

**Slim Duct Heat Pump System**

|               |               |
|---------------|---------------|
| Location:     | Approval:     |
| Engineer:     | Date:         |
| Submitted to: | Construction: |
| Submitted by: | Unit #:       |
| Reference:    | Drawing #:    |


**INDOOR SPEINDOOR SPECIFICATIONCIFICATION**

|   |                                     |
|---|-------------------------------------|
| Indoor Air Flow (Turbo/H/M/L/Si) (CFM)    | 853.5 / 706.3 / 618.0 / 500.3 / N/A |
| Indoor Noise Level (Turbo/H/M/L/Si) (dBA) | N/A/40.0/37.0/35/29.5               |
| Indoor static pressure range(in.w.g.)     | 0-0.8                               |
| Dimension (W×D×H)                         | inch 39.37 x 29.53 x 9.65           |
|   | mm 1000.0×750.0×245.0               |
| Package (W×D×H)                           | inch 48.23 x 33.86 x 11.97          |
|   | mm 1225×860×304                     |
| Net/Gross Weight                          | lbs 80.47/91.93                     |
|   | kg 36.5/41.7                        |

**ELECTRICAL**

|                                  |  |
|----------------------------------|--|
| Power Supply                     | 208/230V,60Hz,1Ph                      |
| System MCA                       | 24.90                                  |
| Connection Wiring                | 14#x4                                  |
| System MOCP                      | 25                                     |
| Indoor Fan Motor RLA             | 2.2                                    |
| Indoor Fan Motor W               | 165.0                                  |
| System Power Input @ Cooling (W) | 2000(870 ~ 2410)                       |
| System Power Input @ Heating (W) | 2000(440 ~ 2480)                       |
| MCA: Min. circuit amps (A)       | MOCP: Max. over current protection (A) |
| RLA: Rated load amps (A)         | W: Fan motor rated output (W)          |
|                                  |  |
|                                  |  |

**EFFICIENCY**

| Cooling |      | Heating |      |
|---------|------|---------|------|
| SEER2   | 19   | HSPF2-4 | 11.7 |
| EER2    | 12.0 | COP     | 3.81 |

**PERFORMANCE of Cooling**

| Cooling (Btu/hr)                |   |
|---------------------------------|---|
| Rated Capacity                  | 24000   |
| Min/Max Capacity                | 5000~28000  |
| Moisture Removal(L/h)           | 2.03  |
| 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 |

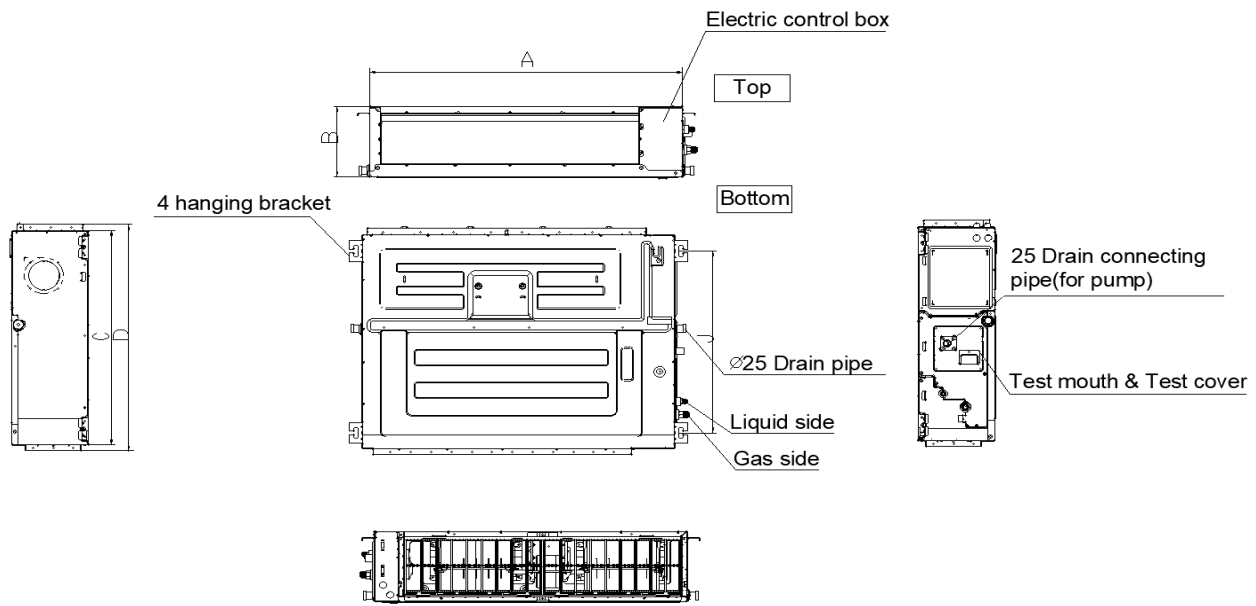
**PERFORMANCE of Heating**

| Heating (Btu/hr)                |   |
|---------------------------------|---|
| 1. @ 47°F Rated                 | 26000   |
| 1. @ 47°F Min/Max Capacity      | 7300~31400  |
| 2. @ 17°F Rated                 | 21600   |
| 3. @ 5°F Rated: Capacity / COP  | 24000/2.18  |
| 3. @ 5°F Max: Capacity          | 24000   |
| 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   |

**PIPING**

|   |               |
|---|---------------|
| Throttle type(Indoor)                           | N/A           |
| Liquid Size                                     | 9.52mm(3/8in) |
| Gas Size  | 15.9mm(5/8in) |
| Max. Piping Length(ft/m)                        | 164.00(50)    |
| Max. Height Difference(ft/m)                    | 82.00(25)     |
| Max. Pre-charged Length(ft/m)                   | 24.6(7.5)     |
| Refrigerant Pre-charged Amount(oz/kg)           | 63.49(1.80)   |
| Additional Charge of Refrigerant((oz/ft)/(g/m)) | 0.32(30)      |
| Connection Method                               | Flared        |
|   |               |
|   |               |

## Indoor Unit Dimension



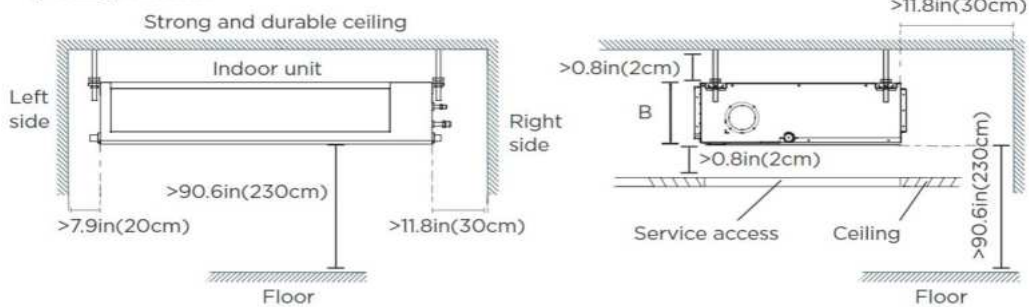
| MODEL   | A                | B               | C               | D               |
|---------|------------------|-----------------|-----------------|-----------------|
| 5K      | 27-1/2" (700mm)  | 17-1/8" (230mm) | 17-3/4" (450mm) | 20in (506mm)    |
| 12K     | 27-1/2" (700mm)  | 9-5/8" (243mm)  | 29-1/2" (750mm) | 31-1/4" (795mm) |
| 18K~24K | 39-3/8" (1000mm) | 9-5/8" (245mm)  | 29-1/2" (750mm) | 31-1/4" (795mm) |
| 36K~48K | 47-1/8" (1200mm) | 11-1/8" (300mm) | 29-1/2" (750mm) | 31-1/4" (795mm) |
| 60K     | 55-1/8" (1400mm) | 15in (380mm)    | 31-1/2" (800mm) | 33-1/4" (845mm) |

## Installation Instruction

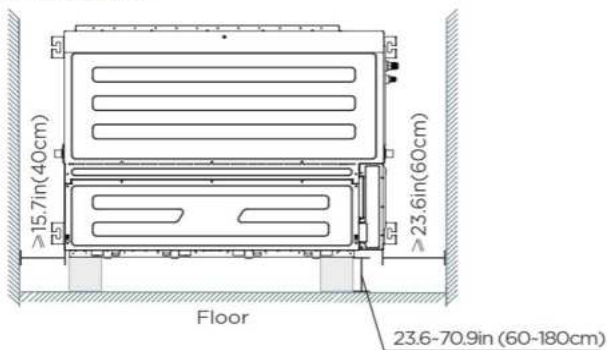
### Installation place

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

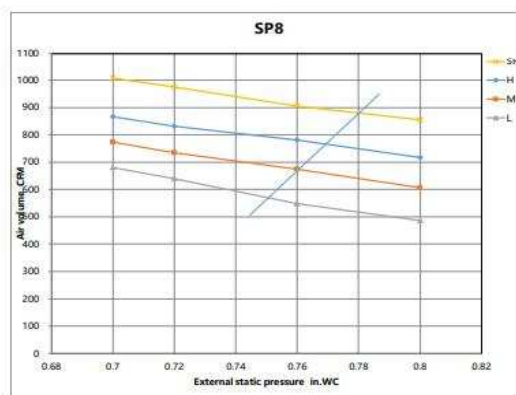
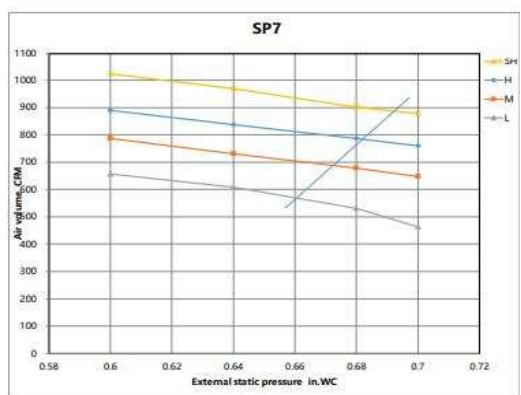
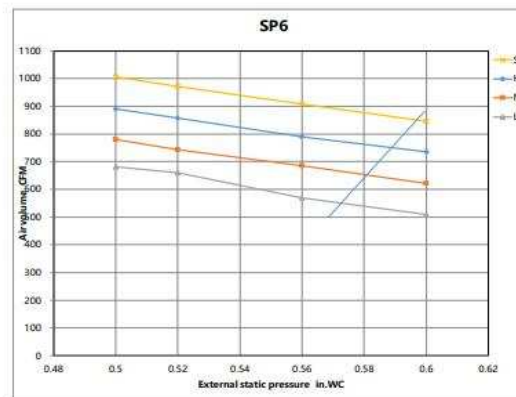
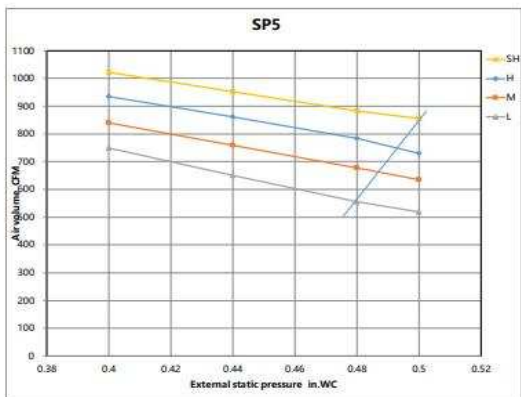
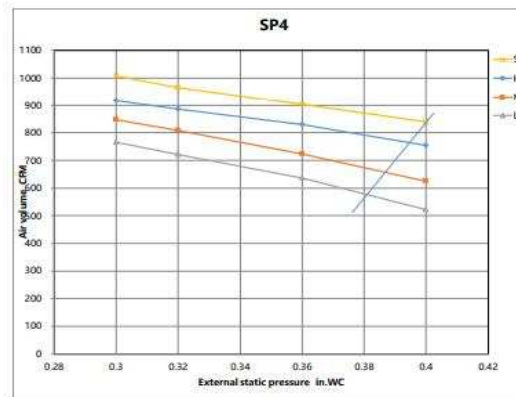
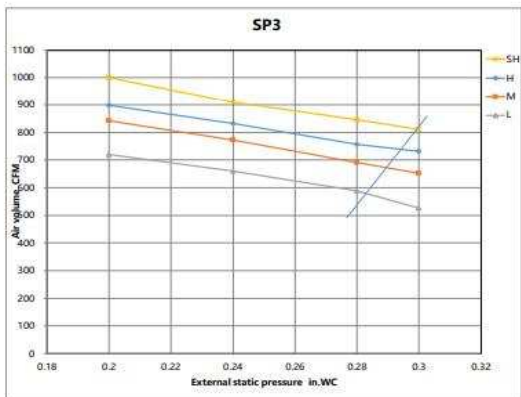
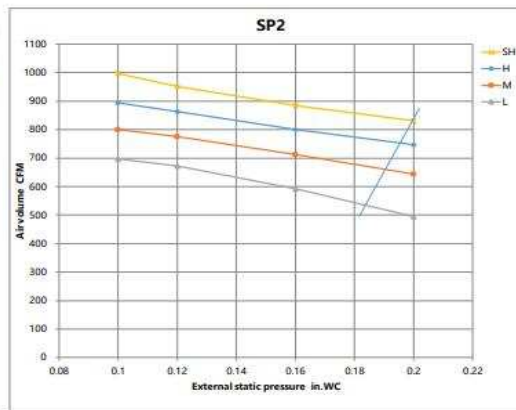
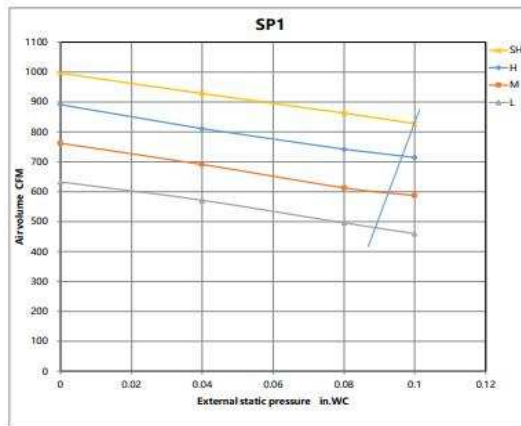
#### 1) Ceiling-mounted



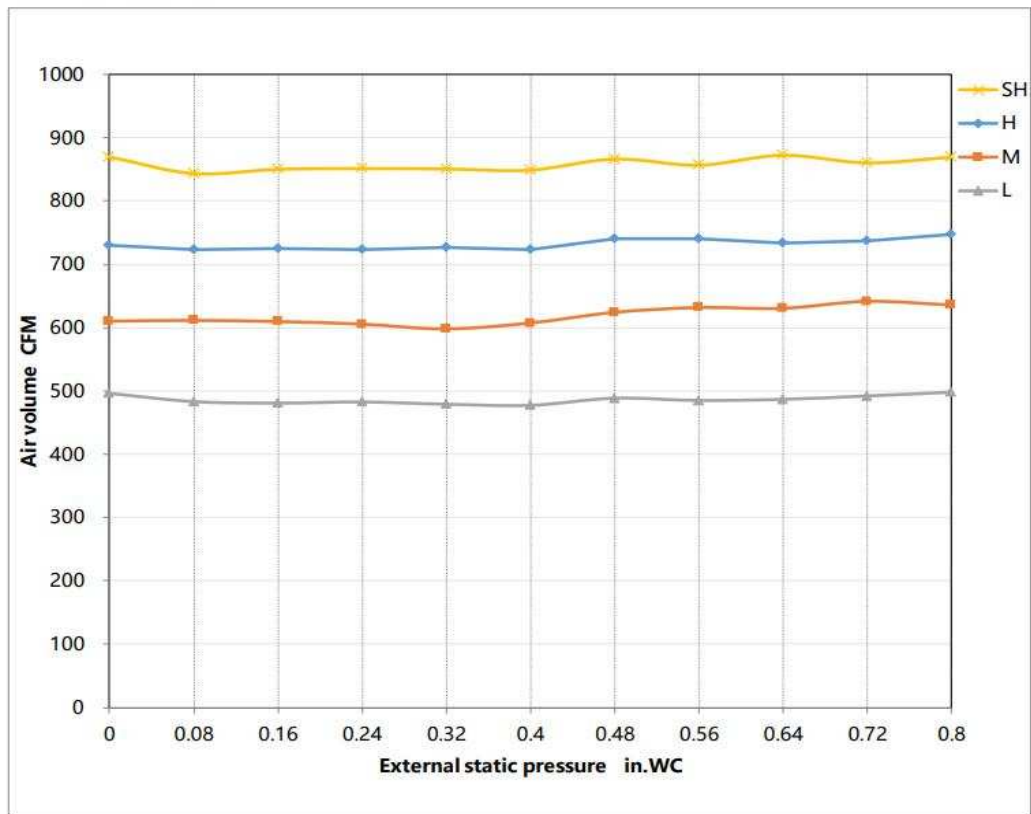
#### 2) Wall-mounted



## 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 AWC-8P-LC-WIFI)
- 2-pin connector(HA/HB) for programmable wired controller
- Multiple control options available:
  - Two way communication wired controller with built-in WiFi:AWC-8P-LC-WIFI
  - Infrared wired controller: AWC-4
  - Wireless remote controller
  - Third-Party 24V Thermostat

\*24V interface is required.