

Direct cooling single temperature controller

RC-1114H

Product Information:

The model controller is specially designed and developed for high-end direct-cooling refrigeration system, mainly apply to chest freezer, platform refrigerator, island freezer, air curtain freezer etc. With high cost performance.



Product features:

Unique private LED display

This product adopts Ringder unique led modular display, make the icons more easy to understand.

Easy to customize PVC panel

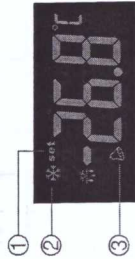
This product adopts PVC surface paste, can be more convenient for customers to customize the personalized special surface board, at the same time the button bubble makes the button more convenient.

Main technical parameters:

power supply	220VAC±10%,50/60HZ
temp measuring range	-50~120°C
working environment temp	-10~60°C
working environment	20%-85%
temp range for storage	-10~70°C
display resolution	1°C
measuring accuracy	±1°C
consumption	≤1.5W
capacity of the relay	20A, can control 1.5HP compressor
sensor type	NTC, 25°C(resistance=10kΩ)
IP level	Ip65

User interface:

Display area



Display interpretation diagram

Icon	meaning	work state		
		display	not display	twinkle
1	setting state indicator	In setting state	In non-setting state	/
2	compressor indicator	compressor is working	compressor is not working	compressor is delaying protection.
3	alarm indicator	/	/	In alarming state.

Method of setting:

Function and parameters:

1. Parameters:

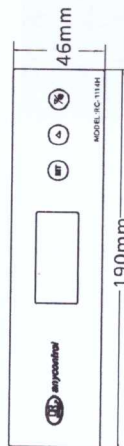
- 1) The setting range of stop temperature is 9~-24°C; factory default setting is 5°C.
- 2) d: the control divergence/ hysteresis is 5°C(default); range: 0~10°C
- 3) cR: temperature correction range: -10~10 °C default value is 0.
- 4) Compressor delay is 3 minute. (cannot be changed.)

2. How to set the above parameters:

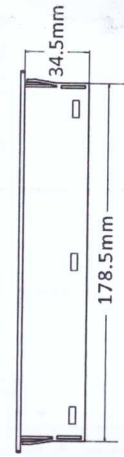
- 1) press the SET button once, enter into temperature setting mode, use ▲ or ▼ arrow button to adjust it to what you desired value. then press SET button to save and exit, or if no any button operation for 15 seconds, the controller will automatically save and exit.
- 2) Press and hold the SET button for 5 seconds, display d, now enter into hysteresis setting mode, use ▲ or ▼ arrow button to adjust to what you desired value. then press SET button to save and exit, or if no any button operation for 15 seconds, the controller will automatically save and exit.
- 3) Press and hold the SET button for 10 seconds, display cR, now enter into alarm setting mode, use ▲ or ▼ arrow button to adjust to what you desired value. then press SET button to save and exit, or if no any button operation, the controller will automatically save and exit.
- 4) In non - set mode, the light can be turned on /off by the light switch button.

Product size:

Product size:



Size of installation:



Assembly and installation:

1. Assembly:

- ▲ Warning: Electrical wiring must be strictly operated by professional electricians according to wiring instructions. Do not install the controller in the following environments:
 - Relative humidity is greater than 90%;
 - Places containing inflammable and explosive articles;
 - Exposure to continuous water spray;
 - Exposure to corrosive and polluting gases (e.g., gases containing sulfur and ammonia);
 - Where ambient temperature is below -10 degrees or above 60 degrees;
 - Wireless electromagnetic interference or strong magnetic field (such as: near the transmitting antenna, near the distribution room);
 - To vibrate or knock violently;
 - Exposure to dust.

2. Installation:

Follow these steps to install the controller
First, cut a mounting hole in the installation position of the equipment as required (FIG. 1)

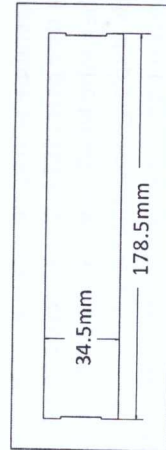


FIG. 1

Then, the back shell of the product is directly aligned with the hole position and buckle into it. (FIG. 2)

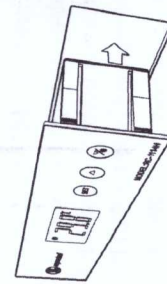
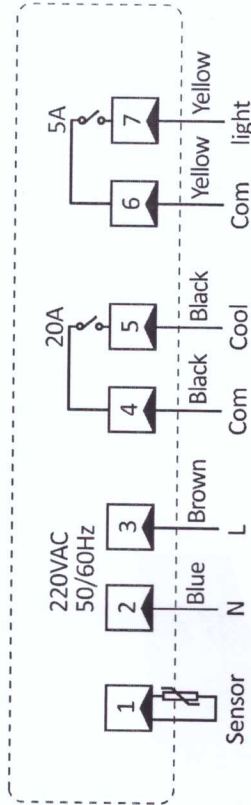


FIG. 2

How do I remove the controller from the mounting position?

Press the screwdriver against the clasp of the controller, then press the corresponding position in front of the controller, four bayonets at the same operation, the controller is removed.

Wiring diagram:



▲ Note:

Strictly follow the wiring diagram, the power supply voltage shall not exceed the rated voltage range 220VAC+ 10%.
Actual load current connected: the inductive load or incandescent lamp shall be less than 10% of the current shown in the wiring diagram, resistive load should be less than 60% of the current shown in the wiring diagram

Alarm, Fault and Solution:

error code	cause of issue	Solution
EEH	Sensor short circuit or ultra high temp alarm.	Check the condition of the sensor and repair it
EEL	Sensor open circuit or ultra low temp alarm.	Check the condition of the sensor and repair it

Form a complete set of accessories:

1 manual, 1 sensor (sensor using NTC semiconductor temperature sensor).

▲ Note: The sensor can be installed up to 100 meters away, but it is required that the cross section of the lengthened part of the wire exceeds 1mm (use shielded wire as much as possible), and neither end of the wire can be grounded. The temperature control of this model adopts NTC sensor, there is no distinction between positive and negative polarity, so there is no requirement for the wiring sequence. Choose the appropriate wire for the wire link, and check whether the wire is tight after installation.

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