



## Product Data Sheet

### HT30-M1-CU High Temperature Circulator

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#### Product Image



#### Description

High Temperature Circulator for working temperatures up to 400 °C

JULABO high temperature circulators: The response to present requirements in the market. Peak performance, rapid heating and cooling, fast action in case of exotherm reactions - these are only few of the features of our high temperature circulators. The self-optimizing controller (ICC - Intelligent Cascade Control) ensures high temperature stability. The classic PID control parameters are available at the touch of a button for modification at any time. MULTI-DISPLAY (LED) and interactive LCD display offer convenient operation. The implemented heating automation, strong pump and controlled cooling produce rapid and precise results for temperature applications to +400 °C. The instruments are completely sealed. This prevents the release of oil fumes and results in long life time of the heat transfer liquid. Automatic air-purge allows easy filling. Electrical connections and the optional Profibus permit future-oriented automation technology. JULABO high temperature circulators are recommended for applications using jacketed reactors and autoclaves, distillation columns as well as laboratory, miniplant and process-scale applications.

#### Order Information

**Model:** HT30-M1-CU

**Order no.:** 9800035

Available mains power:  
230V / 50Hz  
230V / 60Hz

#### Advantages

- o Working temperature range up to 400 °C
- o Self-optimizing ICC temperature controller
- o Strong pumping capacity 18 l/min - 1.2 bar max
- o Automatic air-purge allows easy filling
- o Automated heat-up feature adjusts to external systems
- o Tap water cooling for temperatures from 40 to 400 °C and rapid cooling
- o Bright MULTI-DISPLAY (LED) with display resolution 0.01 °C
- o Backlit interactive 4-line LCD display
- o On-line communication via built-in RS232 interface
- o Analog setpoint/programmer input (0 to 20 mA / 0 to 10 V)
- o Integrated programmer stores up to 6 profiles (60 sections each)
- o Temperature recorder output (0 to 20 mA / 0 to 10 V)
- o Stand-by input for external emergency switch-off
- o Electronic level indication
- o ATC function for simple correction of temperature variations
- o ATC function allows use as testing instrument according to ISO 9000

#### Similar Models

These models could also be interesting for you:

**HT30-M1**  
**HT60-M2**  
**HT60-M2-CU**

#### Sales & Support:

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#### Technical Specifications

Working temperature range	40 ... 400 °C
Temperature control	PID+ICC
Temperature stability	±0.1 °C
Display	LED+LCD
Display resolution	0.01 °C
Integrated programmer	available
Heater capacity	3000 W
Pump capacity	Pressure: 1200 mbar Flow rate: 18 l/min
Digital interfaces	RS232, RS485, optional Profibus
External Pt100 sensor connection	available
Filling volume	2 Liters
Dimensions (W x L x H)	Thermostat: 43x23x58 / Regelelektronik: 25x25x18 cm
Weight	35 kg
Ambient temperature	5 ... 40 °C
Classification according to DIN 12876-1	3

#### Miscellaneous

Permissible cooling water pressure 4.5 bar max, pressure difference between IN and OUT: 2 to 4.5 bar