

## HT60-M3-C.U. High temperature circulator with cooling unit

JULABO high-temperature circulators make temperature applications up to +400 °C possible. Models with the type suffix "C.U." have a powerful cooling unit for connection of tap water. This makes temperature applications from +20 °C and quick cooling phases possible. Typical applications are reactors, autoclaves, distillation columns and mini-plant, technical or 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
- High heating capacity for short heat-up times
- Integrated programmer stores up to 6 profiles (60 sections each)
- 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)
- Tap water cooling for temperatures from 40 to 400 °C and rapid cooling
- High cooling capacity up to 15 kW (at +20 °C cooling water and +300 °C oil temperature)
- Designed to quickly compensate exothermic and endothermic reactions

### 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. 9800066.16

### Technical data

Available voltage versions

Order No.	9 800 066
Available voltage versions:	
9800066.16	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	37
Dimensions cm (W x L x H)	43 x 23 x 58
Filling volume l	2
Pump connections	M16x1 male

Temperature values	
Working temperature range °C <sup>1</sup>	+40 ... +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> 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).