

## HT60-M3 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.



### Product features

- Self-optimizing ICC temperature controller
- Strong pumping capacity 18 l/min - 1.2 bar max
- Automatic air-purge allows easy filling
- Backlit interactive 4-line LCD display
- Electronic level indication
- Integrated programmer for 6 x 60 program steps
- Integrated programmer stores up to 6 profiles (60 sections each)
- High heating capacity for short heat-up times
- ATC function for simple correction of temperature variations
- Small filling volume
- 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)

### Performance values

208V/3PPE/60Hz (Without Plug)	
Heating capacity kW	6
Viscosity max. cSt	30
Pump capacity flow rate l/min	14 ... 18
Pump capacity flow pressure bar	0.8 ... 1.2
Power consumption A	19

Order No. 9800063.16

### Technical data

Available voltage versions

Order No.	9 800 063
Available voltage versions:	
9800063.16	208V/3PPE/60Hz (Without Plug)

Other	
Classification	Classification III (FL)
IP Code	IP 21

Electronics	
Interfaces	Profibus optional, RS232, RS485
External pt100 sensor connection	integrated
Integrated programmer	6x60 steps
Temperature control	ICC
Temperature display	LED
Temperature setting	Keypad

Dimensions and volumes	
Filling volume expansion vessel l	1
Internal usable expansion volume l	1.5
Weight kg	29
Dimensions cm (W x L x H)	23 x 23 x 58
Filling volume l	2
Pump connections	M16x1 male

Temperature values	
Working temperature range °C <sup>1</sup>	+70 ... +400
Temperature stability °C	±0.01 ... ±0.1
Ambient temperature °C	+5 ... +40
Setting the resolution of the temperature display °C	0.01

<sup>1</sup> Starting with a working temperature from 200 °C always use counter cooling.  
Bath fluids available for working temperatures up to +350°C.

## All Benefits



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



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



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



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



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



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



**Services 24/7.**  
Around the clock availability. You can find suitable accessories, data sheets, manuals, case studies, and more at [www.julabo.com](http://www.julabo.com).