

# SUBMITTAL DATA SHEET



Series Name: **Mini Split 24seer Series**

Model Number: **AO24-24N1-M1H / AW25-24N1-M1**

## Wall Mounted Heat Pump System

Location: \_\_\_\_\_  
 Engineer: \_\_\_\_\_  
 Submitted to: \_\_\_\_\_  
 Submitted by: \_\_\_\_\_  
 Reference: \_\_\_\_\_

Approval: \_\_\_\_\_  
 Date: \_\_\_\_\_  
 Construction: \_\_\_\_\_  
 Unit #: \_\_\_\_\_  
 Drawing #: \_\_\_\_\_



| INDOOR SPECIFICATION             |      |                          |
|----------------------------------|------|--------------------------|
| Indoor Air Flow (H/M/L) (CFM)    |      | 761/601/459              |
| Indoor Noise Level (H/M/L) (dBA) |      | 48/40/28                 |
| Dimension (WxDxH)                | inch | 42-5/8 x 9-1/4 x 13-1/4  |
|                                  | mm   | 1082 x 234 x 337         |
| Package (WxDxH)                  | inch | 45-1/2 x 16-3/8 x 12-3/8 |
|                                  | mm   | 1155 x 415 x 315         |
| Net/Gross Weight                 | lbs  | 30/38                    |
|                                  | kg   | 13.6/17.3                |

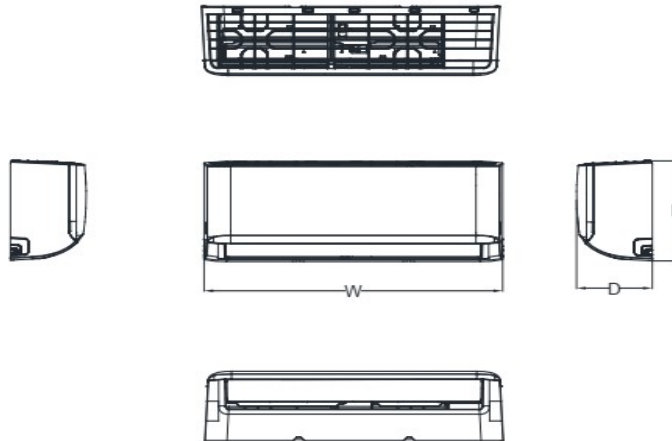
| OUTDOOR SPECIFICATION        |      |                          |
|------------------------------|------|--------------------------|
| Compressor Type              |      | Twin-ROTARY              |
| Refrigerant                  |      | R410A                    |
| Factory Charge               |      | 620ml                    |
| Refrigerant Oil              |      | VG74                     |
| Outdoor Air Flow (Max) (CFM) |      | 2235                     |
| Outdoor Noise Level (dBA)    |      | 62                       |
| 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  | 125/135                  |
|                              | kg   | 56.6/61.2                |

| EFFICIENCY  |    |                           |     |
|---|----|---------------------------|-----|
| Cooling   |    | Heating                   |     |
| SEER2   | 21 | HSPF2-4                   | 8.5 |
| EER2  | 13 | COP                       | 3.2 |
| PERFORMANCE of Cooling  |    |                           |     |
| Cooling (Btu/hr)  |    |                           |     |
| Rated (Min/Max)   |    | 24000                     |     |
| Sebsible @ AHRI   |    | 9200~25000                |     |
| Moisture Removal  |    | 2.57 L/H (5.4pint/H)      |     |
| Standard Operating Range  |    | -13°F ~122°F (-25°C~50°C) |     |
| Rated Cooling Conditions: Indoor: 80°F DB/67°F WB<br>Outdoor: 95°F DB/75°F WB                                   |    |                           |     |
| PERFORMANCE of Heating  |    |                           |     |
| Heating (Btu/hr)  |    |                           |     |
| 1. @ 47°F Rated (Min/Max)   |    | 26000(10350~26410)        |     |
| 2. @ 17°F Rated   |    | 17400                     |     |
| 3. @ 5°F Max: Capacity / COP  |    | 14800 / 1.8               |     |
| Standard Operating Range  |    | -13°F ~75°F (-25°C~24°C)  |     |
| 1. Rated Heating Conditions: Indoor: 70°F DB/60°F WB<br>Outdoor: 47°F DB/43°F WB                                |    |                           |     |
| 2. Rated Heating Conditions: Indoor: 70°F DB/60°F WB<br>Outdoor: 17°F DB/15°F WB                                |    |                           |     |
| 3. Heating Conditions, Compressor Operating at Max. Frequency Indoor: 70°F DB/60°F WB<br>Outdoor: 5°F DB/5°F WB |    |                           |     |

| ELECTRICAL                       |  |
|----------------------------------|--|
| Power Supply                     | 208/230V,1Ph,60Hz                      |
| System MCA                       | 19                                     |
| Connection Wiring                | AWG 14-4                               |
| System MOCP                      | 30                                     |
| Compressor RLA                   | 12                                     |
| Outdoor Fan Motor RLA            | 0.76                                   |
| Outdoor Fan Motor W              | 80                                     |
| Indoor Fan Motor RLA             | 0.25                                   |
| Indoor Fan Motor W               | 58                                     |
| System Power Input @ Cooling (W) | 1333(560~1748)                         |
| System Power Input @ Heating (W) | 1410(460~1964)                         |
| 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                         | 1/2in (12.7mm)    |
| Drain Size                       | 5/8in (15.88mm)   |
| Max. Piping Length               | 98.4ft (30m)      |
| Max. Height Difference           | 65.6ft (20m)      |
| Max. Pre-charged Length          | 25ft (7.5m)       |
| Refrigerant Pre-charged Amount   | 56.44oz (1600g)   |
| Additional Charge of Refrigerant | 0.16oz/ft (15g/m) |
| Connection Method                | Flared            |

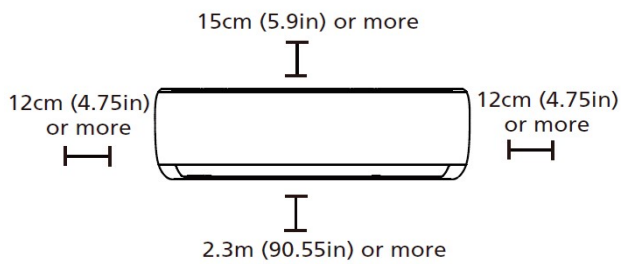
## Indoor Unit Dimension



| Capacity | Body Code | W(mm/inch) | D(mm/inch) | H(mm/inch) |
|----------|-----------|------------|------------|------------|
| 6K~11K   | A         | 729/28.7   | 200/7.87   | 292/11.5   |
| 8K~14K   | B         | 802/31.57  | 200/7.87   | 295/11.61  |
| 12K~21K  | C         | 971/38.23  | 228/8.98   | 321/12.64  |
| 18K~28K  | D         | 1082/42.6  | 234/9.21   | 337/13.27  |
| 27K~36K  | F         | 1259/49.57 | 283/11.14  | 362/14.25  |

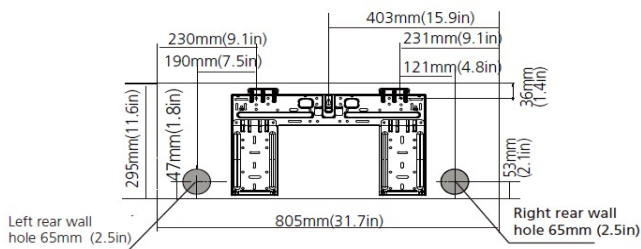
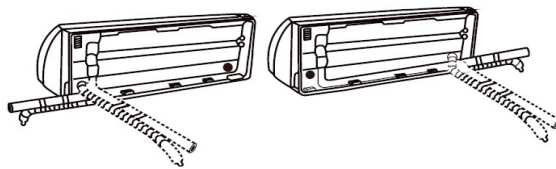
## Installation Instruction

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



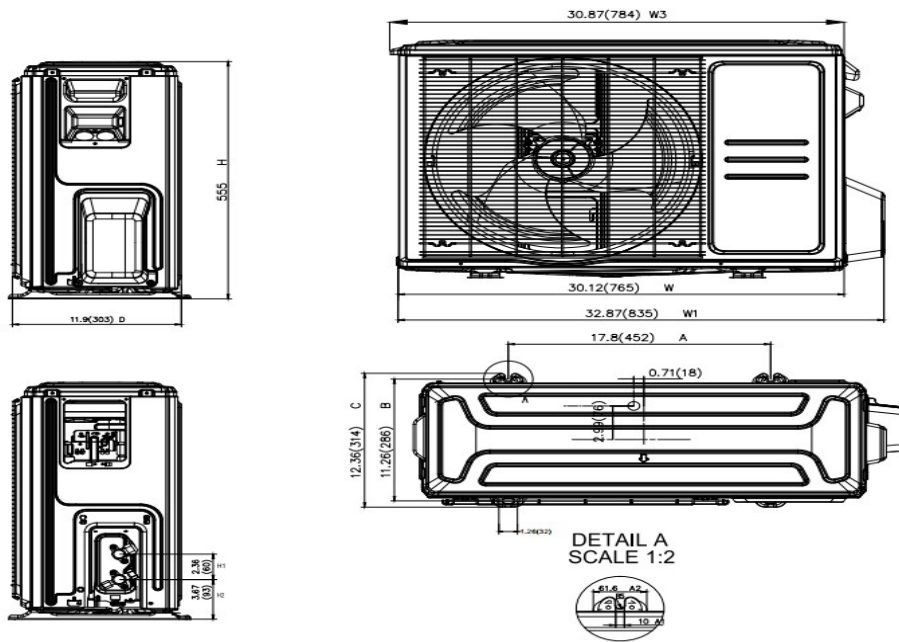
### NOTE ON PIPING ANGLE

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  $\Phi$  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.

