MAGIO MS-BC4 Heating circulator

Like all circulators in the MAGIO range, the heating circulators are characterised by premium quality and high performance combined with intuitive usability. The devices offer extra powerful pressure and suction pumps to meet the most challenging demands for temperature control of external applications. Samples can also be temperature controlled in the internal bath of the high-quality, insulated and closed bath tank.

High resolution TFT touch display

The modern TFT touch display gives you all the important information at a glance. Three large, predefined main screens clearly display data and graphics with various application priorities. Menu navigation is self-explanatory, arranged by relevance to daily operations and easy to operate with the touch of a finger. The in-built help function provides detailed support in case of additional questions.





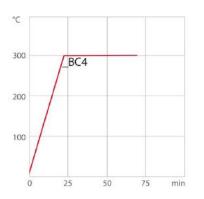
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Product features

- Models for internal and external applications from 3 to 26 liters
- Ideal for demanding external applications
- Simple control of complex applications
- Continuously adjustable, extremely powerful pressure / suction pump
- Large, high-resolution TFT touch display with multilingual user interface
- Parts being in contact with the medium made of stainless steel
- Flow rate 16 ... 31 I / min, pressure 0.24 ... 0.92 bar, suction 0.03 ... 0.4 bar
- Integrated programmer
- Integrated external Pt100 connection
- USB connection
- RS232 interface for online communication
- Ethernet
- analog interfaces (accessory)
- High-quality thermal insulation of the bath tanks
- Profibus DP (Accessory)
- Modbus
- RS232/RS485 interface for online communication
- Connections for solenoid valve
- Strong heating capacity of 3 kW (MX-Z) and 2 kW (MS-Z)



Heat-up time



Performance values

Technical data

Available voltage versions		Bath			
Order No.	9 032 504		Bath tank	Stainless steel	
Available voltage versions:			Bath cover	integrated	
9032504.22	100-115V/50-60	Hz (Nema N5-15 Plug)	Usable bath opening in. (W x L / D)	5.1 x 5.9 / 5.9	
9032504.33	200-230V/50-60 7/4 Plug Type F)	Hz (Schuko Plug - CEE			
9032504.04	200-230V/50-60 BS1363A)	Hz (UK Plug Type			
9032504.05	200-230V/50-60 1011)	Hz (CH Plug Type SEV			
9032504.33.chn	200-230V/50-60	Hz (CN Plug)			
Cooling			Other		
Cooling coil	integrated	Classification	Classification III (FL)		
			IP Code	IP 21	
			Pump function	Pressure Suction Pump	
			Pump type	Immersion Pump	
Electronics		Dimensions and volumes			
Digital interface		RS232, RS485, USB, Ethernet, Modbus, Standby-Input	Weight Ibs	24.5	
			Dimensions in. ($W \times L \times H$)	9.1 x 16.1 x 16.5	
External pt100 sensor connection integ		integrated	Filling volume l	3 4.5	

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Integrated programmer	8x60 steps	Pump connections	M16x1 male
Temperature control	ICC		
Absolute temperature calibration	10 Point Calibration		
Temperature displayTemperature display	7" TFT Touchscreen		
Temperature settingTemperature setting	Touchscreen		
Electronic Timer hr:min	00:00 99:59		
Temperature values			
Setting the resolution of the temperature display °C	0.01		
Working temperature range °C	+20 +300		
Temperature stability °C	±0.01		
Ambient temperature °C	+10 +40		
Temperature display resolution °C	0.01		

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.



JULABO. Quality.

Highest standards of quality for a long product life.



Satisfied customers.

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



Highest measuring accuracy

'Absolute Temperature Calibration' for manual compensation of a temperature difference, 10point calibration



Intelligent temperature control.

Intelligent cascade control - automatic and selfoptimizing adaptation of the PID control parameters with external stability of +/- 0.05 °C.



Maximum safety.

Classification III according to DIN12876-1 enables safe operation, even with flammable fluids. Automatic switch-off in the event of high temperature or low liquid level.



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.



Touch display. Perfect operation.

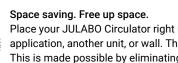
With the touch display, the user always has an overview of all values and functions. The intuitive and multilingual menu structure enables perfect control.



Many interfaces.

Straight-forward remote control, data management, and integration into process structures. USB, Ethernet, RS232, SD card, and alarm off are permanently integrated. Further interfaces available as accessories.

Place your JULABO Circulator right next to an application, another unit, or wall. That saves space. This is made possible by eliminating vents and connections on the sides.







Multi-lingual. Operation in multiple languages.



Temperature. Under control. External Pt100 sensor connection for precise measurement and control directly in the external application.



Process stability. Early warning - visual and acoustic - of critical states increases process stability.



Stable. Mobile.



Everything made of stainless steel.

Quality and material compatibility at the highest level. All parts in contact with the medium are entirely made of stainless steel.



Connection. Easy.

Inclined pump connections (M16×1) facilitate the connection of applications. Each unit includes 2 barbed fittings of 8/12 mm diameter each.



Most powerful pump.

The integrated pressure/suction pump with performance values of 0.9 bar and -0.4 bar is the most powerful in its class and continuously adjustable.



Programmer. Integrated. The integrated internal programmer makes it possible to automatically run temperature time profiles.



Fill level. Monitored. Fill level indicator on the display for heat-transfer liquid.



Process. Under control. Full control of the dynamic, access to all important control parameters for individual process optimization.



Energy-saving. The high-quality insulation of all relevant components saves energy.



Wide range.

Refrigerated and heating circulator in various combinations, circulator in various sizes. Maximum flexibility through a large selection of accessories.



Analog I/O.

Analog interfaces for integration into process control systems (optional).



Condensation protection.

Superb design solution. Integrated ventilation directs air over the bath lid and minimizes condensation.