

ECB-1000 Electric Control Box

General description:

An electric control box with elegant appearance, especially designed for seafood machine and water chiller; stable performance and easy-to-operate; ABS material with security, water-proof and anti-shake functions. Set parameters can be modified during working procedure. Temperature difference to control temperature, user parameter and administrator menu are separately set. Compressor works on time when sensor error, compressor start-up delay protection. Switch between auto and manual mode. Automatic control to realize heating and cooling alternation. Heating pump and electric-heat optional. A optimizing product with complete functions and high performance versus price ratio.

Main functions and parameters:

◆ Power supply: 220VAC ± 10%/50Hz 380VAC ± 10%/50Hz

◆ Technical parameters:

◇ Temperature measuring and controlling range: -50~+99°C

◇ Accuracy: ± 1°C

◇ Compressor start-up delay: 0~9Min (adjustable)

◇ Max. capacity of fan to control compressor: 4.5 KW

◇ Start-up capacitance: 30 μF ± 5% 50 μF ± 5%

◇ Heating type: Heating pump Electric-heating

◆ Functions:

◇ Switch between manual refrigeration and heating

◇ Sensor error and Excessive temperature alarm

◇ Compressor delay time adjustable

◇ Return difference control

◇ User menu and administrator menu setting

Operation:

1 Switch position:

◇ Refrigeration work mode: Place the switch on the case on "Refrigeration" mode

◇ Heating work mode: Place the switch on the case on "Heating" mode

◇ Stop work mode: Place the switch on the case in the middle

2 Connect the power wires, load wires and pressure control wires according to the wiring diagram;

3 Inspection of phase sequence: Manually start up the compressor or the fan to observe whether the rotating directs of them are correct or not; Adjust the load connecting line if the directs are incorrect

4 Parameter setting and adjusting:

◇ Place the selecting switch on the Electric Control Box's door in the middle, disconnect the external switch and electrify the box;

◇ Set each parameter of the temperature controller according to working requirements (see STC-200 manual);

◇ Switch between refrigeration and heating. There is no need to modify parameter F4 and its default value is always "1". Under heating mode, Parameter F1 is adjusted as "0".

5 After finish procedure 4, Place the alternation switch on the control box under "refrigeration" or "heating" mode, the machine will work as the set values.

◇ Refrigeration: Place the switch under "Refrigeration" mode, the machine will work as the set mode, the Refrigeration Indicator Light on when refrigerating

◇ Heating: Place the switch under "Heating" mode, the machine will work as the set mode, the Heating Indicator Light on when heating

Safety regulation:

△ Danger

The configured Units of the Electric Control Box can't be over the Max. load!

△ Warning

◇ ECB-1000 should be installed by professionals

◇ Abide to the universal electronics installing regulations

◇ The wires should be connected strictly according to the terminal wiring diagram

◇ Promptly place the alternation switch on ECB-1000's door in the middle and cut off the electricity when urgent error appears

△ Notice

◇ ECB-1000 should be installed in the environment of ventilating, dry and no direct sunshine places

◇ Prohibit to get close to condenser or other heat fountains

◇ Sensors should be connected separately. Keep proper distances from the heavy current wires to avoid interferences.

◇ This product can realize all the functions mentioned in this manual, but has no invalidation protect function; User may decide whether to put an invalidation protect device according to detailed necessity.

Technical support:

△ Our technical engineers provide you with professional, prompt and in-time before sale, on-sale and after-sale services;

△ Technical support line: 013196816869

Elementary Wiring Diagram:

