

EAG-5080 Operation instruction

General:

EAG-5080 has functions as: 2 display screens displays 2 temperature values, pressing key to check and set the parameter, indicator lights to display the working mode, user can easily operate no need to understand the complex parameters, specify all the functions as: refrigeration, defrosting, fan etc. EAG-5080 is mainly used to control the cold storage temperature.

Functions:

To measure, display and control the temperature; Calibrate the temperature value; Control and output the refrigerating, defrosting, and fan function; Alarm when temperature exceeds setting temp. range or when sensor error.

Specification and Size:

- ◇ Front panel size: 100(L) × 51(W)(mm)
- ◇ Installing hole size: 92(L) × 44(W)(mm)
- ◇ Product size: 100(L) × 51(W) × 82.5(D)(mm)
- ◇ Sensor wire length: 2 meters (probe included)

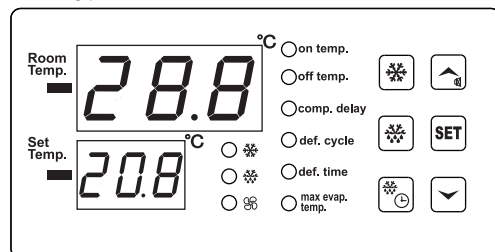
Technical Parameters:

- ◇ Power supply: 220VAC±10% 50Hz/60Hz
- ◇ Temperature measuring and controlling range: -50℃~50℃
- ◇ Accuracy: ±1℃
- ◇ Display resolution: 0.1℃
- ◇ Relay output contact capacity: 3A/220VAC
- ◇ Sensor type: NTC sensor(10KΩ/25℃, B value3435K)
- ◇ Operating temperature: 0℃~60℃
- ◇ Relative humidity: 20%~85% (No condensate)

Instruction of the Keys and indicator lights on the panel:

◆About display screens

- ◇ Room Temp.: to display the measuring temperature and the relative parameter code during setting procedure.
- ◇ Set Temp.: to display the temperature when compressor stops working and the parameter change during setting procedure.



◆About indicator lights

- ◇ on temp.: Temp. when controller on
- ◇ off temp.: Temp. when controller off.
- ◇ Comp. delay: Compressor output delay when start or stop
- ◇ def. cycle: Defrosting cycle time
- ◇ def. time: Defrosting estimated time
- ◇ max evap. temp.: Defrosting stop temp.
- ◇ ❄️ : Refrigerant
- ◇ ❄️⬤ : Defrost
- ◇ 🌀 : Fan

◆About keys

- ◇ ❄️⬤ : Forcible defrosting
- ◇ ❄️ : Forcible refrigerating
- ◇ 🌀⬤ : Defrost surplus time

Indicator light descriptions:

Indicator light	Status	Meaning
Refrigerating indicator light	Light off	Compressor stops
	Light flashes	Compressor delay
	Light on	Compressor works
Defrosting indicator light	Light off	Defrosting stops
	Light flashes	Defrosting drops
	Light on	Defrosting works
Fan indicator light	Light off	Fan stops
	Light flashes	Fan delay
	Light on	Fan works

User's menu:

Function	Setting range	Default	Representative meaning
on temp.	Stop temperature~50.0℃	10.0℃	Compressor start up when temperature reaches the set value
off temp.	-50.0℃~Start up temperature	-10.0℃	Compressor stops when temperature reaches the set value
comp. delay	1min~120mins	3 mins	The minimum interval time between 2 start up time
def. cycle	0 hour~120 hours	6 hours	The minimum interval time between 2 defrosting
def. time	0 min~120 mins	30 mins	The defrosting duration time
Max evap. temp.	-50.0℃~+50.0℃	10.0℃	Defrosting is not allowed when defrost sensor is higher than max evap. temp

Administrator's menu:

Code	Function	Setting range	Default
F1	Temperature calibration	-10.0℃~10.0℃	0℃
F2	Alarm when exceed temp. limit value	0~50.0℃	5.0℃
F3	Defrost type	0:Electric heating defrosting 1:Hot gas defrosting	0
F4	Defrost cycle time calculation	0:Controller accumulated working time after electrified 1:Compressor accumulated working time after electrified	1
F5	Defrost dripping time	0 min.~120 min.	3mins
F6	Fan run mode(Fan stops running during defrost course)	-1:The fan run continuously 0:Fan and compressor run and stop synchronically 1~5:Fan start up when compressor already run for 1~5mins	1
F7	Alarm delay when temp. exceeds set limit value	0 min~120 mins	30mins
F8	Alarm delay time after the power electrified for the first time	0 hour~120 hours	2hours

User menu setting:

Under running status, press and hold "SET" key for 5s until the "Room Temp." display screen appears "SET" to enter user menu setting mode, the "on temp." indicator light on, then to page down and check the parameter item by repeatedly pressing "SET" key, the indicator light will be on when the accordingly parameter item appears in screen. After entering the user menu, press "▲" and "▼" key to modify the parameter setting value in the "Set Temp." display screen.

System menu setting:

Under running status, press and hold both "SET" key and "▼" key simultaneously for 5s,until the "Room Temp." display screen appears "F1" item, the system enters the system menu setting mode, then to page down and check all the parameter items by repeatedly pressing "SET" key. After entering the system menu, press "▲" and "▼" key to modify the parameter value in the "Set Temp." display screen, all the parameter indicator lights are off at this time.

Administrator's menu checking:

Under running status, press and hold "SET" key for 3s until the "on temp." indicator light on, you can page down and check all the parameter items by repeatedly pressing "SET" key, and the parameter indicator light on with the accordingly parameter item is chosen. Under parameter checking mode, the parameter can not be modified. If hold pressing the "SET" key for 3s or no key operations within 10s, system exit from the parameter checking mode, in the "Room Temp." display screen, it appears the current storage temperature.