

SUBMITTAL DATA SHEET



Series Name: **Mini Split 21seer Series**

Model Number: **AO21-30N1-M1 / AW21-30N1-M1-A**

Wall Mounted Heat Pump System	
Location: _____	Approval: _____
Engineer: _____	Date: _____
Submitted to: _____	Construction: _____
Submitted by: _____	Unit #: _____
Reference: _____	Drawing #: _____



INDOOR SPECIFICATION		
Indoor Air Flow (H/M/L) (CFM)		741/702/536
Indoor Noise Level (H/M/L) (dBA)		50.5/45.5/39.5
Dimension (WxDxH)	inch	49-5/8 x 11-1/8 x 14-1/4
	mm	1259 x 283 x 362
Package (WxDxH)	inch	52-3/4 x 17-3/4 x 15-1/8
	mm	1340 x 450 x 385
Net/Gross Weight	lbs	43/56
	kg	19.5/25.2

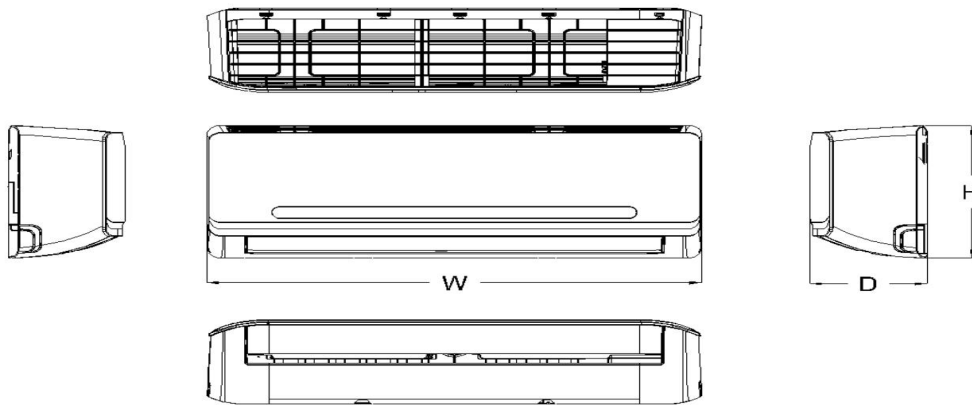
OUTDOOR SPECIFICATION		
Compressor Type		ROTARY
Refrigerant		R410A
Factory Charge		670ml
Refrigerant Oil		VG74
Outdoor Air Flow (Max) (CFM)		2235
Outdoor Noise Level (dBA)		62.5
Dimension (WxDxH)	inch	37-1/4 x 16-1/8 x 31-7/8
	mm	946 x 410 x 810
Package (WxDxH)	inch	42-7/8 x 19-5/8 x 34-7/8
	mm	1090 x 500 x 885
Net/Gross Weight	lbs	143/153
	kg	64.8/69.2

EFFICIENCY			
Cooling		Heating	
SEER2	21.0	HSPF2-4	8.7
EER2	12.2	COP	2.8
PERFORMANCE of Cooling			
Cooling (Btu/hr)			
Rated Capacity		30000	
Min/Max Capacity		8200~30670	
Moisture Removal		3.62 L/H (7.6pint/H)	
Standard Operating Range		-13°F ~122°F (-25°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°F Rated (Min/Max)		30000(11800~30800)	
2. @ 17°F Rated		20000	
3. @ 5°F Max: Capacity / COP		20000 / 1.85	
Standard Operating Range		-13°F ~75°F (-25°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 Operating at Max. Frequency		Indoor: 70°F DB/60°F WB Outdoor: 5°F DB/5°F WB	

ELECTRICAL	
Power Supply	208/230V, 1Ph, 60Hz
System MCA	25
Connection Wiring	AWG 14-4
System MOCP	30
Compressor RLA	16
Outdoor Fan Motor RLA	1
Outdoor Fan Motor W	120
Indoor Fan Motor RLA	0.5
Indoor Fan Motor W	58
System Power Input @ Cooling (W)	2455(311~3008)
System Power Input @ Heating (W)	3200(671~3246)
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	3/8in (9.52mm)
Gas Size	5/8in (15.9mm)
Drain Size	5/8in (15.88mm)
Max. Piping Length	164ft (50m)
Max. Height Difference	82ft (25m)
Max. Pre-charged Length	25ft (7.5m)
Refrigerant Pre-charged Amount	98.77oz (2800g)
Additional Charge of Refrigerant	0.32oz/ft (30g/m)
Connection Method	Flared

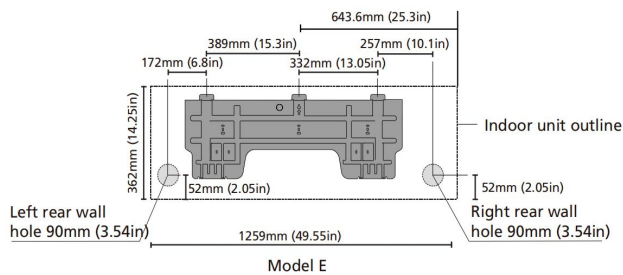
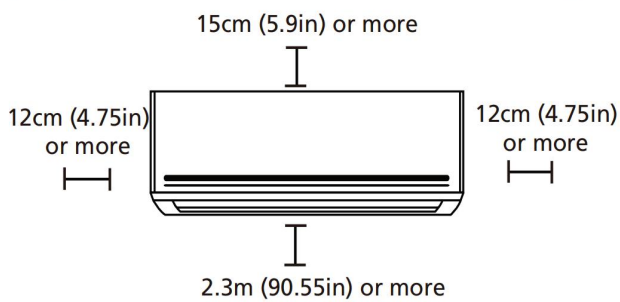
Indoor Unit Dimension



Capacity	Body Code	W(mm)	D(mm)	H(mm)
7K~9K	A	722	187	290
9K~12K	B	802	189	297
12K~18K	D	965	215	319
18K~24K	E	1080	226	335
27K~36K	F	1259	282	362
30K~36K	G	1350	272	365

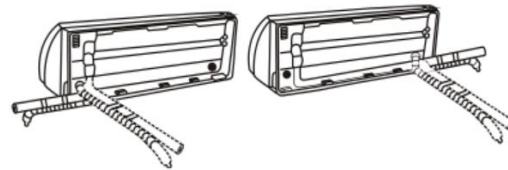
Installation Instruction

Refer to the following diagram to ensure proper distance from walls and ceiling:



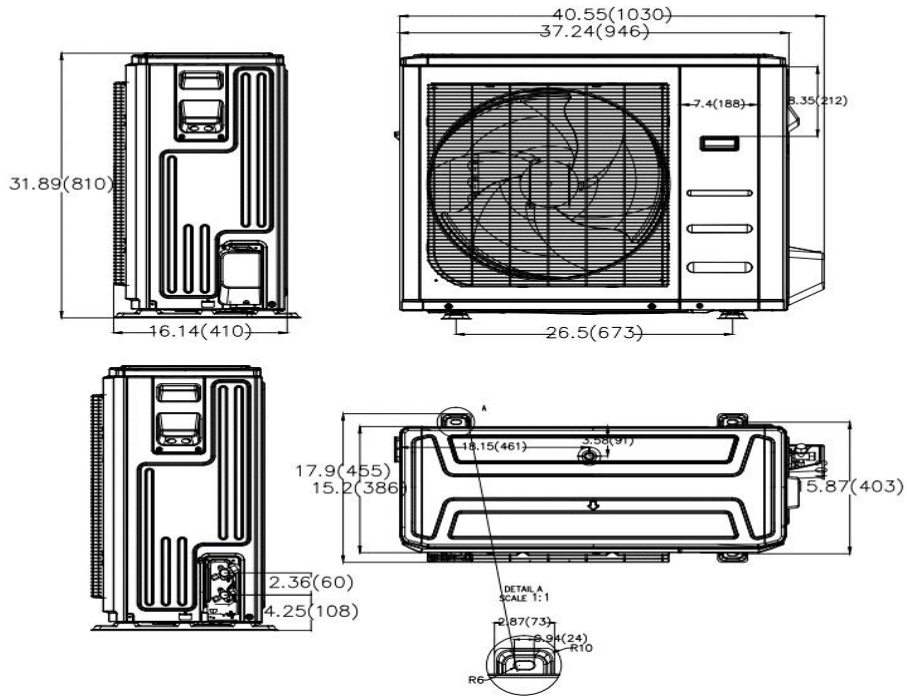
NOTE ON PIPING ANGLE

Refrigerant piping can exit the indoor unit from four different angles: Left-hand side, Right-hand side, Left rear, Right rear.



NOTE: When the gas side connective pipe is Φ 16mm(5/8in) or more, the wall hole should be 90mm(3.54in).

Outdoor Unit Dimension



Installation Instruction

Install the unit by following local codes and regulations, there may be differ slightly between different regions.

