

Advanced Test Equipment Corp.

Rentals • Sales • Calibration • Service
www.atecorp.com (800) 404 - 2832



Product data sheet

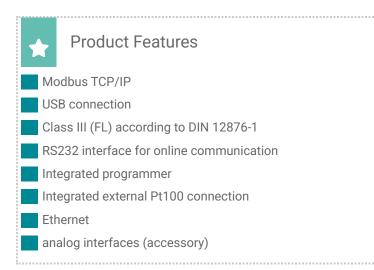
MAGIO MX-1800F Refrigerated / heating circulator

Our most powerful laboratory circulators with the highest cooling and heating capacity

High resolution TFT touch display

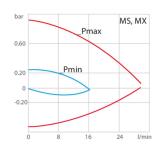
The modern TFT touch display gives you all the important information at a glance. Three large, predefined main screens clearly display data and graphics with various application priorities. Menu navigation is self-explanatory, arranged by relevance to daily operations and easy to operate with the touch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



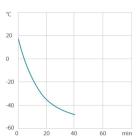


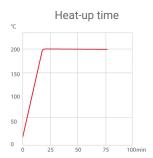


Pump capacity Medium: Water



Cool-down time







Performance values

200V/60Hz (Multiple Plugs (EU / US))	
Heating capacity kW	2.3
Viscosity max. cSt	70
Pump capacity flow pressure I/min	16 31
Pump capacity pressure psi	3.5 10.2
Maximum suction psi	-0.45.8
Power consumption A	12
Voltage Tolerance %	200V ±10

Order number including voltage version (200V/60H:			/60Hz)		
Cooling cap	pacity 1 (Eth	anol)			
°C	20	0	-20	-30	-40
kW 1	1.87	1.57	0.77	0.47	0.3
Cooling car	pacity 2 (Eth	ianol)			
°C	20	0	-20	-30	-40
kW 1	1.8	1.5	0.7	0.4	0.23
	ural refrigerants: ontrol units using		ants are often s	ubject to regulate	orv requiremer
	we will be happy		ants are often s	ubject to regulati	ory requirerne
Refrigeran	nt stage 1				
Refrigerant		R1270	0		
Filling weight g		99			
Global Warming Potential for R1270		2			
Carbon dioxide equivalent t		0.000	198		
Carbon dioxide equivalent t		0.000	198		

¹ 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. Cooling capacity 1 = capacity at minimum pump level, cooling capacity 2 = capacity at maximum pump level



Technical data

Available voltage versions	
Order No.	9033751
Available voltage versions:	
9033751.N1.33.chn	200-230V 50/60Hz (CN Plug) (R1270)
9033751.N1.33	200-230V 50/60Hz (Multiple Plugs (EU / US)) (R1270)
9033751.N1.04	200-230V 50/60Hz (UK Plug Type BS1363A) (R1270)

Cooling	
Cooling of compressor	1-stage Air

Bath	
Bath tank	Stainless steel
Bath cover	integrated
Usable bath opening in. (W x L / D)	7.1 x 5.1 / 7.9

Electronics	
Interfaces	Ethernet, Modbus TCP/IP, 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 h:min	00:00 99:59

Dimensions and volumes	
Weight lbs	134.5
Total dimensions in. (W × L × H)	15.7 x 19.7 x 35
Filling volume I	6.5 11
Pump connections	M16x1 male

Temperature values	
Setting the resolution of the temperature display °C	0.01
Working temperature range °C	-50 +200
Temperature stability °C	±0.01
Ambient temperature °C	+5 +40
Temperature display resolution °C	0.01

Other	
Classification	Classification III (FL)
IP Code	IP 20
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



Included in delivery

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

All Benefits



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.



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.



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.



Analog I/O.

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



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



Stable. Mobile.



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 -0.4 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.



Condensation protection.

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





Connection. Easy.

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



Highest measuring accuracy

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

Refer to www.julabo.com for more information regarding the entire JULABO product portfolio. Technical changes without prior notification. Images may deviate from the original. | Datasheet No.EN-US9033751/250730