



Figure 1. Physical Photo of ATTECA200WC

FEATURES

- Generate Temperature Difference up to 40 °C
- Solid State Cooling
- Compact Size and Light Weight
- No Freon
- 100 % Lead (Pb)-free and RoHS Compliant

PERFORMANCE CURVE

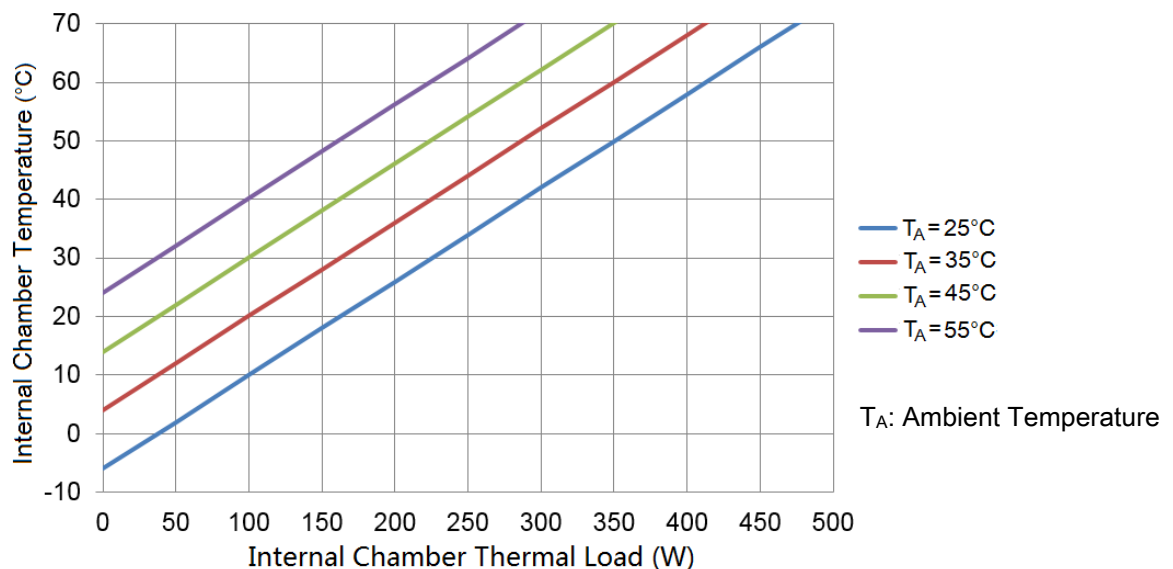


Figure 2. Performance Curve

When the internal chamber temperature & ambient temperature are both 50 °C, air cooler can remove 195W heat.

Hot Side: Fan cooling;

Cold Side: Fan cooling;

Q_{cmax} (W): 195W at ΔT=0 °C ±10%;

Service Life: 30,000~50,000 hours

IP56 waterproof

SPECIFICATIONS

Input Voltage: 24VDC

Max. Input Current: 13.2A

Thermal Cooling Power: 195W

Operating Temp: -10 °C ~ +70 °C

Net Weight: 15.7lbs (7.1kg)

SAFETY PRECAUTIONS

1. Use a 24VDC switch mode power, with the ripple factor < 10%, I_{MAX} ≥ 15A;
2. Avoid free falling from any height;
3. Do not power on the cooler if the ambient temperature and the heat sink is over 70 °C, otherwise, it will be damaged.

Rated Voltage: 24VDC;

TEC Current: 11.5A (initial current is 13A);

Hot-side Fan Current: 0.55A;

Cold-side Fan Current: 0.25A;

Max. Operating Ambient Temperature: 70 °C.

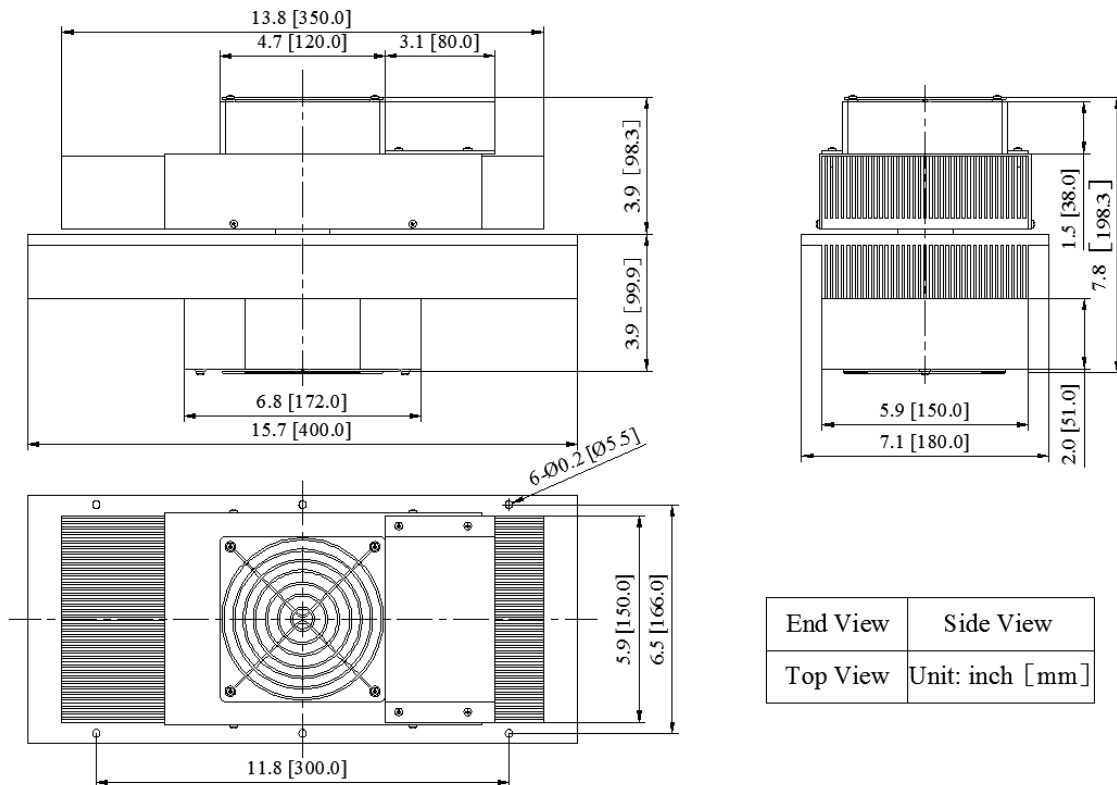
DIMENSIONS


Figure 3. Mechanical Dimensions (mm)

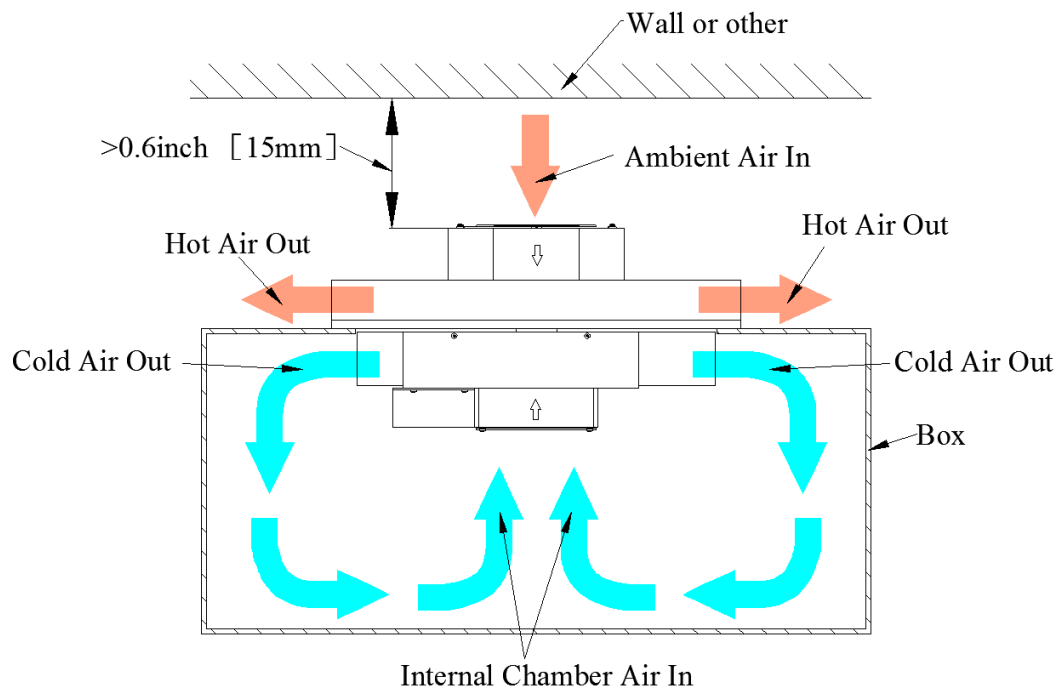
MOUNTING


Figure 4. Mounting Instructions

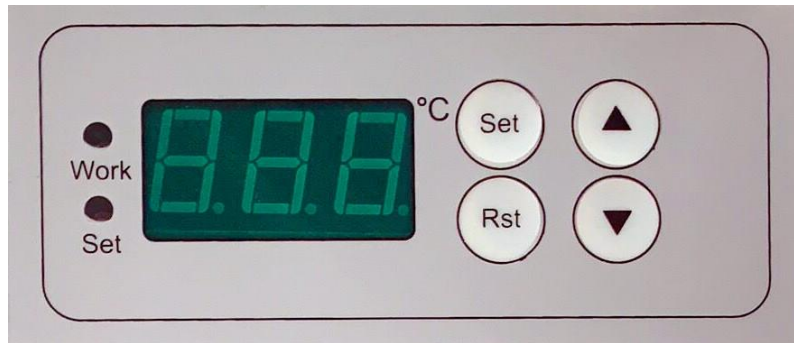
MENU CODE SELECTION


Figure 5. Physical Photo of the Control Panel

Table 1. Menu code description

Symbols	Description	Setting Range	Default Settings	Unit
F0	Hysteresis for heating	0~15	1	℃
F1	Hysteresis for cooling	0~15	1	℃
F2	Temperature limit setting	-9~F3	15	℃
F3	Setting upper temperature limit	F2~99	30	℃
F4	Temperature correction	-7~+7	0	℃
F5	Delay start	0~7	0	minute
F6	Low temperature alarm output	-9~F6	-9	℃
F7	High temperature alarm output	F7~99	70	℃

Press **Rst** to set the TEC air cooler. Press **▲** or **▼** to increase or decrease the parameter value. **Set light** is on. Press **Set** to exit the setting.

Constant Temperature Control

1. When the measured temperature $\geq F3$, start the cooling output; when the measured temperature $\leq F3 - F1$, shut down the output.
2. When the measured temperature value $< F2$, start the heating output; when the measured temperature $\geq F2 + F0$, shut down the output.

Constant Temperature Setting

Press the **Rst** to enter the menu, and press **▲** or **▼** until "F2" or "F3" code is displayed. Press **Set** to display the temperature setting value, and then press the **▲** or **▼** to adjust the temperature value.

"F2" indicates the lowest temperature in the temperature range, "F3" is the highest temperature in the temperature range.

Hysteresis

Hysteresis is the difference between the temperature at which the controller switches off and the temperature at which it switches on again. The minimum difference is 0 ℃, and the maximum 15 ℃.

Press the **Rst** to enter the menu, and then press **▲** or **▼** until "F0" or "F1" code is displayed. Press **Rst** to display the setting value of hysteresis, and then press the **▲** or **▼** to adjust the value. "F0" refers to the hysteresis for heating, and "F1" is the hysteresis for cooling.

Temperature Calibration

When the measured temperature is different from standard temperature, use this temperature calibration function to make these two temperatures consistent. Calibrated temperature = temperature before calibration + calibrated value (positive, negative or 0).

Press the **Rst** to enter the menu, and then press **▲** or **▼** until "F4" is displayed. Press **Rst** to display the temperature calibration value, and then press the **▲** or **▼** to adjust the value.

High Temperature Alarm

If the measured temperature > F7, an alarm will be triggered. The screen will display H and the current temperature alternately. Press any button to stop the alarm sound.

High Temperature Alarm Setting

Press the **Rst** to enter the menu, and then press ▲ or ▼ until "F7" is displayed. Press **Rst** to display the high temperature alarm pre-set value, and then press the ▲ or ▼ to adjust the value.

Low Temperature Alarm

If the measured temperature < F6, the screen will display L and the current temperature alternately. Press any button to stop the alarm sound.

Low Temperature Alarm Setting

Press the **Rst** to enter the menu display, and then press ▲ or ▼ until "F6" is displayed. Press **Rst** to display the low temperature alarm pre-set value, and then press the ▲ or ▼ to adjust the value.

NOTE

Fault Tips

1. When the sensor is disconnected, the screen shows ---, and the alarm sounds, shut down the TEC module and fan.
2. When the sensor detects a temperature < -9.9 °C, the display shows LLL.
3. When the sensor detects a temperature > 99.9 °C, the display shows HHH.

Precautions

1. The load shall not exceed the output contact capacity, otherwise it may bring damages to the cooler and cause fire.
2. The connecting wires and wiring terminal shall in good connection, otherwise, it will reduce the reliability of the cooler.
3. When wiring, separate the power supply, relay, and sensor, otherwise it will damage the cooler.

ORDERING INFORMATION

Table 2. Unit Price

Quantity	1 ~ 4pcs	5 ~ 19pcs	20 ~ 49pcs	≥50pcs
ATTECA200WC	\$629	\$619	\$609	\$599

NOTICE

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