

Stop condition: Relay of compressor disconnects when it meets any of the ff. conditions.

- a) Storage temperature is lower than the set temperature.
- b) When defrost stops.
- c) When forcible refrigeration stops.

## 2. Defrost

Relay of defrost connects when it meets all of the ff. conditions:

- a) Defrost delay time meets the set time of the defrost delay.
- b) Defrost temperature is lower than the temperature of defrost termination.
- c) Defrost cycle is over or forcible defrost is beginning.

Relay of defrost disconnects when it meets any of the ff. conditions:

- a) Defrost operation time is over.
- b) Defrost temperature is higher than the temperature of defrost termination.

## 3. Fan

When fan start-up delay  $< 0s$ , if need to start compressor, it will start until fan first starts and runs out of the set delay time. Fan stops when compressor stops.

When fan start-up delay  $\geq 0s$ , and operates under control, fan starts when defrost temp. is lower than fan start-up temp.; fan stops when defrost temp. is higher than fan stop temp.

When fan start-up delay  $\geq 0s$ , and operates under "stop during continuous defrost" mode, starts when not defrost, and stops when defrost starts.

When fan start-up delay  $\geq 0s$ , and operates under "start/stop with compressor, stop when defrost" mode, fan starts when compressor start-up (under not defrost status) and run out of fan delay; fan stops when compressor stops or during defrost.

## 4. Alarm function

- ◇ When storage temperature exceeds the temperature upper limit or lower limit and it runs out of the set delay time, buzzer alarms, LED blinkingly displays.
- ◇ LED blinkingly displays "HHH" and buzzer alarms when storage temperature exceeds the measuring temperature upper limit or the sensor short-circuit. LED blinkingly displays "LLL" and buzzer alarms when storage temperature exceeds the measuring temperature lower limit or the sensor open-circuit.
- ◇ Press any key to cancel buzzer alarm, but alarm display remains.

## 5. Operation of COPYKEY (optional)

While the controller operating, when it needs to upload the parameters to COPYKEY and save, plug into COPYKEY and press ▲ to display "UPL". At this time, press SET to upload the parameters to COPYKEY. After finishing upload, LED displays "End", then turn off the controller and take away the COPYKEY. LED will blinkingly display "Err" if there is error during uploading. If need to download the parameters from COPYKEY to the controller, under the controller power-off mode, plug into the COPYKEY and turn on the controller, the controller will automatically detect the COPYKEY and download parameters from it, after downloading, it normally works. At the moment, turn off the controller and take away the COPYKEY, and then restart the controller. The machine blinkingly display "Err" if parameter error or controller model error.

## 6. Keyboard lock function

Under normal mode, press ▲ and ▼ for 10s to open or close the keyboard lock, and display the status of key switch. Loosen the keystroke to display the normal temperature. Under the keyboard locked status, all parameters can be checked but cannot be modified.

7. The modification of part parameters may take into effectiveness during the next working cycle. If it is necessary to operate currently, power off and then restart.

8. When display mode is set as defrost start-up temperature, after defrost, it will display the defrost start-up temperature for 10 minutes.

9. When storage temperature exceeds the measuring temperature limit or the sensor error, compressor works as per the mode of "stop 45 minutes, then operate 15 minutes and by turns".

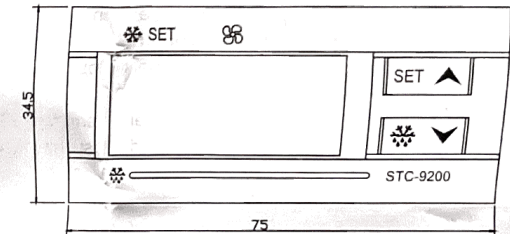
## Safety Regulations:

- ◆ Dangers: Prohibit connecting the wire terminals without electricity cut-off.
  - ◆ Warning: Prohibit using the machine under the environment of over damp, high temp., strong electromagnetism interference or strong corrosion.
- Strictly distinguish the sensor down-lead, power wire and output relay interface from one another, and prohibit wrong connections or overloading the relay.
- ◆ Notes: The power supply should conform to the voltage value indicated in the instruction. To avoid the interference, the sensor down-lead and power wire should be kept a distance. The sensor should be installed away from the venthole to improve the measuring accuracy.

## Indicator light:



## Front panel:



## Wiring diagram:

