Slim Duct Heat Pump System	
Indoor Model: SAK-18-DT1/220V	Outdoor Model: SAK-18-DT2/220V
Location:	Approval:
Engineer:	Date:
Submitted to:	Construction:
Submitted by:	Unit #:
Reference:	Drawing #:

INDOOR SPEINDOOR SPECIFICATIONCIFICATION		
Indoor Air Flow (Turbo/H/M/L/Si) (CFM)		600.4 / 559.2 / 500.3 / 441.4 / N\A
Indoor Noise Level (Turbo/H/M/L/Si) (dBA)		N\A/40.5/39/38/35
Indoor static pressure range(in.w.g.)		0-0.4
Dimension (W×D×H)	**inch**	34.65 x 26.54 x 8.27
	mm	880.0×674.0×210.0
Package (W×D×H)	**inch**	42.13 x 28.54 x 11.02
	mm	1070×725×280
Net/Gross Weight	**lbs**	54.45/66.14
	kg	24.7/30

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)		59.0
Dimension (W×D×H)	**inch**	35.04 x 13.46 x 26.50
	mm	890.0×342.0×673.0
Package (W×D×H)	**inch**	39.17 x 15.67 x 29.13
	mm	995×398×740
Net/Gross Weight	**lbs**	92.59/100.31
	kg	42.0/45.5

EFFICIENCY			
Cooling		**Heating**	
SEER2	20.0	**HSPF2-4**	10.5
EER2	12.5	**COP**	3.47

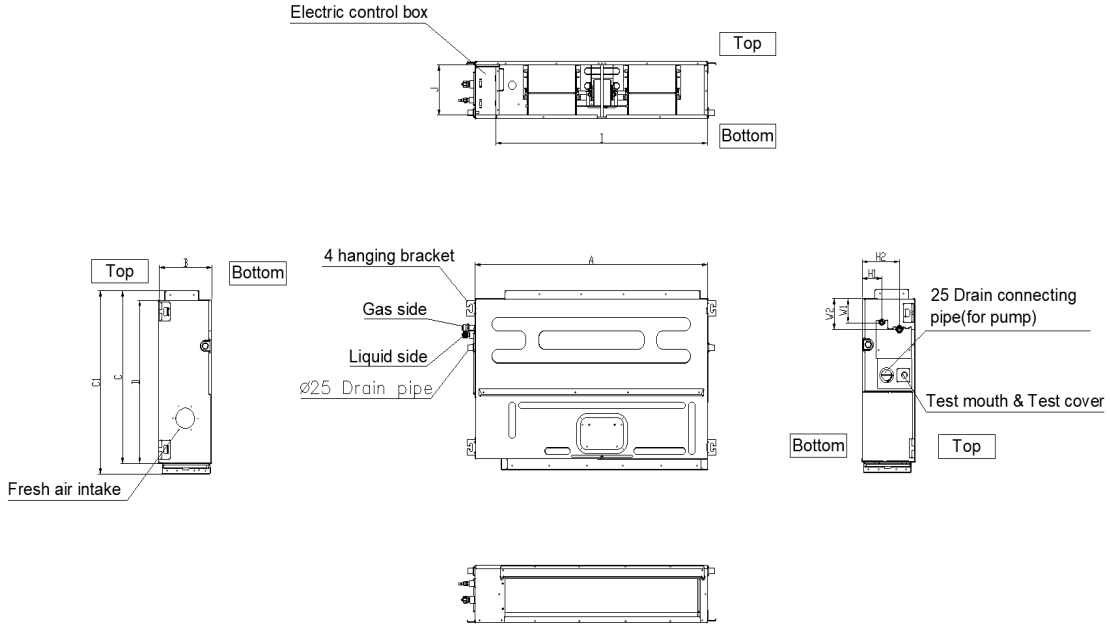
PERFORMANCE of Cooling	
Cooling (Btu/hr)	
Rated Capacity	17000
Min/Max Capacity	7000~19000
Moisture Removal(L/h)	1.46
Standard Operating Range(℉/℃)	-13~122(-25～50)
Conditions:	Indoor: 80℉ DB/67℉ WB
	Outdoor: 95℉ DB/75℉ WB

PERFORMANCE of Heating	
Heating (Btu/hr)	
1. @ 47℉ Rated	20000
1. @ 47℉ Min/Max Capacity	5500~22000
2. @ 17℉ Rated	14000
3. @ 5℉ Rated: Capacity / COP	14000/2.20
3. @ 5℉ Max: Capacity	14000
Standard Operating Range(℉/℃)	-13~75(-25～24)
1. Conditions:	Indoor: 70℉ DB/60℉ WB
	Outdoor: 47℉ DB/43℉ WB
2. Conditions:	Indoor: 70℉ DB/60℉ WB
	Outdoor: 17℉ DB/15℉ WB
3. Conditions	Indoor: 70℉ DB/60℉ WB
	Outdoor: 5℉ DB/5℉ 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	1.2
Indoor Fan Motor W	165
System Power Input @ Cooling (W)	1445(600 ~ 1750)
System Power Input @ Heating (W)	1690(330 ~1850)
MCA: Min. circuit amps (A)	**MOCP**: Max. over current protection (A)
RLA: Rated load amps (A)	**W:** Fan motor rated output (W)

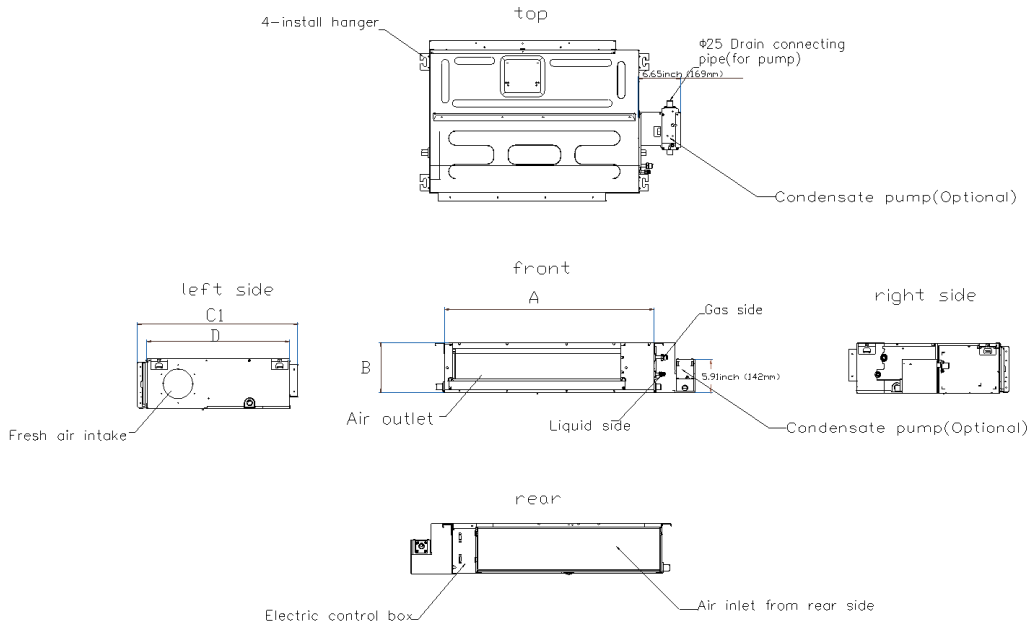
PIPING	
Throttle type(Indoor)	N/A
Throttle type(Outdoor)	EXV+Throttle valve
Liquid Size	6.35mm(1/4in)
Gas Size	12.7mm(1/2in)
Max. Piping Length(ft/m)	98.40(30)
Max. Height Difference(ft/m)	65.60(20)
Max. Pre-charged Length(ft/m)	24.6(7.5)
Refrigerant Pre-charged Amount(oz/kg)	47.97(1.36)
Additional Charge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

Indoor Unit Dimension(internal pump)



Model(kBtu/h)	unit	A	B	C	C1	D
6 -12	mm	700	200	470	506	450
	in	27-1/2	7-7/8	18-1/2	20	17-3/4
18	mm	880	210	634	674	600
	in	34-5/8	8-1/4	25	26-1/2	23-5/8

Indoor Unit Dimension(external pump)



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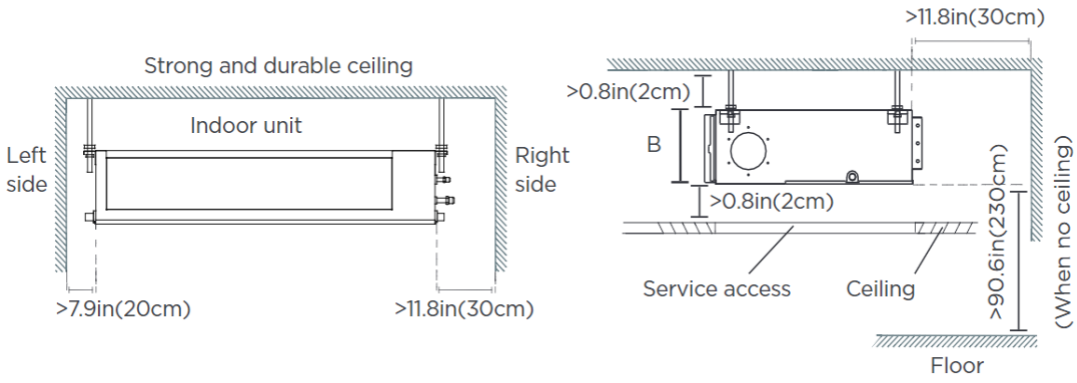
	in	34-5/8	8-1/4	25	26-1/2	23-5/8

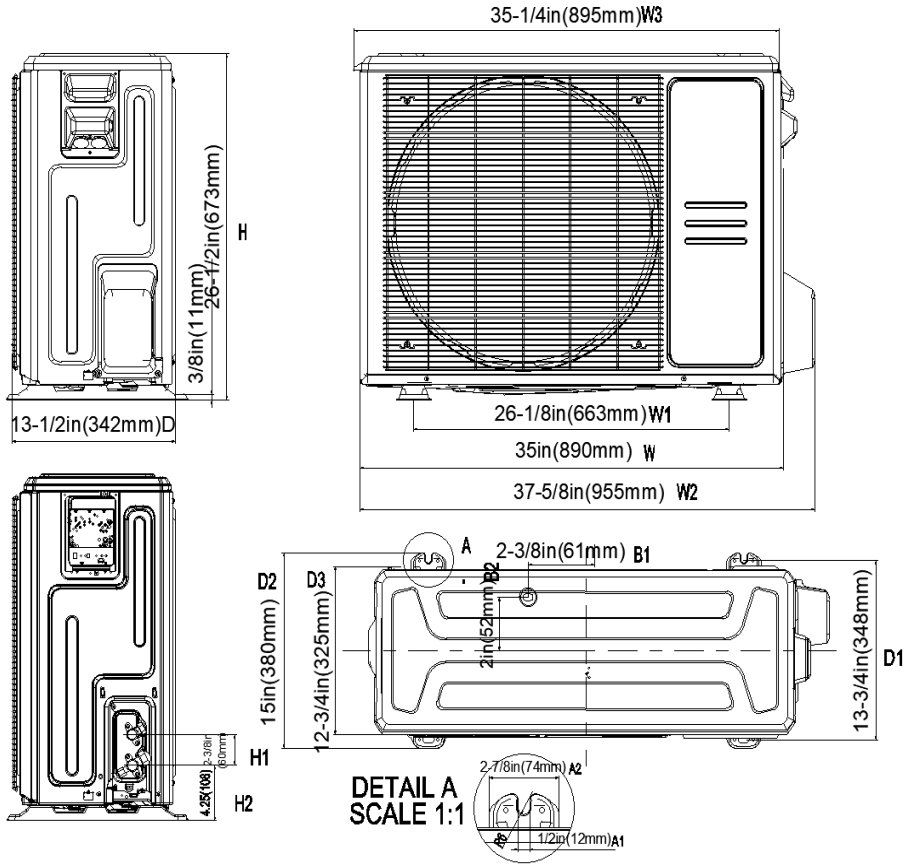
Installation Instruction

Installation place

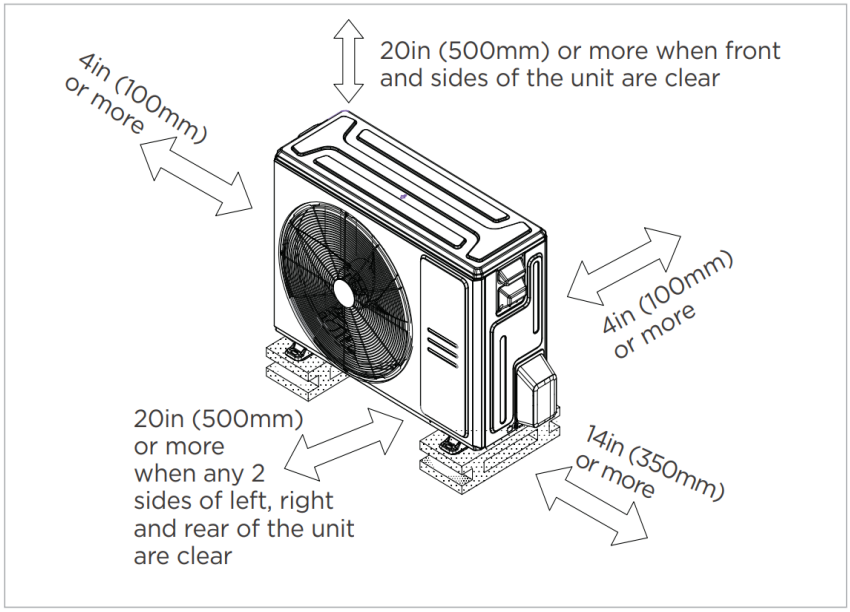
The distance between the mounted indoor unit should meet the specifications illlustrated in the following diagram.



Outdoor Unit Dimension

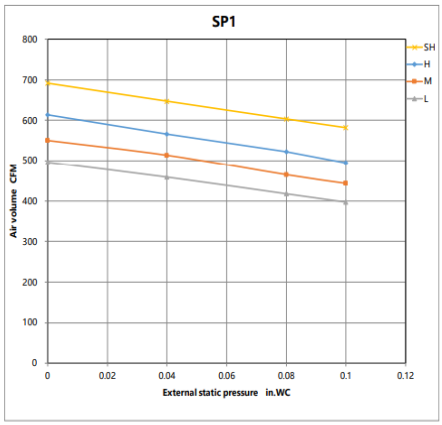


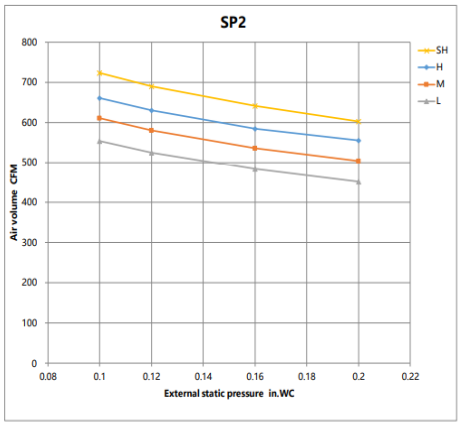
Installation Instruction

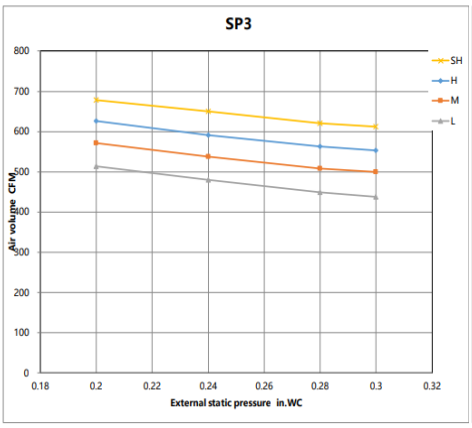


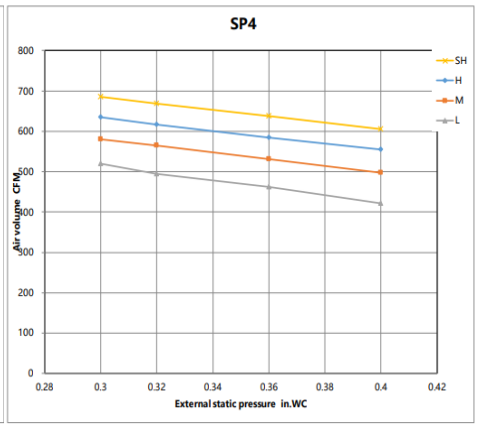
☑ Meets all spatial requirements shown in Installation Clearance Requirements above.

Fan performance

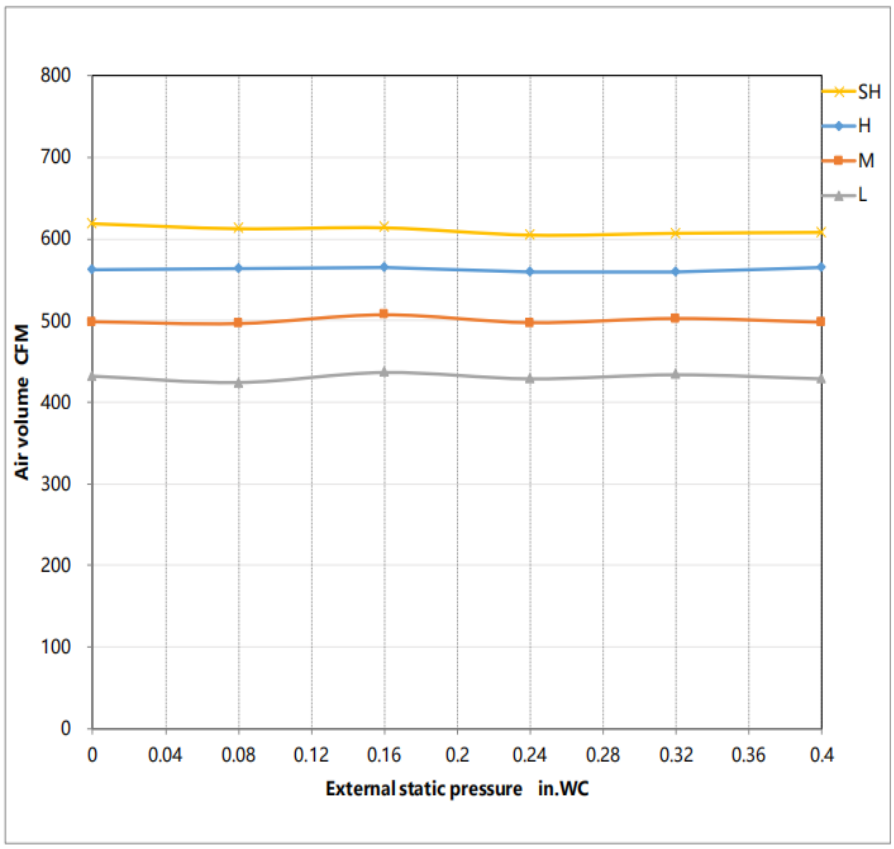








Constant airflow



FEATURES

- Compatible with both horizontal and vertical installation(Optional)
- Static pressure setting stages: 4
- Refrigerant leakage detection sensor
- Constant airflow
- Built-in pump
- i-clean
- Fan speed stages: 1~100%
- WiFi capability: through WiFi dongle or 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*

*24V interface is required.