ECB-30. Instructions

General descriptions:

ECB-30 is a new optimizing product especially designed for refrigerant units. Double-sensor control, control three-load synchronously, proper and complete protection functions. Easy-to-operate, stable and reliable performance. ECB-30 is an Electric Control Box with multi-functions and rather high performance versus price ratio

Main functions and parameters:

- ◆Power supply: Three-phase five-wire (or three-phase four-wire), 380 VAC ± 10%, 50Hz
- **♦**Technical parameters:
- ♦Temperature measuring and controlling range: -50~50℃
- ♦Accuracy: ± 1°C

- ♦ Max. capacity of controlling the fan(KW): 4, 5.5 7.5
- ◆Functions and features:
- ○Three -load control, can control compressor, fan, defrost independently.
- Double temperature measuring sensors to independently control the temperature of compressor and defroster, more safe and economic
- ♦Thermal and electric heating defrost
- ♦ Comprehensive protection function of compressor
- ♦Sensor error alarm and alarm when exceeding the temperature limits functions

Process of operation:

- Switch status description:
- Auto-running state: Place all the switch inside the controller box on "AUTO" status.
- Manual-running state: Place all the switch inside the controller box in the middle position, then place the switch of compressor, fan, defrost to "MANUAL" status independently in order to control the compressor, fan and defrost manually.
- ♦Stop-running state: The middle position of all the switch is "\$TOP" state.
- ◆Connect the power, load and pressure wire according to wiring diagram.
- 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 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
- ♦ Set up parameter of Temperature Controller (See STC-9200 Instructions)
- Adjustment of integrated protector of Electric machine
- Manual control of compressor and fan. Working indicator light on after the Electric machine normally works
- 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
- 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 alarming indicator light should be off after the Electric machine normally works. Manually overload the Electric machine until the alarming indicator light on Process of adjustment over
- 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 the steps have been done. The apparatus will work according to the set values.
- Auto working status: Set the upper switch on the Electric Control Box's door on 'Auto" place and the down switch on the underside on "Manual" place.
- Manually working status: Set the upper switch on the Electric Control Box's door on 'Manual' place, manually control of compressor, fan and defroster with the switch on the underside. Under manually working 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 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

Technical services:

◆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

Enclosed wiring diagram:

