

User Manual

Cold Stage

SWE-JBL5T

Please read the user manual carefully and keep it properly
before using the product for future reference

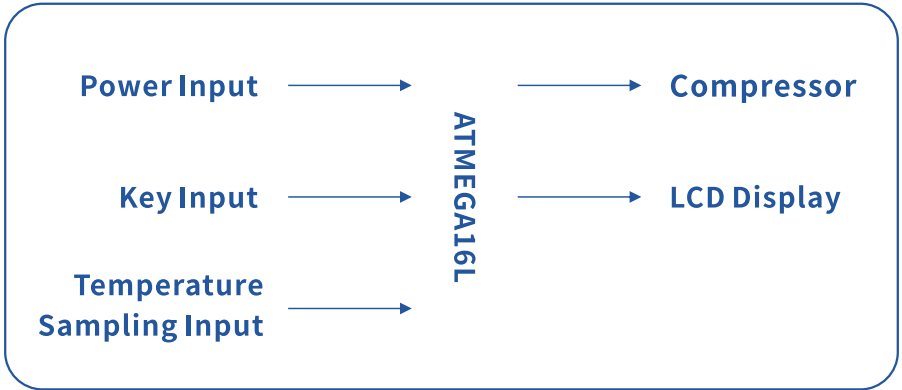
Wuhan Servicebio Technology Co., Ltd.

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01 Functional Block Diagram of Cold Plate Controller

Service Life of Paraffin Embedding Machine Cold Plate: 6 years.



02

Functions and Parameters of Cold Plate Controller

Input Voltage	AC 220V/50Hz; Operating current 0.62A, Starting current 2.3A
Maximum Power	120AV
Operating Temperature Range	15°C~30°C
Operating Relative Humidity	≤80%
Cold Plate Plate Size	325×285mm
Cold Plate Plate Temperature Detection	-18°C (at ambient temperature 30°C, achieved in 1~2 hours)
Dimensions	400×585×350mm
Weight	Approx 22Kg
Display	LCD dot-matrix dynamic display
Setting Functions	Programmable daily on/off timer (24-hour cycle). Customizable working days (weekly schedule)
Temperature Setting	Setting range: 0°C ~ 40°C, Display range: -40°C ~ 99°C
Compressor Operation Mode	Requires a 5-minute delay after each shutdown before restarting. Initial power-on also requires a 5-minute delay
Retains settings (on/off times, temperature) after power loss	Memory Function

03 Key Operation Instructions


1.Initial Power-On,LCD displays the startup screen (first screen):

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SWE-JBL5T Paraffin Embedding Cold Plate

After 5 seconds, LCD automatically switches to the second screen.Internal countdown timer starts (300s decrementing to 0).

2.Menu Key

Press the Menu key once to display the second screen:

Wed	12:00	1 2 3 4 5 6 7
	On: 03:20 <input checked="" type="checkbox"/>	Off: 05:05 <input type="checkbox"/>
Set Temp: -4°C	Detected Temp: +10°C	

Second Screen:

Condition 1 Countdown timer reaches 0;

Condition 2 Timer settings are correct;

Condition 3 Temperature settings are correct,

Conditions for Compressor Activation (must meet all).

3.Parameter Adjustment

Press + or - to move the cursor and select:

- (1) Date (format: 1, 2, 3, 4, 5, 6, 7 for Mon–Sun);
- (2) Beijing Time (hours, minutes), Working Days (e.g., 1,2,3,4,5,6,7);
- (3) Start Time (hours, minutes);
- (4) Shutdown Time (hours, minutes);
- (5) Cooling Temperature Setting.

After selecting one of the five options, press the "Confirm" key. The highlighted cursor will blink. Press the "+" or "-" key to adjust the corresponding parameter value. Press "Confirm" to automatically save the new setting, or wait 3 seconds without pressing "Confirm" for automatic saving.

For Working Days (1, 2, 3, 4, 5, 6, 7), simply press "Confirm" to enable or disable. When disabled, the corresponding day will display "-". For example: (1, 2, 3, 4, 5, -, -) means the device does not work on Saturdays and Sundays.

4.Symbols ✓/×

When the timer function is enabled:✓ indicates the current power-on/off time setting is active;× indicates the current power-on/off time setting is inactive.

5.LCD shows "***" when the compressor is running

After reaching the set temperature, the compressor stops and restarts after 300s.To force continuous operation, set temperature to -40°C.

6.Safety Precautions

Ensure proper grounding using a 220V power socket with a grounded wire.

7.Timer Function

Weekly schedule follows the configured working days.

8.Troubleshooting

a.No Power: Check the 220V socket fuse.

b."Err" on Display: Temperature sensor failure; replace sensor.

c."*" Display with Compressor Not Running:

(1) Compressor overload/overheat protection triggered;

(2) Compressor coil burnt out;

(3) Control circuit fault.

d.No Cooling (Compressor & Fan Running):Internal compressor damage or refrigerant leak.

9.Accessories

Power cable × 1.

04 Packing List

No.	Item	Qty.
1	Cold Plate	1
2	Fuse (5A)	2
3	Power Cable	1
4	User Manual	1
5	Product Certificate	1
6	Packing List	1

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