

SUBMITTAL DATA SHEET



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

Model Number: **AO21-36N1-M1 / AW21-36N1-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) | | 653/447/329 |
| Indoor Noise Level (H/M/L) (dBA) | | 54/45/40 |
| 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 | 19.4/25.2 |

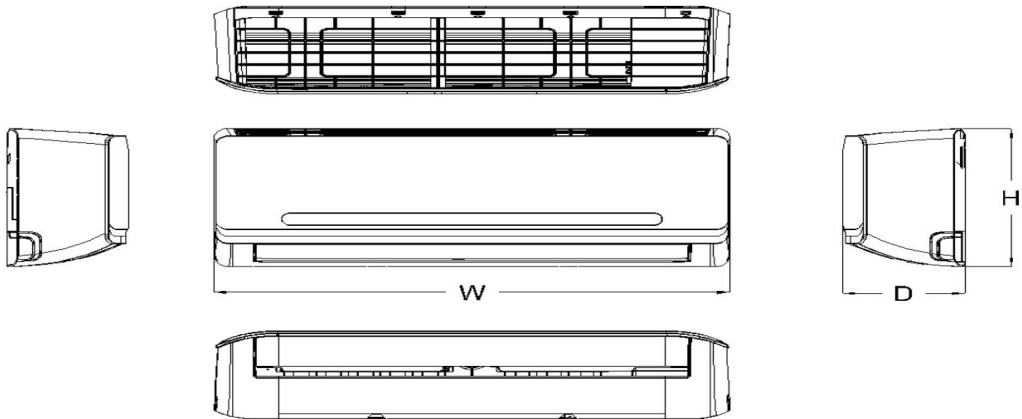
| OUTDOOR SPECIFICATION | | |
|------------------------------|------|--------------------------|
| Compressor Type | | ROTARY |
| Refrigerant | | R410A |
| Factory Charge | | 670ml |
| Refrigerant Oil | | VG74 |
| Outdoor Air Flow (Max) (CFM) | | 2235 |
| Outdoor Noise Level (dBA) | | 65 |
| Dimension (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 | 150/159 |
| | kg | 68.1/72.1 |

| EFFICIENCY | | | |
|---|------------------------|--------------------------|-----|
| Cooling | | Heating | |
| SEER2 | 18 | HSPF2-4 | 7.8 |
| EER2 | 9.5 | COP | 2.8 |
| PERFORMANCE of Cooling | | | |
| Cooling (Btu/hr) | | | |
| Rated Capacity | 36000 | | |
| Min/Max Capacity | 8300~37500 | | |
| Moisture Removal | 4.48 L/H (9.5pint/H) | | |
| Standard Operating Range | 5°F~122°F (-15°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) | 36000(10900~37360) | | |
| 2. @ 17°F Rated | 20000 | | |
| 3. @ 5°F Max: Capacity / COP | 22000 / 2.01 | | |
| Standard Operating Range | 5°F~75°F (-15°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 | 28 |
| Connection Wiring | AWG 14-4 |
| System MOCP | 30 |
| Compressor RLA | 18 |
| Outdoor Fan Motor RLA | 0.5 |
| Outdoor Fan Motor W | 120 |
| Indoor Fan Motor RLA | 0.5 |
| Indoor Fan Motor W | 58 |
| System Power Input @ Cooling (W) | 3790(340~3048) |
| System Power Input @ Heating (W) | 3790(610~4350) |
| 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 | 213.3ft (65m) |
| Max. Height Difference | 98.4ft (30m) |
| Max. Pre-charged Length | 25ft (7.5m) |
| Refrigerant Pre-charged Amount | 119.93oz (3400g) |
| Additional Charge of Refrigerant | 0.32oz/ft (30g/m) |
| Connection Method | Flared |

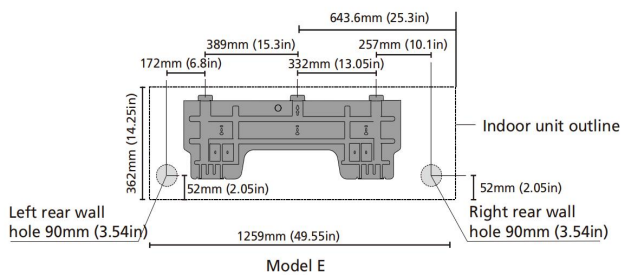
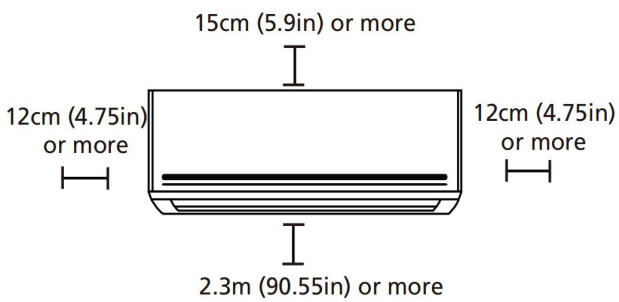
Indoor Unit Dimension



| 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 |

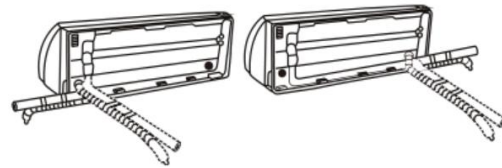
Installation Instruction

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



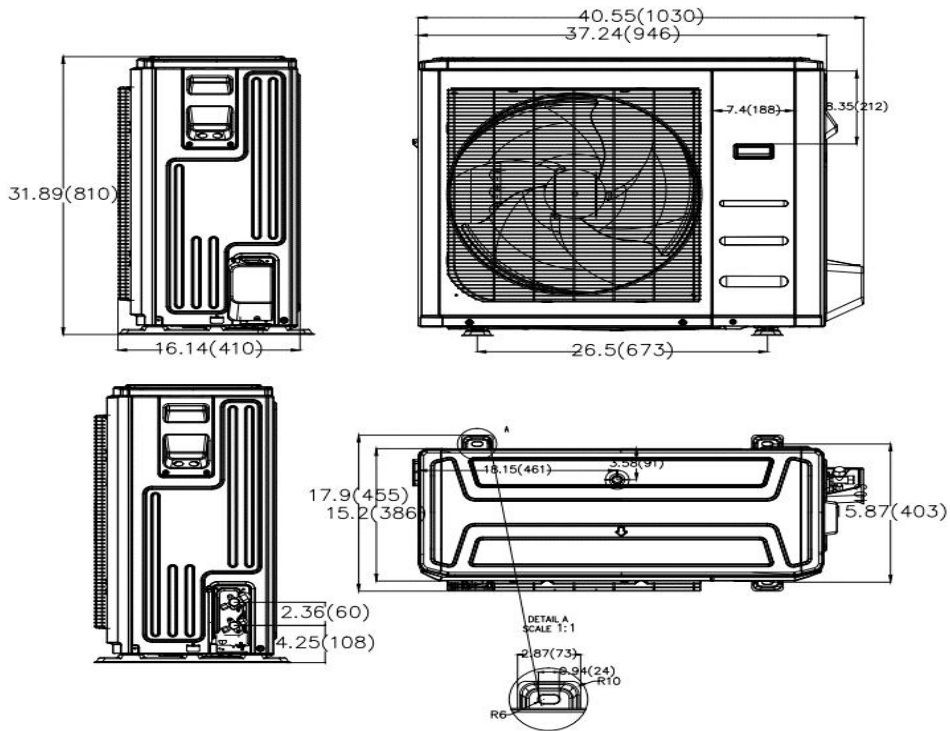
NOTE ON PIPING ANGLE

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.

