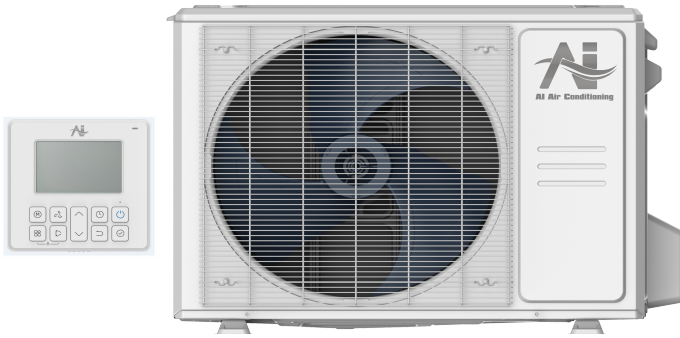
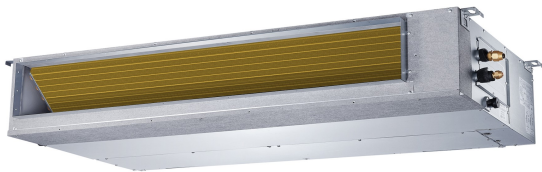




Location: \_\_\_\_\_  
 Engineer: \_\_\_\_\_  
 Submitted to: \_\_\_\_\_  
 Submitted by: \_\_\_\_\_  
 Reference: \_\_\_\_\_

Model Number: AO25-09N2-M1H / AL-09N2-M1

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



| INDOOR SPECIFICATION                  |                     |                          |
|---------------------------------------|---------------------|--------------------------|
| Indoor Air Flow (Turbo/H/M/L/S) (CFM) | 324/265/206/147/118 |                          |
| Indoor Noise Level (T/H/M/L/S) (dBA)  | 33/33/31/30/23      |                          |
| Indoor static pressure range          | 0-0.4               |                          |
| Dimension (W×D×H)                     | inch                | 27-1/2 x 19-7/8 x 7-7/8  |
|                                       | mm                  | 700 x 506 x 200          |
| Package (W×D×H)                       | inch                | 33-7/8 x 21-1/4 x 11-1/4 |
|                                       | mm                  | 860 x 540 x 285          |
| Net/Gross Weight                      | lbs                 | 39/47                    |
|                                       | kg                  | 17.9/21.2                |

| OUTDOOR SPECIFICATION        |        |                      |
|------------------------------|--------|----------------------|
| Compressor Type              | ROTARY |                      |
| Refrigerant                  | R454B  |                      |
| Factory Charge               | 350ml  |                      |
| Refrigerant Oil              | VG74   |                      |
| Outdoor Air Flow (Max) (CFM) | 1471.5 |                      |
| Outdoor Noise Level (dBA)    | 56.0   |                      |
| Dimension (W×D×H)            | inch   | 31-3/4 x 13 x 21-3/4 |
|                              | mm     | 805 x 330 x 554      |
| Package (W×D×H)              | inch   | 36 x 14-5/8 x 24-1/4 |
|                              | mm     | 915 x 370 x 615      |
| Net/Gross Weight             | lbs    | 73/79                |
|                              | kg     | 33/35.7              |

| EFFICIENCY |      |         |      |
|------------|------|---------|------|
| Cooling    |      | Heating |      |
| SEER2      | 21.4 | HSPF2-4 | 12.5 |
| EER2       | 13.4 | COP     | 3.5  |

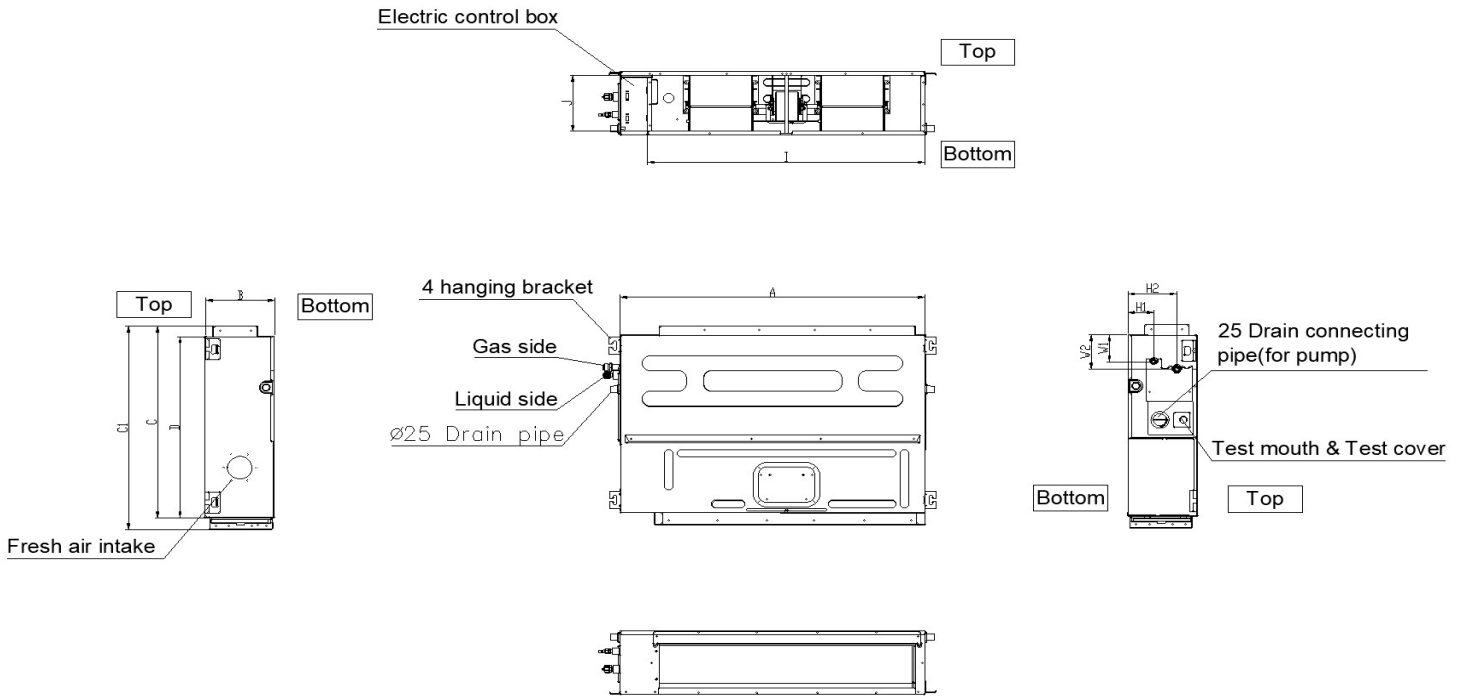
| PERFORMANCE of Cooling    |   |
|---------------------------|---|
| Cooling (Btu/hr)          |   |
| Rated Capacity            | 9000  |
| Min/Max Capacity          | 3400~13500  |
| Moisture Removal          | 0.7   |
| Standard Operating Range  | -22°F~-122°F (-30°C~50°C)                           |
| 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)                                     | 10000(3800~16200)                                   |
| 2. @ 17°F Rated   | 9600  |
| 3. @ 5°F Max: Capacity / COP                                  | 11200/1.89  |
| Standard Operating Range                                      | -22°F~-75°F (-30°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,60Hz,1Ph                      |
| System MCA                       | 15                                     |
| Connection Wiring                | AWG 14-4                               |
| System MOCP                      | 15                                     |
| Compressor RLA                   | 10.4                                   |
| Outdoor Fan Motor RLA            | 0.6                                    |
| Outdoor Fan Motor W              | 34                                     |
| Indoor Fan Motor RLA             | 1.2                                    |
| Indoor Fan Motor W               | 81                                     |
| System Power Input @ Cooling (W) | 667(145 ~ 1200)                        |
| System Power Input @ Heating (W) | 830(260 ~1450)                         |
| 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                         | 3/8in (9.52mm)    |
| Drain Size                       | 5/8in (15.88mm)   |
| Max. Piping Length               | 82ft (25m)        |
| Max. Height Difference           | 32.8ft (10m)      |
| Max. Pre-charged Length          | 24.6ft (7.5m)     |
| Refrigerant Pre-charged Amount   | 35.27oz (1000g)   |
| Additional Charge of Refrigerant | 0.16oz/ft (15g/m) |
| Connection Method                | Flared            |

## Indoor Unit Dimension

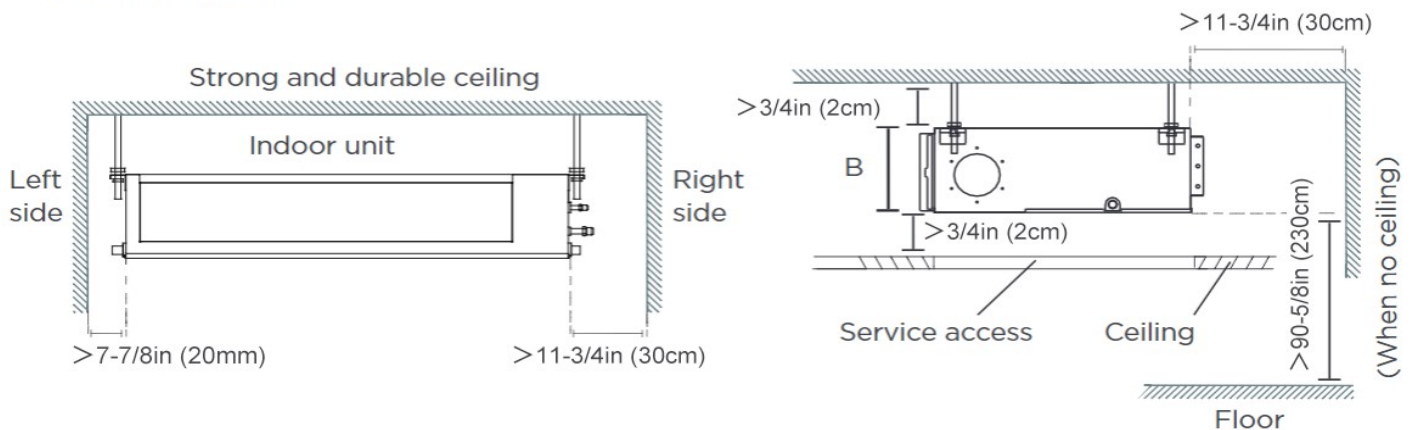


| Model(kBtu/h) | unit  | A      | B     | C      | C1     | D      |
|---------------|-------|--------|-------|--------|--------|--------|
|               | 6 -12 | mm     | 700   | 200    | 470    | 506    |
| in            |       | 27-1/2 | 7-7/8 | 18-1/2 | 20     | 17-3/4 |
| 18            | mm    | 880    | 210   | 634    | 674    | 600    |
|               | in    | 34-5/8 | 8-1/4 | 25     | 26-1/2 | 23-5/8 |

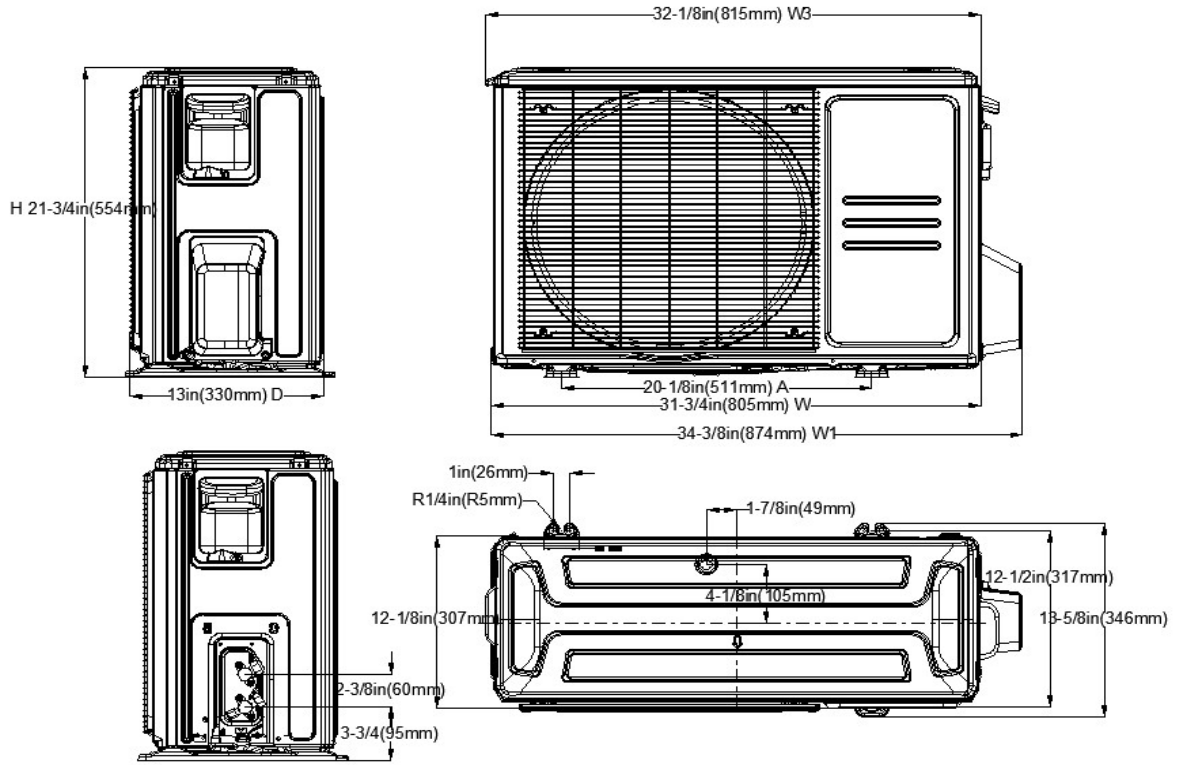
## Installation Instruction

### Installation place

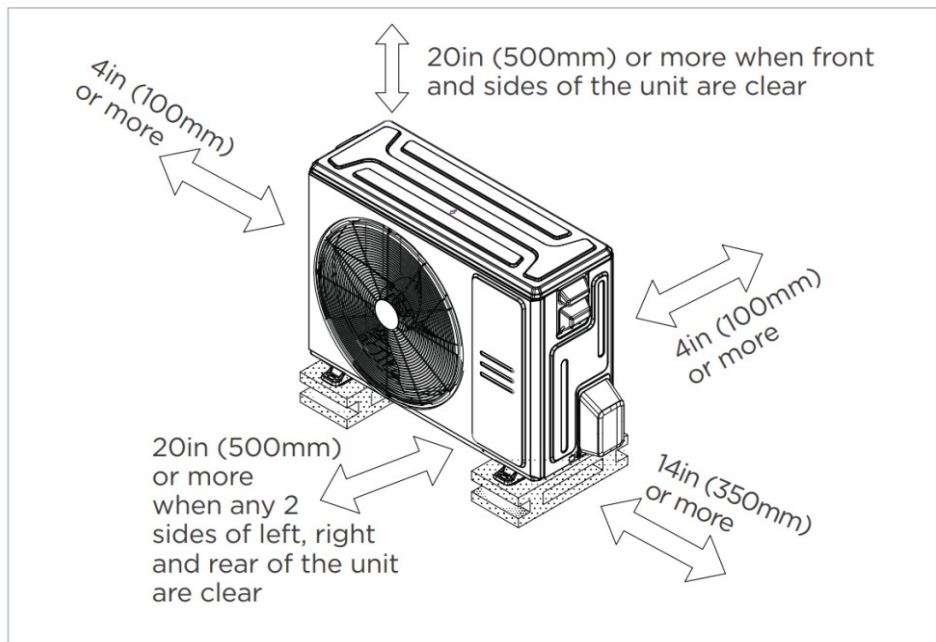
The distance between the mounted indoor unit should meet the specifications illustrated in the following diagram.



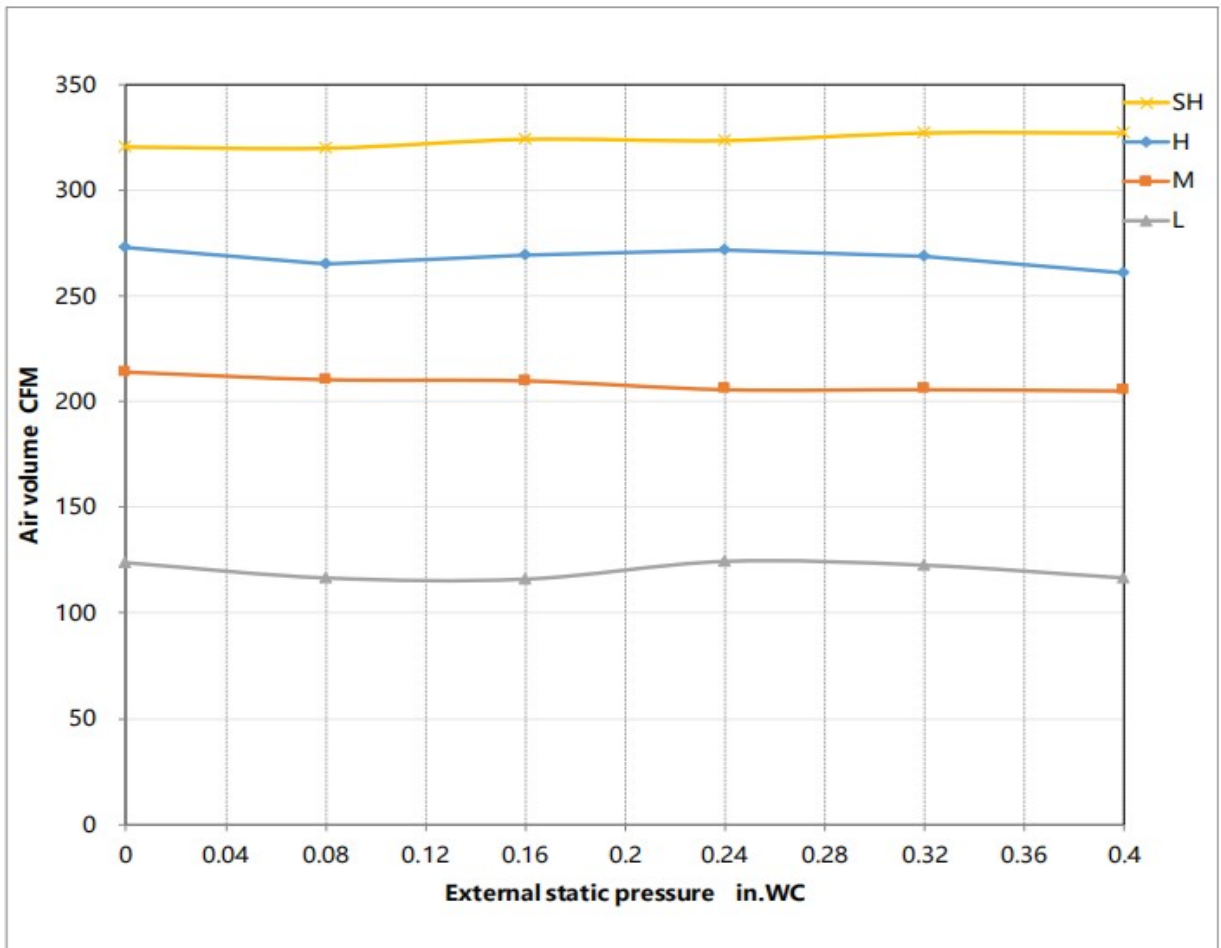
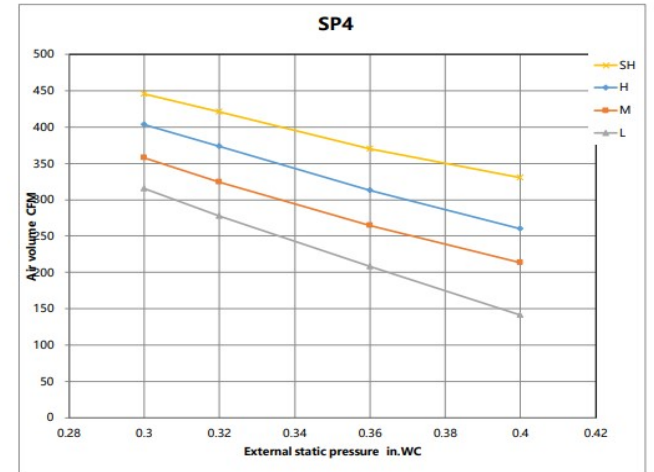
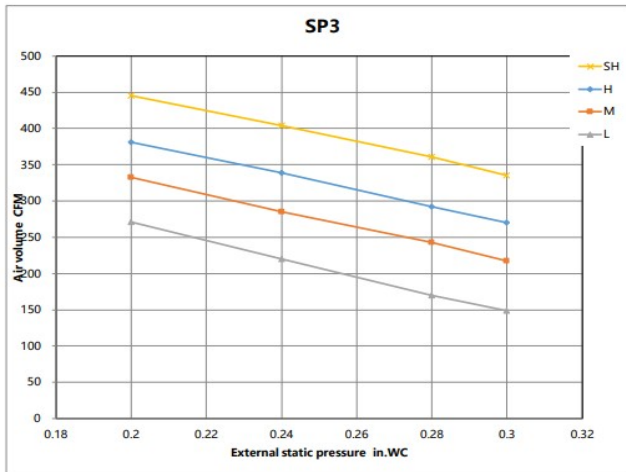
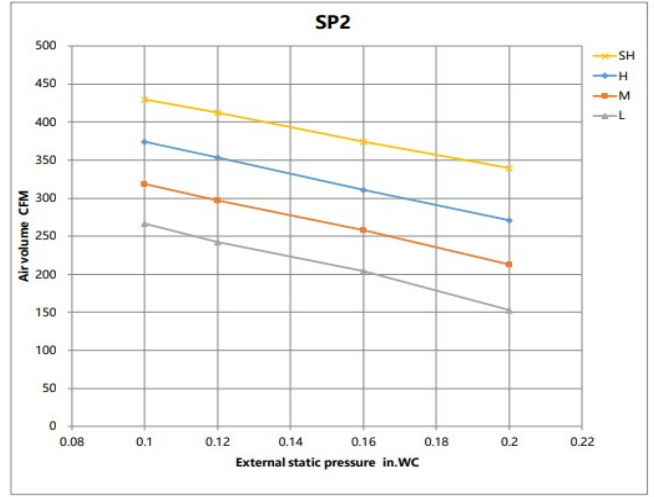
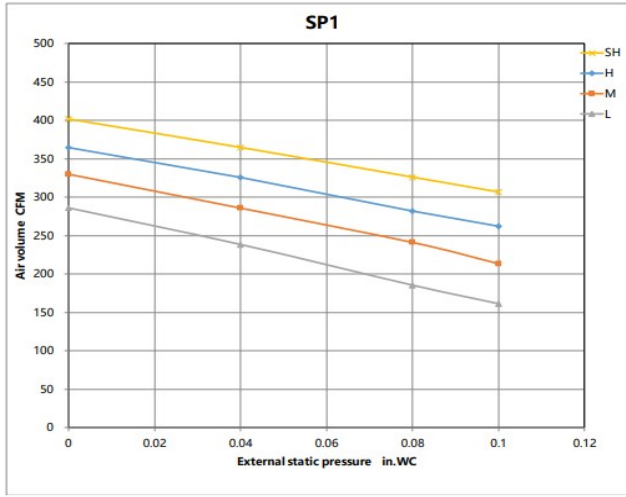
## Outdoor Unit Dimension



## Installation Instruction



- Meets all special requirements shown in Installation Clearance Requirements above.



## Features

- Static pressure with 4 levels to select
- Refrigerant leakage detector
- Constant airflow
- Built-in water pump
- i-clean function (AI self cleaning)
- 1~100% stepless adjustable fan speed setting
- WiFi capability: through WiFi module or wired controller with WiFi function
- OTA function: can upgrade the program version via wired controller 120N(X6W)
- 2-pin connector(HA/HB) for programmable wired controller
- Multiple controller options available:
  - Optional two way communication wired controller, programmable:120N(X6)
  - Optional two way communication wired controller, programmable, with built-in WiFi, :120N(X6W)
  - Optional Infrared wired controller: 120L
  - Optional Wireless remote controller
  - Optional 24V interface kit, can connect with Third-Party 24V Thermostat