

*Make Air Treatment More Healthy And Energy Saving*

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\* Data is subject to changes without notification due to product improvement.

# COMBINED AIR HANDLING UNIT



MAKE AIR TREATMENT MORE HEALTHY AND ENERGY SAVING

Everyone needs to breathe 25,000 times per day, fresh and clean air is essential.

The ultimate pursuit of details, strict requirements for quality.

Pragmatism, Responsibility, Collaboration, Innovation.

Holtop keeps working on providing you with fresh air, clean, intelligent control, comfortable, convenience - integrated clean air solutions. Holtop delivers fresh and clean air, just for you healthy breath!

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ABOUT HOLTOP

2002

Well-known domestic manufacturer of healthy, comfortable and energy-saving air handling unit equipment.

Annual output of 200,000 units of fresh air, air conditioning and environmental protection equipment.

Won the title of “Zhongguancun and National High-tech Enterprises” and “Specialized, Special, New and Small Giant Enterprises” Accredited for participating in the compilation of many national standards, with nearly 100 patent certifications.

Obtained ISO9001, ISO14001, ISO45001 management system certification.

Set up sales and service agencies in major cities across the domestic, and won the five-star service certification.

Products are sold to more than 100 countries and regions, bringing high-quality product experience to hundreds of millions of users.

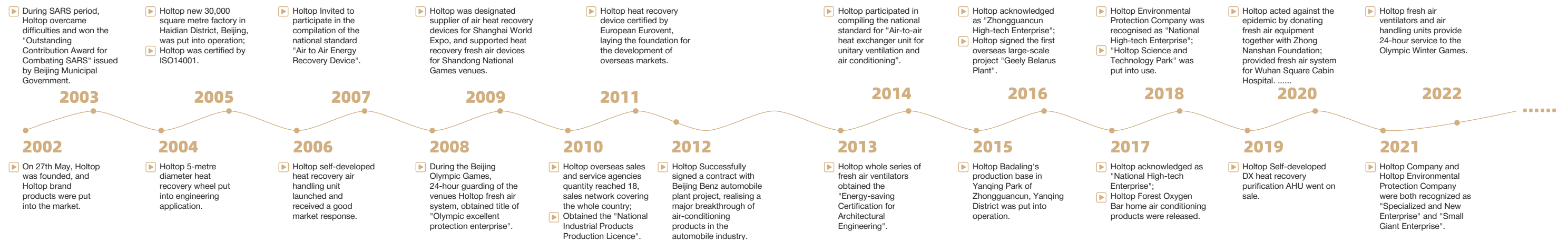


## MAKE AIR TREATMENT MORE HEALTHY AND ENERGY SAVING

To make air fresh and sky blue, to make every breath safer, to make use of energy more sustainable, to make air treatment more healthy and energy-saving, this is the mission we have been dedicated to.



## DEVELOPMENT HISTORY



## CRAFTSMANSHIP

# ANNUAL OUTPUT OF 200,000 SETS OF AIR HANDLING UNIT

Holtop Badaling manufacturing base is located in Yanqing Park, Zhongguancun.

Has international advanced production lines and modern intelligent manufacturing equipment.

Details determine quality, Holtop strive for perfection in every detail, and produce excellent products that meet the quality of Holtop.



Sheet metal workshop



Assembly line for standard ventilation unit



Assembly line of ceiling type air handling unit



Assembly area of combined air handling unit



Air conditioning main machine production line



National certified enthalpy laboratory



Manufacturing base assembly workshop



PRODUCT OVERVIEW

Holtop HJK series Combined Air Handling Unit integrates the heat recovery core technology, and uses advanced technology to create the case structure that fully meets European standard performance. Rich function combination and all-round humanized design bring extraordinary experience to users.



APPLICATION SCENARIOS



| Project/Series              | 25S series                                                              | 25U series                                                                          | 50U series                                                                          |
|-----------------------------|-------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| AHU Structure               | The combination of color steel frame and PVC cold insulation bridge     | The combination of aluminum alloy frame and reinforced nylon cold insulation bridge | The combination of aluminum alloy frame and reinforced nylon cold insulation bridge |
| Connection method           | Embedded structure splicing                                             |                                                                                     |                                                                                     |
| Inner and outer steel plate | Galvanized sheet, stainless steel sheet, color steel sheet are optional |                                                                                     |                                                                                     |
| Panel insulation material   | Polyurethane                                                            | Polyurethane                                                                        | Polyurethane                                                                        |
| Panel thickness(mm)         | 23                                                                      | 25                                                                                  | 50                                                                                  |
| Air volume range (m³/h)     | ≤40000                                                                  | ≤40000                                                                              | ≤100000                                                                             |
| Total static pressure       | ≤1500                                                                   | ≤1500                                                                               | ≤2500                                                                               |

HOLTOP recommends the right panel for client:

- 25S is an economical type and can meet the needs of most projects;
- 25U is with better performance than 25S, with higher casing strength and tightness.
- 50U is a high-end version of 25U, it is suitable for areas with large temperature difference in winter and summer and various harsh environments, and has better thermal insulation performance.



#### VARIOUS HEAT RECOVERY METHOD

- Rotary heat recovery
- Plate heat recovery
- Plate fin heat Recovery
- Heat pipe heat recovery
- liquid cycle heat recovery

#### CASING STRUCTURE

- Mechanical strength is D1 grade of European standard EN1886
- Thermal transmittance up to T2 grade of European standard EN1886
- Cold bridge factor up to TB2 grade of European standard EN1886
- Air leakage achieves purification air conditioning standards

#### BOTTOM FRAME

- More powerful compression performance
- Can meet the needs of section transportation

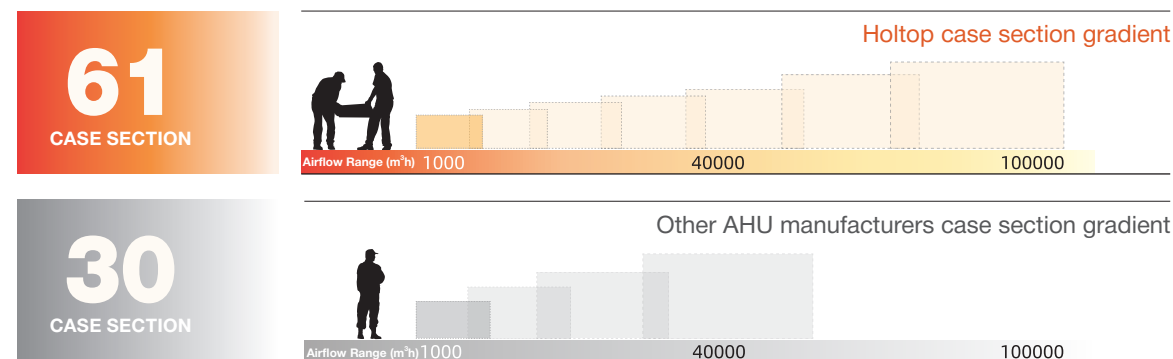
#### INTERNAL PARTS

- Rich function section configuration
- High performance heat exchange coil
- Aluminum alloy filter frame
- Fan shock absorbing structure

## HUMANIZED DESIGN

### ► Delicate Section Design of AHU Case

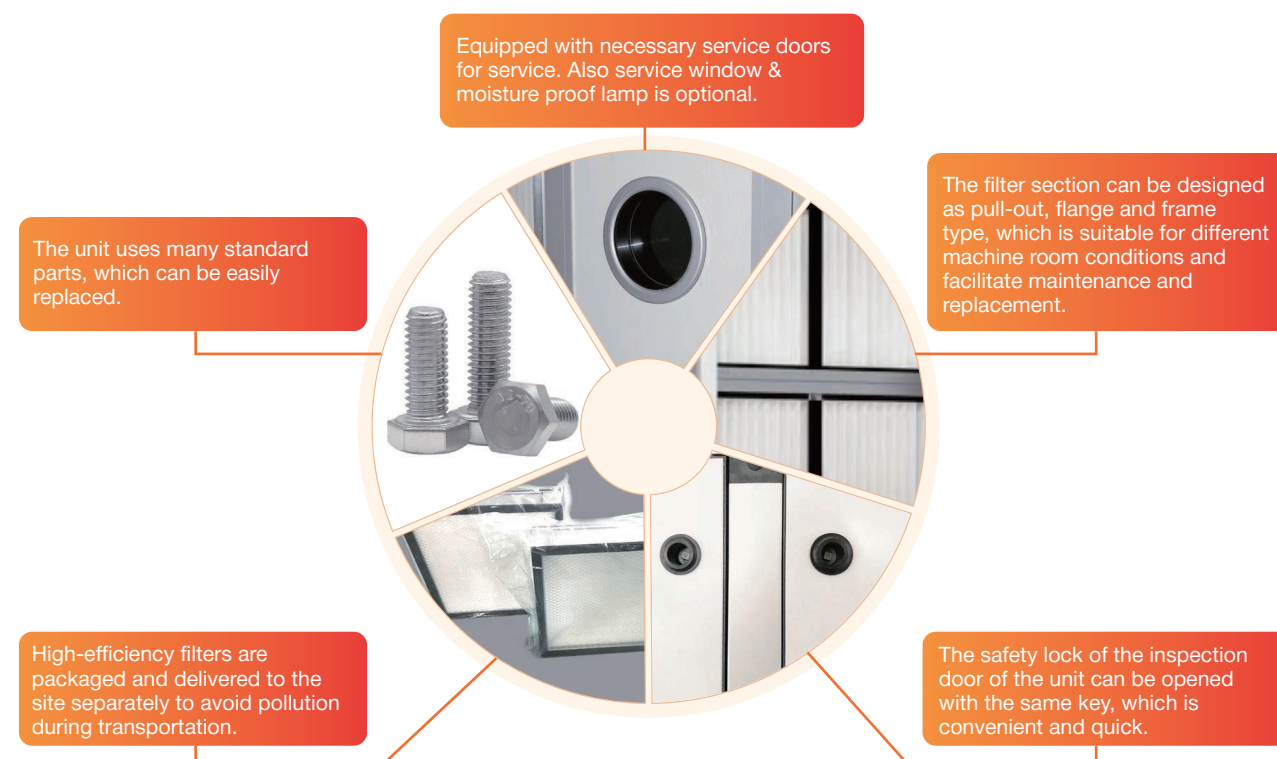
Totally 61 types of standard section design of AHU Case, match to more specified air volume demand. Holtop makes additional deformation section design accordingly, to guarantee the AHU's performance, and makes compact AHU size at the same time, to save the cost & machine room space. Meanwhile, in order to adapt different air volume ratio between supply air & exhaust air for different application demands.



### ► Standard Module Design

Adopt standard Module design, 1M=100mm, which corresponds to the standard filter dimension. Module design makes AHU as compact as possible, meanwhile it makes design and manufacturing convenient & standardized.

### ► Other humanized design



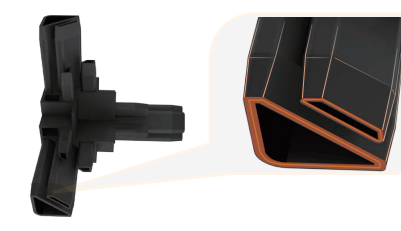
## CASING PERFORMANCE

### ► Superior Mechanical Strength

The 1.5mm thickness T6 aluminum alloy profile frame connects with high-strength nylon triangular connectors, to ensure sufficient structural strength even for the largest unit case. Tested by National Recognized Laboratory, the mechanical strength of the HJK series units up to the highest D1 grade specified in the European standard EN1886 (maximum relative offset <4mm/m).



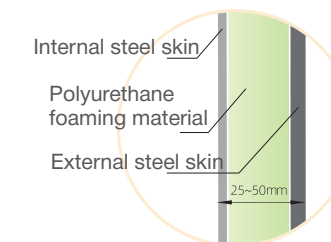
Aluminum Alloy & Nylon Cold Bridge Framework (applicable to 25U/50U series AHU)



High Strength Nylon Triangle Connector

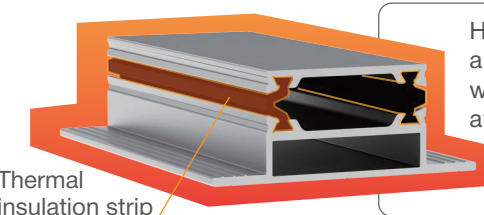
### ► Excellent Thermal Insulation Performance

Standard "Sandwich" panel structure, with 25mm & 50mm two specifications. Outer skin is color steel sheet, Inner skin is galvanized steel sheet, and stainless steel sheet is optional to satisfy special application demand. PU foaming insulation materials provide the best thermal insulation property. Tested by National Recognized Laboratory, thermal insulation performance of the HJK series units has reached the T2 grade of European standard EN1886.



Panel foaming details

### ► Excellent Anti-cold Bridge Ability

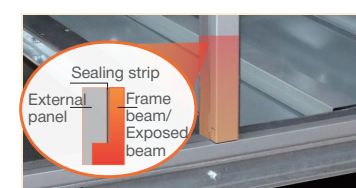


\*Applicable to 25U/50U series

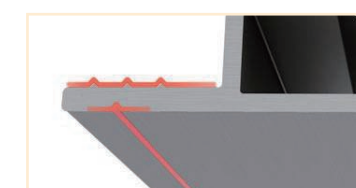
Holtop HJK series case's aluminum alloy framework adopts PU foaming insulation cold bridge cut off design with enhanced PA66GF insulation strip, which completely avoids the occurrence of cold bridges. Tested by National Recognized Laboratory, the cold bridge factor up to TB2 grade of European standard.

### ► Excellent Sealing

The panel and frame of the unit adopt an embedded assembly structure, which is not only convenient for disassembly and maintenance, but also ensures a very low air leakage rate. A new type of polymer sealing material is used for sealing between the panel and the frame, and the inspection doors and the passages of each pipeline of the unit are also carefully sealed to ensure the good air tightness of the unit. The overall AHU air leakage ratio meets the national standard air conditioning purification requirements.



Embedded panel assembly and sealing



Frame beam sealing line



Flexible sealing structure

FILTER SECTION

Primary Filter



**Filtration Class:** Class: G2-G4

**Application:** Applied in general requirement of primary air filtration or as prefilter for higher filtration requirement, primary filter can not only meet indoor cleanliness requirement but also keep the high efficiency of heat recovery section and cooling/heating coils section.

**Materials:** Washable “W” layout non-woven fabrics in PVC or aluminum frame.

Medium Filter



**Filtration Class:** F5-F9

**Application:** Applied in general requirement of final air filtration as coarse filter or as the prefilter to protect HEPA filter, medium filter has a higher filtration level it meet a higher indoor cleanliness requirement and ensure the higher efficiency of heat recovery section and cooling/heating coils section.

**Materials:** Not washable chemical fiber or glass fiber bag filter, aluminum frame.

|                          |       |       |       |          |          |
|--------------------------|-------|-------|-------|----------|----------|
| Maximum Filtration Level | F5    | F6    | F7    | F8       | F9       |
| Combination              | G3+F5 | G3+F6 | G4+F7 | G3+F5+F8 | G4+F7+F9 |

HEPA Filter



**Filtration Class:** Class: H13-H14

**Application:** Mainly used to capture particle dust above 0.5 microns and various suspended solids, as the end filter of various filtration systems.

**Materials:** The ultra-fine chemical fiber filter paper is used as the filter material, and the frame is made of ABS material.

Electrostatic Filter



**Dust Filter:** Under the action of circulating ions between the main plate and the ground electrode, the suspended particles in the air (minimum to 0.01 micron) are positively charged, and then quickly adsorbed by the dust collecting plate. The one-time dust removal efficiency is greater than 98.9%.

**Sterilization and Purification:** The main plate of the filter generates plasma under high pressure. Plasma will quickly destroy and kill the nuclei of microorganisms such as bacteria, viruses and dust mites in the air. Residual substances are sintered and absorbed by the dust collector plate. The sterilization rate is as high as 99% or more.

Activated Carbon Filter



Activated carbon is a very small carbon particles, has a large specific surface area, and carbon particles have even smaller pores - capillary.

This kind of capillary has a strong adsorption capacity. Due to the large surface area of carbon particles, it can fully contact with gas (impurity), and gas (impurity) will be adsorbed when it hits the capillary, thereby purifying.

**Absorb formaldehyde, benzene, TVOC organic harmful gases**

|                        |             |        |          |              |               |
|------------------------|-------------|--------|----------|--------------|---------------|
| Activated carbon types | N4G1        | N4S1   | N4A1     | N4F1         | N4M1          |
| Usage                  | General gas | Stench | Acid gas | Formaldehyde | Mercury vapor |

COOLING & HEATING COIL + HUMIDIFIER SECTION

Cooling Coil and Heating Coil Section

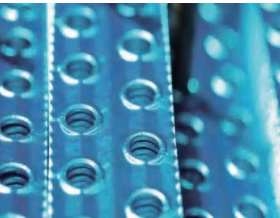


The cooling coil and heating coils of HJK series units adopt the structure of copper pipes and aluminum fins, through a special expanding technology for complete jointing, which greatly improves the heat exchange efficiency of the coils.

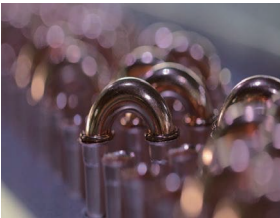
The surface of the aluminum fins is treated with acrylic resin, which has good hydrophilicity. Under wet conditions, the condensed water on the surface of the coil quickly forms a uniform water membrane, which ensures the comprehensive heat exchange efficiency of the coil.

The coil can be equipped with PVC or aluminum alloy water eliminators, which can effectively prevent the condensed water from floating into the supply air system with the air.

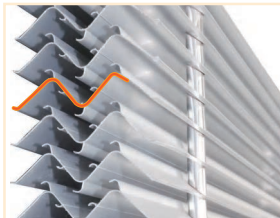
The self-designed condensed water tray of the coil section ensures that the condensed water can be timely discharged. In special conditions, a stainless steel water pan can also be used.



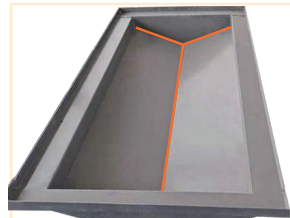
Hydrophilic membrane aluminum foil fins



U-shaped copper pipe

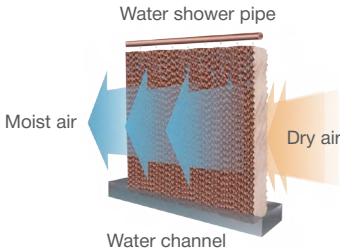


PVC/aluminum alloy water eliminator



V-shaped drain tray

Humidifier Section



**Wet membrane humidifier**

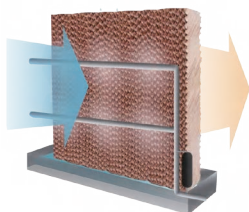
The filtered water is piped to the humidifier top shower, and the water flows down the wet membrane material. At the same time, it is absorbed by the wet membrane material to form a uniform water membrane. When the dry air passes through the wet membrane material, the water molecules fully absorb the heat in the air and vaporize and evaporate, increasing the humidity of the air and forming moist air.

Wet membrane humidifier can realize self-adjustment of humidifier capacity, without supersaturation or condensation phenomenon, saving the volume of AHUs, low operating costs and long service life.



**High Pressure Spray Humidifier**

The spray system of the high-pressure spray humidifier is installed inside the humidifier section of the AHU. After the tap water is pressurized by the main unit of the humidifier, it is sprayed at a high speed through a special spray nozzle to form fine water mist particles, which exchange heat and moisture with the flowing air. Absorb the heat in the air, through vaporization and evaporation, the humidity of the air is increased. The humidifier adopts a high-efficiency booster pump, which is stable in operation, low noise, long life span, safe and reliable; the special ceramic nozzle ensures that the diameter of the water mist particles is as small as possible, which improves the humidifier efficiency, and the ceramic nozzle is resistant to corrosion, wear and long service life; the automatic control system can realize the automatic adjustment and control of humidity.



**Double Vapor Humidifier**

The double vaporization humidifier effectively combines the pressure spray humidifier technology with the wet membrane vaporization humidifier, which greatly improves the utilization rate of water. The air is washed first and then humidified, and the air is cleaner after humidifier.

## FAN SECTION

According to the requirements of air volume and static pressure value, one or more fans can be selected. The optional fans include direct-driven centrifugal fans, forward/backward centrifugal fans, plug fans, EC fans, etc. The fan impeller and belt pulley are corrected by static and dynamic balance, and the whole fan is corrected by running vibration, so that the operation is stable and reliable. The base of the fan and the motor is equipped with shock absorbers, the air outlet is designed according to the aerodynamic performance and has a soft connection with the case to effectively reduce the transmission of vibration.

### Direct-driven centrifugal fan



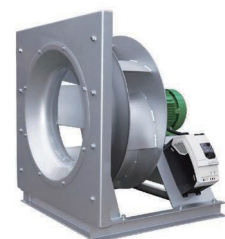
1. Integration of fan and motor.
2. Direct driven.
3. Small air volume, moderate total pressure, high direct driven efficiency, small fan size and less space occupation.

### Belt driven DIDW forward / backward centrifugal



1. Fan and motor share the same framework, good quality steel plate shell and bearing.
2. Belt driven.
3. Very wide range of air volume and air pressure.

### Plug fan



1. Without spiral casing, fan and motor share the same framework.
2. Direct driven/belt driven.
3. Relative wide range of air volume and air pressure. Air from all directions distributes evenly and air outlet direction is not limited.

### EC fan



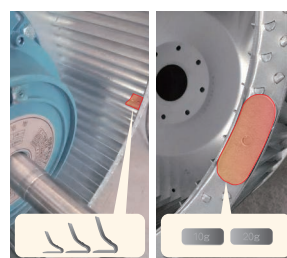
1. DC brushless motor.
2. Direct driven.
3. High efficiency, variable speed driven, small vibration and long service life.

Note: According to the user needs

- 1 Fans can be equipped with direct-driven centrifugal fans, forward / backward centrifugal fans, plug fans, EC fans, etc.
- 2 Motors can be equipped with single-speed 2/4/6-pole, two-speed, three-speed and variable-frequency motors.



Spring/rubber shock absorber



The fan impeller and belt pulley dynamic balance correction



Flexible connection of fan outlet

## ROTARY HEAT RECOVERY SECTION

### Rotary Heat Recovery Section

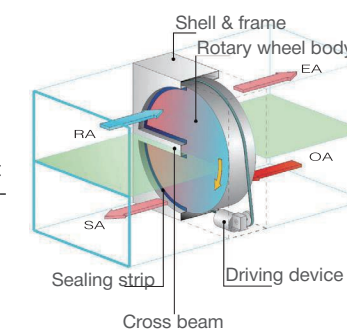


#### Working principle

Rotary heat exchanger is constructed by alveolate heat wheel, casing, driving system and sealing parts. The cold exhaust air in summer (hot exhaust air in winter) and summer hot fresh air (winter cold fresh air) pass through half of the wheel, and the wheel rotates constantly at the same time to transfer the heat and moisture in the exhaust air to the fresh air. Energy recovery can be as high as 70%-90%.

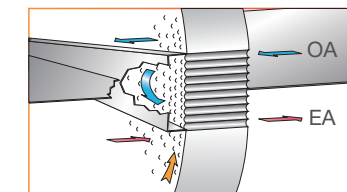
#### Application range

Rotary heat exchanger is suitable for high heat recovery efficiency, low air dust content, non-corrosive and allow a small amount of fresh air and exhaust air cross leakage in the large air volume system.



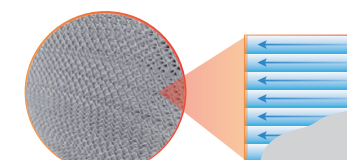
#### Clean sector

Due to the structure of the rotary wheel, fresh air and dirty air will be mixed. In order to avoid the dirty air being brought into the fresh air when rotating, designed clean sector. When the clean sector is installed, part of the fresh air will blow the dirty air that comes from the wheel back to the exhaust side. When there is a pressure difference of at least 200Pa between the fresh air side and the exhaust air side, clean sector ensures that the leakage efficiency from dirty air to fresh air is less than 0.3%.



#### Dynamic channel

The wave type structure of the wheel forms narrow channels in the direction of air flow. The air flow forms a laminar flow inside the wheel when passing through it. When rotating, the channel will be swept alternately by the fresh air side and the exhaust air side in different directions, so there will be no dust gathering on the channel wall, which is usually called "self-cleaning".



#### Core material

- The sensible heat exchanger wheel is made of 0.05mm aluminum foil.
- Enthalpy heat exchanger wheel is coated with 3A molecular sieve which can absorb the moisture, coating thickness of 0.04mm.

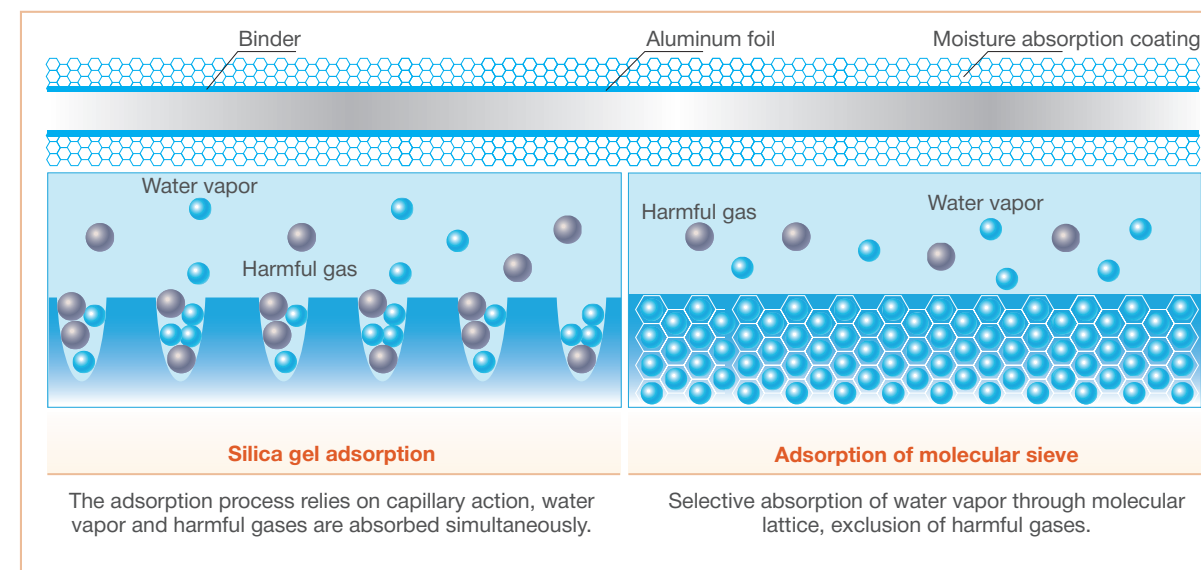


PLATE HEAT RECOVERY

► Plate heat recovery

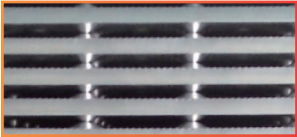
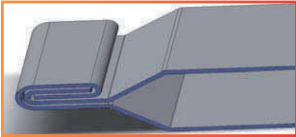


**Working principle**  
Separated by metal plates and sealed, two independent air channels are formed. When there is a temperature difference between the air (fresh air and exhaust air) flowing through two adjacent independent airflow channels, energy will be exchanged.

**Application**  
Plate heat exchanger is suitable for sensible heat recovery, low dust content, non-corrosive comfort or industry air conditioning ventilation system.

**Material type**  
Series B (standard) : The heat exchanger plate is made of aluminum foil, the end cover is high quality galvanized steel, and the wrapping angle is aluminum alloy profile. The maximum temperature does not exceed 100° C, suitable for much occasions.  
Series G (high temperature type) : The heat exchanger plate is made of pure aluminum foil, the end cover is high quality galvanized steel, sealed by special sealing material, and the wrapping angle is aluminum alloy profile. The maximum temperature can reach 200° C, suitable for special high temperature gas places.

Structural features



Double side stamping molding      High sealing edge      Uniform plate spacing      Sealant seal

► Plate-fin heat recovery

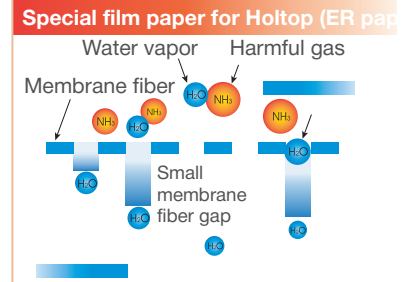


**Working principle**  
The porous fiber plates are separated and sealed to form two independent air channels. When the air flowing through the two adjacent independent air channels (fresh air and exhaust air) has temperature and vapor partial pressure difference, the air on both sides will carry out energy exchange of mass transfer and heat transfer.

**Application**  
Plate-fin heat exchanger is suitable for comfort air conditioning and ventilation systems that require total heat recovery, clean air and non-corrosive.

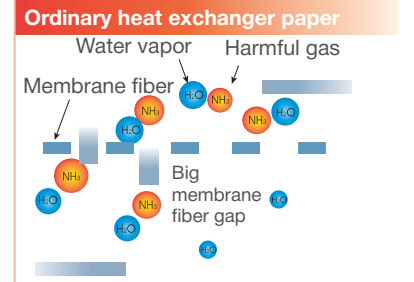
Structural features:

**Special film paper for Holtop (ER paper)**

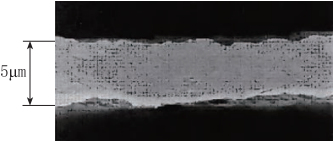
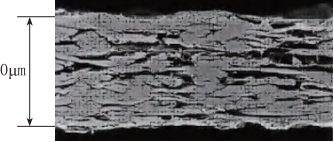


Harmful gas molecules diameter larger than the membrane fiber gap cannot pass through.

**Ordinary heat exchanger paper**



Harmful gas molecules diameter larger than the membrane fiber gap can pass through.

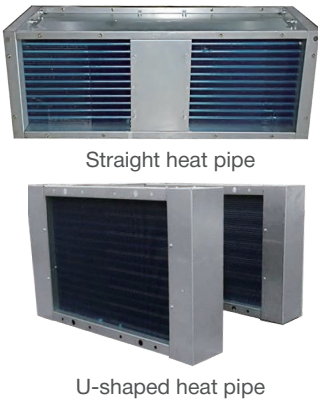


Ordinary heat exchanger paper

Special film paper for Holtop (ER paper)

HEAT PIPE HEAT RECOVERY

► Heat pipe heat recovery

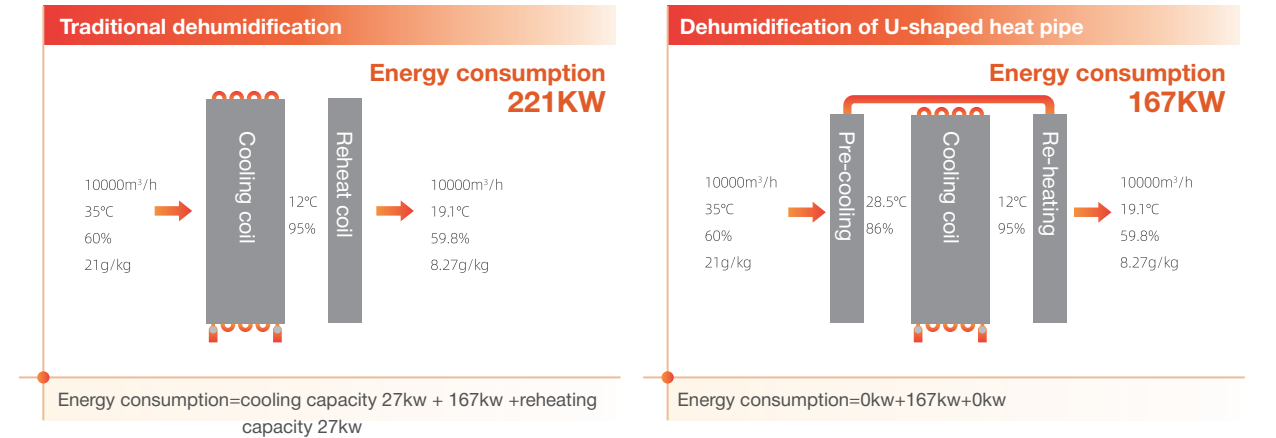


**Working principle**  
When heating one end of the heat pipe, liquid heated evaporation (evaporation section), the steam flows to the other end under pressure difference (condenser section). Steam will condense and release heat in the condensing end. Heat transfers from high temperature to low temperature finished, condensate flows back to the evaporating end under the gravity. In the same way, liquid inside the heat pipe evaporates and condenses circularly, so, heat is transferred from high temperature to low temperature constantly.

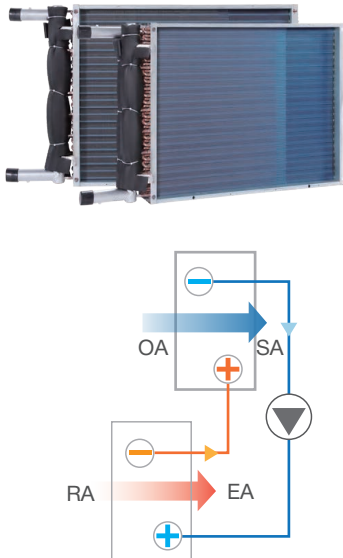
**Application**  
Heat pipe heat exchangers are suitable for air conditioning systems with slight dust content and high temperature.

**Principle of dehumidification of U-shaped heat pipe**  
The hot air first passes through the U-shaped heat pipe precooling section in front of the cooling coils for precooling, then passes through the cooling coils for secondary dehumidification, finally passes through the heat pipe reheating section behind the cooling coil for reheating to complete the entire air treatment process.

Comparison of traditional dehumidification and U-shaped heat pipe dehumidification.



► Liquid circulation heat exchange



**Working principle**  
Liquid circulation heat exchanger is liquid to air heat exchanger, heat exchangers installed in both fresh air side and exhaust air side, and the heat is transferred to the fresh air or exhaust air through liquid circulation, so as to preheat or pre-cool the fresh air. This sensible heat recovery is called liquid circulation heat recovery.

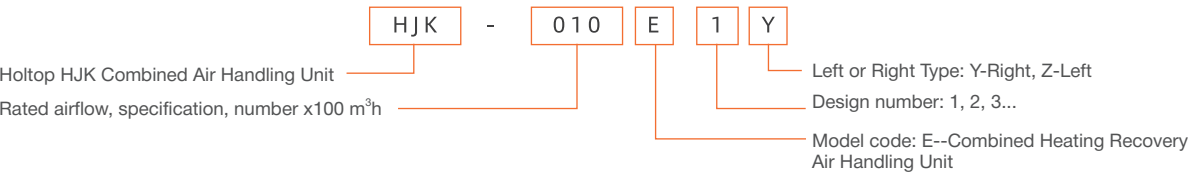
Normally the liquid is water but in order to decrease the freezing point, moderate ethylene glycol will be added into the water according to reasonable percentage. It is also known as ethylene glycol heat recovery.

**Application**  
The liquid circulation heat exchanger is mainly used in the air conditioning system where the fresh air and exhaust air system are dispersed or the fresh air and exhaust air are not allowed to contact directly.

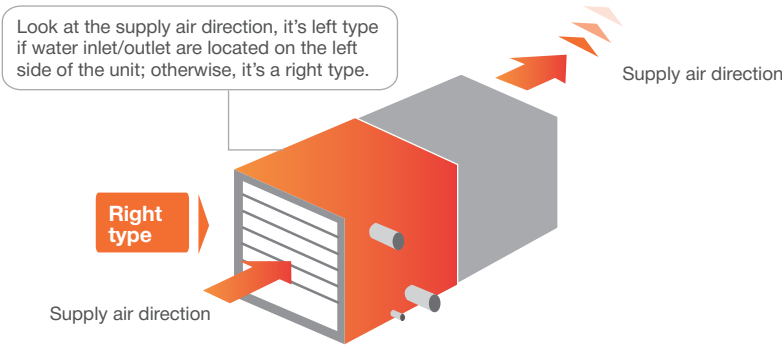
**Freezing point of glycol solution**

|                       |      |      |      |      |       |       |       |       |
|-----------------------|------|------|------|------|-------|-------|-------|-------|
| Freezing point (°C)   | -1.4 | -3.2 | -5.4 | -7.8 | -10.7 | -14.1 | -17.9 | -22.3 |
| Mass percentage (%)   | 5.0  | 10.0 | 15.0 | 20.0 | 25.0  | 30.0  | 35.0  | 40.0  |
| Volume percentage (%) | 4.4  | 13.6 | 13.6 | 18.1 | 22.9  | 27.7  | 32.6  | 37.5  |

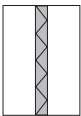
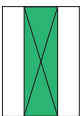
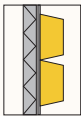
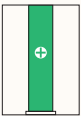
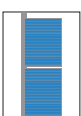
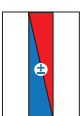
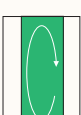
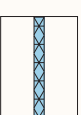
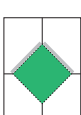
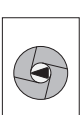
AHU MODEL NAMING METHOD



Example: A 20000m³/h airflow combined heat recovery air handling unit, right type. Model name is HJK-200E1Y.



AHU FUNCTIONAL SECTION LEGEND

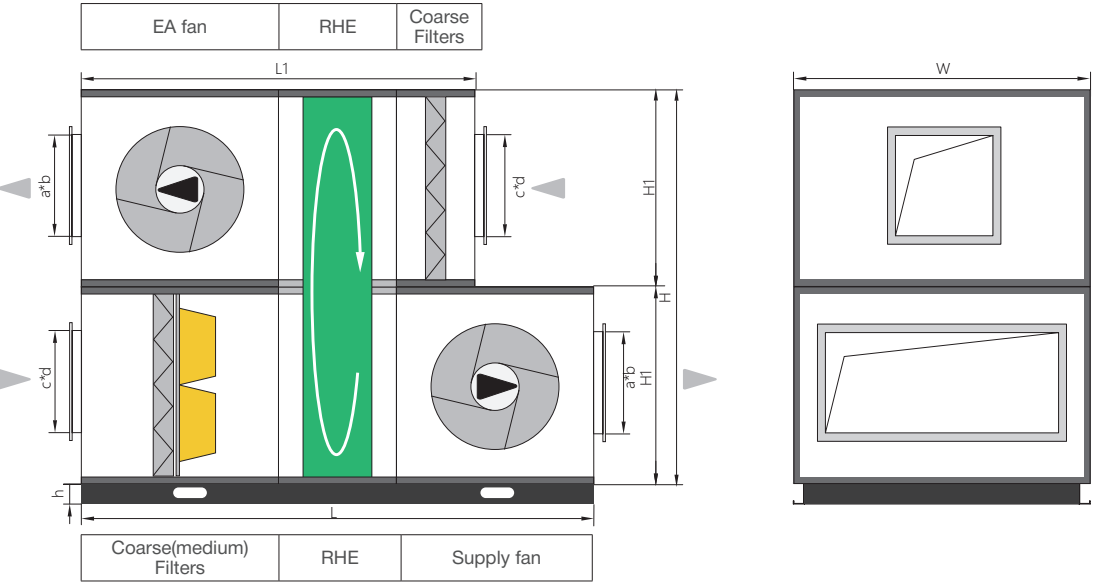
| Legend                                                                              | Functional section                       | Legend                                                                              | Functional section                        |
|-------------------------------------------------------------------------------------|------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------|
|  | Primary filter section                   |  | Heat pipe heat exchanger section          |
|  | Medium filter section                    |  | Liquid circulation heat exchanger section |
|  | HEPA filter section                      |  | Heating / Cooling coil section            |
|  | Rotary wheel heat exchanger section      |  | Wet film humidification section           |
|  | Plate-fin / Plate heat exchanger section |  | Fan section                               |
|  | Plate-fin / Plate heat exchanger section |  | Air diffuser section                      |

QUICK SELECTION TABLE

| Casing specification | Rated airflow m³/h | Energy recovery components            |                                    |                      |                          | Fan performance         |                |
|----------------------|--------------------|---------------------------------------|------------------------------------|----------------------|--------------------------|-------------------------|----------------|
|                      |                    | Left and Right rotary wheel exchanger | Up and Down rotary wheel exchanger | Plate heat exchanger | Heat pipe heat exchanger | Max. total fan pressure | Max. fan power |
| 0507                 | 1890               |                                       | ▲                                  | ▲                    |                          | 1000                    | 1.5            |
| 0508                 | 2250               |                                       | ▲                                  | ▲                    |                          | 1000                    | 1.5            |
| 0609                 | 3263               |                                       | ▲                                  | ▲                    |                          | 1000                    | 2.2            |
| 0610                 | 3713               |                                       | ▲                                  | ▲                    |                          | 1200                    | 3              |
| 0710                 | 4455               |                                       | ▲                                  | ▲                    |                          | 1500                    | 5.5            |
| 0811                 | 5115               |                                       | ▲                                  | ▲                    |                          | 1500                    | 5.5            |
| 0812                 | 5687               |                                       | ▲                                  | ▲                    |                          | 1500                    | 5.5            |
| 0912                 | 6824               |                                       | ▲                                  | ▲                    |                          | 1500                    | 5.5            |
| 0913                 | 7510               |                                       | ▲                                  | ▲                    |                          | 1600                    | 7.5            |
| 1013                 | 8024               |                                       | ▲                                  | ▲                    |                          | 1600                    | 7.5            |
| 1014                 | 8767               |                                       | ▲                                  | ▲                    |                          | 1600                    | 11             |
| 1115                 | 10973              |                                       | ▲                                  | ▲                    |                          | 1800                    | 11             |
| 1116                 | 11831              |                                       | ▲                                  | ▲                    |                          | 2000                    | 15             |
| 1117                 | 12688              |                                       | ▲                                  | ▲                    |                          | 2000                    | 15             |
| 1119                 | 14402              |                                       | ▲                                  | ▲                    |                          | 2000                    | 15             |
| 1219                 | 16323              |                                       | ▲                                  | ▲                    |                          | 2000                    | 18.5           |
| 1419                 | 18080              |                                       | ▲                                  | ▲                    |                          | 2000                    | 18.5           |
| 1421                 | 20252              |                                       | ▲                                  | ▲                    |                          | 2000                    | 22             |
| 1521                 | 22383              |                                       | ▲                                  | ▲                    |                          | 2000                    | 22             |
| 1622                 | 24706              |                                       | ▲                                  | ▲                    |                          | 2000                    | 30             |
| 1625                 | 28478              |                                       | ▲                                  | ▲                    |                          | 2000                    | 30             |
| 1725                 | 31067              |                                       | ▲                                  | ▲                    |                          | 2000                    | 30             |
| 1727                 | 33810              |                                       | ▲                                  | ▲                    |                          | 2000                    | 30             |
| 1927                 | 38037              |                                       | ▲                                  | ▲                    |                          | 2000                    | 37             |
| 1929                 | 41123              |                                       | ▲                                  | ▲                    |                          | 2000                    | 45             |
| 2129                 | 45692              |                                       | ▲                                  | ▲                    |                          | 2000                    | 45             |
| 2131                 | 49121              |                                       | ▲                                  | ▲                    |                          | 2000                    | 45             |
| 2331                 | 54033              |                                       | ▲                                  | ▲                    |                          | 2000                    | 55             |
| 2333                 | 57805              |                                       | ▲                                  | ▲                    |                          | 2000                    | 55             |
| 2535                 | 67175              |                                       | ▲                                  | ▲                    |                          | 2000                    | 75             |
| 2637                 | 75250              |                                       | ▲                                  | ▲                    |                          | 2000                    | 75             |
| 2839                 | 85877              |                                       | ▲                                  | ▲                    |                          | 2000                    | 90             |
| 1108                 | 5187               | ▲                                     |                                    |                      | ▲                        | 1500                    | 5.5            |
| 1208                 | 5878               | ▲                                     |                                    |                      | ▲                        | 1500                    | 5.5            |
| 1209                 | 6850               | ▲                                     |                                    |                      | ▲                        | 1500                    | 5.5            |
| 1309                 | 7253               | ▲                                     |                                    |                      | ▲                        | 1600                    | 7.5            |
| 1310                 | 8127               | ▲                                     |                                    |                      | ▲                        | 1600                    | 7.5            |
| 1410                 | 9030               | ▲                                     |                                    |                      | ▲                        | 1600                    | 11             |
| 1411                 | 10173              | ▲                                     |                                    |                      | ▲                        | 1800                    | 11             |
| 1511                 | 10682              | ▲                                     |                                    |                      | ▲                        | 1800                    | 11             |
| 1512                 | 11882              | ▲                                     |                                    |                      | ▲                        | 2000                    | 15             |
| 1613                 | 13705              | ▲                                     |                                    |                      | ▲                        | 2000                    | 15             |
| 1713                 | 14951              | ▲                                     |                                    |                      | ▲                        | 2000                    | 15             |
| 1814                 | 17003              | ▲                                     |                                    |                      | ▲                        | 2000                    | 18.5           |
| 1914                 | 18131              | ▲                                     |                                    |                      | ▲                        | 2000                    | 18.5           |
| 1915                 | 19674              | ▲                                     |                                    |                      | ▲                        | 2000                    | 22             |
| 2016                 | 22003              | ▲                                     |                                    |                      | ▲                        | 2000                    | 22             |
| 2116                 | 23575              | ▲                                     |                                    |                      | ▲                        | 2000                    | 22             |
| 2117                 | 25289              | ▲                                     |                                    |                      | ▲                        | 2000                    | 30             |
| 2217                 | 26975              | ▲                                     |                                    |                      | ▲                        | 2000                    | 30             |
| 2517                 | 30347              | ▲                                     |                                    |                      | ▲                        | 2000                    | 30             |
| 2717                 | 32876              | ▲                                     |                                    |                      | ▲                        | 2000                    | 30             |
| 2719                 | 37334              | ▲                                     |                                    |                      | ▲                        | 2000                    | 37             |
| 2919                 | 40206              | ▲                                     |                                    |                      | ▲                        | 2000                    | 45             |
| 2921                 | 45006              | ▲                                     |                                    |                      | ▲                        | 2000                    | 45             |
| 3122                 | 50793              | ▲                                     |                                    |                      | ▲                        | 2000                    | 45             |
| 3123                 | 53364              | ▲                                     |                                    |                      | ▲                        | 2000                    | 55             |
| 3324                 | 59665              | ▲                                     |                                    |                      | ▲                        | 2000                    | 55             |
| 3525                 | 66309              | ▲                                     |                                    |                      | ▲                        | 2000                    | 75             |
| 3727                 | 76381              | ▲                                     |                                    |                      | ▲                        | 2000                    | 75             |
| 3928                 | 85354              | ▲                                     |                                    |                      | ▲                        | 2000                    | 90             |

Note: ▲ Indicates the selected heat recovery mode.

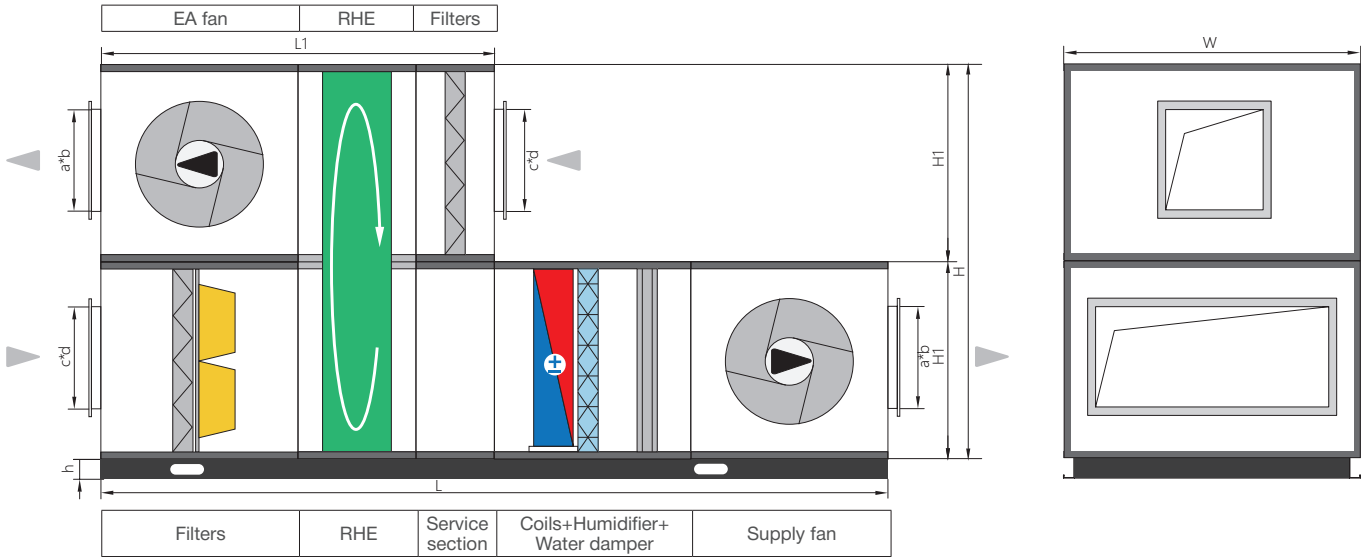
► Rotary Heat Exchanger + Coarse (Medium) Filters+Supply Fan



| Casing specifications |      | Dimensions of AHU (mm) |      |      |      |      | Dimensions of flanges (mm) |           | Weight (kg) |
|-----------------------|------|------------------------|------|------|------|------|----------------------------|-----------|-------------|
|                       |      | L                      | L1   | W    | H    | H1   | a*b                        | c*d       |             |
| 25mm series           | 0507 | 1740                   | 1540 | 740  | 1180 | 540  | 375*375                    | 575*175   | 273         |
|                       | 0508 | 1740                   | 1540 | 840  | 1180 | 540  | 375*375                    | 675*175   | 312         |
|                       | 0609 | 1740                   | 1540 | 940  | 1380 | 640  | 475*475                    | 775*175   | 421         |
|                       | 0610 | 1940                   | 1640 | 1040 | 1380 | 640  | 475*475                    | 875*175   | 494         |
|                       | 0710 | 1940                   | 1640 | 1040 | 1580 | 740  | 475*475                    | 875*275   | 568         |
|                       | 0811 | 2040                   | 1740 | 1140 | 1780 | 840  | 475*475                    | 975*275   | 714         |
|                       | 0812 | 2140                   | 1740 | 1240 | 1780 | 840  | 475*475                    | 1075*275  | 790         |
|                       | 0912 | 2140                   | 1740 | 1240 | 1980 | 940  | 475*475                    | 1075*375  | 889         |
|                       | 0913 | 2340                   | 1840 | 1340 | 1980 | 940  | 575*575                    | 1175*375  | 991         |
|                       | 1013 | 2340                   | 1840 | 1340 | 2180 | 1040 | 575*575                    | 1175*375  | 1106        |
|                       | 1014 | 2340                   | 1840 | 1440 | 2180 | 1040 | 575*575                    | 1275*375  | 1191        |
|                       | 1115 | 2540                   | 1940 | 1540 | 2380 | 1140 | 575*575                    | 1375*475  | 1282        |
|                       | 1116 | 2540                   | 1940 | 1640 | 2380 | 1140 | 675*675                    | 1475*475  | 1367        |
|                       | 1117 | 2540                   | 1940 | 1740 | 2380 | 1140 | 675*675                    | 1575*475  | 1452        |
|                       | 1119 | 2740                   | 2040 | 1940 | 2380 | 1140 | 775*775                    | 1775*475  | 1536        |
|                       | 1219 | 2740                   | 2040 | 1940 | 2580 | 1240 | 775*775                    | 1775*475  | 1676        |
|                       | 1419 | 2740                   | 2040 | 1940 | 2980 | 1440 | 775*775                    | 1775*575  | 1955        |
|                       | 1421 | 2940                   | 2440 | 2140 | 2980 | 1440 | 775*775                    | 1975*575  | 2168        |
|                       | 1521 | 2940                   | 2440 | 2140 | 3180 | 1540 | 775*775                    | 1975*575  | 2322        |
|                       | 1622 | 3140                   | 2540 | 2240 | 3380 | 1640 | 875*875                    | 2075*675  | 2647        |
| 50mm series           | 1625 | 3340                   | 2640 | 2540 | 3380 | 1640 | 875*875                    | 2375*675  | 2854        |
|                       | 1725 | 3340                   | 2640 | 2540 | 3580 | 1740 | 975*975                    | 2375*675  | 3032        |
|                       | 1727 | 3340                   | 2640 | 2740 | 3580 | 1740 | 975*975                    | 2575*675  | 3274        |
|                       | 1927 | 3790                   | 2890 | 2790 | 3980 | 1990 | 1075*1075                  | 2625*775  | 3982        |
|                       | 1929 | 3990                   | 2990 | 2990 | 4080 | 1990 | 1075*1075                  | 2825*775  | 4575        |
|                       | 2129 | 3990                   | 2990 | 2990 | 4480 | 2190 | 1175*1175                  | 2825*875  | 5056        |
|                       | 2131 | 4190                   | 3090 | 3190 | 4480 | 2190 | 1175*1175                  | 3025*875  | 5634        |
|                       | 2331 | 4190                   | 3090 | 3190 | 4880 | 2390 | 1175*1175                  | 3025*975  | 6170        |
|                       | 2333 | 4690                   | 3390 | 3390 | 4880 | 2390 | 1375*1375                  | 3225*975  | 7285        |
|                       | 2535 | 4690                   | 3390 | 3590 | 5280 | 2590 | 1375*1375                  | 3425*1075 | 8398        |

Remark:  
1. L+50mm, W+50mm, H+100mm, when 25 series AHU using 50mm panels.  
2. H=100mm.  
3. By-pass damper is optional for transition season.

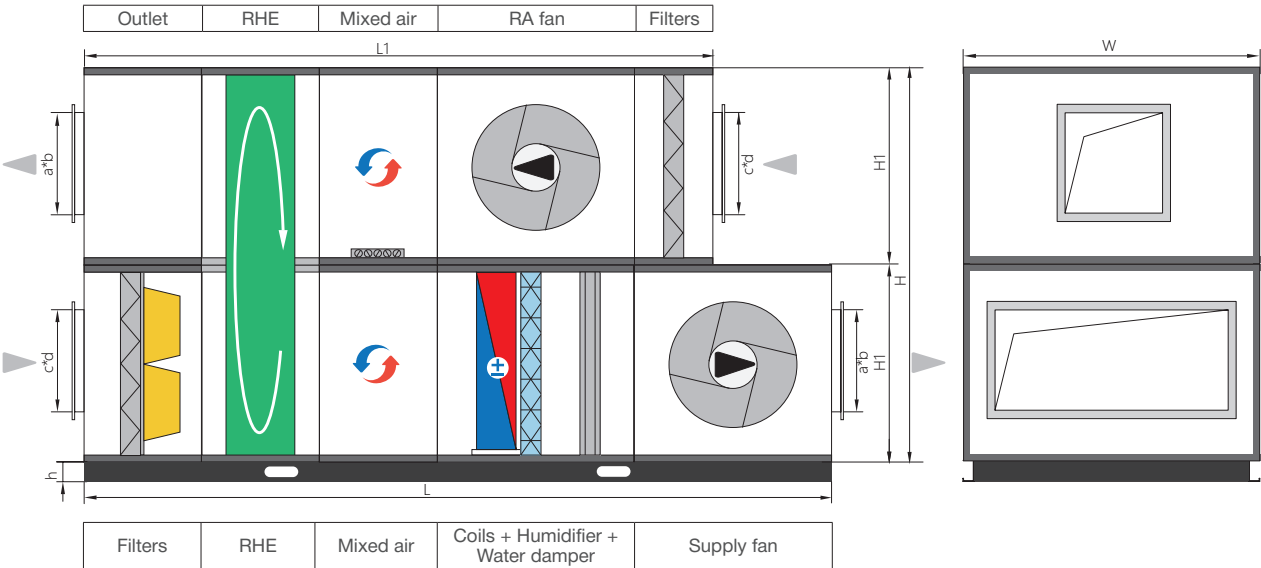
► Rotary Heat Exchanger + Coarse (Medium) Filters + Coils (Cooling/Heating) + Humidifier + Supply Fan



| Casing specifications |      | Dimensions of AHU (mm) |      |      |      |      | Dimensions of flanges (mm) |           | Weight (kg) |
|-----------------------|------|------------------------|------|------|------|------|----------------------------|-----------|-------------|
|                       |      | L                      | L1   | W    | H    | H1   | a*b                        | c*d       |             |
| 25mm series           | 0507 | 2940                   | 1540 | 740  | 1180 | 540  | 375*375                    | 575*175   | 362         |
|                       | 0508 | 2940                   | 1540 | 840  | 1180 | 540  | 375*375                    | 675*175   | 413         |
|                       | 0609 | 2940                   | 1540 | 940  | 1380 | 640  | 475*475                    | 775*175   | 559         |
|                       | 0610 | 3140                   | 1640 | 1040 | 1380 | 640  | 475*475                    | 875*175   | 637         |
|                       | 0710 | 3140                   | 1640 | 1040 | 1580 | 740  | 475*475                    | 875*275   | 744         |
|                       | 0811 | 3340                   | 1740 | 1140 | 1780 | 840  | 475*475                    | 975*275   | 912         |
|                       | 0812 | 3440                   | 1740 | 1240 | 1780 | 840  | 475*475                    | 1075*275  | 1118        |
|                       | 0912 | 3440                   | 1740 | 1240 | 1980 | 940  | 475*475                    | 1075*375  | 1157        |
|                       | 0913 | 3640                   | 1840 | 1340 | 1980 | 940  | 575*575                    | 1175*375  | 1286        |
|                       | 1013 | 3640                   | 1840 | 1340 | 2180 | 1040 | 575*575                    | 1175*375  | 1428        |
|                       | 1014 | 3640                   | 1840 | 1440 | 2180 | 1040 | 575*575                    | 1275*375  | 1537        |
|                       | 1115 | 3840                   | 1940 | 1540 | 2380 | 1140 | 575*575                    | 1375*475  | 1725        |
|                       | 1116 | 3840                   | 1940 | 1640 | 2380 | 1140 | 675*675                    | 1475*475  | 1840        |
|                       | 1117 | 3840                   | 1940 | 1740 | 2380 | 1140 | 675*675                    | 1575*475  | 1955        |
|                       | 1119 | 4040                   | 2040 | 1940 | 2380 | 1140 | 775*775                    | 1775*475  | 2166        |
|                       | 1219 | 4040                   | 2040 | 1940 | 2580 | 1240 | 775*775                    | 1775*475  | 2362        |
|                       | 1419 | 4040                   | 2040 | 1940 | 2980 | 1440 | 775*775                    | 1775*575  | 2697        |
|                       | 1421 | 4240                   | 2440 | 2140 | 2980 | 1440 | 775*775                    | 1975*575  | 2813        |
|                       | 1521 | 4240                   | 2440 | 2140 | 3180 | 1540 | 775*775                    | 1975*575  | 3013        |
|                       | 1622 | 4440                   | 2540 | 2240 | 3380 | 1640 | 875*875                    | 2075*675  | 3263        |
| 50mm series           | 1625 | 4640                   | 2640 | 2540 | 3380 | 1640 | 875*875                    | 2375*675  | 3450        |
|                       | 1725 | 4640                   | 2640 | 2540 | 3580 | 1740 | 975*975                    | 2375*675  | 3665        |
|                       | 1727 | 4640                   | 2640 | 2740 | 3580 | 1740 | 975*975                    | 2575*675  | 3958        |
|                       | 1927 | 5090                   | 2890 | 2790 | 3980 | 1990 | 1075*1075                  | 2625*775  | 4707        |
|                       | 1929 | 5290                   | 2990 | 2990 | 4080 | 1990 | 1075*1075                  | 2825*775  | 5368        |
|                       | 2129 | 5290                   | 2990 | 2990 | 4480 | 2190 | 1175*1175                  | 2825*875  | 5733        |
|                       | 2131 | 5490                   | 3090 | 3190 | 4480 | 2190 | 1175*1175                  | 3025*875  | 6105        |
|                       | 2331 | 5490                   | 3090 | 3190 | 4880 | 2390 | 1175*1175                  | 3025*975  | 6686        |
|                       | 2333 | 5990                   | 3390 | 3390 | 4880 | 2390 | 1375*1375                  | 3225*975  | 7806        |
|                       | 2535 | 5990                   | 3390 | 3590 | 5280 | 2590 | 1375*1375                  | 3425*1075 | 8944        |

Remarks  
1. L+50mm, W+50mm, H+100mm, when 25 series AHU using 50mm panels.  
2. L refer to the unit length of AHU use wet-film humidifier. L should be recalculated with other type of humidifier. Other type of humidifier, please refer to introduction part of humidifier.  
3. H=100mm.  
4. By-pass damper is optional for transition season.

► Rotary Heat Exchanger + Coarse (Medium) Filters + Mixed Air + Coils (Cooling/Heating) + Humidifier + Supply Fan

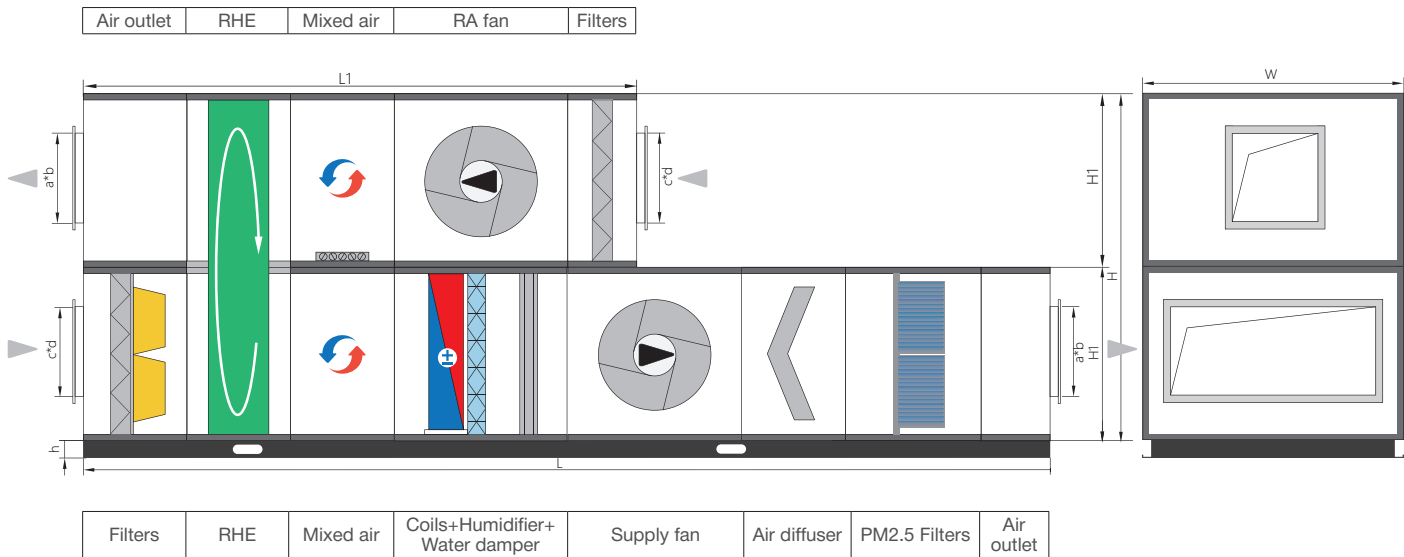


| Casing specifications |      | Dimensions of AHU (mm) |      |      |      |      | Dimensions of flanges (mm) |           | Weight (kg) |
|-----------------------|------|------------------------|------|------|------|------|----------------------------|-----------|-------------|
|                       |      | L                      | L1   | W    | H    | H1   | a*b                        | c*d       |             |
| 25mm series           | 0507 | 2840                   | 2540 | 740  | 1180 | 540  | 375*375                    | 575*175   | 419         |
|                       | 0508 | 2840                   | 2540 | 840  | 1180 | 540  | 375*375                    | 675*175   | 478         |
|                       | 0609 | 2840                   | 2540 | 940  | 1380 | 640  | 475*475                    | 775*175   | 647         |
|                       | 0610 | 2940                   | 2640 | 1040 | 1380 | 640  | 475*475                    | 875*175   | 716         |
|                       | 0710 | 2940                   | 2640 | 1040 | 1580 | 740  | 475*475                    | 875*275   | 836         |
|                       | 0811 | 3140                   | 2740 | 1140 | 1780 | 840  | 475*475                    | 975*275   | 1016        |
|                       | 0812 | 3140                   | 2740 | 1240 | 1780 | 840  | 475*475                    | 1075*275  | 1221        |
|                       | 0912 | 3140                   | 2740 | 1240 | 1980 | 940  | 475*475                    | 1075*375  | 1264        |
|                       | 0913 | 3240                   | 2840 | 1340 | 1980 | 940  | 575*575                    | 1175*375  | 1372        |
|                       | 1013 | 3240                   | 2840 | 1340 | 2180 | 1040 | 575*575                    | 1175*375  | 1524        |
|                       | 1014 | 3240                   | 2840 | 1440 | 2180 | 1040 | 575*575                    | 1275*375  | 1640        |
|                       | 1115 | 3340                   | 2940 | 1540 | 2380 | 1140 | 575*575                    | 1375*475  | 1802        |
|                       | 1116 | 3340                   | 2940 | 1640 | 2380 | 1140 | 675*675                    | 1475*475  | 1922        |
|                       | 1117 | 3340                   | 2940 | 1740 | 2380 | 1140 | 675*675                    | 1575*475  | 2042        |
|                       | 1119 | 3440                   | 3040 | 1940 | 2380 | 1140 | 775*775                    | 1775*475  | 2218        |
|                       | 1219 | 3440                   | 3040 | 1940 | 2580 | 1240 | 775*775                    | 1775*475  | 2419        |
|                       | 1419 | 3440                   | 3040 | 1940 | 2980 | 1440 | 775*775                    | 1775*575  | 2762        |
|                       | 1421 | 3840                   | 3440 | 2140 | 2980 | 1440 | 775*775                    | 1975*575  | 2946        |
|                       | 1521 | 3840                   | 3440 | 2140 | 3180 | 1540 | 775*775                    | 1975*575  | 3156        |
|                       | 1622 | 3940                   | 3540 | 2240 | 3380 | 1640 | 875*875                    | 2075*675  | 3360        |
| 50mm series           | 1625 | 4040                   | 3640 | 2540 | 3380 | 1640 | 875*875                    | 2375*675  | 3496        |
|                       | 1725 | 4040                   | 3640 | 2540 | 3580 | 1740 | 975*975                    | 2375*675  | 3714        |
|                       | 1727 | 4040                   | 3640 | 2740 | 3580 | 1740 | 975*975                    | 2575*675  | 4011        |
|                       | 1927 | 4290                   | 3890 | 2790 | 3980 | 1990 | 1075*1075                  | 2625*775  | 4635        |
|                       | 1929 | 4390                   | 3990 | 2990 | 4080 | 1990 | 1075*1075                  | 2825*775  | 5217        |
|                       | 2129 | 4390                   | 3990 | 2990 | 4480 | 2190 | 1175*1175                  | 2825*875  | 5572        |
|                       | 2131 | 4490                   | 4090 | 3190 | 4480 | 2190 | 1175*1175                  | 3025*875  | 5861        |
|                       | 2331 | 4490                   | 4090 | 3190 | 4880 | 2390 | 1175*1175                  | 3025*975  | 6419        |
|                       | 2333 | 4790                   | 4390 | 3390 | 4880 | 2390 | 1375*1375                  | 3225*975  | 7331        |
|                       | 2535 | 4790                   | 4390 | 3590 | 5280 | 2590 | 1375*1375                  | 3425*1075 | 8400        |

Remark:

1. L+50mm, W+50mm, H+100mm, when 25 series AHU using 50mm panels.
2. L refer to the unit length of AHU use wet-film humidifier. L should be recalculated with other type of humidifier. Other type of humidifier, please refer to introduction part of humidifier.
3. H=100mm
4. By-pass damper is optional for transition season.

► Rotary Heat Exchanger + Coarse (Medium) Filters +Mixed Air + Coils (Cooling/Heating)+ Humidifier + Fan + PM2.5 Filters

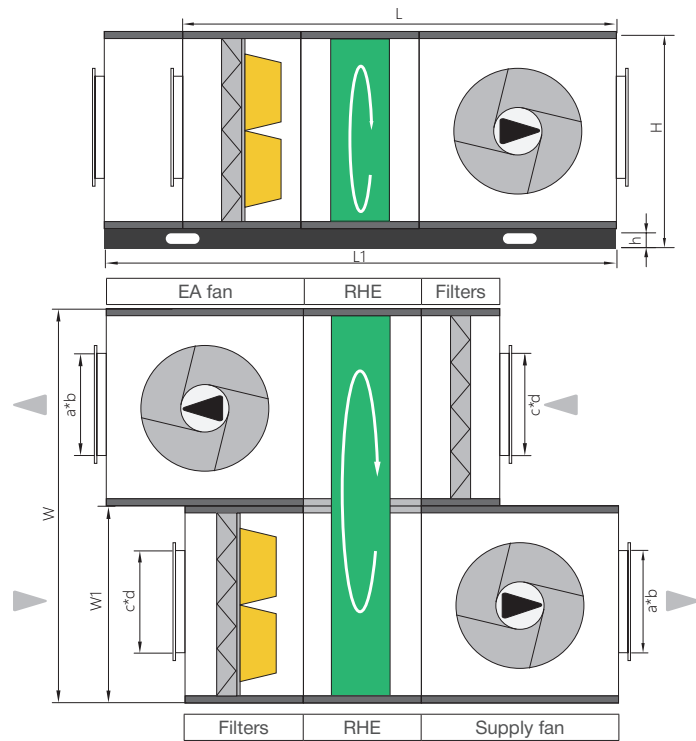


| Casing specifications |      | Dimensions of AHU (mm) |      |      |      |      | Dimensions of flanges (mm) |           | Weight (kg) |
|-----------------------|------|------------------------|------|------|------|------|----------------------------|-----------|-------------|
|                       |      | L                      | L1   | H    | W    | W1   | a * b                      | c * d     |             |
| 25mm series           | 0507 | 4340                   | 2540 | 740  | 1180 | 540  | 375*375                    | 575*175   | 538         |
|                       | 0508 | 4340                   | 2540 | 840  | 1180 | 540  | 375*375                    | 675*175   | 613         |
|                       | 0609 | 4340                   | 2540 | 940  | 1380 | 640  | 475*475                    | 775*175   | 830         |
|                       | 0610 | 4440                   | 2640 | 1040 | 1380 | 640  | 475*475                    | 875*175   | 911         |
|                       | 0710 | 4440                   | 2640 | 1040 | 1580 | 740  | 475*475                    | 875*275   | 1064        |
|                       | 0811 | 4640                   | 2740 | 1140 | 1780 | 840  | 475*475                    | 975*275   | 1279        |
|                       | 0812 | 4640                   | 2740 | 1240 | 1780 | 840  | 475*475                    | 1075*275  | 1537        |
|                       | 0912 | 4640                   | 2740 | 1240 | 1980 | 940  | 475*475                    | 1075*375  | 1590        |
|                       | 0913 | 4740                   | 2840 | 1340 | 1980 | 940  | 575*575                    | 1175*375  | 1715        |
|                       | 1013 | 4740                   | 2840 | 1340 | 2180 | 1040 | 575*575                    | 1175*375  | 1904        |
|                       | 1014 | 4740                   | 2840 | 1440 | 2180 | 1040 | 575*575                    | 1275*375  | 2050        |
|                       | 1115 | 4840                   | 2940 | 1540 | 2380 | 1140 | 575*575                    | 1375*475  | 2238        |
|                       | 1116 | 4840                   | 2940 | 1640 | 2380 | 1140 | 675*675                    | 1475*475  | 2387        |
|                       | 1117 | 4840                   | 2940 | 1740 | 2380 | 1140 | 675*675                    | 1575*475  | 2536        |
|                       | 1119 | 4940                   | 3040 | 1940 | 2380 | 1140 | 775*775                    | 1775*475  | 2738        |
|                       | 1219 | 4940                   | 3040 | 1940 | 2580 | 1240 | 775*775                    | 1775*475  | 2986        |
|                       | 1419 | 4940                   | 3040 | 1940 | 2980 | 1440 | 775*775                    | 1775*575  | 3410        |
|                       | 1421 | 5340                   | 3440 | 2140 | 2980 | 1440 | 775*775                    | 1975*575  | 3560        |
|                       | 1521 | 5340                   | 3440 | 2140 | 3180 | 1540 | 775*775                    | 1975*575  | 3813        |
|                       | 1622 | 5440                   | 3540 | 2240 | 3380 | 1640 | 875*875                    | 2075*675  | 4041        |
| 50mm series           | 1625 | 5540                   | 3640 | 2540 | 3380 | 1640 | 875*875                    | 2375*675  | 4186        |
|                       | 1725 | 5540                   | 3640 | 2540 | 3580 | 1740 | 975*975                    | 2375*675  | 4447        |
|                       | 1727 | 5540                   | 3640 | 2740 | 3580 | 1740 | 975*975                    | 2575*675  | 4803        |
|                       | 1927 | 5790                   | 3890 | 2790 | 3980 | 1990 | 1075*1075                  | 2625*775  | 5504        |
|                       | 1929 | 5890                   | 3990 | 2990 | 4080 | 1990 | 1075*1075                  | 2825*775  | 6172        |
|                       | 2129 | 5890                   | 3990 | 2990 | 4480 | 2190 | 1175*1175                  | 2825*875  | 6591        |
|                       | 2131 | 5990                   | 4090 | 3190 | 4480 | 2190 | 1175*1175                  | 3025*875  | 6908        |
|                       | 2331 | 5990                   | 4090 | 3190 | 4880 | 2390 | 1175*1175                  | 3025*975  | 7565        |
|                       | 2333 | 6290                   | 4390 | 3390 | 4880 | 2390 | 1375*1375                  | 3225*975  | 8553        |
|                       | 2535 | 6290                   | 4390 | 3590 | 5280 | 2590 | 1375*1375                  | 3425*1075 | 9800        |

Remarks

1. L+50mm, W+50mm, H+100mm, when 25 series AHU using 50mm panels.
2. L refer to the unit length of AHU use wet-film humidifier. L should be recalculated with other type of humidifier. Other type of humidifier, please refer to introduction part of humidifier.
3. H=100mm.
4. By-pass damper is optional for transition season.

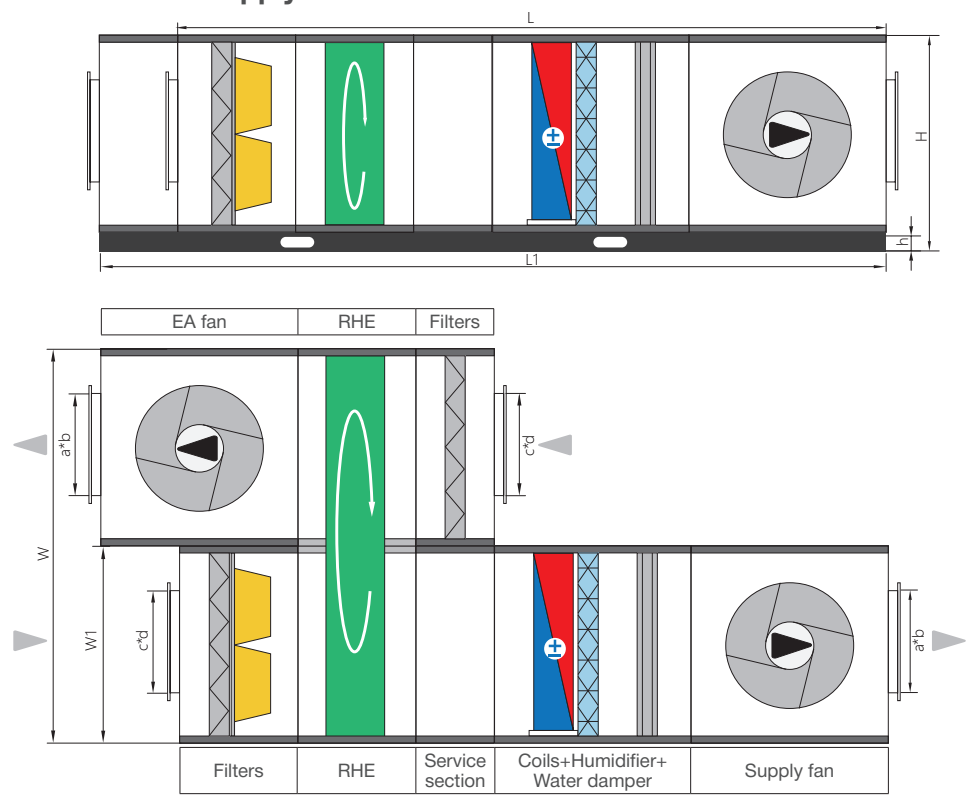
► Rotary Heat Exchanger + Coarse (Medium) Filters + Supply Fan



| Casing specifications |      | Dimensions of AHU (mm) |      |      |      |      | Dimensions of flanges (mm) |           | Weight (kg) |
|-----------------------|------|------------------------|------|------|------|------|----------------------------|-----------|-------------|
|                       |      | L                      | L1   | H    | W    | W1   | a * b                      | c * d     |             |
| 25mm series           | 1108 | 2140                   | 1840 | 1240 | 1680 | 840  | 475*475                    | 375*775   | 752         |
|                       | 1208 | 2140                   | 1840 | 1340 | 1680 | 840  | 475*475                    | 375*875   | 811         |
|                       | 1209 | 2140                   | 1840 | 1340 | 1880 | 940  | 475*475                    | 475*775   | 912         |
|                       | 1309 | 2340                   | 1940 | 1440 | 1880 | 940  | 575*575                    | 475*875   | 1015        |
|                       | 1310 | 2340                   | 1940 | 1440 | 2080 | 1040 | 575*575                    | 575*775   | 1133        |
|                       | 1410 | 2340                   | 1940 | 1540 | 2080 | 1040 | 575*575                    | 575*875   | 1220        |
|                       | 1411 | 2540                   | 2040 | 1540 | 2280 | 1140 | 575*575                    | 675*875   | 1274        |
|                       | 1511 | 2540                   | 2040 | 1640 | 2280 | 1140 | 575*575                    | 675*875   | 1311        |
|                       | 1512 | 2540                   | 2040 | 1640 | 2480 | 1240 | 675*675                    | 775*875   | 1431        |
|                       | 1613 | 2540                   | 2040 | 1740 | 2680 | 1340 | 675*675                    | 875*875   | 1527        |
|                       | 1713 | 2740                   | 2140 | 1840 | 2680 | 1340 | 775*775                    | 875*975   | 1623        |
|                       | 1814 | 2740                   | 2140 | 1940 | 2880 | 1440 | 775*775                    | 975*975   | 1851        |
|                       | 1914 | 2740                   | 2140 | 2040 | 2880 | 1440 | 775*775                    | 975*975   | 1996        |
|                       | 1915 | 2940                   | 2240 | 2040 | 3080 | 1540 | 775*775                    | 1075*975  | 2271        |
|                       | 2016 | 2940                   | 2240 | 2140 | 3280 | 1640 | 775*775                    | 1175*1075 | 2550        |
|                       | 2116 | 3140                   | 3040 | 2240 | 3280 | 1640 | 875*875                    | 1175*1075 | 3195        |
|                       | 2117 | 3140                   | 3040 | 2240 | 3480 | 1740 | 875*875                    | 1275*1075 | 3395        |
|                       | 2217 | 3140                   | 3040 | 2340 | 3480 | 1740 | 875*875                    | 1275*1175 | 3557        |
|                       | 2517 | 3340                   | 3340 | 2640 | 3480 | 1740 | 975*975                    | 1275*1275 | 3387        |
|                       | 2717 | 3340                   | 3340 | 2840 | 3480 | 1740 | 975*975                    | 1275*1375 | 3658        |
| 50mm series           | 2719 | 3990                   | 3690 | 2890 | 3980 | 1990 | 1075*1075                  | 1525*1375 | 4519        |
|                       | 2919 | 3940                   | 3690 | 3090 | 3980 | 1990 | 1075*1075                  | 1525*1475 | 4969        |
|                       | 2921 | 4140                   | 3790 | 3090 | 4380 | 2190 | 1175*1175                  | 1725*1475 | 5708        |
|                       | 3122 | 4190                   | 3790 | 3290 | 4580 | 2290 | 1175*1175                  | 1825*1575 | 6474        |
|                       | 3123 | 4190                   | 3790 | 3290 | 4780 | 2390 | 1175*1175                  | 1925*1575 | 6764        |
|                       | 3324 | 4690                   | 4090 | 3490 | 4980 | 2490 | 1375*1375                  | 2025*1675 | 8267        |
|                       | 3525 | 4690                   | 4090 | 3690 | 5180 | 2590 | 1375*1375                  | 2125*1675 | 9126        |
|                       | 3727 | 5090                   | 4290 | 3890 | 5580 | 2790 | 1475*1475                  | 2325*1775 | 11132       |
|                       | 3928 | 5690                   | 4590 | 4090 | 5780 | 2890 | 1575*1575                  | 2425*1975 | 12125       |

- Remark:
1. L/W/H should add 50mm when 25 series AHU using 50mm panels.
  2. H=100mm
  3. By-pass damper is optional for transition season.

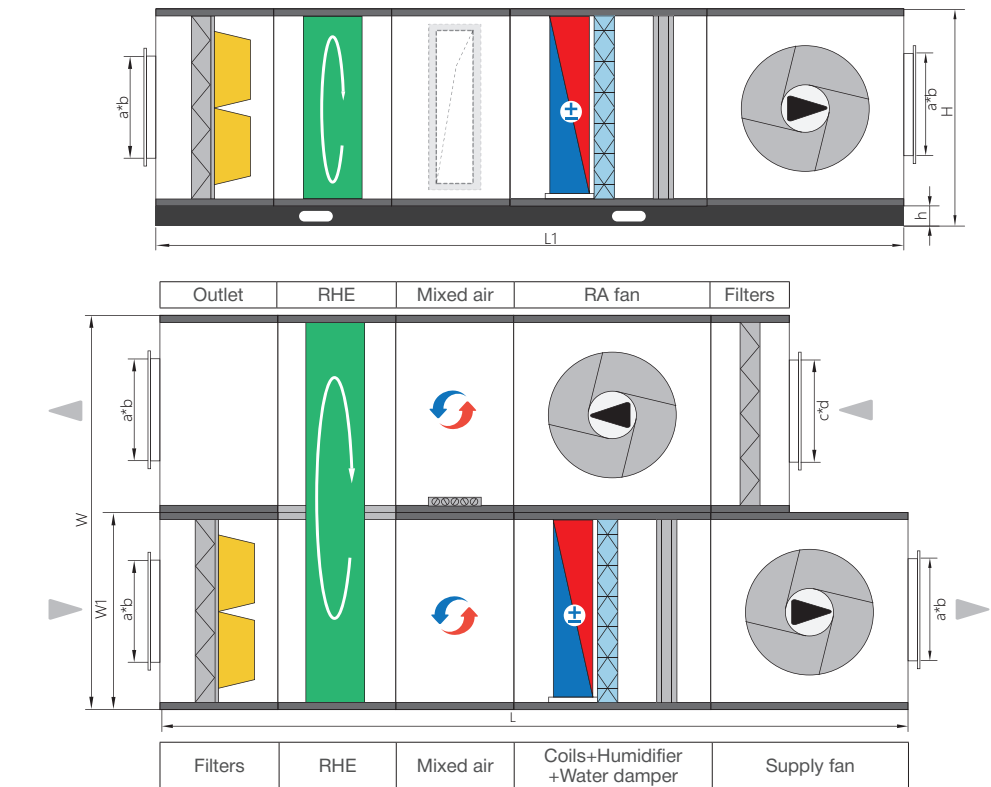
► Rotary Heat Exchanger + Coarse (Medium) Filters + Coils (Heating/Cooling ) + Humidifier + Supply Fan



| Casing specifications |      | Dimensions of AHU (mm) |      |      |      |      | Dimensions of flanges (mm) |           | Weight (kg) |
|-----------------------|------|------------------------|------|------|------|------|----------------------------|-----------|-------------|
|                       |      | L                      | L1   | H    | W    | W1   | a * b                      | c * d     |             |
| 25mm series           | 1108 | 3440                   | 3140 | 1240 | 1680 | 840  | 475*475                    | 375*775   | 979         |
|                       | 1208 | 3440                   | 3140 | 1340 | 1680 | 840  | 475*475                    | 375*875   | 1055        |
|                       | 1209 | 3440                   | 3140 | 1340 | 1880 | 940  | 475*475                    | 475*775   | 1187        |
|                       | 1309 | 3640                   | 3240 | 1440 | 1880 | 940  | 575*575                    | 475*875   | 1300        |
|                       | 1310 | 3640                   | 3240 | 1440 | 2080 | 1040 | 575*575                    | 575*775   | 1450        |
|                       | 1410 | 3640                   | 3240 | 1540 | 2080 | 1040 | 575*575                    | 575*875   | 1562        |
|                       | 1411 | 3840                   | 3340 | 1540 | 2280 | 1140 | 575*575                    | 675*875   | 1595        |
|                       | 1511 | 3840                   | 3340 | 1640 | 2280 | 1140 | 575*575                    | 675*875   | 1655        |
|                       | 1512 | 3840                   | 3340 | 1640 | 2480 | 1240 | 675*675                    | 775*875   | 1806        |
|                       | 1613 | 3840                   | 3340 | 1740 | 2680 | 1340 | 675*675                    | 875*875   | 1927        |
|                       | 1713 | 4040                   | 3440 | 1840 | 2680 | 1340 | 775*775                    | 875*975   | 2048        |
|                       | 1814 | 4040                   | 3440 | 1940 | 2880 | 1440 | 775*775                    | 975*975   | 2336        |
|                       | 1914 | 4040                   | 3440 | 2040 | 2880 | 1440 | 775*775                    | 975*975   | 2487        |
|                       | 1915 | 4240                   | 3540 | 2040 | 3080 | 1540 | 775*775                    | 1075*975  | 2797        |
|                       | 2016 | 4240                   | 3840 | 2140 | 3280 | 1640 | 775*775                    | 1175*1075 | 3141        |
|                       | 2116 | 4440                   | 3940 | 2240 | 3280 | 1640 | 875*875                    | 1175*1075 | 3447        |
|                       | 2117 | 4440                   | 3940 | 2240 | 3480 | 1740 | 875*875                    | 1275*1075 | 3663        |
|                       | 2217 | 4440                   | 3940 | 2340 | 3480 | 1740 | 875*875                    | 1275*1175 | 3838        |
|                       | 2517 | 4640                   | 4040 | 2640 | 3480 | 1740 | 975*975                    | 1275*1275 | 3692        |
|                       | 2717 | 4640                   | 4040 | 2840 | 3480 | 1740 | 975*975                    | 1275*1375 | 3986        |
| 50mm series           | 2719 | 5290                   | 4390 | 2890 | 3980 | 1990 | 1075*1075                  | 1525*1375 | 4877        |
|                       | 2919 | 5290                   | 4390 | 3090 | 3980 | 1990 | 1075*1075                  | 1525*1475 | 5362        |
|                       | 2921 | 5490                   | 4490 | 3090 | 4380 | 2190 | 1175*1175                  | 1725*1475 | 6143        |
|                       | 3122 | 5490                   | 4490 | 3290 | 4580 | 2290 | 1175*1175                  | 1825*1575 | 6961        |
|                       | 3123 | 5490                   | 4490 | 3290 | 4780 | 2390 | 1175*1175                  | 1925*1575 | 7272        |
|                       | 3324 | 5990                   | 4790 | 3490 | 4980 | 2490 | 1375*1375                  | 2025*1675 | 8831        |
|                       | 3525 | 5990                   | 4790 | 3690 | 5180 | 2590 | 1375*1375                  | 2125*1675 | 9750        |
|                       | 3727 | 6390                   | 4990 | 3890 | 5580 | 2790 | 1475*1475                  | 2325*1775 | 11844       |
|                       | 3928 | 6990                   | 5290 | 4090 | 5780 | 2890 | 1575*1575                  | 2425*1975 | 12832       |

- Remarks
1. L/W/H should add 50mm when 25 series AHU using 50mm panels.
  2. L refer to the unit length of AHU use wet-film humidifier. L should be recalculated with other type of humidifier. Other type of humidifier, please refer to introduction part of humidifier.
  3. H=100mm
  4. By-pass damper is optional for transition season.

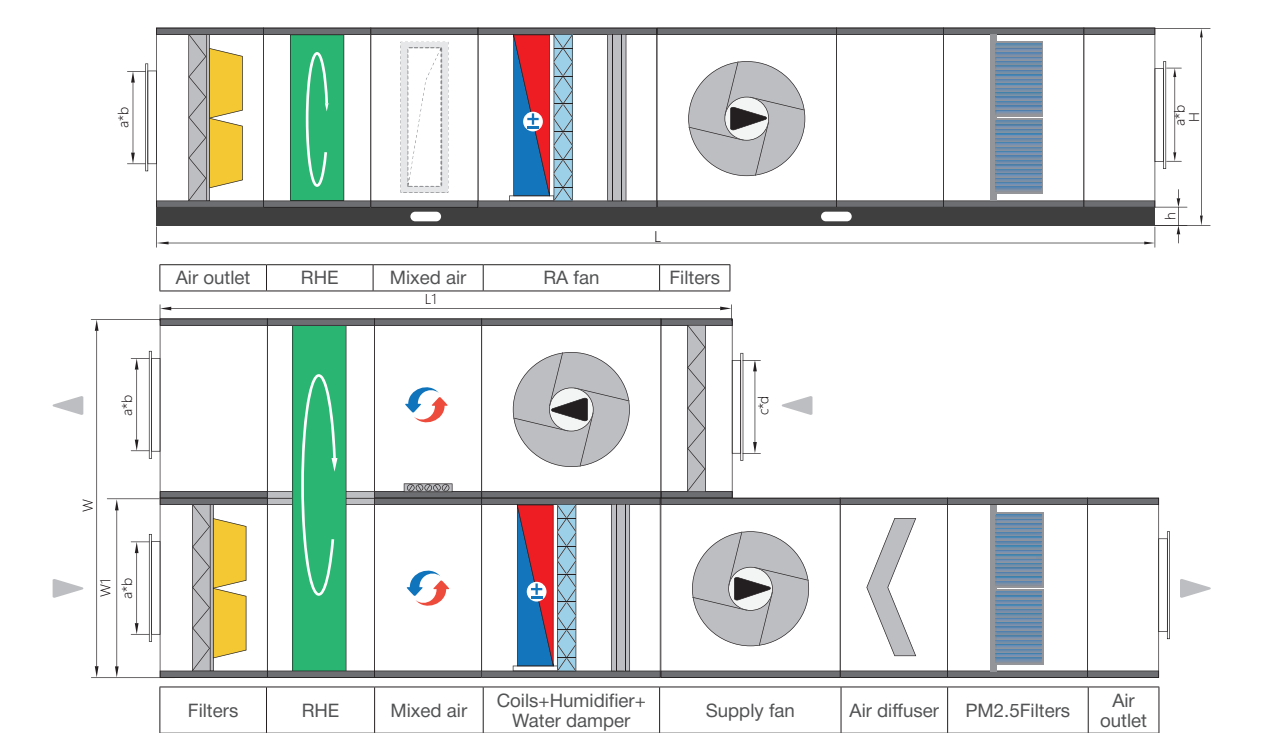
► Rotary Heat Exchanger + Coarse (Medium) Filters + Mixed Air + Coils (Cooling/Heating) + Humidifier + Supply Fan



| Casing specifications |      | Dimensions of AHU (mm) |      |      |      |      | Dimensions of flanges (mm) |           | Weight (kg) |
|-----------------------|------|------------------------|------|------|------|------|----------------------------|-----------|-------------|
|                       |      | L                      | L1   | H    | W    | W1   | a * b                      | c * d     |             |
| 25mm series           | 1108 | 4640                   | 2740 | 1240 | 1680 | 840  | 475*475                    | 375*775   | 1394        |
|                       | 1208 | 4640                   | 2740 | 1340 | 1680 | 840  | 475*475                    | 375*875   | 1503        |
|                       | 1209 | 4640                   | 2740 | 1340 | 1880 | 940  | 475*475                    | 475*775   | 1691        |
|                       | 1309 | 4740                   | 2840 | 1440 | 1880 | 940  | 575*575                    | 475*875   | 1798        |
|                       | 1310 | 4740                   | 2840 | 1440 | 2080 | 1040 | 575*575                    | 575*775   | 2006        |
|                       | 1410 | 4740                   | 2840 | 1540 | 2080 | 1040 | 575*575                    | 575*875   | 2160        |
|                       | 1411 | 4840                   | 2940 | 1540 | 2280 | 1140 | 575*575                    | 675*875   | 2129        |
|                       | 1511 | 4840                   | 2940 | 1640 | 2280 | 1140 | 575*575                    | 675*875   | 2227        |
|                       | 1512 | 4840                   | 2940 | 1640 | 2480 | 1240 | 675*675                    | 775*875   | 2430        |
|                       | 1613 | 4840                   | 2940 | 1740 | 2680 | 1340 | 675*675                    | 875*875   | 2592        |
|                       | 1713 | 4940                   | 3040 | 1840 | 2680 | 1340 | 775*775                    | 875*975   | 2754        |
|                       | 1814 | 4940                   | 3040 | 1940 | 2880 | 1440 | 775*775                    | 975*975   | 3141        |
|                       | 1914 | 4940                   | 3040 | 2040 | 2880 | 1440 | 775*775                    | 975*975   | 3264        |
|                       | 1915 | 5040                   | 3140 | 2040 | 3080 | 1540 | 775*775                    | 1075*975  | 3585        |
|                       | 2016 | 5340                   | 3440 | 2140 | 3280 | 1640 | 775*775                    | 1175*1075 | 4026        |
|                       | 2116 | 5440                   | 3540 | 2240 | 3280 | 1640 | 875*875                    | 1175*1075 | 4324        |
|                       | 2117 | 5440                   | 3540 | 2240 | 3480 | 1740 | 875*875                    | 1275*1075 | 4595        |
|                       | 2217 | 5440                   | 3540 | 2340 | 3480 | 1740 | 875*875                    | 1275*1175 | 4814        |
|                       | 2517 | 5540                   | 3640 | 2640 | 3480 | 1740 | 975*975                    | 1275*1275 | 4655        |
|                       | 2717 | 5540                   | 3640 | 2840 | 3480 | 1740 | 975*975                    | 1275*1375 | 5026        |
| 50mm series           | 2719 | 5890                   | 3990 | 2890 | 3980 | 1990 | 1075*1075                  | 1525*1375 | 5830        |
|                       | 2919 | 5890                   | 3990 | 3090 | 3980 | 1990 | 1075*1075                  | 1525*1475 | 6411        |
|                       | 2921 | 5990                   | 4090 | 3090 | 4380 | 2190 | 1175*1175                  | 1725*1475 | 7230        |
|                       | 3122 | 5990                   | 4090 | 3290 | 4580 | 2290 | 1175*1175                  | 1825*1575 | 8178        |
|                       | 3123 | 5990                   | 4090 | 3290 | 4780 | 2390 | 1175*1175                  | 1925*1575 | 8544        |
|                       | 3324 | 6290                   | 4390 | 3490 | 4980 | 2490 | 1375*1375                  | 2025*1675 | 10056       |
|                       | 3525 | 6290                   | 4390 | 3690 | 5180 | 2590 | 1375*1375                  | 2125*1675 | 11101       |
|                       | 3727 | 6490                   | 4590 | 3890 | 5580 | 2790 | 1475*1475                  | 2325*1775 | 13149       |
|                       | 3928 | 6790                   | 4890 | 4090 | 5780 | 2890 | 1575*1575                  | 2425*1975 | 13776       |

Remark:  
1. L/W/H should add 50mm when 25 series AHU using 50mm panels  
2. H=100mm  
3. By-pass damper is optional for transition season.

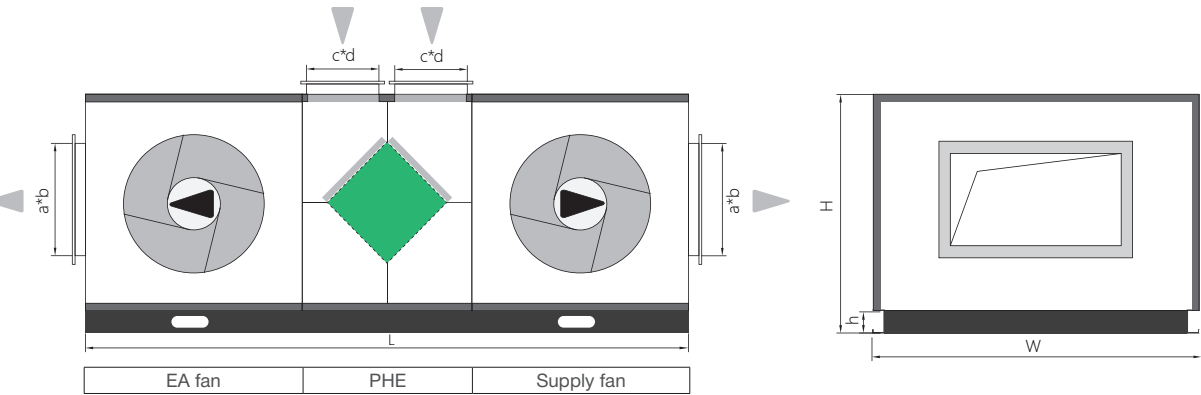
► Rotary Heat Exchanger + Coarse (Medium) Filters + Mixed Air + Coils (Cooling/Heating) + Humidifier + Fan + PM2.5 Filters + Air Outlet



| Casing specifications |      | Dimensions of AHU (mm) |      |      |      |      | Dimensions of flanges (mm) |           | Weight (kg) |
|-----------------------|------|------------------------|------|------|------|------|----------------------------|-----------|-------------|
|                       |      | L                      | L1   | H    | W    | W1   | a * b                      | c * d     |             |
| 25mm series           | 1108 | 4640                   | 2740 | 1240 | 1680 | 840  | 475*475                    | 375*775   | 1394        |
|                       | 1208 | 4640                   | 2740 | 1340 | 1680 | 840  | 475*475                    | 375*875   | 1503        |
|                       | 1209 | 4640                   | 2740 | 1340 | 1880 | 940  | 475*475                    | 475*775   | 1691        |
|                       | 1309 | 4740                   | 2840 | 1440 | 1880 | 940  | 575*575                    | 475*875   | 1798        |
|                       | 1310 | 4740                   | 2840 | 1440 | 2080 | 1040 | 575*575                    | 575*775   | 2006        |
|                       | 1410 | 4740                   | 2840 | 1540 | 2080 | 1040 | 575*575                    | 575*875   | 2160        |
|                       | 1411 | 4840                   | 2940 | 1540 | 2280 | 1140 | 575*575                    | 675*875   | 2129        |
|                       | 1511 | 4840                   | 2940 | 1640 | 2280 | 1140 | 575*575                    | 675*875   | 2227        |
|                       | 1512 | 4840                   | 2940 | 1640 | 2480 | 1240 | 675*675                    | 775*875   | 2430        |
|                       | 1613 | 4840                   | 2940 | 1740 | 2680 | 1340 | 675*675                    | 875*875   | 2592        |
|                       | 1713 | 4940                   | 3040 | 1840 | 2680 | 1340 | 775*775                    | 875*975   | 2754        |
|                       | 1814 | 4940                   | 3040 | 1940 | 2880 | 1440 | 775*775                    | 975*975   | 3141        |
|                       | 1914 | 4940                   | 3040 | 2040 | 2880 | 1440 | 775*775                    | 975*975   | 3264        |
|                       | 1915 | 5040                   | 3140 | 2040 | 3080 | 1540 | 775*775                    | 1075*975  | 3585        |
|                       | 2016 | 5340                   | 3440 | 2140 | 3280 | 1640 | 775*775                    | 1175*1075 | 4026        |
|                       | 2116 | 5440                   | 3540 | 2240 | 3280 | 1640 | 875*875                    | 1175*1075 | 4324        |
|                       | 2117 | 5440                   | 3540 | 2240 | 3480 | 1740 | 875*875                    | 1275*1075 | 4595        |
|                       | 2217 | 5440                   | 3540 | 2340 | 3480 | 1740 | 875*875                    | 1275*1175 | 4814        |
|                       | 2517 | 5540                   | 3640 | 2640 | 3480 | 1740 | 975*975                    | 1275*1275 | 4655        |
|                       | 2717 | 5540                   | 3640 | 2840 | 3480 | 1740 | 975*975                    | 1275*1375 | 5026        |
| 50mm series           | 2719 | 5890                   | 3990 | 2890 | 3980 | 1990 | 1075*1075                  | 1525*1375 | 5830        |
|                       | 2919 | 5890                   | 3990 | 3090 | 3980 | 1990 | 1075*1075                  | 1525*1475 | 6411        |
|                       | 2921 | 5990                   | 4090 | 3090 | 4380 | 2190 | 1175*1175                  | 1725*1475 | 7230        |
|                       | 3122 | 5990                   | 4090 | 3290 | 4580 | 2290 | 1175*1175                  | 1825*1575 | 8178        |
|                       | 3123 | 5990                   | 4090 | 3290 | 4780 | 2390 | 1175*1175                  | 1925*1575 | 8544        |
|                       | 3324 | 6290                   | 4390 | 3490 | 4980 | 2490 | 1375*1375                  | 2025*1675 | 10056       |
|                       | 3525 | 6290                   | 4390 | 3690 | 5180 | 2590 | 1375*1375                  | 2125*1675 | 11101       |
|                       | 3727 | 6490                   | 4590 | 3890 | 5580 | 2790 | 1475*1475                  | 2325*1775 | 13149       |
|                       | 3928 | 6790                   | 4890 | 4090 | 5780 | 2890 | 1575*1575                  | 2425*1975 | 13776       |

Remarks  
1. L/W/H should add 50mm when 25 series AHU using 50mm panels.  
2. L refer to the unit length of AHU use wet-film humidifier. L should be recalculated with other type of humidifier. Other type of humidifier, please refer to introduction part of humidifier.  
3. H=100mm  
4. By-pass damper is optional for transition season.

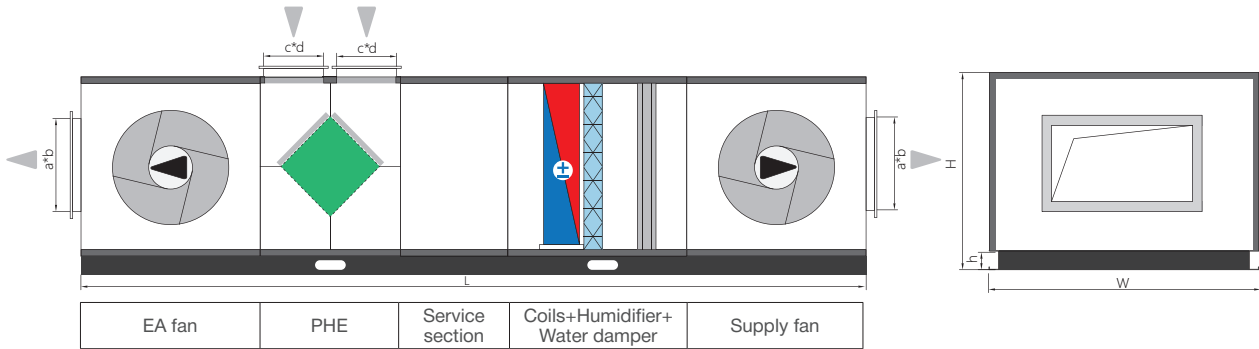
► Plate Heat Exchanger + Coarse (Medium) Filters Supply Fan



| Casing specifications |      | Dimensions of AHU (mm) |      |      | Dimensions of flanges (mm) |          | Weight (kg) |
|-----------------------|------|------------------------|------|------|----------------------------|----------|-------------|
|                       |      | L                      | W    | H    | a * b                      | c * d    |             |
| 25mm series           | 0507 | 1940                   | 740  | 540  | 375*375                    | 575*150  | 178         |
|                       | 0508 | 1940                   | 840  | 540  | 375*375                    | 675*150  | 203         |
|                       | 0609 | 2040                   | 940  | 640  | 475*475                    | 775*175  | 289         |
|                       | 0610 | 2240                   | 1040 | 640  | 475*475                    | 875*175  | 341         |
|                       | 0710 | 2240                   | 1040 | 740  | 475*475                    | 875*175  | 391         |
|                       | 0811 | 2640                   | 1140 | 840  | 475*475                    | 975*300  | 549         |
|                       | 0812 | 2640                   | 1240 | 840  | 475*475                    | 1075*300 | 592         |
|                       | 0912 | 2640                   | 1240 | 940  | 475*475                    | 1075*300 | 666         |
|                       | 0913 | 2840                   | 1340 | 940  | 575*575                    | 1175*300 | 741         |
|                       | 1013 | 2940                   | 1340 | 1040 | 575*575                    | 1175*375 | 856         |
|                       | 1014 | 2940                   | 1440 | 1040 | 575*575                    | 1275*375 | 922         |
|                       | 1115 | 3340                   | 1540 | 1140 | 575*575                    | 1375*450 | 1052        |
|                       | 1116 | 3340                   | 1640 | 1140 | 675*675                    | 1475*450 | 1122        |
|                       | 1117 | 3340                   | 1740 | 1140 | 675*675                    | 1575*450 | 1191        |
|                       | 1119 | 3540                   | 1940 | 1140 | 775*775                    | 1775*450 | 1252        |
|                       | 1219 | 3640                   | 1940 | 1240 | 775*775                    | 1775*550 | 1404        |
|                       | 1419 | 3640                   | 1940 | 1440 | 775*775                    | 1775*550 | 1638        |

Remark:  
1. L/W/H should add 50mm when 25 series AHU using 50mm panels.  
2. H=100mm

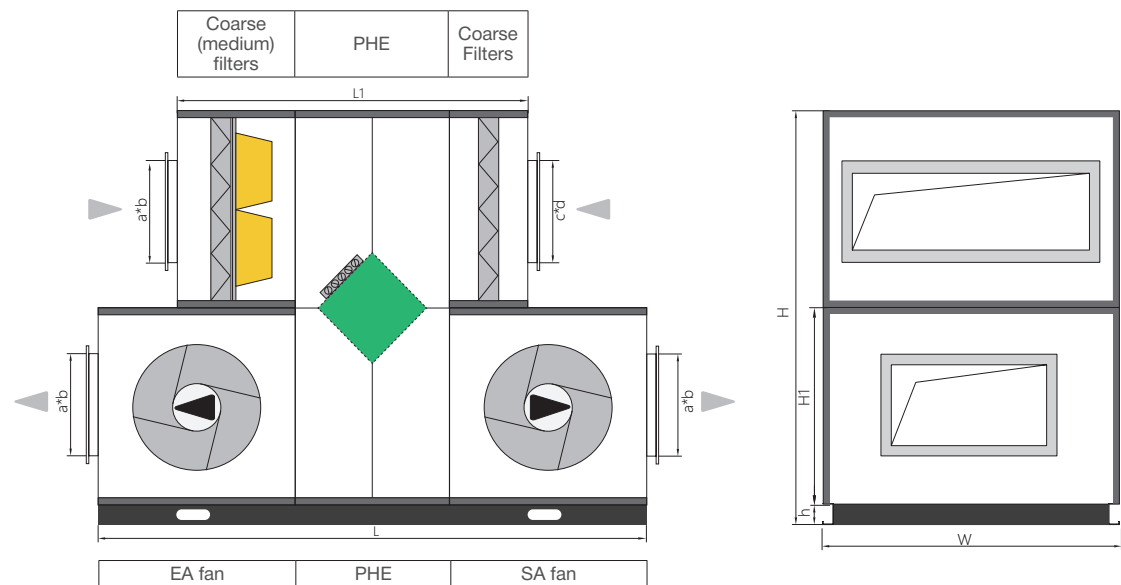
► Plate Heat Exchanger + Coarse (Medium) Filters + Coils (Cooling/Heating) + Humidifier + Supply Fan



| Casing specifications |      | Dimensions of AHU (mm) |      |      | Dimensions of flanges (mm) |          | Weight (kg) |
|-----------------------|------|------------------------|------|------|----------------------------|----------|-------------|
|                       |      | L                      | W    | H    | a * b                      | c * d    |             |
| 25mm series           | 0507 | 2540                   | 740  | 540  | 375*375                    | 575*150  | 226         |
|                       | 0508 | 2540                   | 840  | 540  | 375*375                    | 675*150  | 258         |
|                       | 0609 | 2640                   | 940  | 640  | 475*475                    | 775*175  | 363         |
|                       | 0610 | 2840                   | 1040 | 640  | 475*475                    | 875*175  | 417         |
|                       | 0710 | 2840                   | 1040 | 740  | 475*475                    | 875*175  | 487         |
|                       | 0811 | 3340                   | 1140 | 840  | 475*475                    | 975*300  | 660         |
|                       | 0812 | 3340                   | 1240 | 840  | 475*475                    | 1075*300 | 793         |
|                       | 0912 | 3340                   | 1240 | 940  | 475*475                    | 1075*300 | 821         |
|                       | 0913 | 3540                   | 1340 | 940  | 575*575                    | 1175*300 | 914         |
|                       | 1013 | 3640                   | 1340 | 1040 | 575*575                    | 1175*375 | 1044        |
|                       | 1014 | 3640                   | 1440 | 1040 | 575*575                    | 1275*375 | 1124        |
|                       | 1115 | 4040                   | 1540 | 1140 | 575*575                    | 1375*450 | 1327        |
|                       | 1116 | 4040                   | 1640 | 1140 | 675*675                    | 1475*450 | 1415        |
|                       | 1117 | 4040                   | 1740 | 1140 | 675*675                    | 1575*450 | 1504        |
|                       | 1119 | 4240                   | 1940 | 1140 | 775*775                    | 1775*450 | 1662        |
|                       | 1219 | 4340                   | 1940 | 1240 | 775*775                    | 1775*550 | 1855        |
|                       | 1419 | 4340                   | 1940 | 1440 | 775*775                    | 1775*550 | 2118        |

Remarks  
1. L/W/H should add 50mm when 25 series AHU using 50mm panels.  
2. L refer to the unit length of AHU use wet-film humidifier. L should be recalculated with other type of humidifier. Other type of humidifier, please refer to introduction part of humidifier.  
3. H=100mm

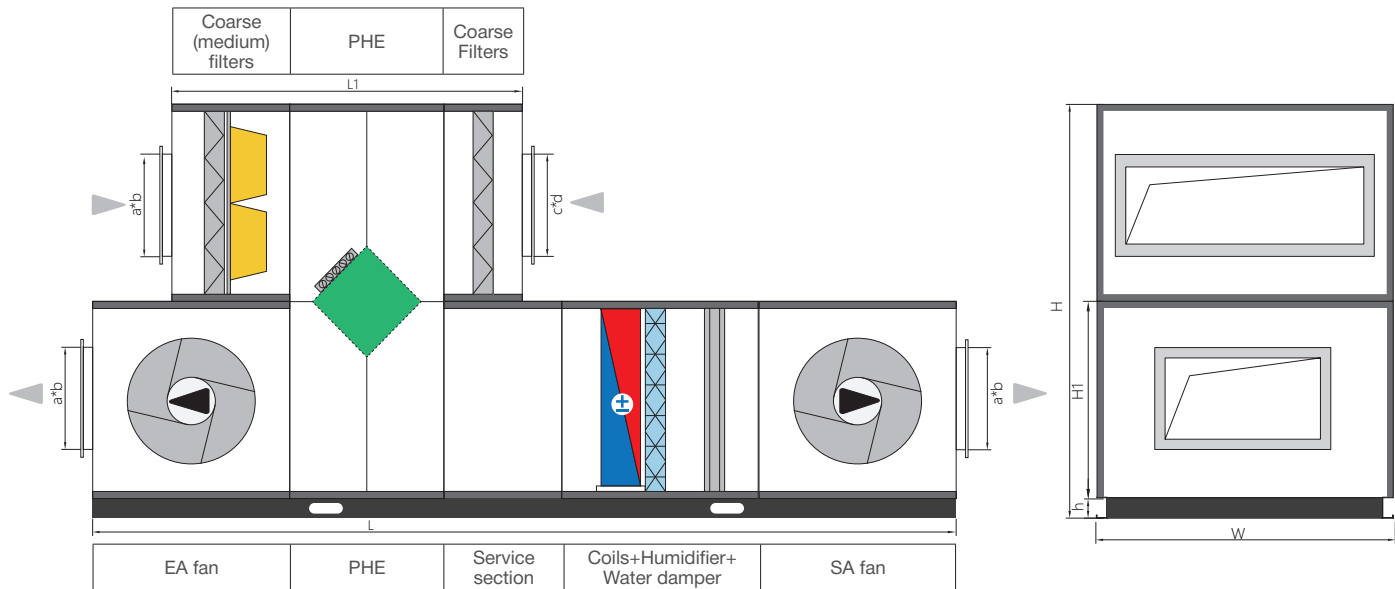
► Plate Heat Exchanger + Coarse (Medium) Filters + Supply Fan



| Casing specifications |      | Dimensions of AHU (mm) |      |      |      |      | Dimensions of flanges (mm) |          | Weight (kg) |
|-----------------------|------|------------------------|------|------|------|------|----------------------------|----------|-------------|
|                       |      | L                      | L1   | H    | W    | W1   | a * b                      | c * d    |             |
| 25mm series           | 0507 | 1840                   | 1540 | 740  | 1180 | 540  | 375*375                    | 575*175  | 342         |
|                       | 0508 | 1840                   | 1540 | 840  | 1180 | 540  | 375*375                    | 675*175  | 390         |
|                       | 0609 | 1840                   | 1540 | 940  | 1380 | 640  | 475*475                    | 775*175  | 527         |
|                       | 0610 | 2040                   | 1540 | 1040 | 1380 | 640  | 475*475                    | 875*175  | 600         |
|                       | 0710 | 2140                   | 1640 | 1040 | 1580 | 740  | 475*475                    | 875*275  | 726         |
|                       | 0811 | 2440                   | 1740 | 1140 | 1780 | 840  | 475*475                    | 975*275  | 957         |
|                       | 0812 | 2440                   | 1740 | 1240 | 1780 | 840  | 475*475                    | 1075*275 | 1032        |
|                       | 0912 | 2440                   | 1740 | 1240 | 1980 | 940  | 475*475                    | 1075*375 | 1160        |
|                       | 0913 | 2640                   | 1740 | 1340 | 1980 | 940  | 575*575                    | 1175*375 | 1258        |
|                       | 1013 | 2840                   | 1940 | 1340 | 2180 | 1040 | 575*575                    | 1175*375 | 1531        |
|                       | 1014 | 2840                   | 1940 | 1440 | 2180 | 1040 | 575*575                    | 1275*375 | 1649        |
|                       | 1115 | 3140                   | 2040 | 1540 | 2380 | 1140 | 575*575                    | 1375*475 | 1795        |
|                       | 1116 | 3340                   | 2240 | 1640 | 2380 | 1140 | 675*675                    | 1475*475 | 2062        |
|                       | 1117 | 3340                   | 2240 | 1740 | 2380 | 1140 | 675*675                    | 1575*475 | 2189        |
|                       | 1119 | 3540                   | 2240 | 1940 | 2380 | 1140 | 775*775                    | 1775*475 | 2249        |
|                       | 1219 | 3540                   | 2240 | 1940 | 2580 | 1240 | 775*775                    | 1775*475 | 2453        |
|                       | 1419 | 3540                   | 2240 | 1940 | 2980 | 1440 | 775*775                    | 1775*575 | 2862        |

Remark:  
1. L/W/H should add 50mm when 25 series AHU using 50mm panels.  
2. H=100mm

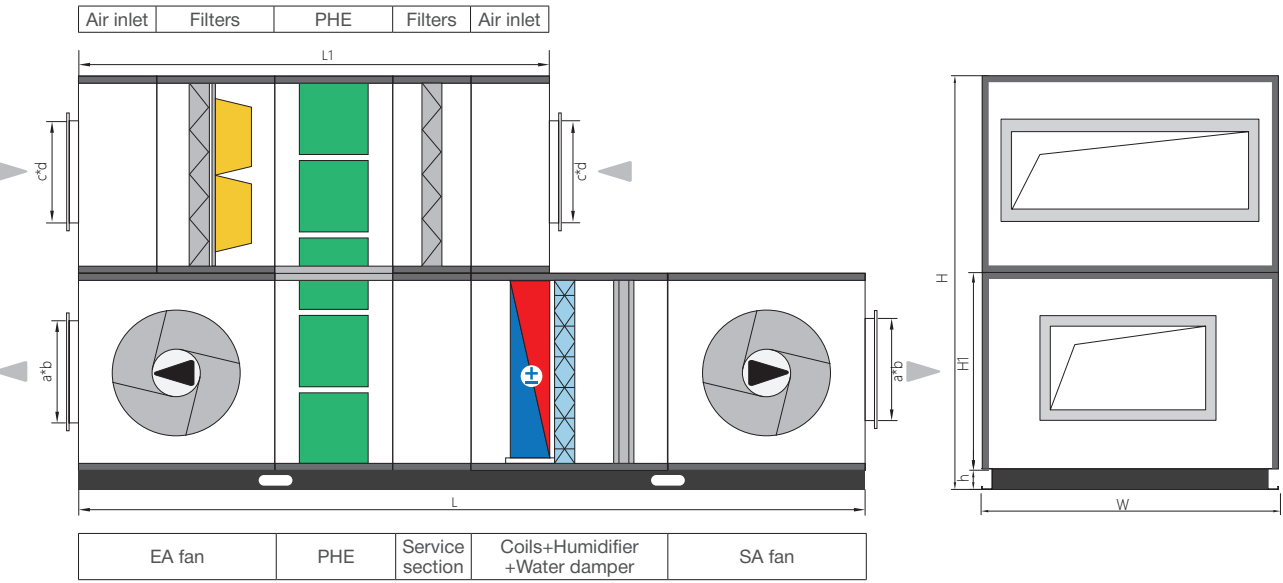
► Plate Heat Exchanger + Coarse (Medium) Filters + Humidifier + Supply Fan



| Casing specifications |      | Dimensions of AHU (mm) |      |      |      |      | Dimensions of flanges (mm) |          | Weight (kg) |
|-----------------------|------|------------------------|------|------|------|------|----------------------------|----------|-------------|
|                       |      | L                      | L1   | H    | W    | W1   | a * b                      | c * d    |             |
| 25mm series           | 0507 | 3040                   | 1540 | 740  | 1180 | 540  | 375*375                    | 575*175  | 449         |
|                       | 0508 | 3040                   | 1540 | 840  | 1180 | 540  | 375*375                    | 675*175  | 512         |
|                       | 0609 | 3040                   | 1540 | 940  | 1380 | 640  | 475*475                    | 775*175  | 693         |
|                       | 0610 | 3240                   | 1540 | 1040 | 1380 | 640  | 475*475                    | 875*175  | 773         |
|                       | 0710 | 3340                   | 1640 | 1040 | 1580 | 740  | 475*475                    | 875*275  | 940         |
|                       | 0811 | 3740                   | 1740 | 1140 | 1780 | 840  | 475*475                    | 975*275  | 1192        |
|                       | 0812 | 3740                   | 1740 | 1240 | 1780 | 840  | 475*475                    | 1075*275 | 1432        |
|                       | 0912 | 3740                   | 1740 | 1240 | 1980 | 940  | 475*475                    | 1075*375 | 1482        |
|                       | 0913 | 3940                   | 1740 | 1340 | 1980 | 940  | 575*575                    | 1175*375 | 1614        |
|                       | 1013 | 4140                   | 1940 | 1340 | 2180 | 1040 | 575*575                    | 1175*375 | 1919        |
|                       | 1014 | 4140                   | 1940 | 1440 | 2180 | 1040 | 575*575                    | 1275*375 | 2066        |
|                       | 1115 | 4440                   | 2040 | 1540 | 2380 | 1140 | 575*575                    | 1375*475 | 2342        |
|                       | 1116 | 4640                   | 2240 | 1640 | 2380 | 1140 | 675*675                    | 1475*475 | 2651        |
|                       | 1117 | 4640                   | 2240 | 1740 | 2380 | 1140 | 675*675                    | 1575*475 | 2818        |
|                       | 1119 | 4840                   | 2240 | 1940 | 2380 | 1140 | 775*775                    | 1775*475 | 3053        |
|                       | 1219 | 4840                   | 2240 | 1940 | 2580 | 1240 | 775*775                    | 1775*475 | 3329        |
|                       | 1419 | 4840                   | 2240 | 1940 | 2980 | 1440 | 775*775                    | 1775*575 | 3801        |

Remarks  
1. L/W/H should add 50mm when 25 series AHU using 50mm panels.  
2. L refer to the unit length of AHU use wet-film humidifier. L should be recalculated with other type of humidifier. Other type of humidifier, please refer to introduction part of humidifier.  
3. H=100mm

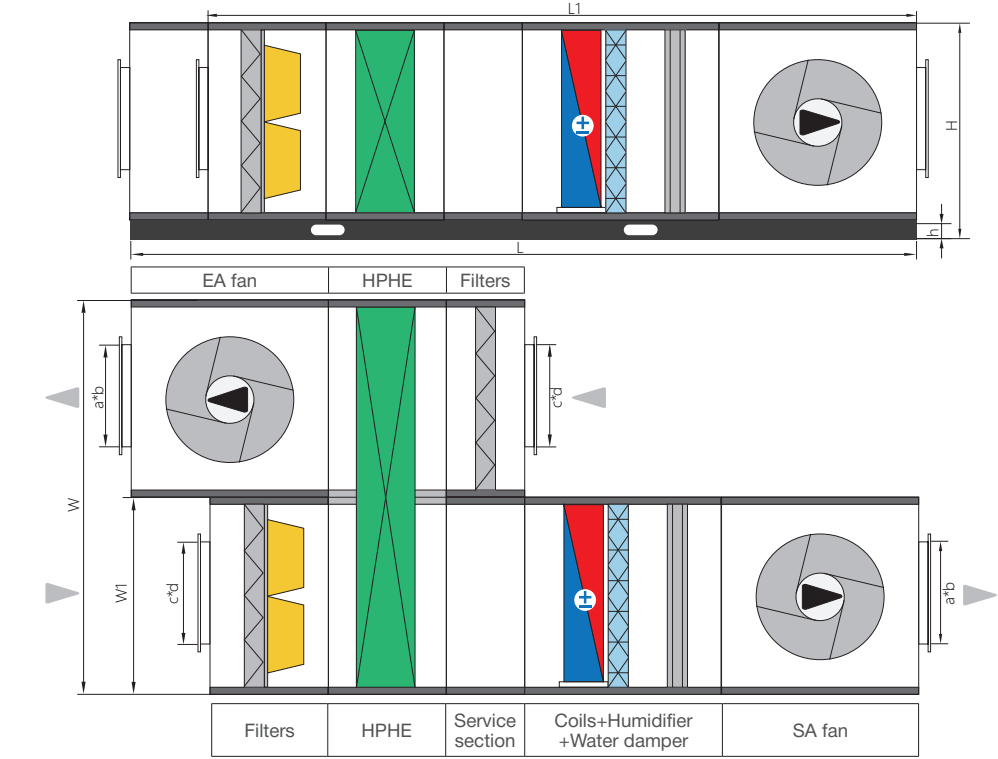
► **Plate Heat Exchanger + Coarse (Medium) Filters + Coils (Heating+Cooling) + Humidifier + Supply Fan**



| Casing specifications |      | Dimensions of AHU (mm) |      |      |      |      | Dimensions of flanges (mm) |           | Weight (kg) |
|-----------------------|------|------------------------|------|------|------|------|----------------------------|-----------|-------------|
|                       |      | L                      | L1   | H    | W    | W1   | a * b                      | c * d     |             |
| 25mm series           | 1421 | 4340                   | 2140 | 2140 | 2980 | 1440 | 775*775                    | 1975*575  | 2557        |
|                       | 1521 | 4340                   | 2140 | 2140 | 3180 | 1540 | 775*775                    | 1975*575  | 2753        |
|                       | 1622 | 4540                   | 2140 | 2240 | 3380 | 1640 | 875*875                    | 2075*675  | 2954        |
|                       | 1625 | 4740                   | 2140 | 2540 | 3380 | 1640 | 875*875                    | 2375*675  | 3094        |
|                       | 1725 | 4940                   | 2340 | 2540 | 3580 | 1740 | 975*975                    | 2375*675  | 3502        |
|                       | 1727 | 4940                   | 2340 | 2740 | 3580 | 1740 | 975*975                    | 2575*675  | 3798        |
| 50mm series           | 1927 | 5390                   | 2390 | 2790 | 4080 | 1990 | 1075*1075                  | 2625*775  | 4435        |
|                       | 1929 | 5590                   | 2390 | 2990 | 4080 | 1990 | 1075*1075                  | 2825*775  | 5026        |
|                       | 2129 | 5590                   | 2390 | 2990 | 4480 | 2190 | 1175*1175                  | 2825*875  | 5381        |
|                       | 2131 | 5790                   | 2390 | 3190 | 4480 | 2190 | 1175*1175                  | 3025*875  | 5679        |
|                       | 2331 | 5790                   | 2390 | 3190 | 4880 | 2390 | 1175*1175                  | 3025*975  | 6239        |
|                       | 2333 | 6390                   | 2590 | 3390 | 4880 | 2390 | 1375*1375                  | 3225*975  | 7348        |
|                       | 2535 | 6390                   | 2590 | 3590 | 5280 | 2590 | 1375*1375                  | 3425*1075 | 8449        |
|                       | 2637 | 6590                   | 2590 | 3790 | 5480 | 2690 | 1475*1475                  | 3625*1175 | 9468        |
|                       | 2839 | 6990                   | 2590 | 3990 | 5880 | 2890 | 1575*1575                  | 3825*1175 | 10547       |

Remark:  
1. L/W/H should add 50mm when 25 series AHU using 50mm panels.  
2. L refer to the unit length of AHU use wet-film humidifier. L should be recalculated with other type of humidifier. Other type of humidifier, please refer to introduction part of humidifier.  
3. H=100mm

► **Heat Pipe Heat Exchanger + Coarse (Medium) Filters + Coils (Heating+Cooling) + Humidifier + Supply Fan**



| Casing specifications |      | Dimensions of AHU (mm) |      |      |      |      | Dimensions of flanges (mm) |           | Weight (kg) |
|-----------------------|------|------------------------|------|------|------|------|----------------------------|-----------|-------------|
|                       |      | L                      | L1   | H    | W    | W1   | a * b                      | c * d     |             |
| 25mm series           | 1108 | 3540                   | 3240 | 1240 | 1680 | 840  | 475*475                    | 375*775   | 1029        |
|                       | 1208 | 3540                   | 3240 | 1340 | 1680 | 840  | 475*475                    | 375*875   | 1109        |
|                       | 1209 | 3540                   | 3240 | 1340 | 1880 | 940  | 475*475                    | 475*775   | 1248        |
|                       | 1309 | 3740                   | 3340 | 1440 | 1880 | 940  | 575*575                    | 475*875   | 1365        |
|                       | 1310 | 3740                   | 3340 | 1440 | 2080 | 1040 | 575*575                    | 575*775   | 1552        |
|                       | 1410 | 3740                   | 3340 | 1540 | 2080 | 1040 | 575*575                    | 575*875   | 1672        |
|                       | 1411 | 3940                   | 3440 | 1540 | 2280 | 1140 | 575*575                    | 675*875   | 1706        |
|                       | 1511 | 3940                   | 3440 | 1640 | 2280 | 1140 | 575*575                    | 675*875   | 1804        |
|                       | 1512 | 3940                   | 3440 | 1640 | 2480 | 1240 | 675*675                    | 775*875   | 2005        |
|                       | 1613 | 3940                   | 3440 | 1740 | 2680 | 1340 | 675*675                    | 875*875   | 2140        |
|                       | 1713 | 4140                   | 3540 | 1840 | 2680 | 1340 | 775*775                    | 875*975   | 2271        |
|                       | 1814 | 4140                   | 3540 | 1940 | 2880 | 1440 | 775*775                    | 975*975   | 2591        |
|                       | 1914 | 4140                   | 3540 | 2040 | 2880 | 1440 | 775*775                    | 975*975   | 2758        |
|                       | 1915 | 4340                   | 3640 | 2040 | 3080 | 1540 | 775*775                    | 1075*975  | 3099        |
|                       | 2016 | 4340                   | 3940 | 2140 | 3280 | 1640 | 775*775                    | 1175*1075 | 3477        |
|                       | 2116 | 4540                   | 4040 | 2240 | 3280 | 1640 | 875*875                    | 1175*1075 | 3812        |
|                       | 2117 | 4540                   | 4040 | 2240 | 3480 | 1740 | 875*875                    | 1275*1075 | 4013        |
|                       | 2217 | 4540                   | 4040 | 2340 | 3480 | 1740 | 875*875                    | 1275*1175 | 4205        |
|                       | 2517 | 4740                   | 4140 | 2640 | 3480 | 1740 | 975*975                    | 1275*1275 | 4042        |
|                       | 2717 | 4740                   | 4140 | 2840 | 3480 | 1740 | 975*975                    | 1275*1375 | 4364        |
| 50mm series           | 2719 | 5390                   | 4490 | 2890 | 3980 | 1990 | 1075*1075                  | 1525*1375 | 5327        |
|                       | 2919 | 5390                   | 4490 | 3090 | 3980 | 1990 | 1075*1075                  | 1525*1475 | 5856        |
|                       | 2921 | 5590                   | 4590 | 3090 | 4380 | 2190 | 1175*1175                  | 1725*1475 | 6705        |
|                       | 3122 | 5590                   | 4590 | 3290 | 4580 | 2290 | 1175*1175                  | 1825*1575 | 7598        |
|                       | 3123 | 5590                   | 4590 | 3290 | 4780 | 2390 | 1175*1175                  | 1925*1575 | 7937        |
|                       | 3324 | 5990                   | 4790 | 3490 | 4980 | 2490 | 1375*1375                  | 2025*1675 | 9450        |
|                       | 3525 | 5990                   | 4790 | 3690 | 5180 | 2590 | 1375*1375                  | 2125*1675 | 10433       |
|                       | 3727 | 6390                   | 4990 | 3890 | 5580 | 2790 | 1475*1475                  | 2325*1775 | 12674       |
|                       | 3928 | 6990                   | 5290 | 4090 | 5780 | 2890 | 1575*1575                  | 2425*1975 | 13731       |

Remarks  
1. L/W/H should add 50mm when 25 series AHU using 50mm panels.  
2. L refer to the unit length of AHU use wet-film humidifier. L should be recalculated with other type of humidifier. Other type of humidifier, please refer to introduction part of humidifier.  
3. H=100mm

► Heat Pipe Heat Exchanger + Coarse (Medium) Filters + Mixed Air Section + Coils (Heating /Cooling) + Humidifier + Supply Fan

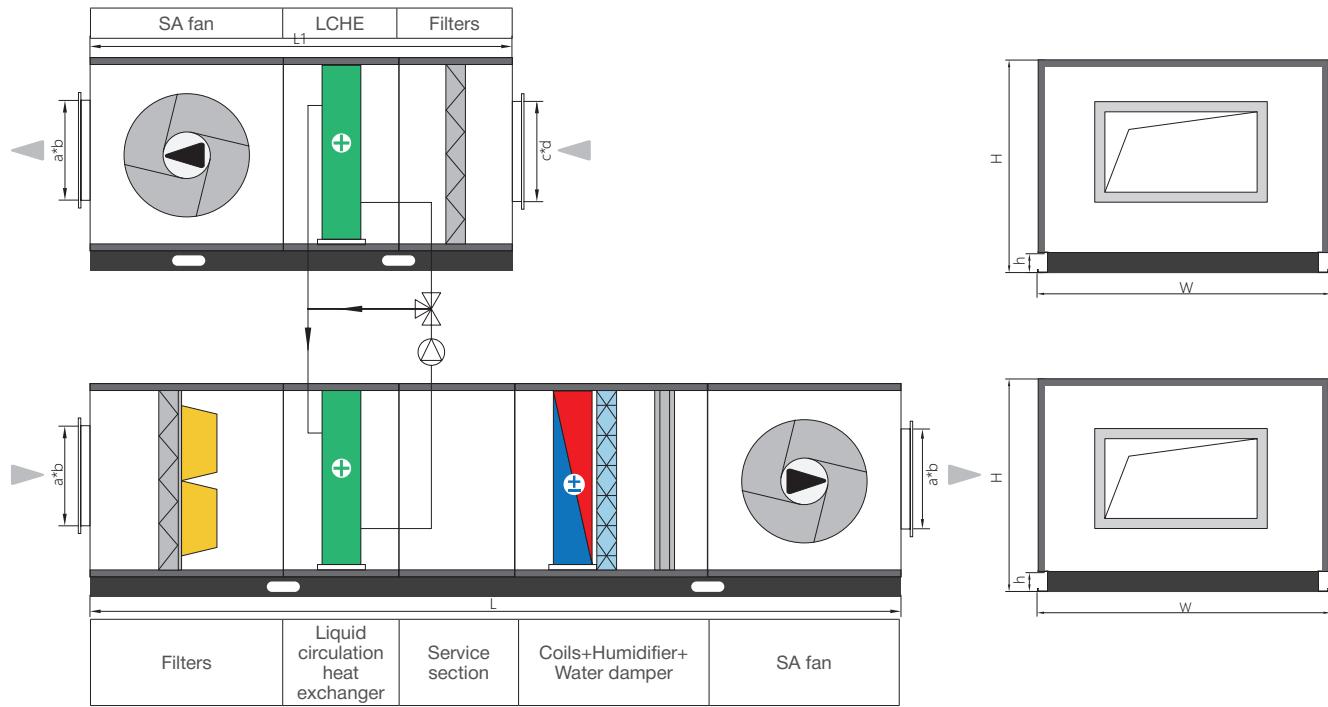


| Casing specifications |      | Dimensions of AHU (mm) |      |      |      |      | Dimensions of flanges (mm) |           | Weight (kg) |
|-----------------------|------|------------------------|------|------|------|------|----------------------------|-----------|-------------|
|                       |      | L                      | L1   | H    | W    | W1   | a * b                      | c * d     |             |
| 25mm series           | 1108 | 4140                   | 3840 | 1240 | 1680 | 840  | 475*475                    | 375*775   | 1212        |
|                       | 1208 | 4140                   | 3840 | 1340 | 1680 | 840  | 475*475                    | 375*875   | 1306        |
|                       | 1209 | 4140                   | 3840 | 1340 | 1880 | 940  | 475*475                    | 475*775   | 1469        |
|                       | 1309 | 4340                   | 3940 | 1440 | 1880 | 940  | 575*575                    | 475*875   | 1597        |
|                       | 1310 | 4340                   | 3940 | 1440 | 2080 | 1040 | 575*575                    | 575*775   | 1816        |
|                       | 1410 | 4340                   | 3940 | 1540 | 2080 | 1040 | 575*575                    | 575*875   | 1956        |
|                       | 1411 | 4540                   | 4040 | 1540 | 2280 | 1140 | 575*575                    | 675*875   | 1984        |
|                       | 1511 | 4540                   | 4040 | 1640 | 2280 | 1140 | 575*575                    | 675*875   | 2098        |
|                       | 1512 | 4540                   | 4040 | 1640 | 2480 | 1240 | 675*675                    | 775*875   | 2332        |
|                       | 1613 | 4540                   | 4040 | 1740 | 2680 | 1340 | 675*675                    | 875*875   | 2488        |
|                       | 1713 | 4740                   | 4140 | 1840 | 2680 | 1340 | 775*775                    | 875*975   | 2626        |
|                       | 1814 | 4740                   | 4140 | 1940 | 2880 | 1440 | 775*775                    | 975*975   | 2996        |
|                       | 1914 | 4740                   | 4140 | 2040 | 2880 | 1440 | 775*775                    | 975*975   | 3189        |
|                       | 1915 | 4940                   | 4240 | 2040 | 3080 | 1540 | 775*775                    | 1075*975  | 3566        |
|                       | 2016 | 4940                   | 4540 | 2140 | 3280 | 1640 | 775*775                    | 1175*1075 | 3981        |
|                       | 2116 | 5140                   | 4640 | 2240 | 3280 | 1640 | 875*875                    | 1175*1075 | 4346        |
|                       | 2117 | 5140                   | 4640 | 2240 | 3480 | 1740 | 875*875                    | 1275*1075 | 4575        |
|                       | 2217 | 5140                   | 4640 | 2340 | 3480 | 1740 | 875*875                    | 1275*1175 | 4794        |
|                       | 2517 | 5340                   | 4740 | 2640 | 3480 | 1740 | 975*975                    | 1275*1275 | 4589        |
|                       | 2717 | 5340                   | 4740 | 2840 | 3480 | 1740 | 975*975                    | 1275*1375 | 4954        |
| 50mm series           | 2719 | 5990                   | 5090 | 2890 | 3980 | 1990 | 1075*1075                  | 1525*1375 | 5975        |
|                       | 2919 | 5990                   | 5090 | 3090 | 3980 | 1990 | 1075*1075                  | 1525*1475 | 6568        |
|                       | 2921 | 6190                   | 5190 | 3090 | 4380 | 2190 | 1175*1175                  | 1725*1475 | 7496        |
|                       | 3122 | 6190                   | 5190 | 3290 | 4580 | 2290 | 1175*1175                  | 1825*1575 | 8494        |
|                       | 3123 | 6190                   | 5190 | 3290 | 4780 | 2390 | 1175*1175                  | 1925*1575 | 8873        |
|                       | 3324 | 6590                   | 5390 | 3490 | 4980 | 2490 | 1375*1375                  | 2025*1675 | 10502       |
|                       | 3525 | 6590                   | 5390 | 3690 | 5180 | 2590 | 1375*1375                  | 2125*1675 | 11595       |
|                       | 3727 | 6990                   | 5590 | 3890 | 5580 | 2790 | 1475*1475                  | 2325*1775 | 14011       |
|                       | 3928 | 7590                   | 5890 | 4090 | 5780 | 2890 | 1575*1575                  | 2425*1975 | 15073       |

Remark:

1. L/W/H should add 50mm when 25 series AHU using 50mm panels.
2. L refer to the unit length of AHU use wet-film humidifier. L should be recalculated with other type of humidifier. Other type of humidifier, please refer to introduction part of humidifier.
3. H=100mm

► Liquid Circulation Heat Exchanger



| Casing specifications |      | Dimensions of AHU (mm) |      |      |      | Dimensions of flanges (mm) |           | Weight of exhaust fan unit(kg) | Weight of fresh air fan unit (kg) |
|-----------------------|------|------------------------|------|------|------|----------------------------|-----------|--------------------------------|-----------------------------------|
|                       |      | L                      | L1   | W    | H    | a * b                      | c * d     |                                |                                   |
| 25mm series           | 0507 | 2840                   | 1740 | 740  | 640  | 375*375                    | 575*175   | 276                            | 183                               |
|                       | 0508 | 2840                   | 1740 | 840  | 640  | 375*375                    | 675*175   | 315                            | 209                               |
|                       | 0609 | 2840                   | 1740 | 940  | 740  | 475*475                    | 775*175   | 426                            | 283                               |
|                       | 0610 | 2940                   | 1840 | 1040 | 740  | 475*475                    | 875*175   | 471                            | 319                               |
|                       | 0710 | 2940                   | 1840 | 1040 | 840  | 475*475                    | 875*275   | 550                            | 373                               |
|                       | 0811 | 3140                   | 1940 | 1140 | 940  | 475*475                    | 975*275   | 677                            | 453                               |
|                       | 0812 | 3140                   | 1940 | 1240 | 940  | 475*475                    | 1075*275  | 814                            | 545                               |
|                       | 0912 | 3140                   | 1940 | 1240 | 1040 | 475*475                    | 1075*375  | 842                            | 564                               |
|                       | 0913 | 3240                   | 2040 | 1340 | 1040 | 575*575                    | 1175*375  | 913                            | 575                               |
|                       | 1013 | 3240                   | 2040 | 1340 | 1140 | 575*575                    | 1175*375  | 1014                           | 638                               |
|                       | 1014 | 3240                   | 2040 | 1440 | 1140 | 575*575                    | 1275*375  | 1091                           | 687                               |
|                       | 1115 | 3340                   | 2140 | 1540 | 1240 | 575*575                    | 1375*475  | 1197                           | 767                               |
|                       | 1116 | 3340                   | 2140 | 1640 | 1240 | 675*675                    | 1475*475  | 1276                           | 818                               |
|                       | 1117 | 3340                   | 2140 | 1740 | 1240 | 675*675                    | 1575*475  | 1356                           | 869                               |
|                       | 1119 | 3440                   | 2240 | 1940 | 1240 | 775*775                    | 1775*475  | 1471                           | 958                               |
|                       | 1219 | 3440                   | 2240 | 1940 | 1340 | 775*775                    | 1775*475  | 1604                           | 1045                              |
|                       | 1419 | 3440                   | 2240 | 1940 | 1540 | 775*775                    | 1775*575  | 1832                           | 1193                              |
|                       | 1421 | 4440                   | 3240 | 2140 | 1540 | 775*775                    | 1975*575  | 2057                           | 1570                              |
|                       | 1521 | 4440                   | 3240 | 2140 | 1640 | 775*775                    | 1975*575  | 2203                           | 1681                              |
|                       | 1622 | 4540                   | 3340 | 2240 | 1740 | 875*875                    | 2075*675  | 2335                           | 1796                              |
| 50mm series           | 1625 | 4640                   | 3440 | 2540 | 1740 | 875*875                    | 2375*675  | 2419                           | 1875                              |
|                       | 1725 | 4640                   | 3440 | 2540 | 1840 | 975*975                    | 2375*675  | 2570                           | 1992                              |
|                       | 1727 | 4640                   | 3440 | 2740 | 1840 | 975*975                    | 2575*675  | 2775                           | 2058                              |
|                       | 1927 | 4890                   | 3690 | 2790 | 2090 | 1075*1075                  | 2625*775  | 3173                           | 2395                              |
|                       | 1929 | 4990                   | 3790 | 2990 | 2090 | 1075*1075                  | 2825*775  | 3559                           | 2703                              |
|                       | 2129 | 4990                   | 3790 | 2990 | 2290 | 1175*1175                  | 2825*875  | 3801                           | 2887                              |
|                       | 2131 | 5090                   | 3890 | 3190 | 2290 | 1175*1175                  | 3025*875  | 3984                           | 3045                              |
|                       | 2331 | 5090                   | 3890 | 3190 | 2490 | 1175*1175                  | 3025*975  | 4165                           | 3335                              |
|                       | 2333 | 5290                   | 4090 | 3390 | 2490 | 1375*1375                  | 3225*975  | 4623                           | 3745                              |
|                       | 2535 | 5290                   | 4090 | 3590 | 2690 | 1375*1375                  | 3425*1075 | 5297                           | 4290                              |

Remarks

1. L/W/H should add 50mm when 25 series AHU using 50mm panels.
2. L refer to the unit length of AHU use wet-film humidifier. L should be recalculated with other type of humidifier. Other type of humidifier, please refer to introduction part of humidifier.
3. H=100mm

► Fresh Air Cooling Conditions

| Casing specifications | Rated airflow (m³/h) | 4 rows                |                        |                           |                                    | 6 rows                |                        |                           |                                    | 8 rows                |                        |                           |                                    |
|-----------------------|----------------------|-----------------------|------------------------|---------------------------|------------------------------------|-----------------------|------------------------|---------------------------|------------------------------------|-----------------------|------------------------|---------------------------|------------------------------------|
|                       |                      | Cooling capacity (Kw) | Water flow rate (Kg/s) | Water pressure drop (kPa) | Water inlet/ outlet specifications | Cooling capacity (Kw) | Water flow rate (Kg/s) | Water pressure drop (kPa) | Water inlet/ outlet specifications | Cooling capacity (Kw) | Water flow rate (Kg/s) | Water pressure drop (kPa) | Water inlet/ outlet specifications |
| 0507                  | 1890                 | 20                    | 0.93                   | 7                         | DN32                               | 23                    | 1.1                    | 5.1                       | DN40                               | 28                    | 1.36                   | 11                        | DN40                               |
| 0508                  | 2250                 | 25                    | 1.2                    | 11.8                      | DN40                               | 29                    | 1.4                    | 8.8                       | DN50                               | 33                    | 1.6                    | 6.4                       | DN50                               |
| 0609                  | 3263                 | 37                    | 1.8                    | 18.6                      | DN50                               | 44                    | 2.1                    | 12.4                      | DN50                               | 49                    | 2.3                    | 10.2                      | DN65                               |
| 0610                  | 3713                 | 43                    | 2                      | 25.3                      | DN50                               | 50                    | 2.4                    | 18                        | DN65                               | 57                    | 2.7                    | 13.7                      | DN65                               |
| 0710                  | 4455                 | 51                    | 2.5                    | 28.2                      | DN65                               | 60                    | 2.9                    | 18                        | DN65                               | 68                    | 3.3                    | 13.8                      | DN65                               |
| 0811                  | 5115                 | 59                    | 2.8                    | 17.4                      | DN65                               | 78                    | 3.7                    | 35.5                      | DN65                               | 86                    | 4.1                    | 25                        | DN65                               |
| 0812                  | 5687                 | 67                    | 3.2                    | 22.2                      | DN65                               | 87                    | 4.2                    | 45                        | DN65                               | 91                    | 4.4                    | 11.3                      | DN65                               |
| 0912                  | 6824                 | 81                    | 3.9                    | 22.2                      | DN65                               | 97                    | 4.6                    | 16.9                      | DN80                               | 110                   | 5.2                    | 12.6                      | DN80                               |
| 0913                  | 7510                 | 90                    | 4.3                    | 27.6                      | DN65                               | 110                   | 5.2                    | 21.3                      | DN80                               | 123                   | 5.9                    | 15.7                      | DN80                               |
| 1013                  | 8024                 | 96                    | 4.6                    | 26.9                      | DN65                               | 117                   | 5.6                    | 20.7                      | DN80                               | 131                   | 6.3                    | 15.3                      | DN80                               |
| 1014                  | 8767                 | 106                   | 5.1                    | 36.3                      | DN80                               | 130                   | 6.2                    | 25.5                      | DN80                               | 144                   | 6.9                    | 18.6                      | DN80                               |
| 1115                  | 10973                | 115                   | 5.5                    | 7.3                       | DN80                               | 165                   | 7.9                    | 30.8                      | DN80                               | 182                   | 8.7                    | 22.3                      | DN80                               |
| 1116                  | 11831                | 127                   | 6.1                    | 8.8                       | DN80                               | 179                   | 8.6                    | 36.6                      | DN80                               | 198                   | 9.5                    | 26.4                      | DN80                               |
| 1117                  | 12688                | 140                   | 6.7                    | 10.5                      | DN80                               | 194                   | 9.3                    | 43                        | DN80                               | 214                   | 10.2                   | 31                        | DN80                               |
| 1119                  | 14402                | 163                   | 7.8                    | 14.3                      | DN80                               | 223                   | 10.6                   | 57.2                      | DN80                               | 238                   | 9.5                    | 28.2                      | DN80                               |
| 1219                  | 16323                | 185                   | 8.8                    | 14.3                      | DN80                               | 243                   | 9.7                    | 38.9                      | DN80                               | 270                   | 10.7                   | 28.2                      | DN80                               |
| 1419                  | 18080                | 203                   | 9.7                    | 13.8                      | DN80*2                             | 245                   | 11.9                   | 9.5                       | DN80*2                             | 307                   | 14.6                   | 40                        | DN80*2                             |
| 1421                  | 20252                | 234                   | 11.2                   | 18.2                      | DN80*2                             | 282                   | 13.5                   | 17                        | DN80*2                             | 319                   | 15.2                   | 9.3                       | DN80*2                             |
| 1521                  | 22383                | 260                   | 12.4                   | 18.5                      | DN80*2                             | 337                   | 13.4                   | 49.7                      | DN80*2                             | 374                   | 14.9                   | 36                        | DN80*2                             |
| 1622                  | 24706                | 290                   | 13.9                   | 20.9                      | DN80*2                             | 360                   | 12.3                   | 40                        | DN80*2                             | 415                   | 16.5                   | 40.7                      | DN80*2                             |
| 1625                  | 28478                | 341                   | 16.3                   | 28.8                      | DN80*2                             | 407                   | 12.2                   | 41.8                      | DN80*2                             | 470                   | 16                     | 41                        | DN80*2                             |
| 1725                  | 31067                | 372                   | 17.7                   | 28.8                      | DN80*2                             | 444                   | 13.3                   | 41.8                      | DN80*2                             | 513                   | 17.5                   | 41                        | DN80*2                             |
| 1727                  | 33810                | 408                   | 19.4                   | 34.8                      | DN80*2                             | 489                   | 14.6                   | 51.3                      | DN80*2                             | 564                   | 19.2                   | 50                        | DN80*2                             |
| 1927                  | 38037                | 440                   | 17.5                   | 23.5                      | DN80*2                             | 550                   | 16.4                   | 51.3                      | DN80*2                             | 613                   | 18.3                   | 37.5                      | DN80*2                             |
| 1929                  | 41123                | 480                   | 19.1                   | 28.1                      | DN80*2                             | 578                   | 15.4                   | 47.3                      | DN80*2                             | 669                   | 20                     | 45.3                      | DN80*2                             |
| 2129                  | 45692                | 533                   | 21.2                   | 28.1                      | DN80*2                             | 642                   | 17.1                   | 47.3                      | DN80*2                             | 719                   | 19.1                   | 34.8                      | DN80*2                             |
| 2131                  | 49121                | 553                   | 18.8                   | 23.5                      | DN80*2                             | 697                   | 18.5                   | 56.5                      | DN80*2                             | 780                   | 20.7                   | 41.6                      | DN80*2                             |
| 2331                  | 54033                | 608                   | 20.8                   | 23.5                      | DN80*2                             | 767                   | 20.4                   | 56.5                      | DN80*2                             | 829                   | 19.8                   | 32.6                      | DN80*2                             |
| 2333                  | 57805                | 623                   | 18.6                   | 20                        | DN80*2                             | 798                   | 19                     | 52                        | DN80*2                             | 895                   | 21.2                   | 40.8                      | DN80*2                             |
| 2535                  | 67175                | 700                   | 18.5                   | 16.7                      | DN80*2                             | 907                   | 19.7                   | 46.7                      | DN80*2                             | 1058                  | 25.3                   | 46.1                      | DN80*2                             |
| 2637                  | 75250                | 788                   | 21                     | 20.1                      | DN80*2                             | 1017                  | 22.1                   | 59.2                      | DN80*2                             | 1211                  | 28.9                   | 59.1                      | DN80*2                             |
| 2839                  | 85877                | 848                   | 28.5                   | 17.8                      | DN80*2                             | 1115                  | 22.2                   | 56.3                      | DN80*2                             | 1308                  | 28.4                   | 52.4                      | DN80*2                             |
| 1108                  | 5187                 | 53                    | 2.5                    | 6.3                       | DN65                               | 72                    | 3.4                    | 13.7                      | DN65                               | 81                    | 3.9                    | 10.3                      | DN65                               |
| 1208                  | 5878                 | 60                    | 2.9                    | 6.3                       | DN65                               | 81                    | 3.9                    | 13.7                      | DN65                               | 92                    | 4.4                    | 10                        | DN65                               |
| 1209                  | 6850                 | 73                    | 3.5                    | 9.4                       | DN65                               | 90                    | 4.3                    | 6.6                       | DN65                               | 110                   | 5.2                    | 15.5                      | DN80                               |
| 1309                  | 7253                 | 78                    | 3.7                    | 9.4                       | DN65                               | 95                    | 4.5                    | 6.6                       | DN65                               | 117                   | 5.6                    | 16                        | DN80                               |
| 1310                  | 8127                 | 90                    | 4.3                    | 12.5                      | DN65                               | 109                   | 5.2                    | 9.6                       | DN65                               | 124                   | 5.9                    | 7.3                       | DN80                               |
| 1410                  | 9030                 | 100                   | 4.8                    | 14                        | DN80                               | 121                   | 5.8                    | 9.6                       | DN80                               | 138                   | 6.6                    | 7.3                       | DN80                               |
| 1411                  | 10173                | 116                   | 5.6                    | 18.7                      | DN80                               | 140                   | 6.7                    | 12.8                      | DN80                               | 159                   | 7.6                    | 9.6                       | DN80                               |
| 1511                  | 10682                | 122                   | 5.9                    | 16.7                      | DN65*2                             | 147                   | 7.1                    | 11.5                      | DN65*2                             | 166                   | 8                      | 8.6                       | DN65*2                             |
| 1512                  | 11882                | 139                   | 6.7                    | 21.6                      | DN65*2                             | 168                   | 8                      | 14.8                      | DN65*2                             | 189                   | 9                      | 12.2                      | DN80*2                             |
| 1613                  | 13705                | 163                   | 7.8                    | 26.9                      | DN65*2                             | 198                   | 9.4                    | 20.7                      | DN80*2                             | 222                   | 10.6                   | 15.3                      | DN80*2                             |
| 1713                  | 14951                | 177                   | 8.5                    | 26.9                      | DN65*2                             | 216                   | 10.3                   | 20.7                      | DN80*2                             | 242                   | 11.5                   | 15.3                      | DN80*2                             |
| 1814                  | 17003                | 204                   | 9.8                    | 36.3                      | DN80*2                             | 250                   | 11.9                   | 25.5                      | DN80*2                             | 277                   | 13.3                   | 18.6                      | DN80*2                             |
| 1914                  | 18131                | 216                   | 10.4                   | 35.3                      | DN80*2                             | 266                   | 12.7                   | 24.8                      | DN80*2                             | 297                   | 14.2                   | 18.2                      | DN80*2                             |
| 1915                  | 19674                | 237                   | 11.3                   | 42.1                      | DN80*2                             | 293                   | 13.9                   | 30                        | DN80*2                             | 324                   | 15.4                   | 21.7                      | DN80*2                             |
| 2016                  | 22003                | 259                   | 10.3                   | 34.4                      | DN80*2                             | 331                   | 15.8                   | 35.7                      | DN80*2                             | 366                   | 17.5                   | 25.8                      | DN80*2                             |
| 2116                  | 23575                | 275                   | 10.9                   | 34                        | DN80*2                             | 354                   | 16.9                   | 35.7                      | DN80*2                             | 392                   | 18.7                   | 25.8                      | DN80*2                             |
| 2117                  | 25289                | 297                   | 11.8                   | 39.7                      | DN80*2                             | 383                   | 18.3                   | 42                        | DN80*2                             | 424                   | 20.2                   | 30.3                      | DN80*2                             |
| 2217                  | 26975                | 317                   | 12.6                   | 39.7                      | DN80*2                             | 409                   | 19.5                   | 42                        | DN80*2                             | 452                   | 21.6                   | 30.3                      | DN80*2                             |
| 2517                  | 30347                | 365                   | 14.2                   | 39.7                      | DN80*2                             | 440                   | 17.5                   | 28.2                      | DN80*2                             | 490                   | 19.5                   | 20.6                      | DN80*2                             |
| 2717                  | 32876                | 386                   | 15.4                   | 39.7                      | DN80*2                             | 476                   | 18.9                   | 28.2                      | DN80*2                             | 511                   | 17.4                   | 14.7                      | DN80*2                             |
| 2719                  | 37334                | 427                   | 14.6                   | 37.9                      | DN80*2                             | 527                   | 18                     | 26.9                      | DN80*2                             | 593                   | 20.3                   | 20                        | DN80*2                             |
| 2919                  | 40206                | 452                   | 21.6                   | 14                        | DN80*3                             | 594                   | 23.6                   | 38                        | DN80*3                             | 659                   | 26.2                   | 27.6                      | DN80*3                             |
| 2921                  | 45006                | 521                   | 25                     | 18.5                      | DN80*3                             | 674                   | 26.8                   | 49.7                      | DN80*3                             | 748                   | 29.8                   | 36                        | DN80*3                             |
| 3122                  | 50793                | 594                   | 28.3                   | 20.9                      | DN80*3                             | 737                   | 25.1                   | 40                        | DN80*3                             | 820                   | 28                     | 29.2                      | DN80*3                             |
| 3123                  | 53364                | 629                   | 30                     | 23.4                      | DN80*3                             | 780                   | 26.6                   | 45.2                      | DN80*3                             | 867                   | 29.6                   | 32.9                      | DN80*3                             |
| 3324                  | 59665                | 668                   | 26.6                   | 17.1                      | DN80*3                             | 877                   | 30                     | 50.5                      | DN80*3                             | 942                   | 28.2                   | 27.4                      | DN80*3                             |
| 3525                  | 66309                | 702                   | 24                     | 13                        | DN80*3                             | 944                   | 28.2                   | 41.8                      | DN80*3                             | 1053                  | 31.4                   | 30.6                      | DN80*3                             |
| 3727                  | 76381                | 773                   | 23.1                   | 11.4                      | DN80*3                             | 1058                  | 28.1                   | 39                        | DN80*3                             | 1186                  | 31.5                   | 28.8                      | DN80*3                             |
| 3928                  | 85354                | 873                   | 26.1                   | 12.6                      | DN80*3                             | 1138                  | 27.2                   | 33.2                      | DN80*3                             | 1285                  | 30.7                   | 24.8                      | DN80*3                             |

Remark:

1. Chilled water inlet and outlet temperature 7°C/12°C, with coil face velocity 2.5m/s.
2. Air inlet DB/WB temperature 35°C/28°C.
3. The above sheet are for the coil performance, performance data of AHU should be subject to AHU selection report.

► Return Air Cooling Conditions

| Casing specifications | Rated airflow (m³/h) | 4 rows                |                        |                           |                                    | 6 rows                |                        |                           |                                    | 8 rows                |                        |                           |                                    |
|-----------------------|----------------------|-----------------------|------------------------|---------------------------|------------------------------------|-----------------------|------------------------|---------------------------|------------------------------------|-----------------------|------------------------|---------------------------|------------------------------------|
|                       |                      | Cooling capacity (Kw) | water flow rate (Kg/s) | Water pressure drop (kPa) | Water inlet/ outlet specifications | Cooling capacity (Kw) | water flow rate (Kg/s) | Water pressure drop (kPa) | Water inlet/ outlet specifications | Cooling capacity (Kw) | water flow rate (Kg/s) | Water pressure drop (kPa) | Water inlet/ outlet specifications |
| 0507                  | 1890                 | 9                     | 0.43                   | 10.3                      | DN32                               | 10                    | 0.49                   | 6.3                       | DN32                               | 12                    | 1.36                   | 8.9                       | DN32                               |
| 0508                  | 2250                 | 10                    | 0.49                   | 6.2                       | DN32                               | 13                    | 0.61                   | 9.8                       | DN32                               | 14                    | 1.6                    | 7.3                       | DN32                               |
| 0609                  | 3263                 | 16                    | 0.75                   | 8.8                       | DN32                               | 18                    | 0.85                   | 6                         | DN32                               | 22                    | 2.3                    | 10.9                      | DN40                               |
| 0610                  | 3713                 | 18                    | 0.88                   | 12.2                      | DN32                               | 21                    | 0.8                    | 8.3                       | DN32                               | 24                    | 2.7                    | 6.4                       | DN40                               |
| 0710                  | 4455                 | 22                    | 1.1                    | 14.4                      | DN40                               | 25                    | 1.21                   | 8.8                       | DN40                               | 28                    | 3.3                    | 6.5                       | DN40                               |
| 0811                  | 5115                 | 26                    | 1.23                   | 8.2                       | DN40                               | 31                    | 1.5                    | 6.44                      | DN50                               | 36                    | 4.1                    | 10.6                      | DN50                               |
| 0812                  | 5687                 | 29                    | 1.4                    | 11.5                      | DN50                               | 35                    | 1.7                    | 8.3                       | DN50                               | 41                    | 4.4                    | 13.7                      | DN50                               |
| 0912                  | 6824                 | 36                    | 1.7                    | 12.8                      | DN50                               | 42                    | 2                      | 8.3                       | DN50                               | 49                    | 5.2                    | 14.6                      | DN65                               |
| 0913                  | 7510                 | 40                    | 1.9                    | 16.2                      | DN50                               | 47                    | 2.23                   | 10.5                      | DN65                               | 52                    | 5.9                    | 8.26                      | DN65                               |
| 1013                  | 8024                 | 42                    | 2                      | 14.5                      | DN50                               | 50                    | 2.4                    | 11                        | DN65                               | 55                    | 6.3                    | 7.85                      | DN65                               |
| 1014                  | 8767                 | 47                    | 2.25                   | 18.1                      | DN50                               | 56                    | 2.7                    | 13.7                      | DN65                               | 62                    | 6.9                    | 9.75                      | DN65                               |
| 1115                  | 10973                | 55                    | 2.6                    | 8.32                      | DN65                               | 71                    | 3.4                    | 16.7                      | DN65                               | 78                    | 8.7                    | 12                        | DN65                               |
| 1116                  | 11831                | 61                    | 2.9                    | 10.1                      | DN65                               | 71                    | 3.4                    | 6.6                       | DN65                               | 86                    | 9.5                    | 14.6                      | DN65                               |
| 1117                  | 12688                | 66                    | 3.2                    | 12.1                      | DN65                               | 77                    | 3.7                    | 7.84                      | DN65                               | 93                    | 10.2                   | 17.3                      | DN65                               |
| 1119                  | 14402                | 77                    | 3.7                    | 16.5                      | DN65                               | 90                    | 4.3                    | 10.7                      | DN65                               | 100                   | 9.5                    | 8.5                       | DN80                               |
| 1219                  | 16323                | 87                    | 4.2                    | 16.5                      | DN65                               | 102                   | 4.9                    | 11.7                      | DN80                               | 113                   | 10.7                   | 8.5                       | DN80                               |
| 1419                  | 18080                | 95                    | 4.56                   | 15.9                      | DN65*2                             | 112                   | 5.3                    | 10.3                      | DN65*2                             | 124                   | 14.6                   | 7.5                       | DN65*2                             |
| 1421                  | 20252                | 112                   | 5.3                    | 22.1                      | DN65*2                             | 128                   | 6.1                    | 13.7                      | DN65*2                             | 142                   | 15.2                   | 9.9                       | DN65*2                             |
| 1521                  | 22383                | 125                   | 6                      | 22.4                      | DN65*2                             | 142                   | 6.8                    | 13.9                      | DN65*2                             | 158                   | 14.9                   | 10.1                      | DN65*2                             |
| 1622                  | 24706                | 139                   | 6.6                    | 25.5                      | DN65*2                             | 159                   | 7.6                    | 15.8                      | DN65*2                             | 176                   | 16.5                   | 11.5                      | DN65*2                             |
| 1625                  | 28478                | 163                   | 7.8                    | 35.9                      | DN65*2                             | 198                   | 9.4                    | 26.8                      | DN80*2                             | 208                   | 16                     | 17.8                      | DN80*2                             |
| 1725                  | 31067                | 178                   | 8.5                    | 35.9                      | DN65*2                             | 216                   | 10.3                   | 26.8                      | DN80*2                             | 227                   | 17.5                   | 17.8                      | DN80*2                             |
| 1727                  | 33810                | 195                   | 9.3                    | 47.4                      | DN80*2                             | 238                   | 11.4                   | 33                        | DN80*2                             | 251                   | 19.2                   | 21.9                      | DN80*2                             |
| 1927                  | 38037                | 220                   | 10.4                   | 47.4                      | DN80*2                             | 268                   | 12.8                   | 33                        | DN80*2                             | 282                   | 18.3                   | 21.9                      | DN80*2                             |
| 1929                  | 41123                | 238                   | 11.4                   | 56.7                      | DN80*2                             | 293                   | 13.9                   | 39.9                      | DN80*2                             | 311                   | 20                     | 26.9                      | DN80*2                             |
| 2129                  | 45692                | 264                   | 12.6                   | 56.7                      | DN80*2                             | 325                   | 15.5                   | 39.9                      | DN80*2                             | 345                   | 19.1                   | 26.9                      | DN80*2                             |
| 2131                  | 49121                | 272                   | 10.8                   | 44.9                      | DN80*2                             | 352                   | 16.8                   | 47.6                      | DN80*2                             | 374                   | 20.7                   | 32                        | DN80*2                             |
| 2331                  | 54033                | 299                   | 11.9                   | 44.9                      | DN80*2                             | 387                   | 18.5                   | 47.6                      | DN80*2                             | 412                   | 19.8                   | 32                        | DN80*2                             |
| 2333                  | 57805                | 322                   | 12.8                   | 52.7                      | DN80*2                             | 417                   | 20                     | 56                        | DN80*2                             | 444                   | 21.2                   | 40                        | DN80*2                             |
| 2535                  | 67175                | 357                   | 12.2                   | 42.8                      | DN80*2                             | 463                   | 18.5                   | 43.5                      | DN80*2                             | 491                   | 25.3                   | 29.1                      | DN80*2                             |
| 2637                  | 75250                | 402                   | 13.7                   | 49.5                      | DN80*2                             | 523                   | 20.8                   | 50.5                      | DN80*2                             | 554                   | 28.9                   | 35.7                      | DN80*2                             |
| 2839                  | 85877                | 455                   | 15.5                   | 58                        | DN80*2                             | 564                   | 19.2                   | 41.5                      | DN80*2                             | 595                   | 28.4                   | 27.6                      | DN80*3                             |
| 1108                  | 5187                 | 25                    | 1.2                    | 6.6                       | DN40                               | 31                    | 1.5                    | 10.4                      | DN50                               | 36                    | 1.7                    | 12.8                      | DN50                               |
| 1208                  | 5878                 | 28                    | 1.3                    | 6.7                       | DN40                               | 35                    | 1.7                    | 9.8                       | DN50                               | 41                    | 2                      | 12.4                      | DN50                               |
| 1209                  | 6850                 | 34                    | 1.6                    | 10.7                      | DN50                               | 41                    | 1.9                    | 7.6                       | DN50                               | 48                    | 2.3                    | 11.1                      | DN50                               |
| 1309                  | 7253                 | 37                    | 1.8                    | 12.1                      | DN50                               | 43                    | 2.1                    | 7.9                       | DN50                               | 50                    | 2.4                    | 11.4                      | DN65                               |
| 1310                  | 8127                 | 39                    | 1.9                    | 7                         | DN50                               | 50                    | 2.4                    | 11.3                      | DN65                               | 56                    | 2.7                    | 8.3                       | DN65                               |
| 1410                  | 9030                 | 44                    | 2.1                    | 6.8                       | DN50                               | 56                    | 2.6                    | 11.3                      | DN65                               | 62                    | 3                      | 8.3                       | DN65                               |
| 1411                  | 10173                | 51                    | 2.4                    | 10                        | DN65                               | 60                    | 2.9                    | 6.8                       | DN65                               | 71                    | 3.4                    | 11                        | DN65                               |
| 1511                  | 10682                | 53                    | 2.5                    | 8.3                       | DN40*2                             | 67                    | 3.2                    | 14                        | DN50*2                             | 74                    | 3.5                    | 10                        | DN50*2                             |
| 1512                  | 11882                | 61                    | 2.9                    | 11.8                      | DN50*2                             | 72                    | 3.4                    | 8.1                       | DN50*2                             | 85                    | 4                      | 13.2                      | DN50*2                             |
| 1613                  | 13705                | 72                    | 3.4                    | 15                        | DN50*2                             | 85                    | 4                      | 10.2                      | DN50*2                             | 93                    | 4.5                    | 7.1                       | DN65*2                             |
| 1713                  | 14951                | 79                    | 3.76                   | 15.8                      | DN50*2                             | 92                    | 4.4                    | 10.2                      | DN50*2                             | 102                   | 4.9                    | 8                         | DN65*2                             |
| 1814                  | 17003                | 83                    | 3.9                    | 6.1                       | DN50*2                             | 106                   | 5.1                    | 13.7                      | DN65*2                             | 119                   | 5.6                    | 9.9                       | DN65*2                             |
| 1914                  | 18131                | 87                    | 4.2                    | 5.9                       | DN50*2                             | 114                   | 5.4                    | 13.3                      | DN65*2                             | 126                   | 6                      | 9.4                       | DN65*2                             |
| 1915                  | 19674                | 98                    | 4.6                    | 8.1                       | DN65*2                             | 125                   | 6                      | 16.2                      | DN65*2                             | 139                   | 6.6                    | 11.4                      | DN65*2                             |
| 2016                  | 22003                | 111                   | 5.3                    | 9.8                       | DN65*2                             | 131                   | 6.3                    | 6.4                       | DN65*2                             | 157                   | 7.5                    | 13.7                      | DN65*2                             |
| 2116                  | 23575                | 119                   | 5.7                    | 9.8                       | DN65*2                             | 140                   | 6.7                    | 6.4                       | DN65*2                             | 169                   | 8.1                    | 14.2                      | DN65*2                             |
| 2117                  | 25289                | 130                   | 6.2                    | 11.7                      | DN65*2                             | 153                   | 7.3                    | 7.6                       | DN65*2                             | 184                   | 8.8                    | 16.9                      | DN65*2                             |
| 2217                  | 26975                | 139                   | 6.6                    | 11.7                      | DN65*2                             | 163                   | 7.8                    | 7.6                       | DN65*2                             | 195                   | 9.3                    | 18                        | DN80*2                             |
| 2517                  | 30347                | 156                   | 7.5                    | 11.7                      | DN65*2                             | 183                   | 8.8                    | 7.6                       | DN65*2                             | 220                   | 10.5                   | 18.2                      | DN80*2                             |
| 2717                  | 32876                | 169                   | 8                      | 11.7                      | DN65*2                             | 199                   | 9.5                    | 8.4                       | DN80*2                             | 238                   | 11.3                   | 18                        | DN80*2                             |
| 2719                  | 37334                | 197                   | 9.4                    | 17.7                      | DN80*2                             | 232                   | 11.1                   | 11.5                      | DN80*2                             | 257                   | 12.3                   | 8.3                       | DN80*2                             |
| 2919                  | 40206                | 213                   | 10.2                   | 16.1                      | DN65*3                             | 249                   | 11.9                   | 10.5                      | DN65*3                             | 276                   | 13.2                   | 7.6                       | DN65*3                             |
| 2921                  | 45006                | 250                   | 11.9                   | 22.4                      | DN65*3                             | 285                   | 13.6                   | 13.9                      | DN65*3                             | 316                   | 15.1                   | 11                        | DN80*3                             |
| 3122                  | 50793                | 285                   | 13.6                   | 25.5                      | DN65*3                             | 325                   | 15.5                   | 17.2                      | DN80*3                             | 361                   | 17.2                   | 12.5                      | DN80*3                             |
| 3123                  | 53364                | 301                   | 14.4                   | 31.3                      | DN80*3                             | 344                   | 16.4                   | 19.4                      | DN80*3                             | 382                   | 18.3                   | 14.1                      | DN80*3                             |
| 3324                  | 59665                | 339                   | 16.2                   | 35                        | DN80*3                             | 409                   | 19.5                   | 24                        | DN80*3                             | 431                   | 20.6                   | 15.9                      | DN80*3                             |
| 3525                  | 66309                | 378                   | 18                     | 38.9                      | DN80*3                             | 458                   | 21.9                   | 26.8                      | DN80*3                             | 483                   | 23.1                   | 17.8                      | DN80*3                             |
| 3727                  | 76381                | 439                   | 20.9                   | 47.4                      | DN80*3                             | 535                   | 25.5                   | 33                        | DN80*3                             | 565                   | 27                     | 21.9                      | DN80*3                             |
| 3928                  | 85354                | 491                   | 23.5                   | 51.9                      | DN80*3                             | 601                   | 28.7                   | 36.4                      | DN80*3                             | 635                   | 30.4                   | 24.2                      | DN80*3                             |

► Fresh Air Heating Condition

| Casing specifications | Rated airflow (m³/h) | 2 rows                |                        |                           |                                    | 4 rows                |                        |                           |                                    | 6 rows                |                        |                           |                                    |
|-----------------------|----------------------|-----------------------|------------------------|---------------------------|------------------------------------|-----------------------|------------------------|---------------------------|------------------------------------|-----------------------|------------------------|---------------------------|------------------------------------|
|                       |                      | Cooling capacity (Kw) | Water flow rate (Kg/s) | Water pressure drop (kPa) | Water inlet/ outlet specifications | Cooling capacity (Kw) | Water flow rate (Kg/s) | Water pressure drop (kPa) | Water inlet/ outlet specifications | Cooling capacity (Kw) | Water flow rate (Kg/s) | Water pressure drop (kPa) | Water inlet/ outlet specifications |
| 0507                  | 1890                 | 13                    | 0.3                    | 7.3                       | DN32                               | 20                    | 0.48                   | 5.7                       | DN32                               | 22                    | 0.53                   | 7.4                       | DN32                               |
| 0508                  | 2250                 | 15                    | 0.35                   | 4.5                       | DN32                               | 25                    | 0.6                    | 8.7                       | DN32                               | 26                    | 0.62                   | 5                         | DN32                               |
| 0609                  | 3263                 | 22                    | 0.52                   | 6.4                       | DN32                               | 34                    | 0.8                    | 4.2                       | DN32                               | 38                    | 0.93                   | 6.9                       | DN32                               |
| 0610                  | 3713                 | 25                    | 0.6                    | 8.6                       | DN32                               | 40                    | 0.96                   | 5.7                       | DN32                               | 44                    | 1.1                    | 9.8                       | DN32                               |
| 0710                  | 4455                 | 30                    | 0.7                    | 8.6                       | DN32                               | 48                    | 1.2                    | 6.2                       | DN40                               | 53                    | 1.3                    | 9.8                       | DN40                               |
| 0811                  | 5115                 | 35                    | 0.8                    | 5.4                       | DN32                               | 54                    | 1.3                    | 9.1                       | DN40                               | 65                    | 1.6                    | 7.4                       | DN50                               |
| 0812                  | 5687                 | 40                    | 1                      | 6.9                       | DN32                               | 60                    | 1.4                    | 12.4                      | DN50                               | 73                    | 1.8                    | 9.3                       | DN50                               |
| 0912                  | 6824                 | 48                    | 1.1                    | 7.4                       | DN40                               | 73                    | 1.7                    | 13.7                      | DN50                               | 88                    | 2.1                    | 9.3                       | DN50                               |
| 0913                  | 7510                 | 53                    | 1.3                    | 9.3                       | DN40                               | 77                    | 1.9                    | 5.9                       | DN50                               | 97                    | 2.3                    | 12.4                      | DN65                               |
| 1013                  | 8024                 | 57                    | 1.4                    | 9.1                       | DN40                               | 83                    | 2                      | 5.7                       | DN50                               | 104                   | 2.5                    | 12.1                      | DN65                               |
| 1014                  | 8767                 | 63                    | 1.5                    | 12.2                      | DN50                               | 91                    | 2.2                    | 7                         | DN50                               | 114                   | 2.7                    | 14.7                      | DN65                               |
| 1115                  | 10973                | 79                    | 1.9                    | 14.7                      | DN50                               | 115                   | 2.8                    | 9.3                       | DN65                               | 139                   | 3.3                    | 6.3                       | DN65                               |
| 1116                  | 11831                | 85                    | 2                      | 17.2                      | DN50                               | 125                   | 3                      | 11                        | DN65                               | 150                   | 3.6                    | 7.5                       | DN65                               |
| 1117                  | 12688                | 92                    | 2.2                    | 20.4                      | DN50                               | 135                   | 3.2                    | 12.9                      | DN65                               | 162                   | 3.9                    | 8.8                       | DN65                               |
| 1119                  | 14402                | 97                    | 2.3                    | 5.2                       | DN65                               | 155                   | 3.7                    | 17.3                      | DN65                               | 186                   | 4.5                    | 11.6                      | DN65                               |
| 1219                  | 16323                | 110                   | 2.6                    | 5.2                       | DN65                               | 176                   | 4.2                    | 17.3                      | DN65                               | 211                   | 5                      | 12.7                      | DN80                               |
| 1419                  | 18080                | 121                   | 2.9                    | 4.4                       | DN50*2                             | 193                   | 4.6                    | 16.7                      | DN65*2                             | 232                   | 5.5                    | 11.3                      | DN65*2                             |
| 1421                  | 20252                | 138                   | 3.32                   | 5.8                       | DN50*2                             | 231                   | 5.5                    | 21.8                      | DN65*2                             | 277                   | 6.6                    | 14.8                      | DN65*2                             |
| 1521                  | 22383                | 154                   | 3.7                    | 5.9                       | DN50*2                             | 242                   | 5.8                    | 21.8                      | DN65*2                             | 291                   | 7                      | 14.8                      | DN65*2                             |
| 1622                  | 24706                | 171                   | 4.1                    | 6.7                       | DN50*2                             | 271                   | 6.5                    | 25                        | DN65*2                             | 323                   | 7.7                    | 16.7                      | DN65*2                             |
| 1625                  | 28478                | 202                   | 4.8                    | 10.5                      | DN65*2                             | 293                   | 7                      | 6                         | DN65*2                             | 374                   | 9                      | 23.1                      | DN80*2                             |
| 1725                  | 31067                | 220                   | 5.3                    | 10.5                      | DN65*2                             | 319                   | 7.7                    | 6                         | DN65*2                             | 409                   | 9.8                    | 25                        | DN80*2                             |
| 1727                  | 33810                | 242                   | 5.8                    | 12.8                      | DN65*2                             | 351                   | 8.4                    | 7.3                       | DN65*2                             | 447                   | 10.7                   | 30.4                      | DN80*2                             |
| 1927                  | 38037                | 272                   | 6.5                    | 12.8                      | DN65*2                             | 395                   | 9.5                    | 8.2                       | DN80*2                             | 503                   | 12                     | 30.4                      | DN80*2                             |
| 1929                  | 41123                | 293                   | 7                      | 15.1                      | DN65*2                             | 430                   | 10.4                   | 9.8                       | DN80*2                             | 545                   | 13.1                   | 36.3                      | DN80*2                             |
| 2129                  | 45692                | 326                   | 7.8                    | 15.1                      | DN65*2                             | 479                   | 11.5                   | 9.8                       | DN80*2                             | 606                   | 14.5                   | 36.3                      | DN80*2                             |
| 2131                  | 49121                | 354                   | 8.5                    | 17.9                      | DN65*2                             | 519                   | 12.4                   | 11.6                      | DN80*2                             | 654                   | 15.7                   | 43                        | DN80*2                             |
| 2331                  | 54033                | 390                   | 9.3                    | 20                        | DN80*2                             | 571                   | 13.6                   | 11.6                      | DN80*2                             | 719                   | 17.3                   | 43                        | DN80*2                             |
| 2333                  | 57805                | 421                   | 10.1                   | 23.5                      | DN80*2                             | 615                   | 14.7                   | 13.5                      | DN80*2                             | 772                   | 18.5                   | 50.3                      | DN80*2                             |
| 2535                  | 67175                | 493                   | 11.8                   | 27.2                      | DN80*2                             | 719                   | 17.2                   | 15.7                      | DN80*2                             | 889                   | 19.4                   | 48.4                      | DN80*2                             |
| 2637                  | 75250                | 555                   | 13.3                   | 31.2                      | DN80*2                             | 811                   | 19.4                   | 18                        | DN80*2                             | 999                   | 21.8                   | 58.7                      | DN80*2                             |
| 2839                  | 85877                | 629                   | 15.1                   | 36.3                      | DN80*2                             | 908                   | 19.7                   | 17.3                      | DN80*2                             | 1125                  | 22.5                   | 58.4                      | DN80*2                             |
| 1108                  | 5187                 | 35                    | 0.8                    | 6.5                       | DN32                               | 53                    | 1.3                    | 7.7                       | DN40                               | 66                    | 1.6                    | 11.6                      | DN50                               |
| 1208                  | 5878                 | 40                    | 1                      | 5.8                       | DN32                               | 60                    | 1.4                    | 8.4                       | DN50                               | 74                    | 1.8                    | 11                        | DN50                               |
| 1209                  | 6850                 | 47                    | 1.1                    | 8.8                       | DN40                               | 69                    | 1.7                    | 5.9                       | DN50                               | 86                    | 2.1                    | 8.7                       | DN50                               |
| 1309                  | 7253                 | 51                    | 1.2                    | 9.8                       | DN40                               | 74                    | 1.8                    | 6.1                       | DN50                               | 92                    | 2.2                    | 9                         | DN50                               |
| 1310                  | 8127                 | 54                    | 1.3                    | 4.2                       | DN40                               | 84                    | 2                      | 7.9                       | DN50                               | 104                   | 2.5                    | 12.4                      | DN65                               |
| 1410                  | 9030                 | 60                    | 1.4                    | 4.7                       | DN50                               | 93                    | 2.2                    | 7.7                       | DN50                               | 115                   | 2.8                    | 12.4                      | DN65                               |
| 1411                  | 10173                | 69                    | 1.7                    | 6.2                       | DN50                               | 106                   | 2.5                    | 11                        | DN65                               | 128                   | 3.1                    | 7.7                       | DN65                               |
| 1511                  | 10682                | 73                    | 1.7                    | 5.2                       | DN32*2                             | 111                   | 2.7                    | 9.9                       | DN50*2                             | 134                   | 3.2                    | 7.1                       | DN50*2                             |
| 1512                  | 11882                | 82                    | 1.9                    | 7.2                       | DN40*2                             | 125                   | 3                      | 12.7                      | DN50*2                             | 151                   | 3.6                    | 9                         | DN50*2                             |
| 1613                  | 13705                | 96                    | 2.3                    | 9                         | DN40*2                             | 140                   | 3.3                    | 5.7                       | DN50*2                             | 175                   | 4.2                    | 11.2                      | DN50*2                             |
| 1713                  | 14951                | 105                   | 2.5                    | 9                         | DN40*2                             | 152                   | 3.7                    | 5.7                       | DN50*2                             | 191                   | 4.6                    | 12.1                      | DN65*2                             |
| 1814                  | 17003                | 121                   | 2.9                    | 12.2                      | DN50*2                             | 175                   | 4.2                    | 7                         | DN50*2                             | 219                   | 5.2                    | 14.7                      | DN65*2                             |
| 1914                  | 18131                | 128                   | 3.1                    | 11.9                      | DN50*2                             | 187                   | 4.5                    | 7.5                       | DN65*2                             | 233                   | 5.6                    | 14.3                      | DN65*2                             |
| 1915                  | 19674                | 141                   | 3.4                    | 14.3                      | DN50*2                             | 204                   | 4.9                    | 9                         | DN65*2                             | 247                   | 5.9                    | 6.2                       | DN65*2                             |
| 2016                  | 22003                | 157                   | 3.8                    | 16.7                      | DN50*2                             | 231                   | 5.5                    | 10.7                      | DN65*2                             | 278                   | 6.7                    | 7.3                       | DN65*2                             |
| 2116                  | 23575                | 168                   | 4                      | 16.7                      | DN50*2                             | 247                   | 5.9                    | 10.7                      | DN65*2                             | 297                   | 7.1                    | 7.3                       | DN65*2                             |
| 2117                  | 25289                | 183                   | 4.4                    | 19.9                      | DN50*2                             | 267                   | 6.4                    | 12.6                      | DN65*2                             | 321                   | 7.7                    | 8.6                       | DN65*2                             |
| 2217                  | 26975                | 195                   | 4.7                    | 21.8                      | DN65*2                             | 285                   | 6.8                    | 12.6                      | DN65*2                             | 342                   | 8.2                    | 8.6                       | DN65*2                             |
| 2517                  | 30347                | 219                   | 5.3                    | 21.8                      | DN65*2                             | 320                   | 7.7                    | 12.6                      | DN65*2                             | 385                   | 9.2                    | 9.4                       | DN80*2                             |
| 2717                  | 32876                | 238                   | 5.7                    | 21.8                      | DN65*2                             | 347                   | 8.4                    | 12.6                      | DN65*2                             | 417                   | 10                     | 9.4                       | DN80*2                             |
| 2719                  | 37334                | 273                   | 6.6                    | 29.4                      | DN65*2                             | 399                   | 9.6                    | 18.5                      | DN80*2                             | 478                   | 11.5                   | 12.5                      | DN80*2                             |
| 2919                  | 40206                | 295                   | 7.1                    | 29.4                      | DN65*3                             | 430                   | 10.3                   | 16.9                      | DN65*3                             | 515                   | 12.3                   | 11.4                      | DN65*3                             |
| 2921                  | 45006                | 333                   | 8                      | 38                        | DN65*3                             | 484                   | 11.6                   | 21.8                      | DN65*3                             | 582                   | 13.9                   | 16.1                      | DN80*3                             |
| 3122                  | 50793                | 376                   | 9                      | 42.7                      | DN65*3                             | 554                   | 13.3                   | 25                        | DN65*3                             | 660                   | 15.8                   | 18.2                      | DN80*3                             |
| 3123                  | 53364                | 396                   | 9.5                    | 47.8                      | DN65*3                             | 590                   | 14.1                   | 31                        | DN80*3                             | 696                   | 16.7                   | 20.3                      | DN80*3                             |
| 3324                  | 59665                | 438                   | 9.5                    | 44                        | DN65*3                             | 668                   | 16                     | 35.1                      | DN80*3                             | 781                   | 18.7                   | 22.7                      | DN80*3                             |
| 3525                  | 66309                | 488                   | 10.6                   | 48.7                      | DN65*3                             | 751                   | 18                     | 39.5                      | DN80*3                             | 868                   | 20.8                   | 25                        | DN80*3                             |
| 3727                  | 76381                | 556                   | 11.1                   | 49.6                      | DN65*3                             | 883                   | 21.1                   | 49.2                      | DN80*3                             | 1005                  | 24.1                   | 30.4                      | DN80*3                             |
| 3928                  | 85354                | 614                   | 11.3                   | 46.1                      | DN65*3                             | 995                   | 23.8                   | 54.6                      | DN80*3                             | 1125                  | 27                     | 33.3                      | DN80*3                             |

Remark:

- Hot water inlet and outlet temperature 60°C/50°C, with coil face velocity 2.5m/s.
- Air inlet DB temperature 7°C
- The above sheet are for the coil performance, performance data of AHU should be subject to AHU selection report.

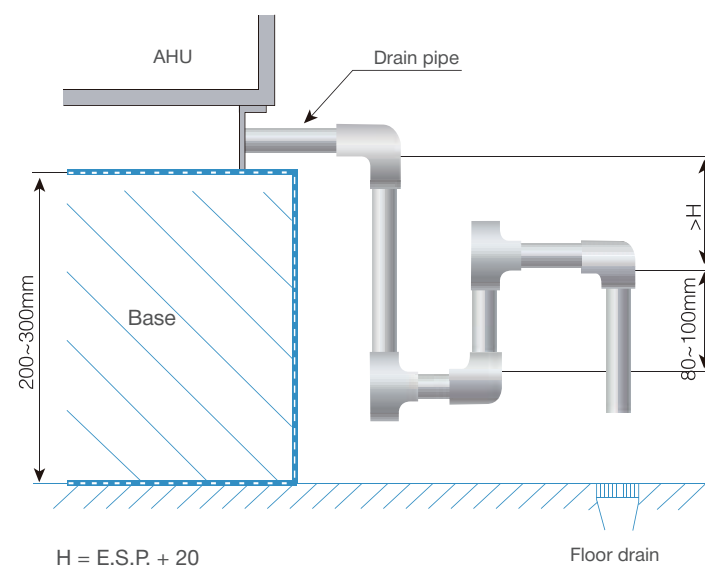
► Return Air Heating Conditions

| Casing specifications | Rated airflow (m³/h) | 2 rows                |                        |                           |                                    | 4 rows                |                        |                           |                                    | 6 rows                |                        |                           |                                    |
|-----------------------|----------------------|-----------------------|------------------------|---------------------------|------------------------------------|-----------------------|------------------------|---------------------------|------------------------------------|-----------------------|------------------------|---------------------------|------------------------------------|
|                       |                      | Cooling capacity (Kw) | Water flow rate (Kg/s) | Water pressure drop (kPa) | Water inlet/ outlet specifications | Cooling capacity (Kw) | Water flow rate (Kg/s) | Water pressure drop (kPa) | Water inlet/ outlet specifications | Cooling capacity (Kw) | Water flow rate (Kg/s) | Water pressure drop (kPa) | Water inlet/ outlet specifications |
| 0507                  | 1890                 | 10                    | 0.24                   | 5.1                       | DN32                               | 17                    | 0.42                   | 9.8                       | DN32                               | 19                    | 0.45                   | 9.2                       | DN32                               |
| 0508                  | 2250                 | 13                    | 0.3                    | 7.7                       | DN32                               | 20                    | 0.48                   | 6.1                       | DN32                               | 22                    | 0.54                   | 7.9                       | DN32                               |
| 0609                  | 3263                 | 18                    | 0.4                    | 4.5                       | DN32                               | 30                    | 0.72                   | 8.4                       | DN32                               | 33                    | 0.79                   | 11                        | DN32                               |
| 0610                  | 3713                 | 21                    | 0.5                    | 6.1                       | DN32                               | 33                    | 0.78                   | 4                         | DN32                               | 37                    | 0.88                   | 6.7                       | DN32                               |
| 0710                  | 4455                 | 25                    | 0.6                    | 6.1                       | DN32                               | 39                    | 0.9                    | 4                         | DN32                               | 44                    | 1                      | 7.1                       | DN32                               |
| 0811                  | 5115                 | 30                    | 0.7                    | 10.7                      | DN32                               | 44                    | 1.1                    | 6.5                       | DN40                               | 56                    | 1.3                    | 10.7                      | DN40                               |
| 0812                  | 5687                 | 32                    | 0.8                    | 4.8                       | DN32                               | 50                    | 1.2                    | 8.3                       | DN40                               | 61                    | 1.5                    | 6.7                       | DN50                               |
| 0912                  | 6824                 | 39                    | 0.9                    | 4.8                       | DN32                               | 60                    | 1.4                    | 9.8                       | DN50                               | 73                    | 1.7                    | 6.7                       | DN50                               |
| 0913                  | 7510                 | 43                    | 1                      | 6.5                       | DN40                               | 67                    | 1.6                    | 12.2                      | DN50                               | 81                    | 1.9                    | 8.4                       | DN50                               |
| 1013                  | 8024                 | 46                    | 1.1                    | 6.4                       | DN40                               | 71                    | 1.7                    | 11.1                      | DN50                               | 86                    | 2.1                    | 8.1                       | DN50                               |
| 1014                  | 8767                 | 52                    | 1.2                    | 7.9                       | DN40                               | 79                    | 1.9                    | 13.6                      | DN50                               | 95                    | 2.3                    | 10.8                      | DN65                               |
| 1115                  | 10973                | 65                    | 1.6                    | 10.5                      | DN50                               | 95                    | 2.3                    | 6.6                       | DN65                               | 120                   | 2.9                    | 12.9                      | DN65                               |
| 1116                  | 11831                | 71                    | 1.7                    | 12.5                      | DN50                               | 104                   | 2.5                    | 7.9                       | DN65                               | 130                   | 3.1                    | 15.4                      | DN65                               |
| 1117                  | 12688                | 77                    | 1.8                    | 14.8                      | DN50                               | 112                   | 2.7                    | 9.3                       | DN65                               | 136                   | 3.2                    | 6.4                       | DN65                               |
| 1119                  | 14402                | 88                    | 2.1                    | 19.6                      | DN50                               | 129                   | 3.1                    | 12.5                      | DN65                               | 155                   | 3.7                    | 8.5                       | DN65                               |
| 1219                  | 16323                | 99                    | 2.4                    | 22.3                      | DN65                               | 146                   | 3.5                    | 12.5                      | DN65                               | 176                   | 4.2                    | 8.5                       | DN65                               |
| 1419                  | 18080                | 109                   | 2.61                   | 18.8                      | DN50*2                             | 160                   | 3.84                   | 11                        | DN50*2                             | 194                   | 4.64                   | 8.2                       | DN65*2                             |
| 1421                  | 20252                | 112                   | 2.7                    | 4.1                       | DN50*2                             | 182                   | 4.4                    | 15.7                      | DN65*2                             | 219                   | 5.24                   | 10.7                      | DN65*2                             |
| 1521                  | 22383                | 126                   | 3.01                   | 4.12                      | DN50*2                             | 202                   | 4.8                    | 15.9                      | DN65*2                             | 244                   | 5.9                    | 10.8                      | DN65*2                             |
| 1622                  | 24706                | 140                   | 3.4                    | 4.7                       | DN50*2                             | 224                   | 5.4                    | 18                        | DN65*2                             | 270                   | 6.5                    | 12.2                      | DN65*2                             |
| 1625                  | 28478                | 165                   | 4                      | 6.6                       | DN50*2                             | 262                   | 6.3                    | 25.2                      | DN65*2                             | 314                   | 7.5                    | 17                        | DN65*2                             |
| 1725                  | 31067                | 180                   | 4.3                    | 6.6                       | DN50*2                             | 286                   | 6.9                    | 25.2                      | DN65*2                             | 343                   | 8.2                    | 17                        | DN65*2                             |
| 1727                  | 33810                | 199                   | 4.8                    | 9.1                       | DN65*2                             | 319                   | 7.6                    | 31.7                      | DN65*2                             | 376                   | 9                      | 20.8                      | DN65*2                             |
| 1927                  | 38037                | 224                   | 5.4                    | 9.1                       | DN65*2                             | 326                   | 7.9                    | 5.3                       | DN65*2                             | 423                   | 10.2                   | 22.4                      | DN80*2                             |
| 1929                  | 41123                | 245                   | 5.8                    | 10.9                      | DN65*2                             | 357                   | 8.5                    | 6.3                       | DN65*2                             | 459                   | 11                     | 26.8                      | DN80*2                             |
| 2129                  | 45692                | 271                   | 6.5                    | 10.9                      | DN65*2                             | 396                   | 9.5                    | 7                         | DN80*2                             | 509                   | 12.2                   | 26.8                      | DN80*2                             |
| 2131                  | 49121                | 295                   | 7.1                    | 13                        | DN65*2                             | 430                   | 10.3                   | 8.3                       | DN80*2                             | 549                   | 13.2                   | 31.7                      | DN80*2                             |
| 2331                  | 54033                | 324                   | 7.8                    | 13                        | DN65*2                             | 472                   | 11.3                   | 8.3                       | DN80*2                             | 604                   | 14.5                   | 31.7                      | DN80*2                             |
| 2333                  | 57805                | 350                   | 8.4                    | 15.2                      | DN65*2                             | 510                   | 12.2                   | 9.7                       | DN80*2                             | 649                   | 15.5                   | 37.1                      | DN80*2                             |
| 2535                  | 67175                | 409                   | 9.8                    | 18.7                      | DN80*2                             | 602                   | 14.4                   | 10.9                      | DN80*2                             | 760                   | 18.3                   | 41.4                      | DN80*2                             |
| 2637                  | 75250                | 459                   | 11                     | 22.3                      | DN80*2                             | 673                   | 16.1                   | 13                        | DN80*2                             | 850                   | 20.4                   | 49.6                      | DN80*2                             |
| 2839                  | 85877                | 522                   | 12.5                   | 26.2                      | DN80*2                             | 767                   | 18.4                   | 15.3                      | DN80*2                             | 956                   | 20.8                   | 48.6                      | DN80*2                             |
| 1108                  | 5187                 | 30                    | 0.7                    | 9                         | DN32                               | 46                    | 1.1                    | 19.3                      | DN40                               | 55                    | 1.3                    | 8                         | DN40                               |
| 1208                  | 5878                 | 34                    | 0.8                    | 9.2                       | DN32                               | 52                    | 1.3                    | 17.2                      | DN40                               | 63                    | 1.5                    | 13.8                      | DN50                               |
| 1209                  | 6850                 | 39                    | 0.9                    | 5.8                       | DN32                               | 59                    | 1.4                    | 8.5                       | DN50                               | 73                    | 1.8                    | 11.2                      | DN50                               |
| 1309                  | 7253                 | 41                    | 1                      | 6.5                       | DN32                               | 63                    | 1.5                    | 9.5                       | DN50                               | 78                    | 1.9                    | 11.5                      | DN50                               |
| 1310                  | 8127                 | 47                    | 1.1                    | 9.1                       | DN40                               | 72                    | 1.7                    | 12.3                      | DN50                               | 87                    | 2.1                    | 8.4                       | DN50                               |
| 1410                  | 9030                 | 52                    | 1.3                    | 8.2                       | DN40                               | 80                    | 1.9                    | 12.3                      | DN50                               | 96                    | 2.3                    | 9.1                       | DN65                               |
| 1411                  | 10173                | 60                    | 1.4                    | 11.8                      | DN50                               | 88                    | 2.1                    | 7.3                       | DN50                               | 110                   | 2.6                    | 11.8                      | DN65                               |
| 1511                  | 10682                | 63                    | 1.6                    | 10.3                      | DN32*2                             | 92                    | 2.2                    | 6.6                       | DN40*2                             | 115                   | 2.7                    | 10.4                      | DN40*2                             |
| 1512                  | 11882                | 67                    | 1.6                    | 4.7                       | DN32*2                             | 103                   | 2.5                    | 8.5                       | DN40*2                             | 126                   | 3                      | 6.6                       | DN50*2                             |
| 1613                  | 13705                | 79                    | 1.9                    | 6                         | DN32*2                             | 121                   | 2.9                    | 11.4                      | DN50*2                             | 146                   | 3.5                    | 8.2                       | DN50*2                             |
| 1713                  | 14951                | 86                    | 2.1                    | 6.4                       | DN40*2                             | 132                   | 3.2                    | 11.9                      | DN50*2                             | 160                   | 3.8                    | 8.2                       | DN50*2                             |
| 1814                  | 17003                | 99                    | 2.3                    | 7.9                       | DN40*2                             | 152                   | 3.7                    | 14.7                      | DN50*2                             | 183                   | 4.4                    | 10.8                      | DN50*2                             |
| 1914                  | 18131                | 106                   | 2.5                    | 7.7                       | DN40*2                             | 162                   | 3.9                    | 13.8                      | DN50*2                             | 195                   | 4.7                    | 10.5                      | DN65*2                             |
| 1915                  | 19674                | 116                   | 2.7                    | 10.2                      | DN50*2                             | 169                   | 4.1                    | 5.9                       | DN50*2                             | 214                   | 5.2                    | 12.6                      | DN65*2                             |
| 2016                  | 22003                | 131                   | 3.1                    | 12.2                      | DN50*2                             | 191                   | 4.6                    | 7.7                       | DN65*2                             | 240                   | 5.8                    | 15                        | DN65*2                             |
| 2116                  | 23575                | 140                   | 3.4                    | 12.2                      | DN50*2                             | 204                   | 4.9                    | 7.7                       | DN65*2                             | 257                   | 6.2                    | 15                        | DN65*2                             |
| 2117                  | 25289                | 152                   | 3.6                    | 14.4                      | DN50*2                             | 221                   | 5.3                    | 9.1                       | DN65*2                             | 268                   | 6.4                    | 6.2                       | DN65*2                             |
| 2217                  | 26975                | 162                   | 3.9                    | 14.4                      | DN50*2                             | 236                   | 5.7                    | 9.1                       | DN65*2                             | 286                   | 6.8                    | 6.2                       | DN65*2                             |
| 2517                  | 30347                | 182                   | 4.4                    | 14.4                      | DN50*2                             | 265                   | 6.4                    | 9.1                       | DN65*2                             | 322                   | 7.7                    | 6.2                       | DN65*2                             |
| 2717                  | 32876                | 197                   | 4.7                    | 15.8                      | DN65*2                             | 287                   | 6.9                    | 9.1                       | DN65*2                             | 349                   | 8.4                    | 6.2                       | DN65*2                             |
| 2719                  | 37334                | 225                   | 5.4                    | 20.9                      | DN65*2                             | 331                   | 8                      | 12.2                      | DN65*2                             | 400                   | 9.6                    | 9.1                       | DN80*2                             |
| 2919                  | 40206                | 243                   | 5.8                    | 19.1                      | DN50*3                             | 357                   | 8.5                    | 12.2                      | DN65*3                             | 431                   | 10.3                   | 7.3                       | DN65*3                             |
| 2921                  | 45006                | 251                   | 6                      | 4.1                       | DN50*3                             | 404                   | 9.7                    | 15.9                      | DN65*3                             | 487                   | 11.7                   | 10.8                      | DN65*3                             |
| 3122                  | 50793                | 287                   | 6.9                    | 5.3                       | DN65*3                             | 459                   | 11                     | 18                        | DN65*3                             | 552                   | 13.2                   | 12.2                      | DN65*3                             |
| 3123                  | 53364                | 304                   | 7.3                    | 6                         | DN65*3                             | 485                   | 11.6                   | 20.2                      | DN65*3                             | 582                   | 13.9                   | 14.9                      | DN80*3                             |
| 3324                  | 59665                | 342                   | 8.2                    | 6.7                       | DN65*3                             | 540                   | 12.9                   | 22.3                      | DN65*3                             | 653                   | 15.7                   | 16.6                      | DN80*3                             |
| 3525                  | 66309                | 383                   | 9.2                    | 7.4                       | DN65*3                             | 608                   | 14.6                   | 27.3                      | DN80*3                             | 729                   | 17.5                   | 18.4                      | DN80*3                             |
| 3727                  | 76381                | 447                   | 10.7                   | 9.1                       | DN65*3                             | 717                   | 17.2                   | 34.2                      | DN80*3                             | 845                   | 20.2                   | 22.4                      | DN80*3                             |
| 3928                  | 85354                | 502                   | 12.1                   | 10                        | DN65*3                             | 809                   | 19.4                   | 38                        | DN80*3                             | 946                   | 22.6                   | 24.5                      | DN80*3                             |

## INSTALLATION AND MAINTENANCE

### ► Installation

- 1) For maintenance purpose, enough space should be left for the AHU, especially the side of service door and water inlet/outlet.
- 2) The base should be designed according to the length and width of AHU and must kept flat and level.
- 3) Base should be higher than the ground to make it easy to set up trap for condensation water. As shown in figure.
- 4) Connect the water inlet/outlet to the external water pipe after cleaning. The weight of external connection of valve, pipe and others shall not burden on the machine unit.
- 5) Use soft fittings to connect the air inlet/outlet of unit and air ducts.
- 6) The machine casing should connect to ground. For motor bigger than 15Kw, it's suggested to use step-down start.



### ► Operation and Maintenance

- 1) Air handling unit is supplied by TN-S power system, AC3-380 V + N + PE.
- 2) Before running the AHU, the fan vibration locking devices shall be removed.
- 3) Before starting, please check if the fan impellers rotate flexible or not. And do the commissioning to check the fan rotating direction. Run the machine after all mechanical and electric equipments were checked by professional personnel without fault.
- 4) Before running the unit, please do the debugging and control the motor running under the rated current to prevent the motor from overload and burn out. All air valves of the air inlet should not be closed, in case of damage and deformation of the unit.
- 5) The heat and cold media of heat exchanger are clean demineralized water. The working pressure shall not be larger than 1.6 MPa. steam supply pressure ranges from 0.2 to 0.4 MPa.
- 6) In winter, please drain out all the inside water and blow away all water in the cooling coil. If the water can't blow out completely, antifreeze liquid should be charged into the coils.
- 7) Examine the filters regularly. When reaches the value of end resistance, the filter should be cleaned or replaced.
- 8) Check the belt looseness and wear conditions regularly. If too loose, please adjust the screw under the base to tight the belt. And check the bearing lubricated condition and add lubricating grease regularly.



ALL-ROUND CONTROL SYSTEM

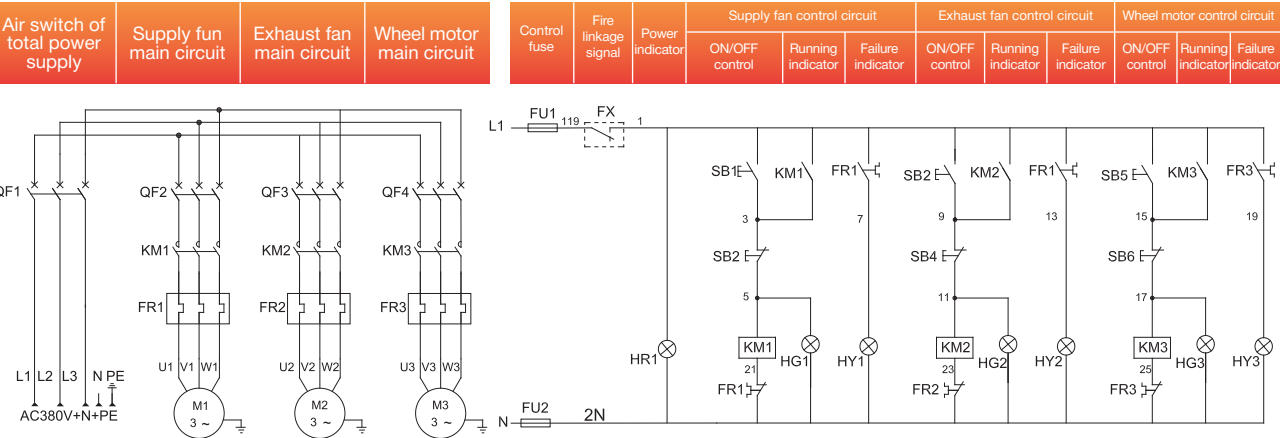
Control and Protection Functions

Constant temperature and humidity solutions

The automatic control system of Holtop combined air handling unit realizes the simplification of professional ventilation or air system regulation. The best air conditioning control scheme is achieved by using three control strategies: annual multi-condition energy saving control, supply air state control for cooling/heat comfort of human body or specific process requirements, and on-line energy saving control of air conditioning and chillers or building control systems.

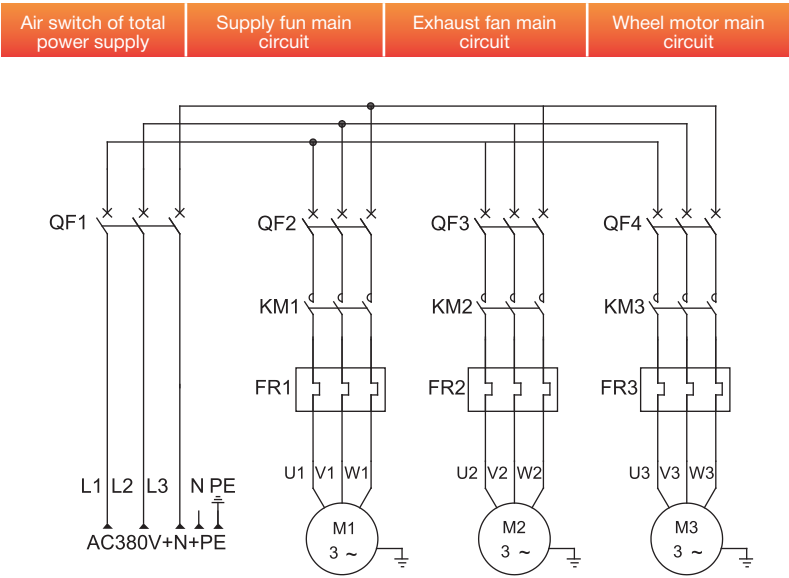
Common ON/OFF control scheme (take the direct driven way as an example), the functions are as follows:

- Control box is supplied by AC380V power, including overload, over current, short circuit protection functions, installed independently indoor.
- Supply fan, exhaust fan, wheel motor are manual control (also called local control). Starting mode could be direct start (11 kw and below) and star triangle step down starting way (15 kw and above).
- Supply fan, exhaust fan, wheel motor have individual ON/OFF control function with light touch buttons. Operation is convenient, quick and safe. There are power indicator, running indicator and fault indicator.
- Fire linkage function is included, reserving a fire signal terminal Fx (normally closed). If Fx disconnected, the fans stop running.



Reserved building control BA interface control scheme (take the direct driven way as an example), the functions are as follows:

- Control box is supplied by AC380V power, including overload, over current, short circuit protection functions, installed independently indoor.
- Supply fan, exhaust fan, wheel motor are manual control (also called local control) or automatic control (also called remote control). Driven mode can be divided into direct start(11 Kw and below) and star triangle step-down starting way (15 Kw and above).
- Supply fan, exhaust fan, wheel motor control have individual ON/OFF control function. Under manual control, ON/OFF both use light touch buttons, operation is convenient, fast and safe. Under automatic control, through the reserved BA interfaces (dry contact) remote ON/OFF control could be realized. Reversed interfaces include fan ON/OFF control signal, automatic state signal, running state signal and fault state signal. For more details, please refer to the table of reserved control interfaces.
- Control box has power indicator, running indicator, fault indicator and remote status indicator.
- Fire linkage function is included, reserving a fire signal terminal Fx (normally closed). If Fx disconnected, the fans stop running.



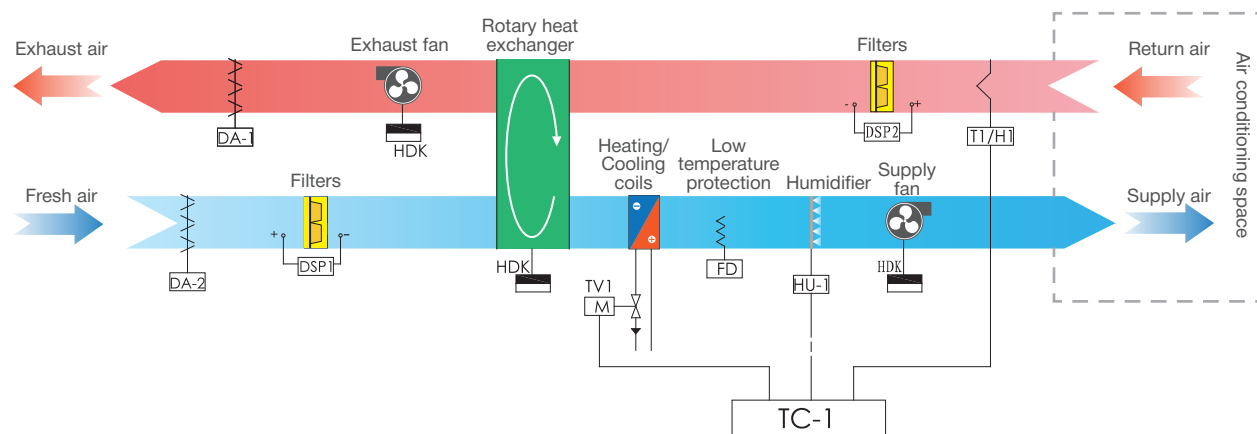
## AHU CONTROLLER

► **Analog Instrument Control Scheme, The Functions Are As Follows:**

- Control box is supplied by AC380V power, including overload, over current, short circuit protection functions, installed independently indoor. Supply fan, exhaust fan and wheel motor are manually controlled (also called local control). Driven mode can be divided into direct start (11 Kw and below) and star triangle step-down starting way (15 Kw and above).

Supply fan, exhaust fan, wheel motor have individual ON/OFF control function by pressing buttons. Operation is convenient, fast and safe. It includes power indication, running indication, failure indication and fire linkage function, reserving a fire linkage signal terminal Fx (normally closed). If Fx disconnected, the fans stop running.

- Imported Swaziland brand intelligent controller, performance is stable and reliable. Winter and summer working condition conversion, temperature and humidity setting values could be changed by parameters setting. No communication interface and no network control function.
- Air damper and fan can be interlocked. When the fan starts, the air damper opens; when the fan stops running , air damper closes.
- Air duct type temperature and humidity sensor inspects the RA temperature and sends signal to the intelligent thermostat to compare with setting values. According to the calculation results, the controller outputs signal to control the opening degree of electric control valve on cooling/heating coil and the start/stop of humidifier, so as to keep the RA temperature and humidity within the scope of requirements.
- Filter blockage alarm function. Installing differential pressure switch beside the filter to inspect the pressure difference on both sides of the filter. When inspected value is larger than the setting value, the filter blocking alarm lights to remind maintenance persons to clean or replace the filters.
- Low temperature protection function is realized by installing antifreeze protection switch (setting value is 5 °C). When the temperature of heating coil is below the setting value, the machine stops and at the same time low temperature protection alarm lights. (this function is optional)



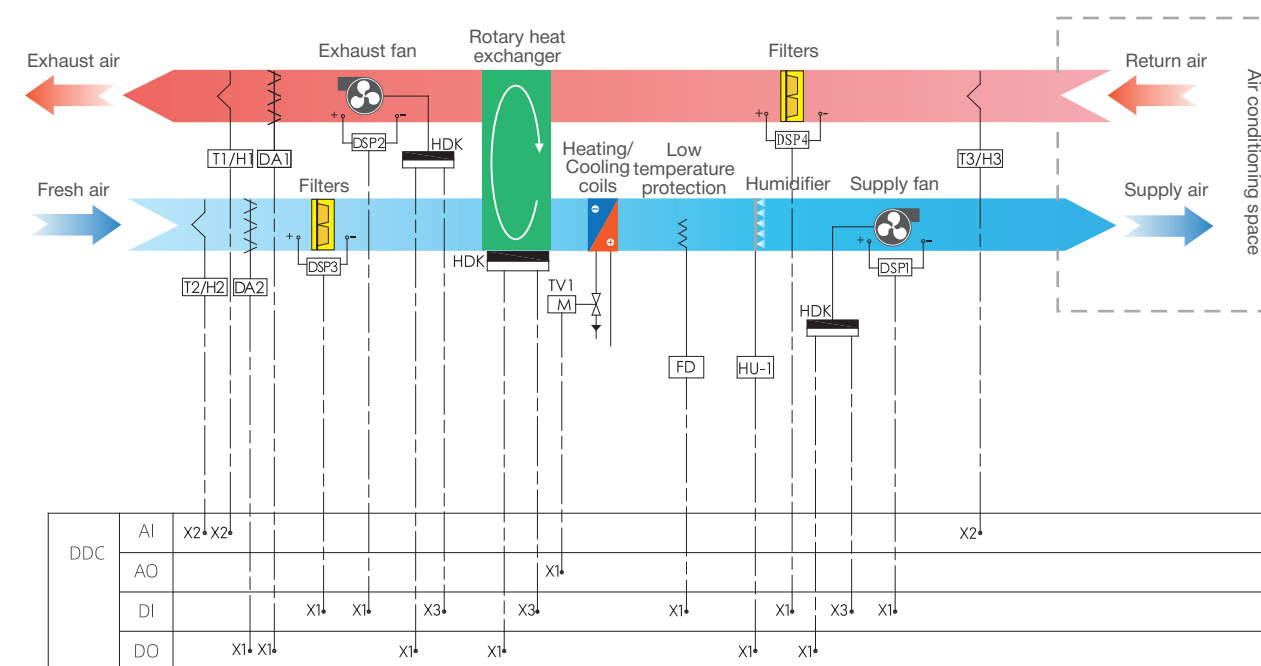
## ► Component Descriptions

| Component code                                                                                                                           | Component name                      | Remarks                              |
|------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|--------------------------------------|
| DA-1/2                                                                                                                                   | Damper actuator                     |                                      |
| T1/H1                                                                                                                                    | Temperature and humidity sensor     |                                      |
| DSP1/2                                                                                                                                   | Differential pressure switch        |                                      |
| TV1                                                                                                                                      | Electric two - way regulating valve | Temperature control                  |
| FD                                                                                                                                       | Antifreeze protection switch        | Cooling coil antifreezing protection |
| HU-1                                                                                                                                     | Humidification control              |                                      |
| TC-1                                                                                                                                     | Intelligent controller              | With AO/DO outlets                   |
| Remarks: The above is for reference only, the number of components is based on specific project requirements and needs to be configured. |                                     |                                      |

## AHU CONTROLLER

► **DDC / PLC Control System, The Functions Are As Follows:**

- The standard configuration of AHU automatic control system adopt uses Siemens POL series DDC/PLC controllers, which are of advanced technology and stable performance. The controller can satisfy the requirement of independent working and net working control.
- System terminal control components such as temperature and humidity sensors, water valve are supplied by the world famous brand to provide users with high reliable and high precision products.
- According to the real-time parameter monitoring of fan operation state, differential pressure and fault state, temperature and humidity parameters, air damper opening degree, water valve opening degree, DDC/PLC control system works based on various combination functions of AHU, seeking the best air heat and humidity treatment scheme under different working conditions so as to satisfy the processing or comfortable requirement while achieving low energy consumption and thus create economic benefits for customers.



### ► Component Descriptions

| Component code                                                                                                                    | Component name                              | Remarks                              |
|-----------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|--------------------------------------|
| DDC/PLC                                                                                                                           | Controller and extended module              |                                      |
| DA1/2                                                                                                                             | Damper executor                             |                                      |
| T1/H1~T3/H3                                                                                                                       | Temperature and humidity sensor             | Temperature control check            |
| DSP1/2                                                                                                                            | Differential pressure switch                | Supply/exhaust fan protection        |
| DSP3/4                                                                                                                            | Differential pressure switch                | Filter blockage alarm                |
| TV1                                                                                                                               | Proportional electric two-way control valve | Valve body and Actuator              |
| FD                                                                                                                                | Antifreeze protection switch                | Cooling coil antifreezing protection |
| HU-1                                                                                                                              | Humidification control                      |                                      |
| Remarks: The above is for reference only, the number and configurations of components are based on specific project requirements. |                                             |                                      |