

HT30-M1 High Temperature Circulator

JULABO High Temperature Circulators can be used for temperature applications up to +400 °C. The units provide powerful heating capacities for shortest heat-up times and rapid compensation of exothermic and endothermic reactions. The closed construction prevents oil fumes even at high temperatures. The units provide automatic heat-up and cracking protection to ensure long life-time of the bath fluid. The filling system automatically purges the fluid system of air. Units with model designation ,C.U.' are equipped with a powerful cooling unit for tap water connection. This allows for temperature applications already at +20 °C and for rapid cooling. Typical applications: Reactors, autoclaves, distillation columns, miniplant installations, pilot plants and production facilities.



Your advantages

- Working temperature range up to 400 °C
- Self-optimizing ICC temperature controller
- Strong pumping capacity 18 l/min - 1.2 bar max
- Automatic air-purge allows easy filling
- Automated heat-up feature adjusts to external systems
- Bright MULTI-DISPLAY (LED) with display resolution 0.01 °C
- Backlit interactive 4-line LCD display
- RS232/RS485 interface for online communication
- Stand-by input for external emergency switch-off
- Integrated programmer stores up to 6 profiles (60 sections each)
- Electronic level indication
- ATC function for simple correction of temperature variations
- High heating capacity for short heat-up times
- High pump capacity
- Small filling volume
- Cooling water connection for cold oil overlay
- Extended lifetime of the fluid
- Easy to integrate into installations due to the modular concept (separation of circulator and operating panel)
- Various interfaces
- Reduction of pump pressure via bypass (accessory)

Technical data

Available voltage versions		Other	
Order No.	9 800 031	Classification	Classification III (FL)
Available voltage versions:		IP Code	IP 21
9 800 031.13	230V/60Hz (Nema N6-20 Plug)		
9 800 031.03	230V/50Hz (Schuko Plug - CEE 7/4 Plug Type F)		
Electronics		Dimensions and volumes	
Digital interface	RS232	Weight kg	27
External pt100 sensor connection	integrated	Dimensions cm (W × L × H)	23 x 23 x 58
Integrated programmer	6x60 steps	Filling volume l	2
Temperature control	ICC	Pump connections	M16x1 male
Temperature display	LED		
Temperature setting	Keypad		
Temperature values			
Working temperature range °C	+70 ... +400		

Temperature stability °C	±0.01 ... ±0.1
Ambient temperature °C	5 ... 40
Temperature display resolution °C	0.01

Power and capacities

230V/60Hz (Nema N6-20 Plug)

230V/60Hz	
Heating capacity kW	3
Cooling capacity	
°C	
kW	
Viscosity max. cST	30
Pump capacity flow rate l/min	14 ... 18
Pump capacity flow pressure bar	0.8 ... 1.2

230V/50Hz (Schuko Plug - CEE 7/4 Plug Type F)

230V/50Hz	
Heating capacity kW	3
Cooling capacity	
°C	
kW	
Viscosity max. cST	30
Pump capacity flow rate l/min	14 ... 18
Pump capacity flow pressure bar	0.8 ... 1.2

Benefits



JULABO. Quality.
Highest standards of quality for a long product life.



Green technology.
Development consistently applied environmentally friendly materials and technologies.



Satisfied customers.
11 subsidiaries and more than 100 partners worldwide guarantee fast and qualified JULABO support.



100% Checked.
100% testing. 100% quality. Each JULABO Circulator undergoes thorough quality testing before leaving the factory.



Quick start.
Individual JULABO consultation and comprehensive manuals at your disposal.



Services 24/7.
Around the clock availability. You can find suitable accessories, data sheets, manuals, case studies, and more at www.julabo.com.



Control from the external application
External Pt100 sensor connection for precise measurement and control directly in the external application