

LOW TEMPERATURE THERMOSTATIC BATH

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DS-3015-II

Product Overview

The high and low temperature circulating integrated machine adopts the latest international professional fluorine-free refrigeration system. All major components are directly imported, ensuring stable and reliable performance. It is widely used in research departments, universities, and enterprise quality control and production departments in petroleum, chemical, electronic instrumentation, physics, chemical and biological engineering, life sciences, l

FEATURES

Product Features

1. Features power outage protection function
2. Features upper and lower limit temperature alarm setting function.
3. Low water level protection and alarm function
4. Temperature runaway protection and alarm function
5. The heating device has low water level anti-dry burning and explosion-proof functions.
6. Multiple protection functions for compressor overheating and overcurrent.

Technical Specification

Temperature range	-30~200°C
Temperature uniformity (horizontal/vertical) ethylene glycol	±0.05°C
Internal tank volume (length x width x tank depth)	300×250×200mm
Total capacity	15L
Working slot opening	235×160mm2
Pure water at a cooling capacity of 20°C	2700W
External circulation pump flow rate	13L/min

Optional features

1. An optional extended external PT100 temperature sensor can be installed to detect and control the temperature of the external system in real time during external circulation.
2. Optional built-in temperature control program with 1 to 30 segments, which can automatically control the temperature and display the program running status of the set temperature and time in real time.
3. Optional RS232 or RS485 communication interface for easy connection to host computer, with Modbus RTU communication protocol.
4. An optional magnetic stirring system can be designed and installed, which can directly stir the liquid sample in the beaker placed in the constant temperature bath working chamber, without the need for an external vertical stirrer, reducing cumbersome operations.
5. Optional built-in cooling coils in the tank can be used to quickly cool and control the exothermic reaction of the system.
6. An optional height-adjustable immersion platform can be installed to easily adjust the liquid level of the immersed sample.
7. Optional horizontal design, featuring compact structure, lower center of gravity, and strong stability

APPLICATION

•**External Equipment Temperature Control:** Highly effective for circulating temperature-controlled fluid to external laboratory equipment, such as rotary evaporators, jacketed glass reactors, viscometers, and analytical instruments.

•**Temperature-Sensitive Reactions:** Essential for safely managing exothermic chemical reactions by providing continuous cooling, as well as maintaining precise thermal conditions for sensitive biological and pharmaceutical processes.

•**Material and Component Testing:** Used extensively in materials science and engineering to evaluate the physical properties, durability, and stress tolerance of electronics, plastics, and metals across a wide temperature range (-30°C to 200°C).

•**Sensor and Instrument Calibration:** Provides an exceptionally stable and uniform temperature environment (with ±0.05°C uniformity), making it the perfect reference standard for calibrating thermometers, temperature probes, and other thermal sensors.

•**Sample Preservation and Conditioning:** Ideal for the precise incubation, thawing, conditioning, or preservation of biological samples, reagents, and chemical solutions that require strict, continuous temperature maintenance.