

MAGIO MS-Z Bridge Mounted Circulator

MAGIO bridge mounted circulators combine high temperature control performance with maximum flexibility. The adjustable bridge means that the circulators can be used with bath tanks up to a filling volume of 100 liters.

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

- USB connection
- Integrated programmer
- Integrated external Pt100 connection
- analog interfaces (accessory)
- Ideal for demanding external applications
- Models for internal and external applications from 3 to 26 liters
- Immersion depth of 200 mm (MX-Z) and 150 mm (MS-Z)
- Simple control of complex applications
- Flow rate 16 ... 31 l / min, pressure 0.24 ... 0.92 bar, suction 0.03 ... 0.4 bar
- Continuously adjustable, extremely powerful pressure / suction pump
- Strong heating capacity of 3 kW (MX-Z) and 2 kW (MS-Z)
- Extendable stainless steel bridge from 33 to 68 cm
- Parts being in contact with the medium made of stainless steel
- Built-in drain tap for easy and safe drainage
- Ethernet
- Profibus DP (Accessory)
- Modbus

Technical data

Available voltage versions		Cooling	
Order No.	9 032 201	Cooling coil	integrated
Available voltage versions:			
9 032 201.33			
9 032 201.33.chn			
9 032 201.22			
9 032 201.05			
9 032 201.04			
Other		Electronics	
Classification	Classification III (FL)	External pt100 sensor connection	integrated
IP Code	IP 21	Integrated programmer	8x60 steps
Pump function	Pressure Suction Pump	Temperature control	ICC
Pump type	Immersion Pump	Absolute temperature calibration	3 Point Calibration
		Temperature display	7" TFT Touchscreen
		Temperature setting	Touchscreen
		Electronic Timer hr:min	00:00 ... 00:00
Dimensions and volumes		Temperature values	
Usable immersion depth cm	15		

Weight kg	7.2	Setting the resolution of the temperature display °C	0.01
Dimensions cm (W × L × H)	34 x 19 x 36	Working temperature range °C	+20.0 ... +300.0
Pump connections	M16x1 male	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	1.6	Heating capacity kW	1.6
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	2	Heating capacity kW	2
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

200-230V/50-60Hz (CN Plug)

200V/50Hz		200V/60Hz	
Heating capacity kW	1.8	Heating capacity kW	1.8
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	1.8	Heating capacity kW	1.8
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

100-115V/50-60Hz (Nema N5-15 Plug)

100V/50Hz		100V/60Hz	
Heating capacity kW	0.8	Heating capacity kW	0.8
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

115V/60Hz

Heating capacity kW	1
Viscosity max. cST	50
Pump capacity flow rate l/min	16 ... 31
Pump capacity flow pressure bar	0.24 ... 0.92
Maximum suction bar	-0.03 ... -0.4

200-230V/50-60Hz (CH Plug Type SEV 1011)

200V/50Hz

Heating capacity kW	1.6
Viscosity max. cST	50
Pump capacity flow rate l/min	16 ... 31
Pump capacity flow pressure bar	0.24 ... 0.92
Maximum suction bar	-0.03 ... -0.4

200V/60Hz

Heating capacity kW	1.6
Viscosity max. cST	50
Pump capacity flow rate l/min	16 ... 31
Pump capacity flow pressure bar	0.24 ... 0.92
Maximum suction bar	-0.03 ... -0.4

230V/50Hz

Heating capacity kW	2
Viscosity max. cST	50
Pump capacity flow rate l/min	16 ... 31
Pump capacity flow pressure bar	0.24 ... 0.92
Maximum suction bar	-0.03 ... -0.4

230V/60Hz

Heating capacity kW	2
Viscosity max. cST	50
Pump capacity flow rate l/min	16 ... 31
Pump capacity flow pressure bar	0.24 ... 0.92
Maximum suction bar	-0.03 ... -0.4

200-230V/50-60Hz (UK Plug Type BS1363A)

200V/50Hz

Heating capacity kW	1.8
Viscosity max. cST	50
Pump capacity flow rate l/min	16 ... 31
Pump capacity flow pressure bar	0.24 ... 0.92
Maximum suction bar	-0.03 ... -0.4

200V/60Hz

Heating capacity kW	1.8
Viscosity max. cST	50
Pump capacity flow rate l/min	16 ... 31
Pump capacity flow pressure bar	0.24 ... 0.92
Maximum suction bar	-0.03 ... -0.4

230V/50Hz

Heating capacity kW	2
Viscosity max. cST	50
Pump capacity flow rate l/min	16 ... 31
Pump capacity flow pressure bar	0.24 ... 0.92
Maximum suction bar	-0.03 ... -0.4

230V/60Hz

Heating capacity kW	2
Viscosity max. cST	50
Pump capacity flow rate l/min	16 ... 31
Pump capacity flow pressure bar	0.24 ... 0.92
Maximum suction bar	-0.03 ... -0.4

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.



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.



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.



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.



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.



Multi-lingual.
Operation in multiple languages.



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



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



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



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



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



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



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



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



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.



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.



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



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



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.