

MAGIO MX-BC12 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.



Your advantages

- Combined RS232/RS485 interface for serial data transmission according to the EIA-485 industry standard (2-wire bus technology), upgradeable with Profibus DP

Technical data

Available voltage versions		Bath	
Order No.	9 033 512	Bath tank	Stainless steel
Available voltage versions:		Bath cover	integrated
9 033 512.33	200-230V/50-60Hz (Schuko Plug - CEE 7/4 Plug Type F)	Usable bath opening cm (W x L / D)	22 x 15 / 20
9 033 512.33.chn	200-230V/50-60Hz (CN Plug)		
Cooling		Other	
Cooling coil	integrated	Classification	Classification III (FL)
		IP Code	IP 20
		Pump function	Pressure Suction Pump
		Pump type	Immersion Pump
Electronics		Dimensions and volumes	
External pt100 sensor connection	integrated	Weight kg	14.6
Integrated programmer	8x60 steps	Dimensions cm (W x L x H)	33 x 49 x 47
Temperature control	ICC	Filling volume l	8.5 ... 12
Absolute temperature calibration	3 Point Calibration	Pump connections	M16x1 male
Temperature display	7" TFT Touchscreen		
Temperature setting	Touchscreen		
Electronic Timer hr:min	00:00 ... 00:00		
Temperature values			
Setting the resolution of the temperature display °C	0.01		
Working temperature range °C	+20.0 ... +300.0		
Temperature stability °C	+/-0.01		
Ambient temperature °C	+10.0 ... +40.0		
Temperature display resolution °C	0.01		

Performance values

200-230V/50-60Hz (Schuko Plug - CEE 7/4 Plug Type F)

200V/50Hz		200V/60Hz	
Heating capacity kW	2.3	Heating capacity kW	2.3
Viscosity max. cST	50	Viscosity max. cST	50
Pump capacity flow rate l/min	16 ... 31	Pump capacity flow rate l/min	16 ... 31
Pump capacity flow pressure bar	0.24 ... 0.92	Pump capacity flow pressure bar	0.24 ... 0.92
Maximum suction bar	-0.03 ... -0.4	Maximum suction bar	-0.03 ... -0.4
230V/50Hz		230V/60Hz	
Heating capacity kW	3	Heating capacity kW	3
Viscosity max. cST	50	Viscosity max. cST	50
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All 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.



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



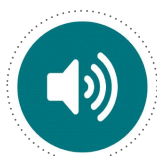
Many interfaces.
Straight-forward remote control, data management, and integration into process structures. USB, Ethernet, RS232, SD card, and alarm off are permanently integrated. Further interfaces available as accessories.



Connection. Easy.
Inclined pump connections (M16x1) facilitate the connection of applications. Each unit includes 2 barbed fittings of 8/12 mm diameter each.



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.



ATC3. Calibration.
'Absolute Temperature Calibration' for compensating a physically caused temperature difference, 3-point calibration.



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



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).



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



Stable. Mobile.
Rubber feet keep JULABO Circulators standing firm. Larger and more powerful units also have integrated rollers for easy handling.



Space saving. Free up space.
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.



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.



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.



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.



Most powerful pump.
The integrated pressure/suction pump with performance values of 0.9 bar and -0.5 bar is the most powerful in its class and continuously adjustable.



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



Multi-lingual.
Operation in multiple languages.



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



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