

ECB-10 Instructions

General descriptions:

ECB-10 is a new optimizing product especially designed for refrigerant units. Practical functions and complete protection. Easy-to operate, stable and reliable performance. ECB-10 is a diffusive Electric Control Box with rather high performance versus price ratio

Main functions and parameters:

◆Power supply: Three-phase five-wire (or three-phase four-wire), 380 VAC \pm 10%, 50Hz

◆Technical parameters:

◇Temperature measuring and controlling range: -40℃~+90℃

◇Accuracy: \pm 1℃

◇Compressor start-up delay protection time: 0~9 minutes (Adjustable)

◇Max. capacity of controlling the compressor and fan(KW): 5.5 11 15 18.5

◆Functions and features:

◇User's parameter and manager's menu setting, common customers only need to set temperature parameter

◇Single-point temperature adjustment, return difference for temperature controlling, easy-to-operate

◇Temperature upper and lower limits control

◇Refrigerating and Heating modes optional

◇Comprehensive protection function of compressor

◇Compressor starts/stops proportionably when sensor error

◇Auto and manual control function

◇Alarm functions when Sensor error and exceeding the temperature limits

◇Compressor start-up delay adjustable

Process of operation and clues:

◆Connect the power supply wire, load wire and pressure control wire according to the wiring diagram

◆Inspection of phase sequence: Manually start up the compressor and the fan to observe whether the rotating directions of them are correct or not; Adjust the power input wire or the load connecting wire if the directions are incorrect

◆Parameter setting and adjusting:

◇Place the alternation switch on the Electric Control Box's door under "stop" status, then close the switches both inside and outside the box

◇Parameter setting of Temperature Controller (See STC-200 Instructions)

◇Adjustment of integrated protector of Electric machine:

1. Manual control of compressor and fan, Work indicator light on after the Electric machine normally works
2. Slowly counterclockwise rotate the current's regulating knob on the right until the overload indicator light on, then clockwise rotate a bit until the indicator light flashes every 60 seconds
3. Base on the load status to adjust the left time-lapse regulating knob until it reaches the proper position (Longer time-lapse is better)
4. Restart the electric machine, the alarm indicator light should be off after the Electric machine normally works. Manually overload the Electric machine until the alarm indicator light on. Process of adjustment over
5. If not to connect the load, the protector will be dealt with as open-phase because the current can not get back-flow.

- ◆Place the alternation switch on the Electric Control Box's door under "auto" or "manual" status after all above steps have been done. The apparatus will work according to the set values.
- ◆Under manual operation status, the temperature will display the current temperature of the cold storage, but unavailable to take part in function controlling.

Regulations of safety:

◆Dangers:

◇Keep the case of Electric Control Box earthing well.

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

◆Warnings:

◇Electric Control Box should be installed by professionals

◇Strictly abide to the universal electronics installing regulations; Inflatable bolt can be adopted to fix the case

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

◇Adjust the setting current of electric machine's integrated protector to corresponding value as per the practical load capacity before use

◇Promptly place the switch under "stop" status when emergent error occurs

◆Notices:

◇Electric Control Box should be installed in the environment of ventilating, dry and no direct sunshine places

◇Prohibit to get close to condenser or other heat fountains

◇Should avoid high magnetic field and other interfering fountains

◇Sensors should be connected separately and kept distances from other heavy current wires

Warranty and technical services:

◆Warranty time: Temperature Controller is free for repair within one year from the purchasing day; other units for 3 months

◆Warranty unavailable: under any one of the situations below

A: Operations not according to instruction

B: Not correctly repair

C: Man-made damage or wrong use or make bold to modify

D: Without the buying certificates of this product such as invoice

◆Our professional engineers will offer you professional, high efficient and prompt services in whole process of sale including before-sale, sales-on and after-sale

Technical service telephone: 013196816869

Enclosed wiring diagram:

