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# HLM-2003EW Magnetic stirring high and low temperature reaction bath

# 1、Application

HLM series magnetic stirring low-temperature reaction tank can be realized by low-temperature constant temperature or high-temperature constant temperature of the sample directly magnetic stirring, without the need for external installation of electric mixer for sample stirring, easy to use and safe. It is suitable for temperature control in chemical synthesis, testing of electronic components at different temperatures, and material testing.

**2、Features**

● Low temperature -20℃ reaction tank, using two-stage compressor compound refrigeration technology, strong refrigeration, faster to reach the target temperature;

● The use of PID temperature control with advanced proportional refrigeration control technology greatly improves temperature stability;

● The magnetic stirrer inside the vessel is rotating, which can maintain the sample temperature uniformity and good precision for a long time;

● Adopting DC brushless motor with long life, trouble-free and infinitely adjustable speed;

● Alarm light and sound reminder at the same time, various alarm codes are displayed to determine the cause of the failure and repair methods;

● A variety of operating modes can be selected, accidental power failure can be automatically restored.

**3、Technical Parameters**

|  |  |
| --- | --- |
| Product Model | HLM-2003EW |
| Product No. | 1032032001 |
| Tank volume (L) | 3 |
| Temperature range (℃) | -20~40 |
| Temperature stability (℃) | ±0.5 |
| Operating ambient temperature (℃) | 5~32 |
| Speed range (RPM) | 0~1000 |
| Speed regulation mode | Knob |
| Power supply voltage (V) | 200~230 |
| Display temperature mode | LED |
| Setting mode | Membrane Keypad |
| Safety Protection | High Temperature Protection Over Temperature Protection |
| Heating power (W) | 1000 |
| Cooling power(W) | 300 |
| Refrigeration capacity(W) | 450 |
| Refrigerant | R404A |
| Stirring sub size(MM) | φ8\*30 |
| Sink opening(MM) | Φ140 |
| Tank depth size(MM) | Φ165\*140 |
| Maximum capacity of reaction vessel ml | 500 |
| Maximum diameter of reaction vessel mm | Φ106 |
| Overall dimension(MM)(W\*D\*H) | 500\*450\*370 |
| Packing size(MM)(W\*D\*H) | 615\*565\*500 |
| Net weight kg | 38 |
| Gross weight kg | 42 |

**4、Packing List**

|  |  |
| --- | --- |
| Name | Qty |
| Main unit | 1piece |
| Retractable tank cover | 1 piece |
| Magnetic stirrer | 1 piece |
| Vessel Clamp Column | 1 piece |
| Vessel clamp | 1 piece |
| Vessel Clamp Holder | 1 piece |
| Instruction manual | 1 piece |