

# SUBMITTAL DATA SHEET

| Slim Duct Heat Pump System |               |
|----------------------------|---------------|
| Location:                  | Approval:     |
| Engineer:                  | Date:         |
| Submitted to:              | Construction: |
| Submitted by:              | Unit #:       |
| Reference:                 | Drawing #:    |



| INDOOR SPCINDOOR SPECIFICATIONCIFICATION  |      |                                         |
|-------------------------------------------|------|-----------------------------------------|
| Indoor Air Flow (Turbo/H/M/L/Si) (CFM)    |      | 2001.2 / 1706.9 / 1412.6 / 1118.3 / N/A |
| Indoor Noise Level (Turbo/H/M/L/Si) (dBA) |      | N/A/52/48/42/41                         |
| Indoor static pressure range(in.w.g.)     |      | 0-0.8                                   |
| Dimension (W×D×H)                         | inch | 55.12 x 31.50 x 14.96                   |
|                                           | mm   | 1400.0×800.0×380.0                      |
| Package (W×D×H)                           | inch | 62.99 x 36.02 x 17.52                   |
|                                           | mm   | 1600×915×445                            |
| Net/Gross Weight                          | lbs  | 161.38/178.13                           |
|                                           | kg   | 73.2/80.8                               |

| OUTDOOR SPECIFICATION        |      |                       |
|------------------------------|------|-----------------------|
| Compressor Type              |      | TWIN-ROTARY           |
| Compressor Model             |      | EKPO440D1UMUB         |
| Refrigerant                  |      | R454B                 |
| Refrigerant Oil Charge(mL)   |      | 1300ml                |
| Refrigerant Oil              |      | 7.3                   |
| Outdoor Air Flow (Max) (CFM) |      | 4237.9                |
| Outdoor Noise Level (dBA)    |      | 63.0                  |
| Dimension (W×D×H)            | inch | 37.48 x 16.34 x 52.48 |
|                              | mm   | 952.0×415.0×1333.0    |
| Package (W×D×H)              | inch | 43.11 x 19.49 x 58.27 |
|                              | mm   | 1095×495×1480         |
| Net/Gross Weight             | lbs  | 230.38/261.69         |
|                              | kg   | 104.5/118.7           |

| EFFICIENCY |      |         |      |
|------------|------|---------|------|
| Cooling    |      | Heating |      |
| SEER2      | 15.8 | HSPF2-4 | 10.4 |
| EER2       | 10.2 | COP     | 3.74 |

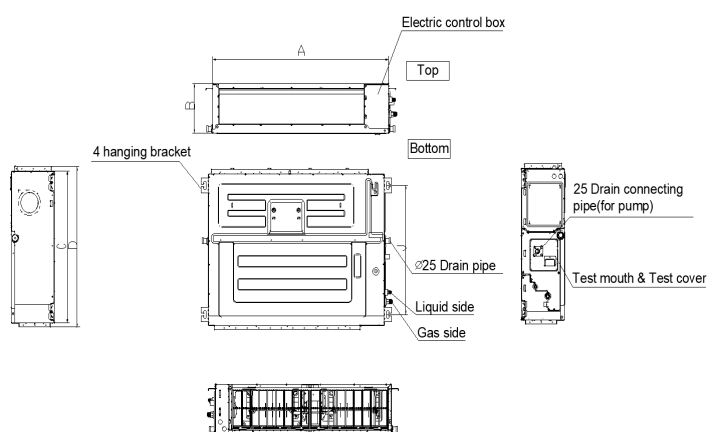
| PERFORMANCE of Cooling          |                                                     |
|---------------------------------|-----------------------------------------------------|
| Cooling (Btu/hr)                |                                                     |
| Rated Capacity                  | 55000                                               |
| Min/Max Capacity                | 14200-60000                                         |
| Moisture Removal(L/h)           | 3.63                                                |
| Standard Operating Range(°F/°C) | -22~-122(-30~50)                                    |
| 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                 | 60000                                               |
| 1. @ 47°F Min/Max Capacity      | 11200-66000                                         |
| 2. @ 17°F Rated                 | 45000                                               |
| 3. @ 5°F Rated: Capacity / COP  | 53500/2.10                                          |
| 3. @ 5°F Max: Capacity          | 53500                                               |
| Standard Operating Range(°F/°C) | -22~-75(-30~24)                                     |
| 1. Conditions:                  | Indoor: 70°F DB/60°F WB<br>Outdoor: 47°F DB/43°F WB |
| 2. Conditions:                  | Indoor: 70°F DB/60°F WB<br>Outdoor: 17°F DB/15°F WB |
| 3. Conditions                   | Indoor: 70°F DB/60°F WB<br>Outdoor: 5°F DB/5°F WB   |

| ELECTRICAL                       |                                        |
|----------------------------------|----------------------------------------|
| Power Supply                     | 208/230V,60Hz,1Ph                      |
| System MCA                       | 44.00                                  |
| Connection Wiring                | 14#x3                                  |
| System MOCP                      | 45                                     |
| Compressor RLA                   | 26.8                                   |
| Outdoor Fan Motor RLA            | 2.2                                    |
| Outdoor Fan Motor W              | 85                                     |
| Indoor Fan Motor RLA             | 4.0                                    |
| Indoor Fan Motor W               | 560                                    |
| System Power Input @ Cooling (W) | 5400(1160 ~ 6120)                      |
| System Power Input @ Heating (W) | 4700(795 ~ 5150)                       |
| 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                                     | 9.52mm(3/8in)      |
| Gas Size                                        | 19mm(3/4in)        |
| Max. Piping Length(ft/m)                        | 246.00(75)         |
| Max. Height Difference(ft/m)                    | 98.40(30)          |
| Max. Pre-charged Length(ft/m)                   | 24.6(7.5)          |
| Refrigerant Pre-charged Amount(oz/kg)           | 151.68(4.30)       |
| Additional Charge of Refrigerant((oz/ft)/(g/m)) | 0.32(30)           |
| Connection Method                               | Flared             |

# Indoor Unit Dimension



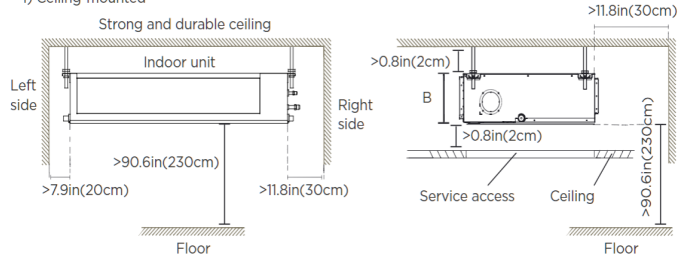
| MODEL   | A                | B               | C               | D               |
|---------|------------------|-----------------|-----------------|-----------------|
| 9K      | 27-1/2in(700mm)  | 7-7/8in(200mm)  | 17-3/4(450mm)   | 20in(506mm)     |
| 12K     | 27-1/2in(700mm)  | 9-5/8in(245mm)  | 29-1/2(750mm)   | 31-1/4in(795mm) |
| 18K~24K | 39-3/8in(1000mm) | 9-5/8in(245mm)  | 29-1/2(750mm)   | 31-1/4in(795mm) |
| 36K~48K | 47-1/8in(1200mm) | 11-7/8in(300mm) | 29-1/2(750mm)   | 31-1/4in(795mm) |
| 60K     | 55-1/8in(1400mm) | 15in(380mm)     | 31-1/2in(800mm) | 33-1/4in(845mm) |

## Installation Instruction

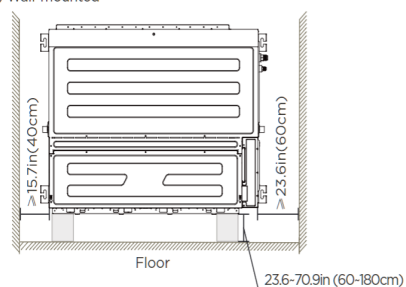
### Installation place

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

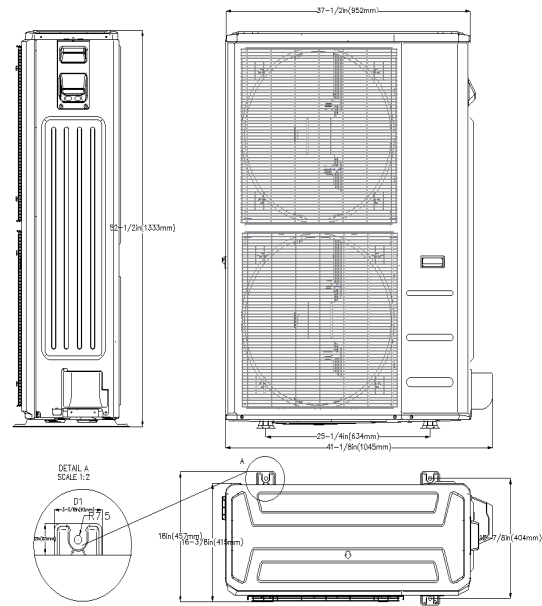
#### 1) Ceiling-mounted



#### 2) Wall-mounted



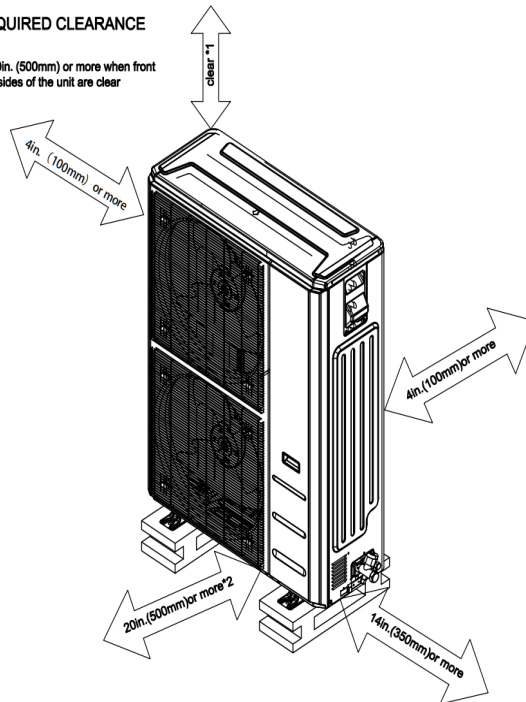
# Outdoor Unit Dimension



# Installation Instruction

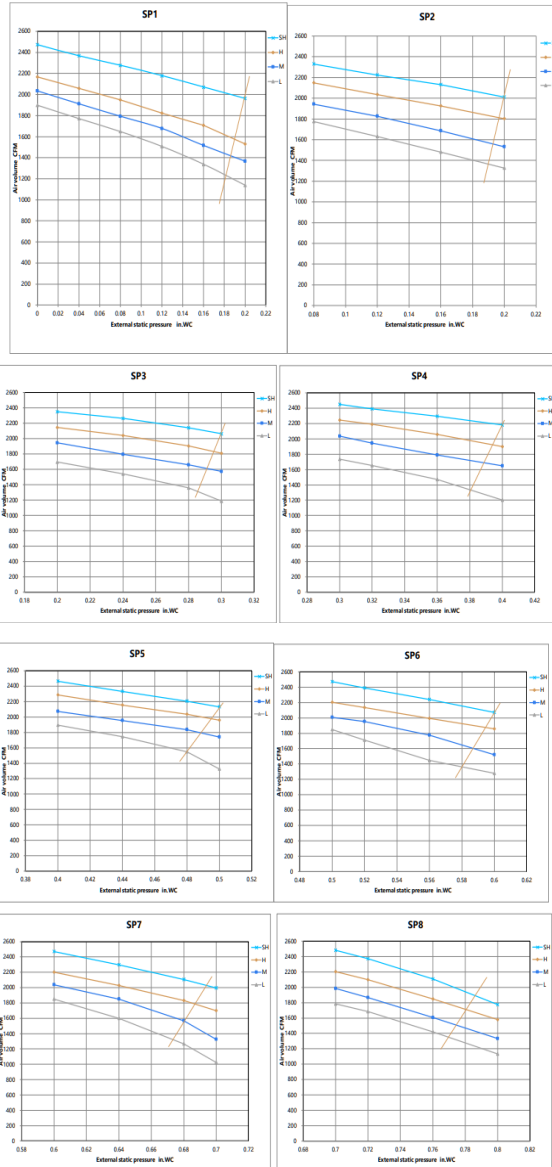
## REQUIRED CLEARANCE

\*1 20in. (500mm) or more when front and sides of the unit are clear

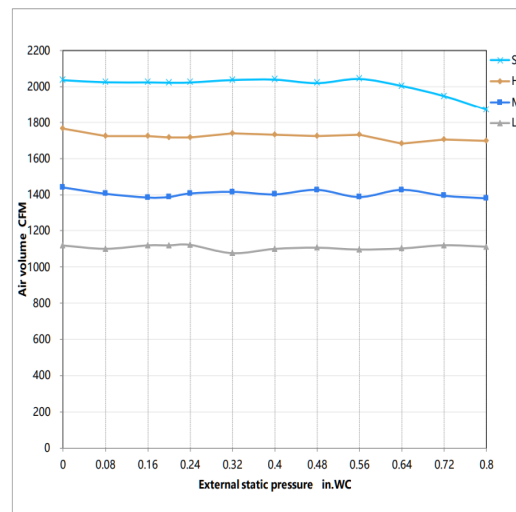


\*2 When any 2 sides of left, right and rear of the unit are clear

## Fan performance



## Constant air volume



#### FEATURES

- Compatible with both horizontal and vertical installation
- Static pressure up to 0.8 in.w.g(for all models)
- Static pressure setting stages: 8
- Refrigerant leakage detection sensor
- Constant airflow
- Built-in pump
- i-clean
- Fan speed stages: 1~100%
- WiFi capability: through 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.