

## **▲** Safety instructions

## GB CA IN IE US SG

When use this product, please install a fuse or protective device to protect the product in the line of COM input, the protective device should be equal to 10A/100~240V.

This product should be installed preferably by a qualified electrician. Incorrect installation and use can entail risk of electric shock or fire. Before carrying out the installation, read the instructions and take account of the product's specific mounting location.

Do not open up the device. All Legrand products must be exclusively opened and repaired by personnel trained and approved by LEGRAND. Any unauthorized opening or repair completely cancels all liabilities and the rights to replacement and guarantees. Only use genuine accessories.

## Description

This product is applicable to the standard 86 type installation bottom box, and the bottom box depth is ≥35mm.

Product appearance



### Display description:

flag



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Front view

## Main functions and features:

1. The appearance of the product is simple and generous, and the Dehumidification installation and disassembly are simple. 2. Standby off state.

- 3. Touch key design, display the set temperature when there have operation
- 4. Two pipe and four pipe fan coil control.
- Timed automatic 5. Working mode: air supply, cooling, heating, dehumidification and automatic mode.
  - 6. Speed mode: low, mid, high, automatic.

7.24-hour regular startup and shutdown function, with a minimum adjustment time of 0.5 hours.

8. Overcooling protection and prompt function to avoid equipment damage caused by too low ambient temperature.

9. Preset "user mode" and "engineering mode". In "user mode", the user can operate and set the functions of on-off, working mode,

temperature, wind speed and timing on-off, which is simple and easy to use. In the "engineering mode", the operation coefficients of the temperature controller can be set according to the engineering requirements.

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Rated voltage	100~240V 50/60HZ
Rated output current	2A
Rated output power	200~480VA
Standby power	<1W
Temperature range	16°C~32°C
Control accuracy	25°C, ±1°C
Display accuracy	0.1°C
Wind speed step	Low, mid, high, automatic
Number of control valves	2
Overall dimension	86x86x30(mm)
Install the bottom box	Standard 86 type installation bottom box, and the bottom box depth is = 45mm.
Working environment	-10~+60°C, RH<90%
Storage environment	-20~+60°C, RH<90%
	Rated voltage   Rated output current   Rated output power   Standby power   Temperature range   Control accuracy   Display accuracy   Wind speed step   Number of control valves   Overall dimension   Install the bottom box   Working environment   Storage environment

			Engineering mode parameters	
Function	No.1	No.2	Function description	
Restore factory settings	1	0	Do not restore factory settings.	
		1	Restore factory settings (other functions cannot be set in this state).	
Control settings	2	0	Two pipe system(default).	
		1	Four pipe system.	
Sensor settings	3	0	Use built-in sensor to measure temperature.	
		1	The external NTC sensor is used for temperature measurement, and the sensor resistance is 100k.	
		2	The external NTC sensor is used for temperature measurement, and the sensor resistance is 47k.	
		3	The external NTC sensor is used for temperature measurement, and the sensor resistance is 15k.	
		4	The external NTC sensor is used for temperature measurement, and the sensor resistance is 10k.	
For controlled	4	0	The fan is not controlled. After the temperature reaches the set value, the fan is in low-speed state.	
1 an controlleu	4	1	The fan is controlled, and the fan is turned off when the temperature reaches the set value.	
		0	Turn off the overcooling protection.	
Overcooling protection	5	1	Start, when the temperature is lower than 7 $^\circ\text{C},$ the refrigeration symbol flashes until the temperature is higher than 9 $^\circ\text{C}.$	
		2	Start, when the temperature is lower than 7 °C, the refrigeration symbol flashes, and turn on the heating until the temperature is higher than 9°C.	
Temperature difference	6	1°C~5°C	Factory default 2°C.	
Temperature compensation value	7	-5°C~5°C	Factory default 0°C.	
		0	The screen is not displayed (default).	
In standby mode		1	Low light when standby.	
	8	2	Mid light when standby.	
		3	High light when standby.	
Refrigeration minimum temperature setting	9	16°C~35°C	The minimum temperature allowed to be set in the refrigeration mode. The factory default is 16 $^\circ$ C.	
Minimum heating temperature setting	10	5°C~32°C	The maximum temperature allowed to be set under heating mode. The factory default is 32 °C.	

# Wiring diagrams

1.Two pipe system



Electric valve



# COOL HEAT LON BID HING. 2A, 100-240V-, 50/60Hz ĥ⊈″ 281023MW 21W25 Made In China

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3.External sensor

AC220V

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🖺 2A, 100-240V~, 50/60Hz

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Please confirm the

model of external

temp sensor with the salesperson.

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L COOL HEAT LON BID HING

281023MW 21W25 Made In China

If you need to expand the

expansion accessories.

external temperature sensor, please contact our sales . department to purchase

2. Four pipe system

AC220V

Electric valve





Engineering mode - > temperature compensation, modify the temperature compensation value as required.

## Settinas

Cooling mode

Heating mode

return difference / 2) return difference / 2)

environment.

Over-cooling protection: 1. When 1 or 2 is selected in "over-cooling protection" in engineering mode, the thermostat starts the over-cooling protection function 2. When the temperature is lower than 7 °C, the screen will flash and display the over-cooling protection information. Until the temperature is higher than 9 °C, the over-cooling protection information will stop displaying. 3. When "over-cooling protection" is selected as 2, when the ambient temperature is lower than 7 °C, the thermostat will be forced to operate in the heating mode until the temperature is higher than 9 °C, and the thermostat will return to the operation state before over-cooling protection



Working process of 2 pipe system and 4 pipe system

1. Cooling mode: when t = - Th, the cooling valve stops working; When t = Th, the cooling valve starts working again. V Cold water valve



V:Valve T:Room temperature S:Set temperature Th: Set temperature + (temperature return difference / 2) -Th: Set temperature - (temperature return difference / 2)

2.Heating mode: when t = Th, the heat valve stops working; When t = - Th, the heat valve starts working again. V Hot water valve



Automatic switching function of four pipe system: In automatic control mode of four pipe system, in order to achieve the optimal temperature set by the user, the cooling and heating mode is switched automatically. The switching conditions are as follows: 1. Conditions for Automatic switching from cooling mode to heating mode: (indoor temperature) = (set temperature - temperature

2. Conditions for automatic switching from heating mode to cooling mode: (indoor temperature) = (set temperature + temperature

Sensor setting: the temperature sensor can choose to use built-in, external or digital connectors according to the actual engineering







henomenon	Reason	Processing method
	The on / off key is not turned on	Click the on key
wind fferent splay	F1 F2 F3 terminal wiring sequence error	Check external wiring
rmal or	Wiring error	Check external wiring
perature	Temperature uncalibrated	Recalibrate the measured temperature
e)	Improper installation position	Improve installation environment
	The current temperature sensor is damaged or installed incorrectly	Please check and replace the sensor
	Sensor setting error	Enter the engineering mode and select the correct probe mode