	
Refrigerant	R454B	
Refrigerant Oil Charge(mL)	440	
Refrigerant Oil	VG74	
Outdoor Air Flow (Max) (CFM)	1235.3	
Outdoor Noise Level (dBA)	56.0	
Dimension (WxDxH)	inch	31.69 x 12.99 x 21.81
	mm	805.0x330.0x554.0
Package (WxDxH)	inch	36.02 x 14.57 x 24.21
	mm	915x370x615
Net/Gross Weight	lbs	72.31/78.48
	kg	32.8/35.6

EFFICIENCY			
Cooling		Heating	
SEER2	19.2	HSPF2-4	9.6
EER2	10.8	COP	3.06

PERFORMANCE of Cooling	
Cooling (Btu/hr)	
Rated Capacity	18000
Min/Max Capacity	4100~19000
Moisture Removal(L/h)	2.5
Standard Operating Range(°F/°C)	5~122(-15~50)
Conditions:	Indoor: 80°F DB/67°F WB Outdoor: 95°F DB/75°F WB

ELECTRICAL	
Power Supply	208/230V,60Hz,1Ph
System MCA	15.0
Connection Wiring	14#x4
System MOCP	20
Compressor RLA	10.0
Outdoor Fan Motor RLA	0.4
Outdoor Fan Motor W	34
Indoor Fan Motor RLA	0.5
Indoor Fan Motor W	30
System Power Input @ Cooling (W)	1667(365 ~ 1720)
System Power Input @ Heating (W)	1801(380 ~1850)
MCA: Min. circuit amps (A)	MOCP: Max. over current protection (A)
RLA: Rated load amps (A)	W: Fan motor rated output (W)

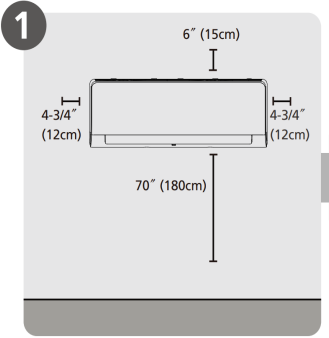
PERFORMANCE of Heating	
Heating (Btu/hr)	
1. @ 47°F Rated	18800
1. @ 47°F Min/Max Capacity	6200~20200
2. @ 17°F Rated	12300
3. @ 5°F Rated: Capacity / COP	11500/2.14
3. @ 5°F Max: Capacity	11500
Standard Operating Range(°F/°C)	5~75(-15~24)
1. Conditions:	Indoor: 70°F DB/60°F WB Outdoor: 47°F DB/43°F 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

PIPING	
Throttle type(Indoor)	N/A
Throttle type(Outdoor)	Capillary
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/g)	40.57(1.15)
Additional Charge of Refrigerant((oz/ft)/(g/m))	0.16(15)
Connection Method	Flared

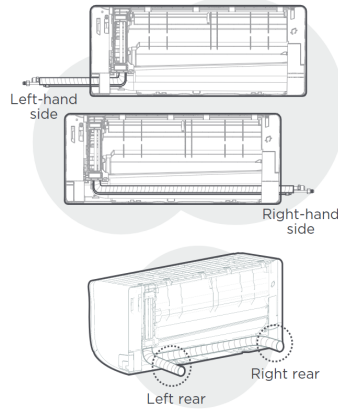
Indoor Unit Dimension

Capacity	Body Code	W(inch/mm)	D(inch/mm)	H(inch/mm)
9k Entry Tier Series	A	28-1/2in /722mm	7-3/8in /187mm	11-3/8in /290mm
9k~12k	B	31-1/2in /802mm	7-1/2in /189mm	11-3/4in /297mm
18k Entry Tier Series	D	38in /965mm	8-1/2in /215mm	12-1/2in /319mm
18k~24k	E	42-1/2in /1080mm	8-7/8in /226mm	13-1/4in /335mm
30k~36k	F	49-1/2in /1259mm	11-1/8in /282mm	14-1/4in /362mm

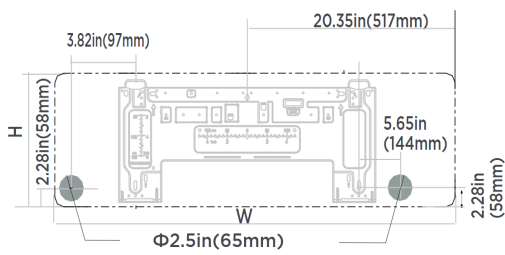
Installation Instruction



Select Installation Location



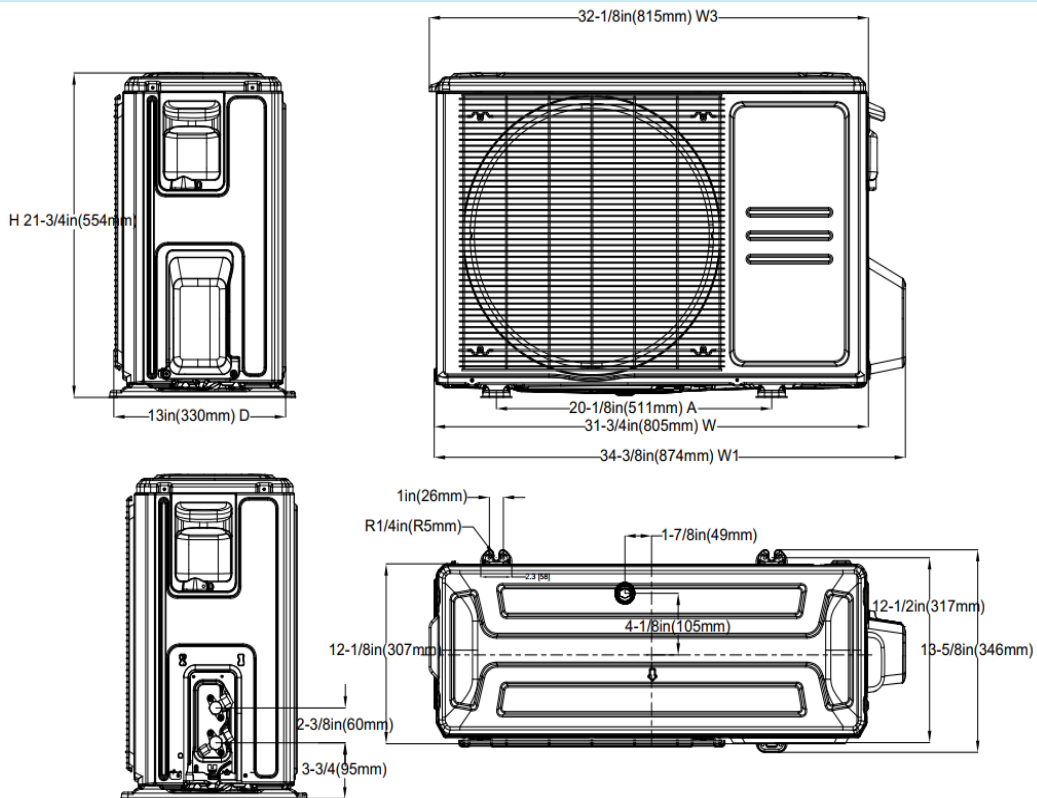
NOTE:
Based on the position of the wall hole relative to the mounting plate, choose the side from which the piping will exit the unit. You have four options for the exit direction of the piping.



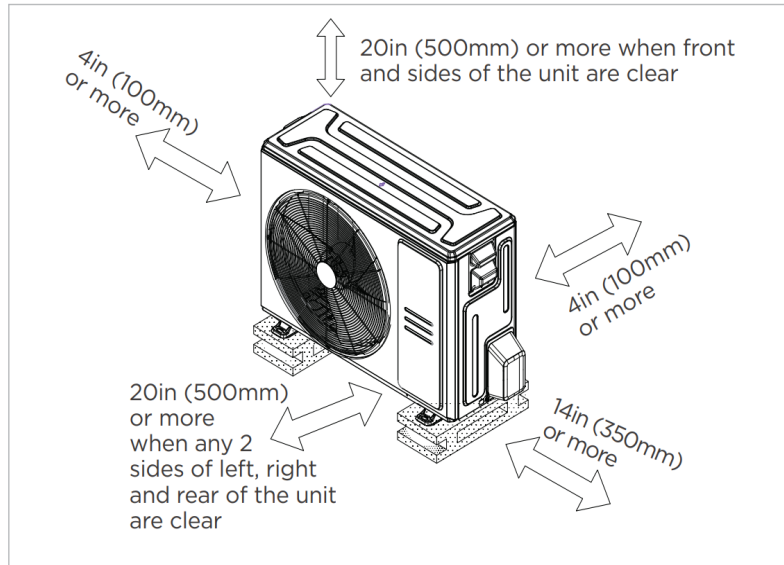
Indoor unit dimensions(WxH):
37.99in(965mm)x12.56in(319mm)

NOTE:
When the gas side connective pipe is Φ (5/8in)16mm or more, the wall hole should be (3-1/2in)90mm.

Outdoor Unit Dimension



Installation Instruction



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

FEATURES

- Indoor unit TU1 copper coil
- Humidity control
- 1~100% fan speed setting
- WiFi capability: through WiFi dongle or wired controller with built-in WiFi
- OTA(by using WiFi dongle)
- 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*

*24V interface is required.