

Product Introduction

Product Design Feature

- This series of products can be widely used in enclosed area for climate control, such as wireless communication cabinet, battery cabinet, industry control cabinet etc;

Product Design Feature

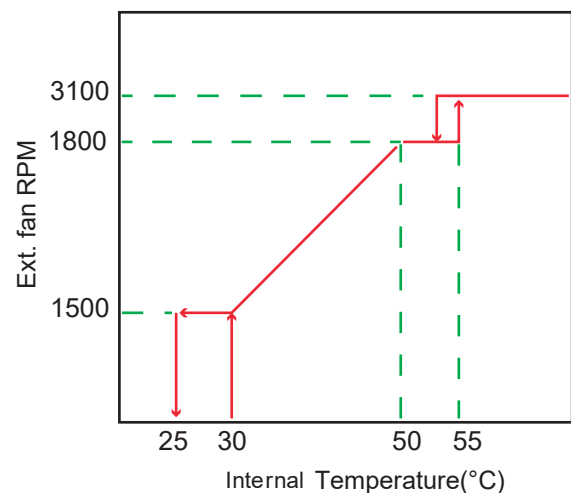
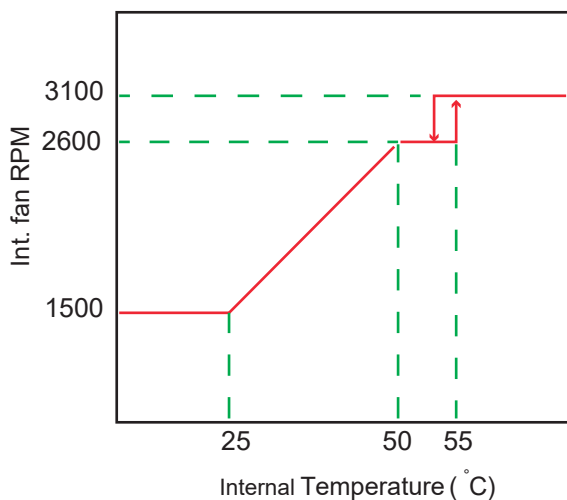
- Remote measure, remote communication, remote control, which can realize multiple automatic protection and comprehensive self-testing function;
- Strict process control and international brand parts deployed to ensure high quality and reliable of this product;
- Multiple self protection design & Interchangeable monitoring software interface RS485 communication (YD/T1363.3 protocol);
- Circulation fans stepless speed regulation function;
- LED Display, all the settings can be changed at the field;
- The heating function is optional;
- Dry contact alarm output, NO/NC optional;

Technical Parameters

| | | |
|---------------------------|---|-----------------------|
| Name | DC Cabinet Heat-Exchanger | |
| Code | 12080 | |
| Model | HRUC E 080/N/E/D | HRUC E 080/N/E/D/H100 |
| Mounting Method | Semi-embedded Mounting | |
| Power Supply DC | -48V±20% | |
| Rated current DC | 1.7A | |
| Start-up current DC | 2.1A | |
| Cooling Capacity | 80W/K | |
| Fans Power Consumption | 68W | |
| Fans | 2*R1G175 | |
| Internal Airflow | 450m ³ /h | |
| Rated voltage AC | NA | 220VAC±20% |
| Frequency AC | NA | 50 ~ 60±3Hz |
| Rated current AC | NA | 4.5A |
| Heater Power | NA | 1000W |
| Working Temperature Range | -40°C~+65°C | |
| Noise Level | 55dB ~ 60dB (A) | |
| IP Grade | IP55 | |
| Net Weight | 18kg | |
| Dimensions | 904x404x146(mm,HxWxD) | |
| CE&RoHS Compliant | YES | |
| Surface Treatment | Outdoor type powder coating standard color: RAL7035 | |

Int. Fan Speed vs. Cabinet inside temperature Curve

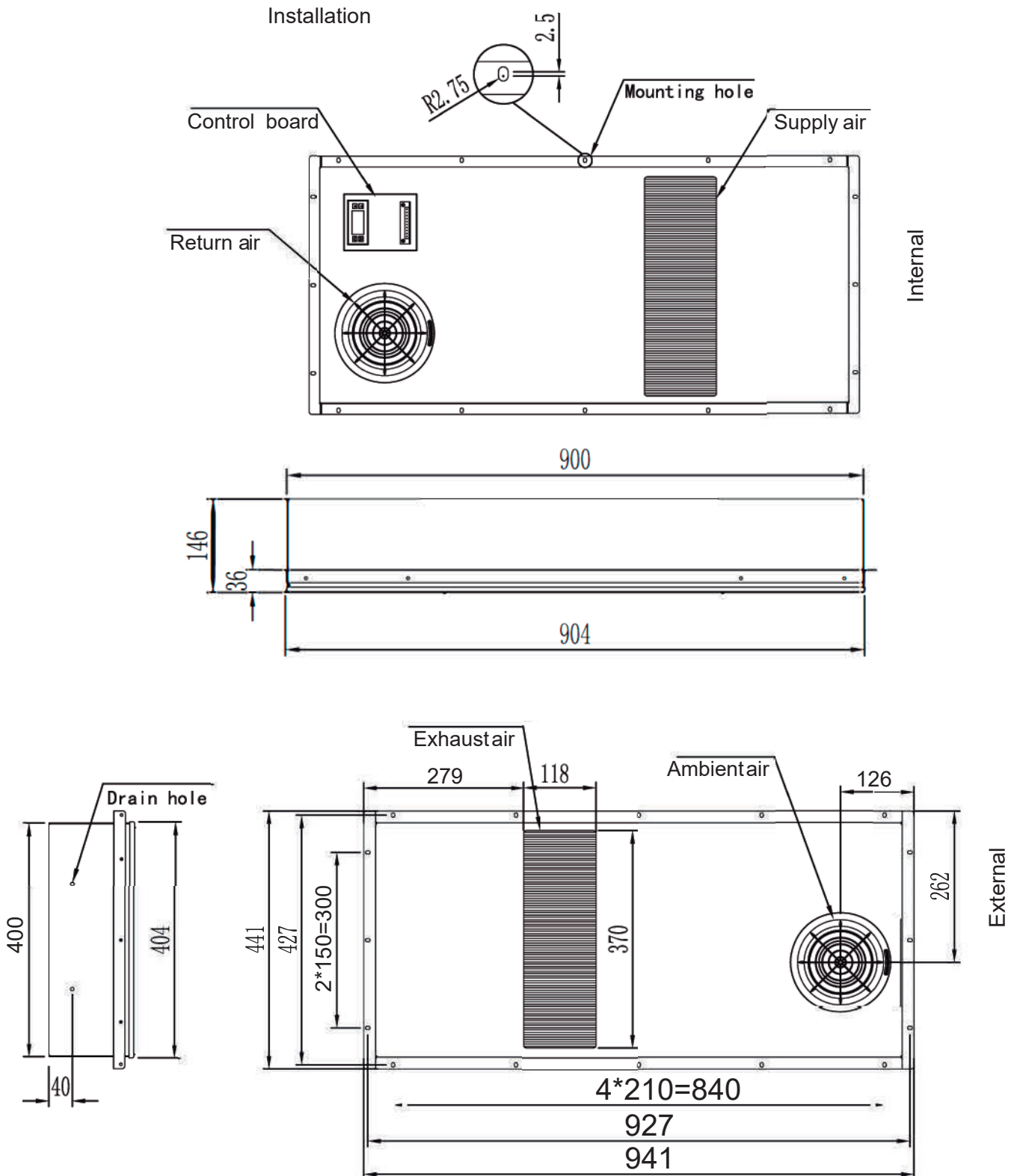
Ext. Fan Speed vs. Cabinet inside temperature Curve



Product Dimensions

| Code | Model | Installation |
|-------|-----------------------|------------------------|
| 12080 | HRUC E 080/N/E/D | Semi-embedded Mounting |
| | HRUC E 080/N/E/D/H100 | |

Product Dimensions



Installation Dimensions

| Code | Model | Installation |
|-------|-----------------------|-----------------------|
| 12080 | HRUC E 080/N/E/D | Semi-embeddedMounting |
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Cabinet's Door Cutting Dimensions

Figure 1-Cabinet Door Cutting Dimension

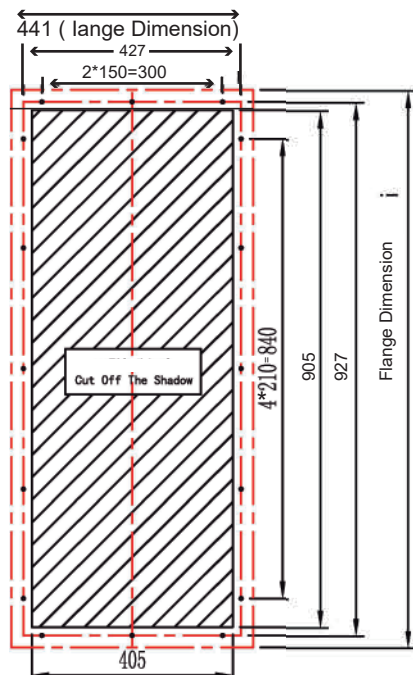


Figure 2-Air open design of cowling

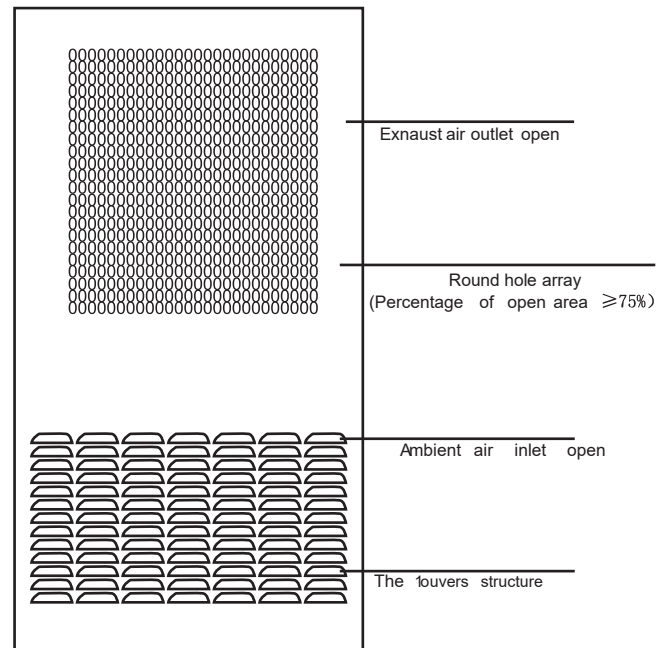
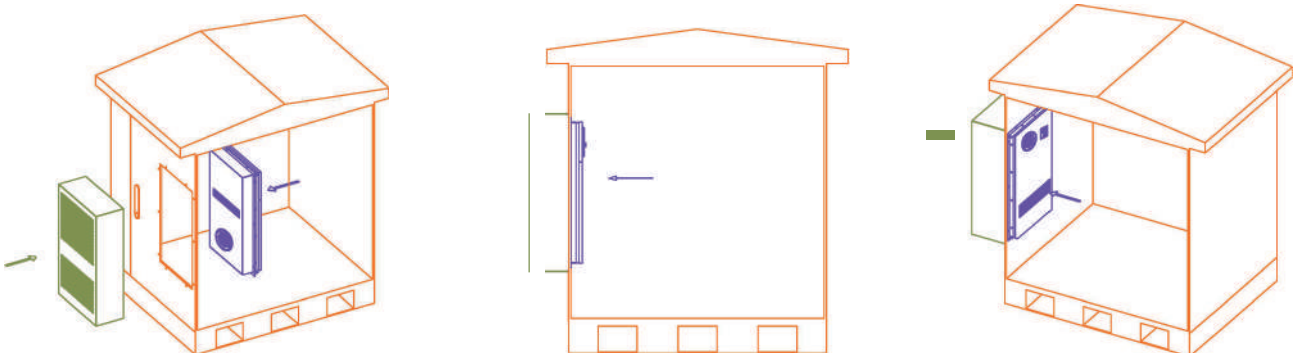


Figure 3-Installation Instruction



Attention:

This series Heat exchanger does not need a cowling, if customer does want to put a cowling outside unit, please follow below rules:

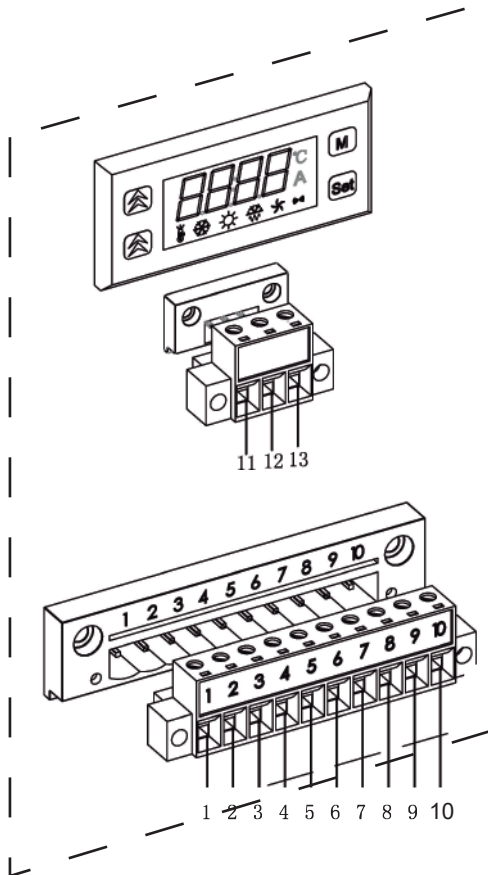
1. The cowling can be made by customer self, the design of cowling please refer to figure 2

2. The inlet and outlet open for ambient air in and exhaust air out should be big enough to ensure enough air volume circulation.

This is very important to the Heat exchanger capacity and less service.

3. When you make a cowling design/installation, make sure the inlet air and outlet air not been short cut, this is also critica! to keep unit have best cooling performance.






Terminal Instructions



Instructions of display panel

The display panel shows cabinet temperature under normal circumstance. and shows alarm code when there is a mal function.

In the bottom is the status bar, different lamp represents different status.

-  Lamp on when setting mode; Flashing when self diagnose
-  Lamp on when heating exchanger.
-  Lamp on when heating; Flashing when heater alarm.
-  Lamp on when external fan is running; Flashing when ext. fan.
-  Flashing when alarm.

| No. | Symble | Definition | Descri ption |
|-----|---------|--------------------------------|---|
| 1 | OV | Positive electrode of DC power | / |
| 2 | -48V | Negative electrode of DC power | / |
| 3 | PE | Ground wire of power | / |
| 4 | N | Neutral line of AC power | Use with heater |
| 5 | L | Live line of AC power | Use with heater |
| 6 | NO | Dry contact alarm output-NO | / |
| 7 | COM | Dry contact alarm output-COM | / |
| 8 | NC | Dry contact alarm output-NC | / |
| 9 | RS485 + | Communication interface | / |
| 10 | RS485 | Communication interface | |
| 11 | 1/0 | Hydrogen signal output | Opt ion (if not use,connector wi 11 be canee11ed) |
| 12 | | | |
| 13 | / | / | / |

