Outdoor Cabinet Air Conditioner

AC2000

Overview

LongXing Air Conditioner Cooling Solution can be widely used in enclosed area for climate control, such as wireless communication cabinet, battery cabinet,industry control cabinet etc. LongXing air conditioners are designed to cool your electronic and electrical controls, instruments, computer terminals, printers, telecommunications equipment, surveillance devices, cameras, laser and optical equipment and many other electronics in variety of environments. Our electronic cabinet cooling systems are designed for use with a wide range of enclosures and transit cases. Models are available for both indoor and outdoor use in AC and DC power configurations. Coolers feature corrosion-resistant stainless steel construction.
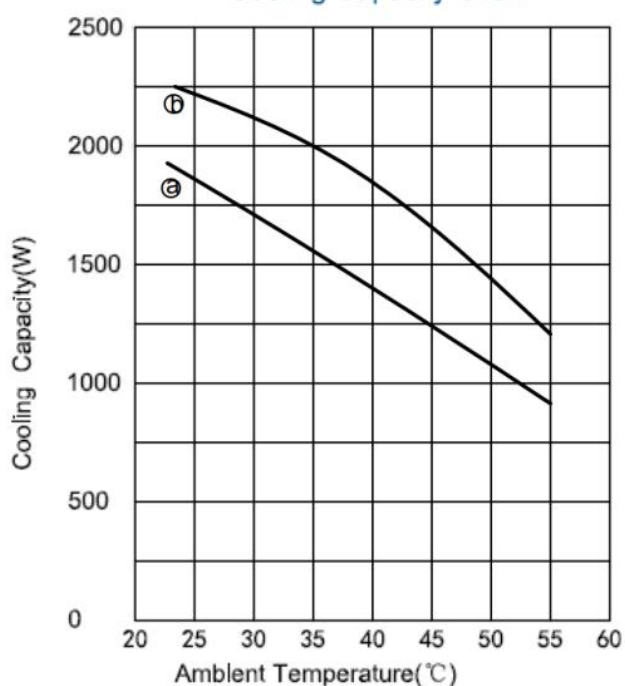
Features

- Remote measuring, remote communication, remote control, which can realize multiple automatic protection and comprehensive self-testing function;

- Strict process control and famous brand components to ensure high quality and reliability of this product;

- Fit for harsh condition (T3), R134a refrigerant ;

- Multiple self-protection design & visible monitoring interface, RS485 communication port (MODBUS-RTU protocol);

- LED display, all the settings can changed at the field;

- The heating function and the hydrogen function is optional;

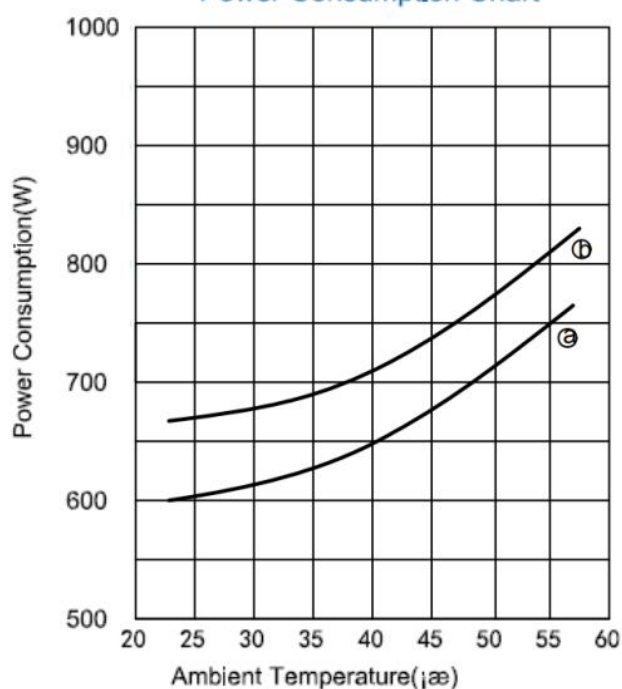- Dry contact alarm output,NO/NC optional;

Technical parameters

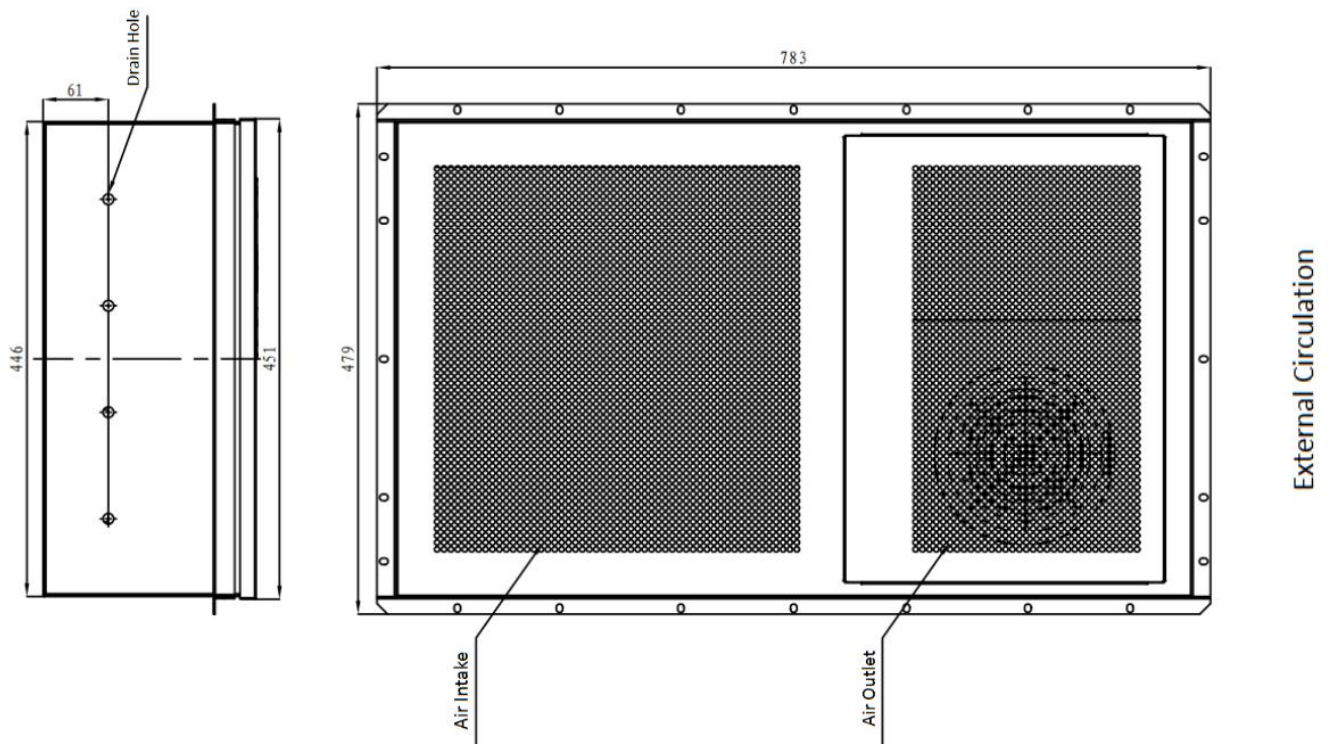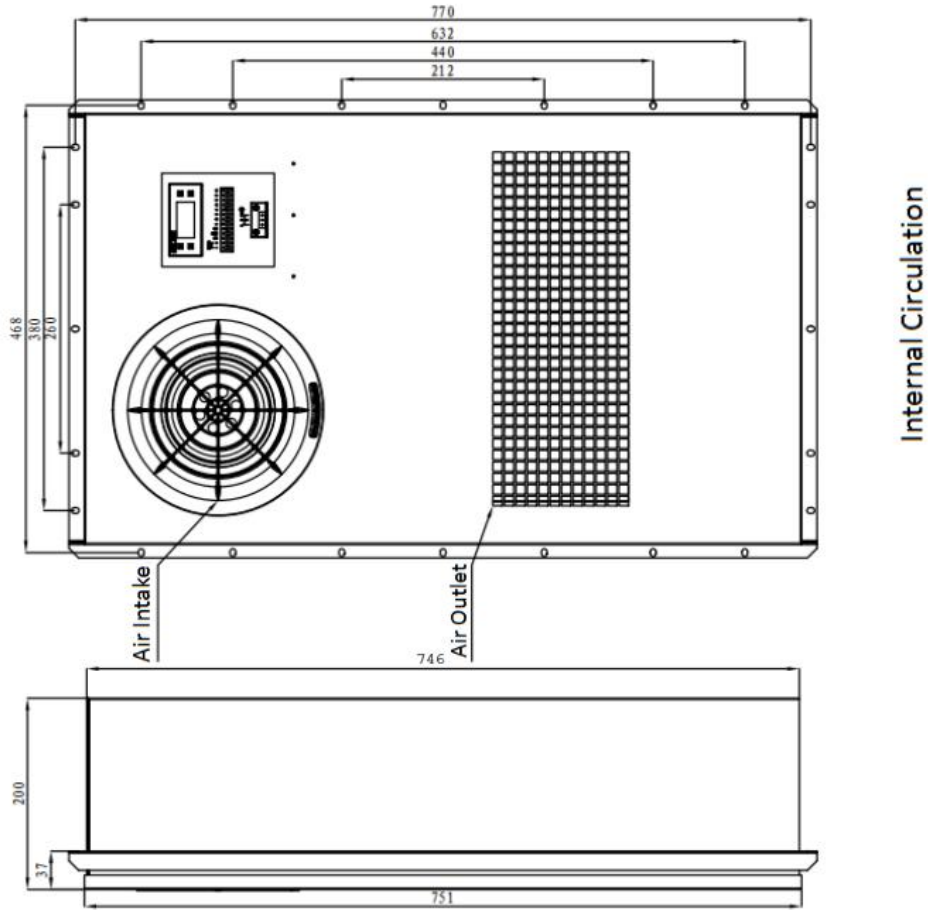| Name	Outdoor Cabinet Air Conditioner
Code	AC2000
Mounting Method	Semi-embedded Mounting
Power Supply	230VAC±15%　50Hz
Cooling Capacity	200W@L35/L35
Power Consumption	870W@L35/L35
Cooling Capacity	1200W@L35/L55
Power Consumption	1090W@L35/L55
Internal Airflow	700m³/h
Working Temperature Range	-40℃~+55℃
Max Noise Level	63dB(A)
IP Grade	IP55
Net Weight	34kg
Refrigerant	R134a
Dimensions(H*W*D)	783mm*479mm*200mm
CE&RoHS Compliant	Yes
Surface Treatment	Outdoor type powder coating Standard color：RAL7035
Heater	Optional (1000W), not included by default
Hydrogen Function	Optional, not included by default

Cooling Capacity Chart

Power Consumption Chart

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LONGXING
We Shape Solutions

Technical Drawings

Internal Circulation

- 770
- 632
- 440
- 212
- 468
- 380
- 260

Air Intake

Air Outlet

746

200

37

751

Drain Hole

61

446

451

External Circulation

783

479

Air Intake

Air Outlet

Technical Drawings

Figure 1-Cabinet Door Cutting Dimension
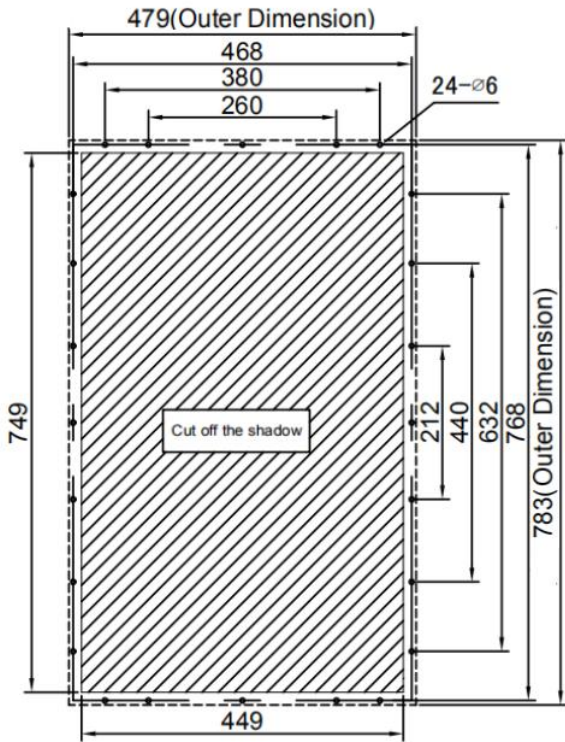
Figure 2-Air open design of cowling

Figure 1 labels:
479(Outer Dimension)
468
380
260
24-∅6
749
212
440
632
768
783(Outer Dimension)
Cut off the shadow
449

Figure 2 labels:
Exhaust air outlet open
Round hole array（Percentage of open area ≥75%）
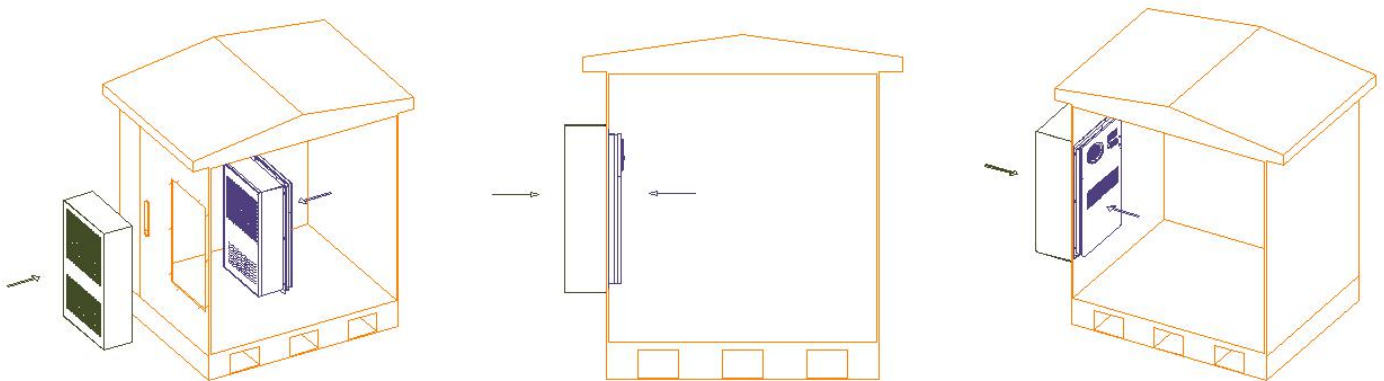Ambient air inlet open
The louvers structure
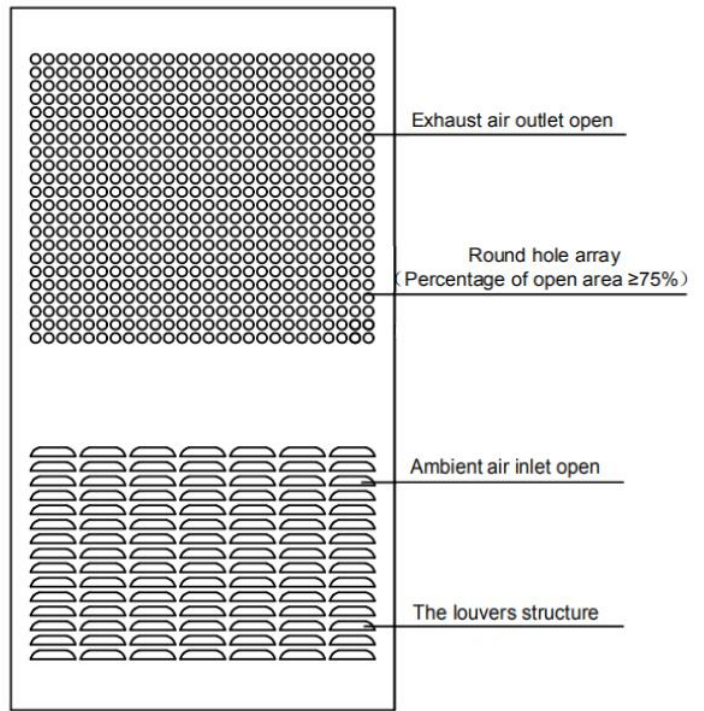
Figure 3-Installation Instruction

Attention:

This series air conditioner 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 have the air conditioner running with long lifetime 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 critical to keep unit have best cooling performance.
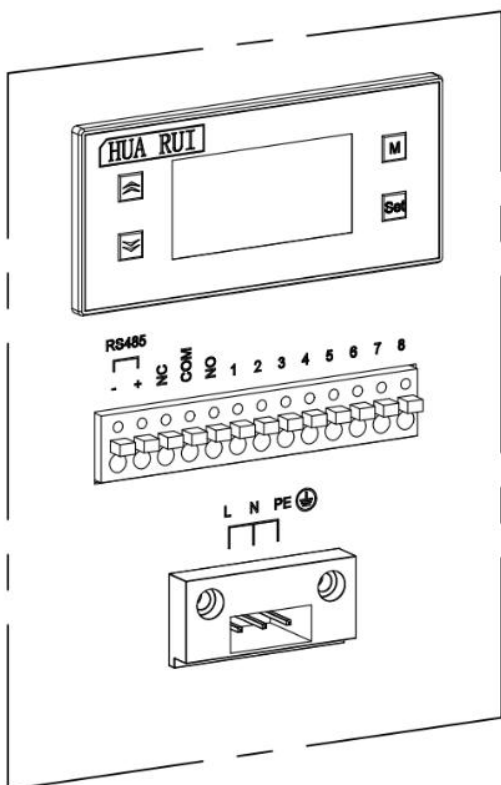
Instructions of display panel:

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

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

🌡 : Flashing when self diagonse or temperature setting mode.

❄ : Lamp on when cooling;

☼ : Lamp on when heating;

⚒ : Lamp on when external fan is running;

◄► : Flashing when alarm.

Number	Symble	Definition	Description
1	L	Live line of AC power	/
2	N	Neutral line of AC power	/
3	PE	Ground wire of AC power	/
4	RS485/+	Positive pole of 485 communication	/
5	RS485/-	Negative pole of 485 communication	/
6	NO	Normal open port of dry contract alarm output	Dry contact alarm: Pin NO&COM: Normal open Pin NC&COM: Normal closed
7	COM	Common port of dry contract alarm output	
8	NC	Normal closed port of dry contract alarm output	
9	1	Hydrogen discharging port or external signal input port	Hydrogen discharging or external signal input port both can only choose one: As hydrogen port: Can connect external hydrogen exhaust fan(AC&DC). Current of hydrogen exhaust fan should be less than 1 A As external singal input port: Accept external control signal to control the air conditioner.
10	2		