

## HT30-M1-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.



### 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
- 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
- Tap water cooling for temperatures from 40 to 400 °C and rapid cooling
- Cooling capacity up to 15 kW (with tap water 20°C)
- Controlled cooling water supply for temperature applications from +40 °C
- High cooling capacity up to 15 kW (at +20 °C cooling water and +300 °C oil temperature)
- Rapid cooling
- Rapid temperature control i. e. of exothermic reactions

### Technical data

| Available voltage versions        |   | Other                     |                         |
|-----------------------------------|---|---------------------------|-------------------------|
| Order No.                         | 9 800 035                                     | Classification            | Classification III (FL) |
| Available voltage versions:       |   | IP Code                   | IP 21                   |
| 9 800 035.13                      | 230V/60Hz (Nema N6-20 Plug)                   |                           |                         |
| 9 800 035.03                      | 230V/50Hz (Schuko Plug - CEE 7/4 Plug Type F) |                           |                         |
| Electronics                       |   | Dimensions and volumes    |                         |
| Digital interface                 | RS232   | Weight kg                 | 35                      |
| External pt100 sensor connection  | integrated                                    | Dimensions cm (W × L × H) | 43 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      | +40 ... +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 |

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| °C                              |             |
| kW                              |             |
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| 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](http://www.julabo.com).



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