

MAGIO MS-900F Refrigerated / heating circulator

As with all circulators from the MAGIO range, the refrigerated circulators stand out thanks to their premium quality, high performance and intuitive operation. The devices offer extra strong pressure and suction pumps, thus fulfilling the highest demands for temperature control of external applications. Whether in basic research, material testing or technical systems - the MAGIO refrigerated circulators offer high-tech solutions for high customer requirements.

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.



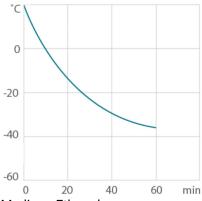


Product features

- Ideal for demanding external applications
- · Simple control of complex applications
- Continuously adjustable, extremely powerful pressure / suction pump
- Flow rate 16 ... 31 l / min, pressure 0.24 ... 0.92 bar, suction 0.03 ... 0.4 bar
- Large, high-resolution TFT touch display with multilingual user interface
- · Parts being in contact with the medium made of stainless steel
- Integrated programmer
- Integrated external Pt100 connection
- USB connection
- RS232 interface for online communication
- Ethernet
- analog interfaces (accessory)
- Class III (FL) according to DIN 12876-1
- Modbus
- Profibus DP (Accessory)
- RS232/RS485 interface for online communication
- · Connections for solenoid valve



Cool-down time



Medium: Ethanol

Performance values

115V/60Hz (Nema N5-20 Plug)	
Heating capacity kW	1
Viscosity max. cSt	70
Pump capacity flow rate I/min	16 31
Pump capacity flow pressure bar	0.24 0.92
Maximum suction bar	-0.030.4
Power consumption A	16

Order No.		9032706.02				
Cooling ca	pacity (Ethanol)					
°C	20	10	0	-10	-20	-30
kW	0.9	0.85	0.8	0.52	0.31	0.11
*Performance specifications measured in accordance with DIN 12876. Cooling capacities up to 20 °C measured with ethanol; over 20 °C with thermal oil unless otherwise specified. Performance specifications apply at an ambient temperature of 20 °C. Performance values may differ with other bath fluids.						
Refrigerant st	tage 1					
Refrigerant	t	R449A				
Filling weig	ght g	220				
Global War for R449A	ming Potential	1397				
Carbon dio	oxide equivalent	0.307				

Technical data

Available volta	ge versions	Bath	
Order No.	9 032 706	Bath tank	Stainless steel
Available voltage	versions:	Bath cover	integrated
9032706.02	115V/60Hz (Nema N5-20 Plug) (R449A)	Usable bath opening cm (W x L / D)	26 x 35 / 20
9032706.05	200-230V/50-60Hz (CH Plug Type SEV 1011) (R449A)		



9032706.04 200-230V/50-60Hz (UK Plug Type

BS1363A) (R449A)

9032706.33 200-230V/50-60Hz (Schuko Plug - CEE

7/4 Plug Type F) (R449A)

9032706.33.chn 200-230V/50-60Hz (CN Plug) (R449A)

Cooling		Other
Cooling of compressor 1-stage Air		Classification
		IP Code
		Pump function
		Pump type

Other	
Classification	Classification III (FL)
IP Code	IP 21
Pump function	Pressure Suction Pump
Pump type	Immersion Pump
User Interface Language	Chinese, Czech, Dutch, English, French, German, Italian, Japanese, Korean, Polish, Portuguese, Russian, Spanish, Turkish

Electronics	
Interfaces	Ethernet, Modbus, RS232, RS485, Stakei, USB
External pt100 sensor connection	integrated
Integrated programmer	8x60 steps
Temperature control	ICC
Absolute temperature calibration	10 Point Calibration
Temperature display	7" TFT Touchscreen
Temperature setting	Touchscreen
Electronic Timer hr:min	00:00 99:59

Dimensions and volumes			
Weight kg	54.9		
Dimensions cm (W × L × H)	39 x 62 x 75		
Filling volume I	21 30		
Pump connections	M16x1 male		

Temperature values	
Setting the resolution of the temperature display °C	0.01
Working temperature range °C	-38 +200
Temperature stability °C	±0.01
Ambient temperature °C	+10 +40
Temperature display resolution °C	0.01

Included in delivery

2 Barbed fittings for tubing 8 and 12 mm ID. (Pump connections M16x1 male) $\,$

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.



Intelligent temperature control.

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



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.



Highest measuring accuracy

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



Quick support

If an error occurs, the integrated Black-Box function permits fast diagnosis by the JULABO service team



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.



Analog I/O.

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



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.



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.



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.



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.



Condensation protection.

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



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.



1.888.610.7664





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



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.

Process. Under control.



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