Thermoelectric Air Conditioner

DC200

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.
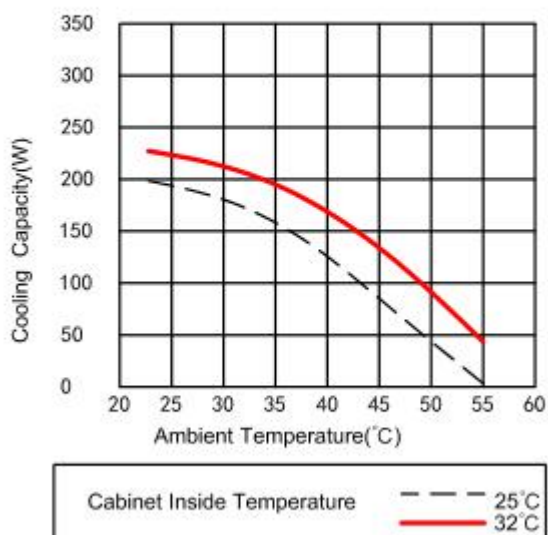
Features

- Refrigeration system is not used refrigerants, few movement part, small volume;
- Strict process control and international brand parts deployed to ensure high quality and reliable of this product;
- Multiple self protection design , RS485 communication through MODBUS protocol;
- Circulation fans stepless speed regulation function;
- The heating function optional;
- Eliminate hydrogen function optional;
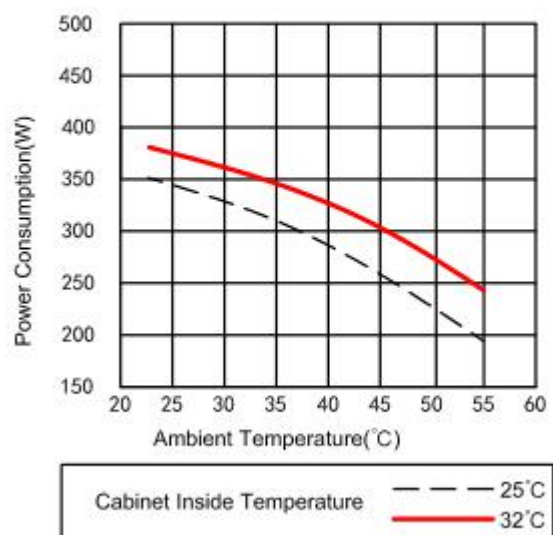- Dry contact alarm output,NO/NC optional;

Technical parameters

Name	Thermoelectric Air Conditioner
Code	DC200
Power Supply	-48VDC Nominal(-44VDC ~ -58VDC)
Cooling Capacity	200W@L32/L32
Consumption	350W@L32/L32
Heating Capacity(Optional)	300W@L35/L35
Internal Airflow	240m³/h
Working Temperature Range	-10℃~+55℃
Noise Level	67dB(A)
IP Grade	IP55
Net Weight	7.0kg
Mounting Method	Semi-embedded Mounting
Dimensions(H*W*D)	400mm*180mm*178mm
CE&RoHS Compliant	Yes

Cooling Capacity Chart

Power Consumption Chart

Technical Drawings

External fan

Control board

Internal fan

Control board cover

Cold plate

Heat sink

Cold air blew direction

Hot air blew direction

Impedient

350

36

1/4

L

L

Detail

5.5

180

168

151

2*150=300

400

Product label

Hot side

Cold side

97

178
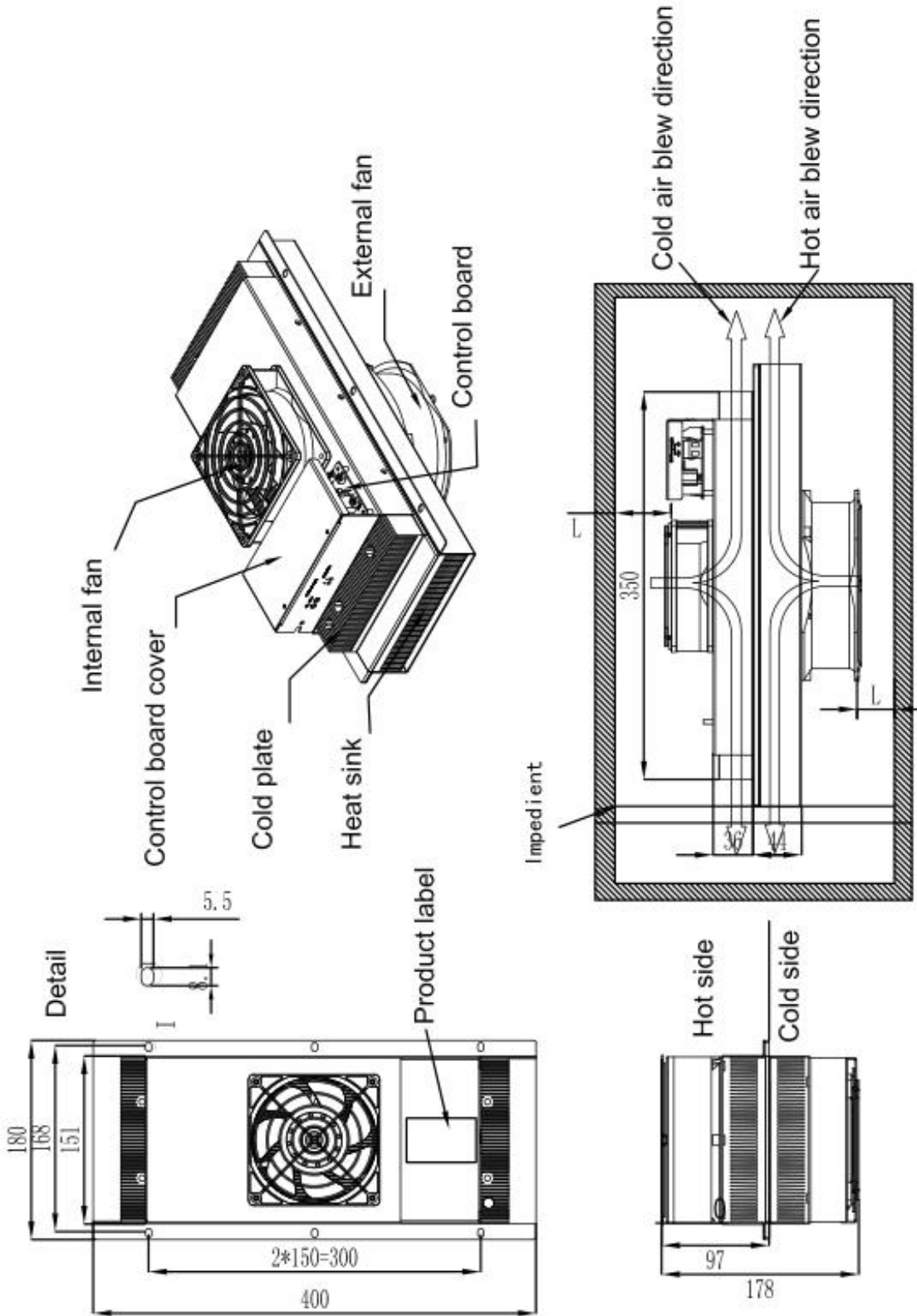
Installation Instructions

Figure 1-Cabinet Door Cutting Dimension
180 TEC
(Outer Dimension)

168
155
6-Ø5
Exhaust air outlet open
Avoid air short cut
Cutting off the shadow
Exhaust air outlet open
400 TEC (Outer Dimension)
355
2*150=300

Figure 2-Air open design of cowling

Exhaust air outlet open
Ambient air inlet open
Round hole array
(Percentage of open area ≥75%)
Exhaust air outlet open
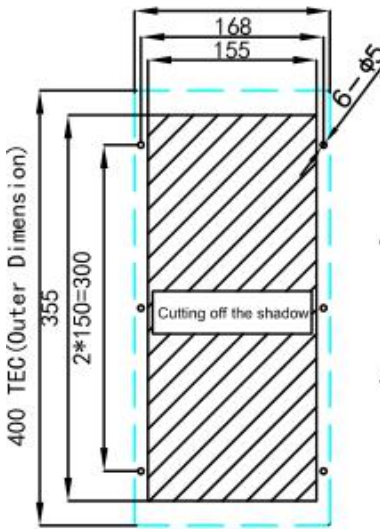
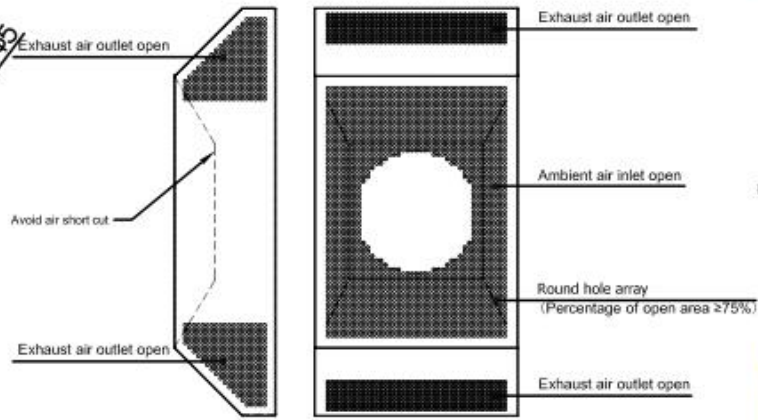## Figure 3-Schematic diagram of drainage

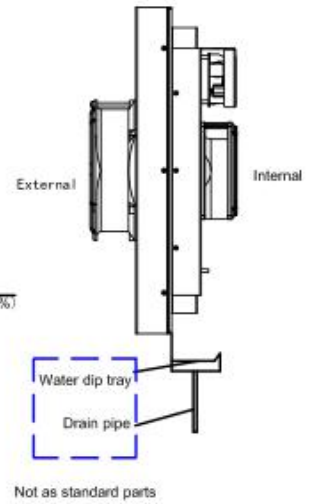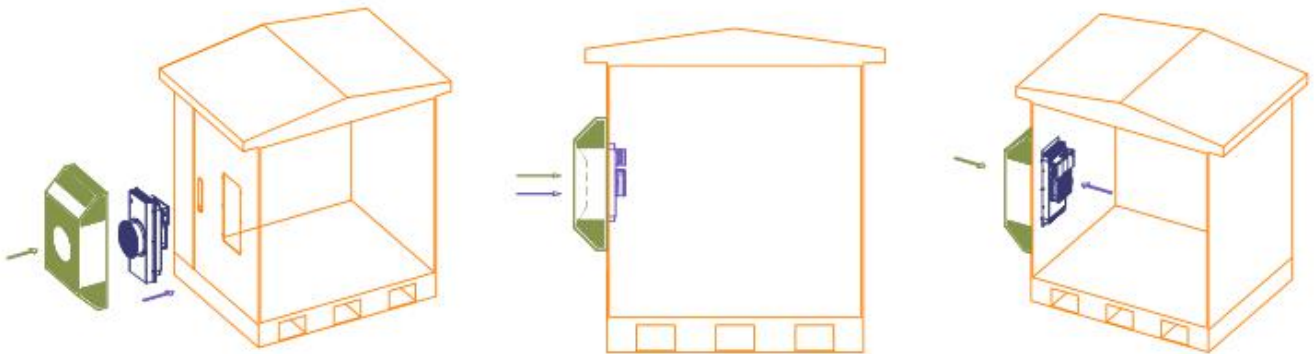Water dip tray is recommended to mount under the TEC product to drain condensed water.

External
Internal

Water dip tray
Drain pipe

Not as standard parts

Figure 4-Installation Instruction

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LONGXING
We Shape Solutions

Terminal Instructions