SUBMITTAL DATA SHEET
Mini Split 25seer Series

AI Air Conditioning

neep | ETL Listed Intertek | AHRI CERTIFIED www.ahridirectory.org | R454B

Model Number: AO25-06N2-M1H / AW25-06N2-M1

Location: _____
Engineer: _____
Submitted to: _____
Submitted by: _____
Reference: _____

Approval: _____
Date: _____
Construction: _____
Unit #: _____
Drawing #: _____
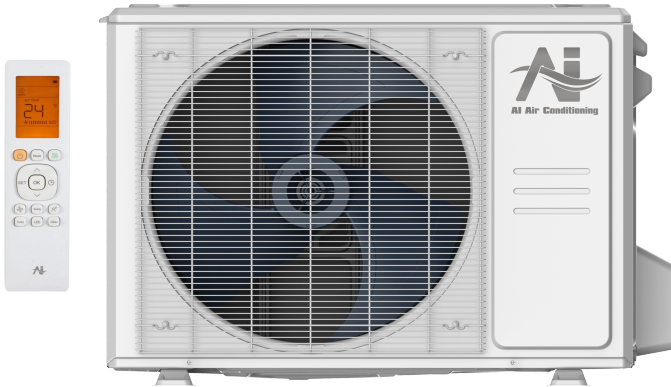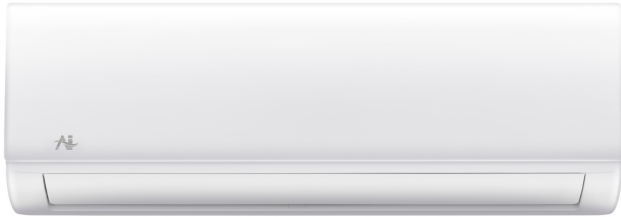
INDOOR SPECIFICATION

Indoor Air Flow (Turbo/H/M/L/S) (CFM)		294/235/177/141/141
Indoor Noise Level (T/H/M/L/S) (dBA)		42/37/32/24/20
Dimension (W×D×H)	inch	28-3/4 x 7-7/8 x 11-1/2
	mm	729 x 200 x 292
Package (W×D×H)	inch	31-1/8 x 10-5/8 x 14-3/4
	mm	790 x 270 x 375
Net/Gross Weight	lbs	18/23
	kg	8.0/10.5

OUTDOOR SPECIFICATION

Compressor Type		ROTARY
Refrigerant		R454B
Factory Charge		310ml
Refrigerant Oil		VG74
Outdoor Air Flow (Max) (CFM)		1235.3
Outdoor Noise Level (dBA)		53.0
Dimension (W×D×H)	inch	30-1/8 x 11-7/8 x 21-7/8
	mm	765 x 303 x 555
Package (W×D×H)	inch	34-7/8 x 13-1/4 x 24
	mm	887 x 337 x 610
Net/Gross Weight	lbs	62/68
	kg	28.2/30.7

EFFICIENCY

Cooling		Heating	
SEER2	25.3	HSPF2-4	14.6
EER2	16.0	COP	3.8

PERFORMANCE of Cooling

Cooling (Btu/hr)	
Rated Capacity	6000
Min/Max Capacity	2500~11500
Moisture Removal	0.3
Standard Operating Range	-22℉~122℉ (-30°C～50°C)

Rated Cooling Conditions:	Indoor: 80°F DB/67°F WB
	Outdoor: 95°F DB/75°F WB

PERFORMANCE of Heating

Heating (Btu/hr)	
1. @ 47℉ Rated (Min/Max)	7000(3200~10700)
2. @ 17℉ Rated	7600
3. @ 5°F Max: Capacity / COP	7500/2.30
Standard Operating Range	-22°F~75°F (-30°C~24°C)

1. Rated Heating Conditions:	Indoor: 70°F DB/60°F WB
	Outdoor: 47°F DB/43°F WB
2. Rated Heating Conditions:	Indoor: 70°F DB/60°F WB
	Outdoor: 17°F DB/15°F WB
3. Heating Conditions, Compressor	Indoor: 70°F DB/60°F WB
Operating at Max. Frequency	Outdoor: 5°F DB/5°F WB

ELECTRICAL

Power Supply	208/230V,60Hz,1Ph
System MCA	12
Connection Wiring	AWG 14-4
System MOCP	15
Compressor RLA	7.3
Outdoor Fan Motor RLA	0.6
Outdoor Fan Motor W	34
Indoor Fan Motor RLA	0.4
Indoor Fan Motor W	13
System Power Input @ Cooling (W)	375(155 ~ 930)
System Power Input @ Heating (W)	540(190 ~1200)
MCA: Min. circuit amps (A)	**MOCP:** Max. over current protection (A)
RLA: Rated load amps (A)	**W:** Fan motor rated output (W)

PIPING

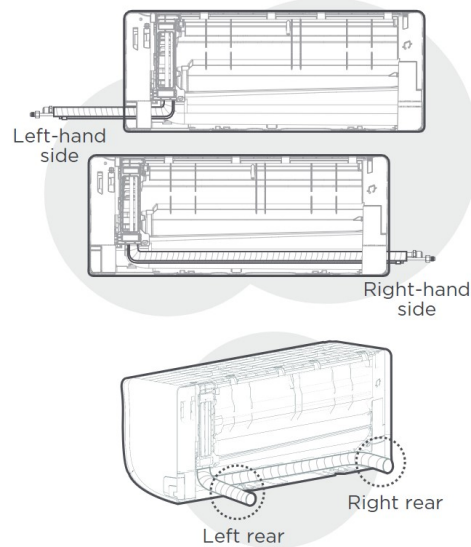|	
Liquid Size	1/4in (6.35mm)
Gas Size	3/8in (9.52mm)
Drain Size	5/8in (15.88mm)
Max. Piping Length	82ft (25m)
Max. Height Difference	49.2ft (15m)
Max. Pre-charged Length	24.6ft (7.5m)
Refrigerant Pre-charged Amount	32.45oz (0.92g)
Additional Charge of Refrigerant	0.16oz/ft (15g/m)
Connection Method	Flared
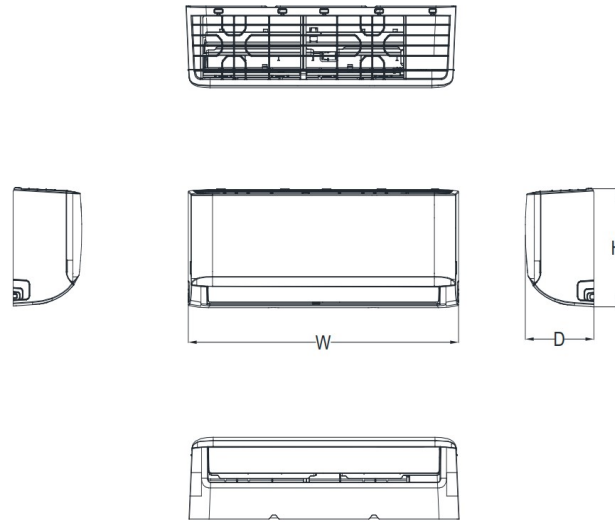
Capacity	Body Code	W(inch/mm)	D(mm/inch)	H(mm/inch)
6K~9K	A	28-3/4in /729mm	7-7/8in /200mm	11-1/2in /292mm
9K~12K	B	31-5/8in /802mm	7-7/8in /200mm	11-5/8in /295mm
18K	C	38-1/4in /971mm	9in/228mm	12-5/8in /321mm
18K~24K	D	42-5/8in /1082mm	9-1/4in/234mm	13-1/4in /337mm
30K~36K	F	49-5/8in /1259mm	11-1/8in/283mm	14-1/4in /362mm

Installation Instruction

1

6″ (15cm)

4-3/4″ (12cm)

4-3/4″ (12cm)

70″ (180cm)
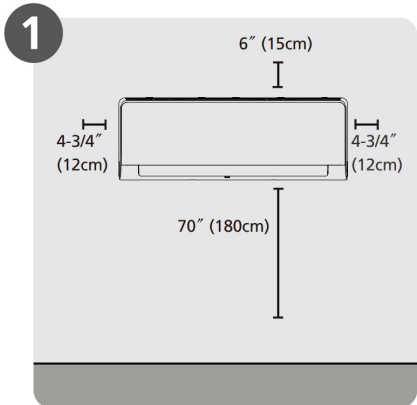
Select Installation Location

15-3/4in (400mm)

4-1/8in (105mm)

5in (126mm)

1-3/8in (34mm)

1-3/4in(45mm)

1-3/4in (45mm)

Φ 2-1/2in (65mm)

Indoor unit dimensions(WxH):
28-3/4in(729mm)x11-1/2in(293mm)

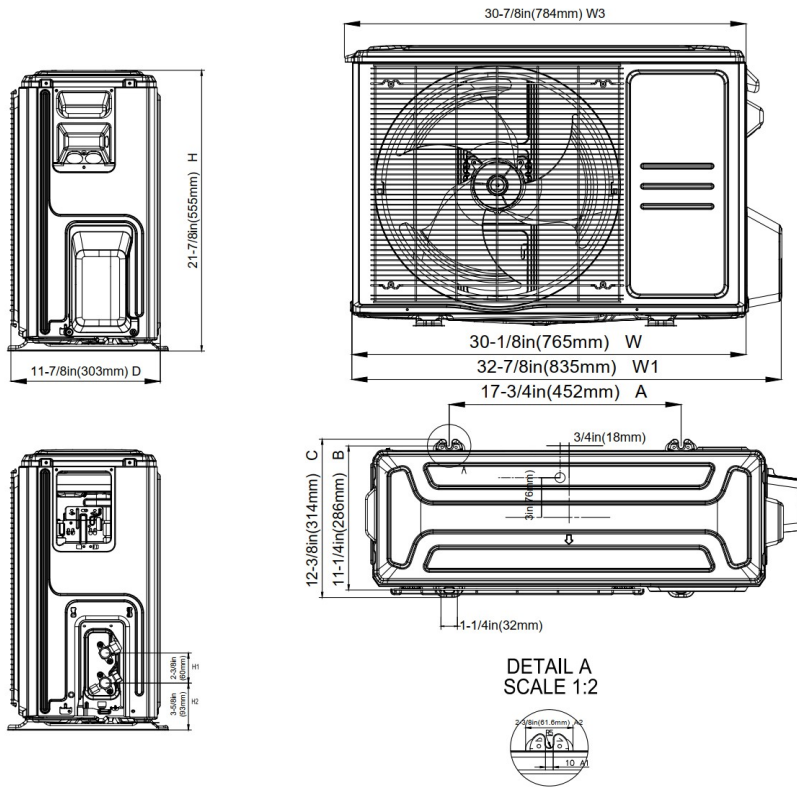Left-hand side

Right-hand side

Right rear

Left rear

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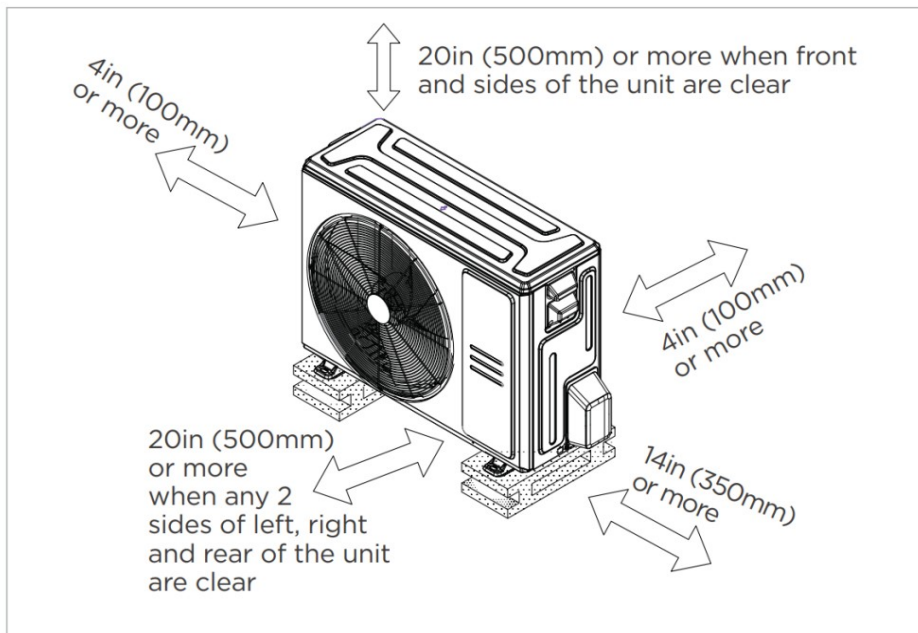
NOTE:
When the gas side connective pipe isΦ (5/8in)16mm or more, the wall hole should be (3-1/2in)90mm.

Outdoor Unit Dimension

30-7/8in(784mm) W3
21-7/8in(555mm) H
11-7/8in(303mm) D
30-1/8in(765mm) W
32-7/8in(835mm) W1
17-3/4in(452mm) A
3/4in(18mm)
3in(76mm)
12-3/8in(314mm) C
11-1/4in(286mm) B
1-1/4in(32mm)
2-3/8in(60mm) H1
3-5/8in(93mm) H2

DETAIL A
SCALE 1:2

2-3/8in(61.6mm) A2
10 A1

Installation Instruction

4in (100mm) or more

20in (500mm) or more when front and sides of the unit are clear

4in (100mm) or more

20in (500mm) or more when any 2 sides of left, right and rear of the unit are clear

14in (350mm) or more

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

● Indoor unit use TU1 copper coil, better anti corrosion.
● 1~100% stepless adjustable fan speed setting
● WiFi capability: Built-in WiFi modular or wired controller with WiFi function
● OTA function: can upgrade the program version anytime
● Multiple controller options available:
  ○ Optional two way communication wired controller, programmable:120N(X6)
  ○ Optional two way communication wired controller, programmable, with built-in WiFi, :120N(X6W)
  ○ Optional Infrared wired controller: 120L
  ○ Standard Wireless remote controller RG10
  ○ Optional 24V interface kit, can connect with Third-Party 24V Thermostat