TL-330 micro computor thermostat for freezer (user instructions)

LED screen

work | defrost | fan | increase | reduce | manual defrost | set button | defog button | light button | power button
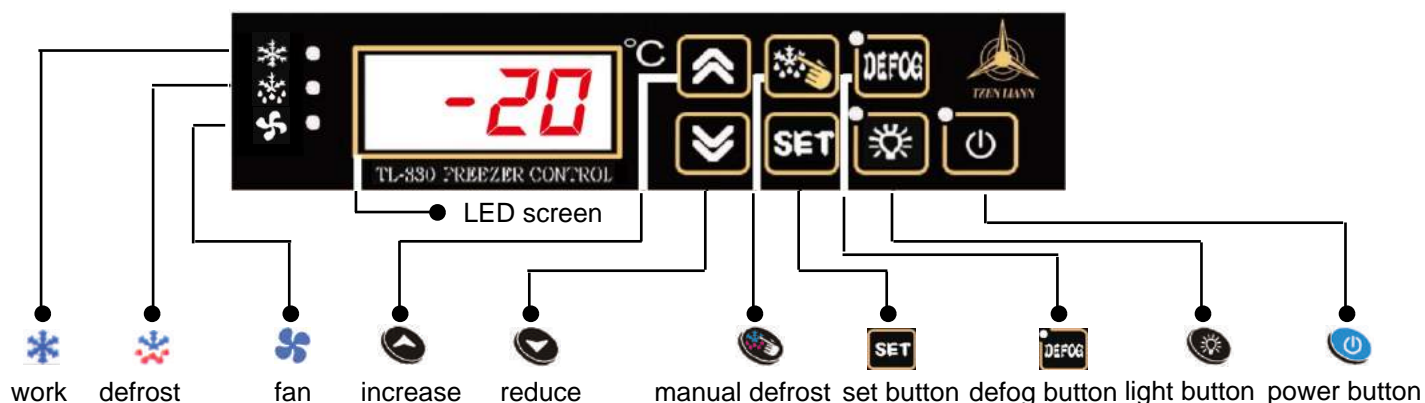
User introduction

1. Power on

⏻ flashs when power is on, and LED shows the current temperature inside of refrigerator. The compressor will begin working after 3 mins. ❄ flashs, the appliance will enter into normal refrigeration condition (if nothing happens, pls press ⏻) Pls check the power supply if no light is on.

2. Temperature adjustment.

Press SET , LED shows the prior setting temperature. ❄ flashs after 3 seconds, you could adjust the temperature then. ⬆ incerase, ⬇ reduce. After adjustment, pls press SET again. If LED flashs 3 times, this adjustment is successful.

3. Defrost

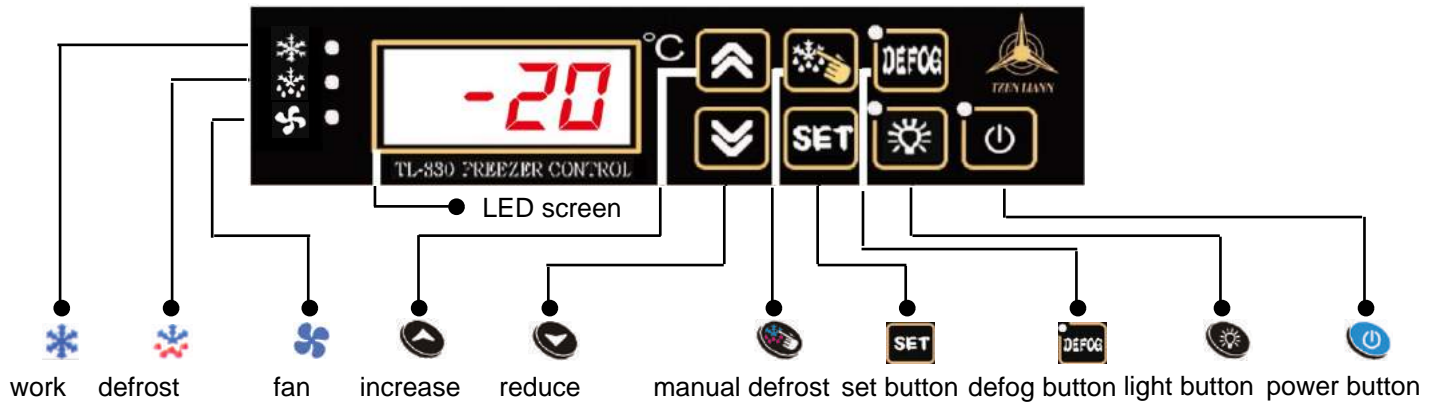When it is in defrost process, you could see "DEF" on LED screen.

Air-cooled refrigerator has auto-defrost function. Usually, it will defrost every 4 hours.

4. Condensation of door frame and glass

When you find there is condensation on door frame or glass, pls check if DEFOG light is on. If no, pls press DEFOG refrigerator will begin defog work. Condensation will disappear after 20 mins.

Sign	Function	Description	Operation Description
❄	work	refrigeration indicator	3 mins after power supply, light flashs, refrigeration begins.
❄	defrost	defrost indicator	Light's on, appliance is in auto-defrost. Light flashs, appliance is in delay-defrost.
❆	fan	evaporator fan indicator	Evaporator is working.
⬆	increase	temperature or parameter increases	Increase the temperature and parameters.
⬇	reduce	temperature or parameter reduces	Reduce the temperature and parameters.
🖐	manual defrost	defog manually	Press 🖐 10 seconds, defog begins, and LED shows "DEF".
SET	set button	adjust the temperature or parameters	Press SET 3 sec, ❄ flashs, then adjust temp.
DEFOG	defog button	door frame or glass defrost	Start or stop defrost.
☀	light botton	light is on or off	Put on or off the light.
⏻	power botton	power is on or off	Put on or off the power supply.

TL-330 micro computor thermostat for freezer (technical instructions)

LED screen

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Parameters list:

Code	Operation mode	Range	Default
E1	Set temperature (stop working temperature)	-50℃~+50℃	-20℃
E2	Differential between work and stop	1℃~50℃	4℃
E3	MInimim set temperature	-50℃~	-25℃
E11	Star delay after power is on	0~30 mins	3 mins
E12	Defrost interval	0~120 hours	4 hours
E13	Defrost duration per time	0~120 mins	20 mins
E14	Defrost terminate temperature	-40~50℃	20℃
E17	Drain time	0~120 mins	5 mins
E18	Fan operating mode	0=run with the compressor 1=continuous work	1
E19	Fan start temperature	-20~50℃	10℃
E20	Fan delay work after defrost	0~120 mins	3 mins
E21	Thermostat probe calibration	-12℃~12℃	0℃
E22	Defrost probe calibration	-12℃~12℃	0℃
E24	Compressor ON time when thermostat probe fails	0~120 mins (0= forced stop)	15 mins
E25	Compressor OFF time when defrost probe fails	0~120 mins (0= forced work)	15 mins

Instruction:

a. Locking and unlocking.

The thermostat is locked in factory. So when press **SET** ,you can only adjust E1 and see current setting temperature.

Press ⚊ ⚊ simultaneously for 8 secons, LED shows"PON". It means thermostat is unlocked.

Press ⚊ ⚊ simultaneously for 8 secons, LED shows"OFF". It means thermostat is locked.

b. Parament choose (E1 ~E25)

After thermostat is unlocked, press "SET" botton for 12 seconds ❄ ❄ will flashs simultaneously.

LED screem shows "E1", you could choose "E1" to "E25" by ⚊ ⚊

c. Adjust the factory default.

For example, adjust the factory default of E14.

When you enter the list, choose "E14" by the help of ⚊ ⚊ . Then press **SET**, LED shows the original set. After

changing the number of "E14", please press **SET** button again. The new set number will flashs three times on LED screen.

The LED shows the next code. After 10 seconds, screen will back to normal condition.

(Please don't forget to lock the thermostat, avioding other people adjust it.)

d. Alarm signal of thermostat probe failure

When thermostat probe fails, LED shows "P1". At the same time, the compressor is forced to work 15 mins and stop 15

mins in turn. When defrost probe fails, LED shows "P2". At the same time, the compressor is forced to work 15 mins and

stop 15 mins in turn. (pls ask for professional technician's help when this happens.)

e. The screen before and after defrost.

If LED shows -18 degree before defrost and "DEF" in defrost,LED will shows -18 degree continualy for 15 mins after defrost. But LED will show real temperature if inner temperature is lower than -18 degree in 15 mins.
(Same to home-use refrigerator, in order to reduce user's complain.)

f. Temperature range

For example, the refrigerator's setting temperature range is -20 degree to -16 degree. Compressor will stop working when temperature is -20 degree, and start working on -16 degree. It is normal condition. When the door is opened for long time, the inner temperature will increase rapidly. In this case, LED will still show -16 degree for 15 mins. But if temperature returns below than -16 degree, LED shows real termperature then.

g. Manual defrost

If you think manual defrost is needed, please press ⟳. In 2 seconds, LED shows the evaporator temperature. And after another 10 seconds, manual defrost starts,LED shows "DEF".
Manual/compulsive defrost is usually used in maintenance and test by professional technician.

✳ Wire Diagram

Attentions:

1. Relay current (A): max. purely resistive load.
2. Power ⑥ : backup input connection.
3. Serial number on circuit board.