

MAGIO MS-1000F 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

Technical data

Available voltage	versions	Bath						
Order No.	9 032 707	Bath tank	Stainless steel					
Available voltage vers	ions:	Bath cover	integrated					
9 032 707.02	115V/60Hz (Nema N5-20 Plug)	Usable bath opening in. (W x L / D)	7.1 x 5.1 / 5.9					
9 032 707.05	200-230V/50-60Hz (CH Plug Type SEV 1011)							
9 032 707.04	200-230V/50-60Hz (UK Plug Type BS1363A)							
9 032 707.33	200-230V/50-60Hz (Schuko Plug - CEE 7/4 Plug Type F)							
9 032 707.33.chn	200-230V/50-60Hz (CN Plug)							
Cooling		Other						
Cooling of compresso	or 1-stage Air	Classification	Classification III (FL)					
		IP Code	IP 21					
		Pump function	Pressure Suction Pump					
		Pump type	Immersion Pump					



Electronics	
External pt100 sensor connection	integrated
Integrated programmer	8x60 steps
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



Dimensions and volumes	
Weight lbs	119.3
Dimensions in. (W \times L \times H)	16.5 x 19.3 x 27.6
Filling volume I	5 7.5
Pump connections	M16x1 male



Temperature values	
Setting the resolution of the temperature display °C	0.01
Working temperature range °C	-50 + 200.0
Temperature stability °C	+/-0.01
Ambient temperature °C	+10.0 +40.0
Temperature display resolution °C	0.01



Performance values

115V/60Hz (Nema N5-20 Plug)

115V/60Hz													
Heating capacity kW 1													
Cooling capacity (Ethanol)													
°C	20	10	0	-10	-20	-30	-40						
kW	1	0.96	0.96	0.7	0.51	0.25	0.11						
Viscos	sity ma	ıx. cST				-	70						
Refrigerant R449A													
Filling	volum	e g					190						
Globa	l Warm	ning Po	tential	for R4	149A		1397						
Carbo	n dioxi	de equ	iivalen	t t		(0.265						
Pump	capac	ity flov	v rate l	/min			16 31						
Pump capacity flow pressure psi 3.5 13.3													
Maximum suction psi -0.45.8													
Power			Power 16 A										

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

200V	00V/50Hz							200V/60Hz							
Heatin	g cap	acity k	W				1.6	Heating capacity kW 1.6							
Coolin	g capa	acity (E	thanol)				Cooling capacity (Ethanol)							
°C	20	10	0	-10	-20	-30	-40	°C	20	10	0	-10	-20	-30	-40
kW	1	0.96	0.96	0.7	0.51	0.25	0.11	kW	1	0.96	0.96	0.7	0.51	0.25	0.11
Viscos	sity ma	ax. cST					70	Viscos	sity ma	ax. cST					70
Refrigerant R449A							Refrig	erant						R449A	
Filling volume g 190						Filling	volum	ne g					190		
Global Warming Potential for R449A 1397							Global	Warm	ning Po	tential	for R	149A		1397	
Carbon dioxide equivalent t 0.265							Carbo	n diox	ide equ	ıivalen	t t		(0.265	
Pump capacity flow rate I/min 16 31							Pump	capac	ity flov	v rate l	/min		•	16 31	
Pump capacity flow pressure psi 3.5 13.3							Pump	capac	;	3.5 13.3					
Maximum suction psi -0.45.8							Maximum suction psi -0.45.8								
Power							10 A	Power						•	10 A
230V	/50⊢	lz						230V	/60H	łz					
Heatin	g cap	acity k	W				2	Heating capacity kW 2							
Coolin	g capa	acity (E	thanol)				Cooling capacity (Ethanol)							
°C	20	10	0	-10	-20	-30	-40	°C	20	10	0	-10	-20	-30	-40
kW	1	0.96	0.96	0.7	0.51	0.25	0.11	kW	1	0.96	0.96	0.7	0.51	0.25	0.11
Viscos	sity ma	ax. cST					70	Viscos	sity ma	ax. cST				-	70
Refrig	erant						R449A	Refrigerant R449A							R449A
Filling	volum	ie g					190	Filling	volum	ne g				•	190
Global Warming Potential for R449A 1397						Global Warming Potential for R449A 1397							1397		
Carbon dioxide equivalent t 0.265						0.265	Carbon dioxide equivalent t 0.265							0.265	
Pump	capac	ity flov	v rate l	/min			16 31	Pump capacity flow rate I/min 16 31						16 31	
Pump	Pump capacity flow pressure psi 3.5 13.3						Pump capacity flow pressure psi 3.5 13.3								



Maximum suction psi	-0.45.8	Maximum suction psi	-0.45.8
Power	10 A	Power	10 A

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

200V	/50H	lz							200V	/60F	lz							
Heatin	g cap	acity k	W				1.6		Heating capacity kW 1.6									
Coolin	g capa	acity							Cooling capacity (Ethanol)									
°C	20	10	0	-10	-20	-30	-40		°C	20	10	0	-10	-20	-30	-40		
kW	1	0.96	0.96	0.7	0.51	0.25	0.11		kW	1	0.96	0.96	0.7	0.51	0.25	0.11		
Viscos	ity ma	ax. cST					70		Viscos	sity ma	ax. cST	•				70		
Refrige	erant					1	R449A		Refrige	erant					1	R449A		
Filling	volum	ie g					190		Filling	volum	ne g					190		
Global	Warm	ning Po	tentia	l for R	149A		1397		Global	Warm	ning Po	otential	for R	449A		1397		
Carbor	Carbon dioxide equivalent t 0.265							Carbo	n diox	ide equ	uivalen	t t		(0.265			
Pump capacity flow rate I/min 16 31						Pump	capac	ity flov	v rate l	/min			16 31					
Pump	Pump capacity flow pressure psi 3.5 13.3							Pump	capac	ity flov	w press	sure p	si	;	3.5 13			
Maxim	ıum sı	uction	psi				-0.45.8		Maximum suction psi							-0.45.8		
Power	Power 12					12 A		Power							12 A			
230V	/50H	lz							230V	/60H	łz							
Heatin	g capa	acity k	W			:	2		Heating capacity kW						:	2		
Coolin	g capa	acity (E	thano	l)					Cooling capacity (Ethanol)									
°C	20	10	0	-10	-20	-30	-40		°C	20	10	0	-10	-20	-30	-40		
kW	1	0.96	0.96	0.7	0.51	0.25	0.11		kW	1	0.96	0.96	0.7	0.51	0.25	0.11		
Viscos	ity ma	ax. cST					70		Viscosity max. cST 70									
Refrige	erant					1	R449A		Refrige	erant					1	R449A		
Filling	volum	ie g					190		Filling volume g 190									
Global	Warm	ning Po	tentia	l for R	149A		1397		Global	Warm	ning Po	otential	for R	449A		1397		
Carbor	n dioxi	ide equ	ıivalen	t t			0.265		Carbon dioxide equivalent t 0.265									
Pump	capac	ity flov	v rate l	/min			16 31		Pump capacity flow rate I/min 16 31									
Pump	capac	ity flov	v press	sure p	si		3.5 13.3		Pump capacity flow pressure psi 3.5 13.3									
Maxim	ıum sı	uction	psi				-0.45.8		Maximum suction psi -0.45.8									
Power							13 A		Power							13 A		

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

200V	/50H	lz						200V/60Hz							
Heatin	ıg cap	acity k	W			-	1.6	Heating capacity kW							1.6
Coolin	Cooling capacity (Ethanol)								g capa	acity (E	thano	l)			
°C	20	10	0	-10	-20	-30	-40	°C	20	10	0	-10	-20	-30	-40
kW	1	0.96	0.96	0.7	0.51	0.25	0.11	kW	1	0.96	0.96	0.7	0.51	0.25	0.11
Viscos	Viscosity max. cST 70							Viscosity max. cST 70							
Refrig	erant					F	R449A	Refrigerant R449							R449A
Filling volume g 190								Filling volume g 190							190
Global Warming Potential for R449A 1397								Global Warming Potential for R449A 1397							1397
Carbon dioxide equivalent t 0.265							Carbon dioxide equivalent t 0.265							0.265	
Pump	Pump capacity flow rate I/min 16 31							Pump capacity flow rate I/min 16 31					16 31		



Dumm	mp capacity flow pressure psi 3.5 13.3								Pump capacity flow pressure psi						0 F 10 0	
	•	,	•	sure ps	51				•		3.5 13.3					
Maxin	num sı	uction	psi			-	-0.40.6	Maxim	ıum sı		-0.45.8					
Power	r					•	15 A	Power							15 A	
230V	230V/50Hz								/60H	lz						
Heating capacity kW 2							Heatin	g cap	acity k\	W				2		
Coolir	Cooling capacity (Ethanol)							Coolin	g capa	acity (E	thanol)				
°C	20	10	0	-10	-20	-30	-40	°C	20	10	0	-10	-20	-30	-40	
kW	1	0.96	0.96	0.7	0.51	0.25	0.11	kW	1	0.96	0.96	0.7	0.51	0.25	0.11	
Viscos	sity ma	ax. cST	•			-	70	Viscos	ity ma	ax. cST				•	70	
Refrig	erant					ı	R449A	Refrigerant						1	R449A	
Filling	volum	ne g				•	190	Filling	volum	ie g					190	
Globa	l Warm	ning Po	tential	for R4	149A	•	1397	Global	Warm	ning Po	tential	for R4	149A		1397	
Carbo	n diox	ide equ	uivalen	t t		(0.265	Carbo	n dioxi	ide equ	ıivalent	t t			0.265	
Pump capacity flow rate I/min 16 31							16 31	Pump capacity flow rate I/min							16 31	
Pump capacity flow pressure psi 3.5 13.3							Pump capacity flow pressure psi							3.5 13.3		
Maximum suction psi -0.45.8							Maximum suction psi							-0.45.8		
Power	Power 16 A						Power						16 A			

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

Heating capacity kW	000	0001//5011-							000///6011-							
Cooling capacity (Ethanol) °C 20 10 0 -10 -20 -30 -40 'C 20 10 0 -10 -20 -30 -40 kW 1 0.96 0.70 0.51 0.25 0.11 kW 1 0.96 0.70 0.51 0.25 0.11 Viscosity max. cST 70 Refrigerant Filling volume cST 70 Refrigerant Refrigerant Refrigerant Refrigerant 70 Refrigerant Pung capacity flow policy max. cST 70 Refrigerant 8449A Refrigerant 190 Global Warming Potential for R449A 1397 Global Warming Potential for R449A 1397 Carbon dioxide equivalent 0.265 Carbon dioxide equivalent 0.265 Pung capacity flow prate l/min 190 Carbon dioxide equivalent 190 <td cols<="" td=""><td>200V</td><td>/50H</td><td>IZ</td><td></td><td></td><td></td><td></td><td></td><td colspan="7">200V/60Hz</td></td>	<td>200V</td> <td>/50H</td> <td>IZ</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td colspan="7">200V/60Hz</td>	200V	/50H	IZ						200V/60Hz						
**C 20 10 0 -10 -20 -30 -40 kW 1 0.96 0.96 0.7 0.51 0.25 0.11 kW 1 0.96 0.96 0.7 0.51 0.25 0.11 Viscosity max. cST 70 Viscosity max. cST 70 Refrigerant R449A R449A R8449A R8449A R90 Filling volume g 190 Global Warming Potential for R449A 1397 Carbon dioxide equivalent t 0.265 Carbon dioxide equivalent t 0.265 Pump capacity flow rate l/min 16 31 Pump capacity flow rate l/min 16 31 Pump capacity flow pressure psi 3.5 13.3 Pump capacity flow pressure psi 3.5 13.3 Power 13 A 230V/60Hz Lead to pack ty kW 2 230V/60Hz 230V/60Hz 230V/60Hz 230 13.3	Heatin	g cap	acity k	W				1.6	Heating capacity kW 1.6							
KW	Coolin	g capa	acity (E	thanol)				Cooling capacity (Ethanol)							
Viscosity max. cST	°C	20	10	0	-10	-20	-30	-40	°C	20	10	0	-10	-20	-30	-40
Refrigerant	kW	1	0.96	0.96	0.7	0.51	0.25	0.11	kW	1	0.96	0.96	0.7	0.51	0.25	0.11
Filling volume g Part	Viscosity max. cST 70						Viscos	ity ma	ax. cST				-	70		
Global Warming Potential for R449A 1397 Carbon dioxide equivalent t 0.265 Pump capacity flow rate l/min 16 31 Pump capacity flow pressure psi 3.5 13.3 Maximum suction psi -0.45.8 Power 13 A Power 13 A 230V/50Hz Heating capacity (Ethanol) *C 20 10 0.96 0.70 0.51 0.25 0.11 Viscosity max. cST 70 Viscosity max. cST 70 Refrigerant	Refrigerant R449A							Refrige	erant					ı	R449A	
Carbon dioxide equivalent t 0.265 Carbon dioxide equivalent t 0.265 Pump capacity flow rate I/min 16 31 Pump capacity flow rate I/min 16 31 Pump capacity flow rate I/min 16 31 Pump capacity flow pressure psi 3.5 13.3 Maximum suction psi -0.45.8 Power 13 A 230V/50Hz Heating capacity kW 2 Cooling capacity (Ethanol) °C 20 10 0 -10 -20 -30 -40 kW 1 0.96 0.7 0.51 0.25 0.11 Viscosity max. cST 70 Viscosity max. cST 70 R449A Refrigerant R449A Refrigerant R449A R449A Filling volume g 190 Filling volume g 190 Global Warming Potential for R449A 1397 Carbon dioxide equivalent t 0.265 Carbon dioxide equivalent t 0.265 Pump capacity flow rate I/min 16 31	Filling volume g 190						Filling	volum	ie g					190		
Pump capacity flow rate I/min 16 31 Pump capacity flow pressure psi 3.5 13.3 Pump capacity flow pressure psi 3.5 13.3 Maximum suction psi -0.45.8 Power 13 A 230V/60Hz Leating capacity kW 2 Cooling capacity (Ethanol) °C 20 10 0 -10 -20 -30 -40 kW 1 0.96 0.96 0.7 0.51 0.25 0.11 Viscosity max. cST 70 Refrigerant R449A Refrigerant R449A Refrigerant R449A 190 Filling volume g 190 Filling volume g 190 Global Warming Potential for R449A 1397 Carbon dioxide equivalent t 0.265 Pump capacity flow rate I/min 16 31	Global Warming Potential for R449A 1397						Global	Warm	ning Po	tential	for R	149A		1397		
Pump capacity flow pressure psi 3.5 13.3 Maximum suction psi -0.45.8 Maximum suction psi -0.45.8 Power 13 A Power 13 A 230V/50Hz Heating capacity (Ethanol) 2 Heating capacity (Ethanol) 2 Cooling capacity (Ethanol) 2 Cooling capacity (Ethanol) 2 *****C 20 10 0 -10 -20 -30 -40 kW 1 0.96 0.96 0.7 0.51 0.25 0.11 Viscosity max. cST 70 Viscosity max. cST 70 70 Refrigerant R449A Refrigerant R449A Refrigerant R449A Refrigerant R449A Refrigerant R449A Refrigerant 0.265 Carbon dioxide equivalent t 0.265 0.265 0.265 0.265 0.265 0.265 0.265 0.265 0.265 0.265 0.265 0.265 0.265 0.265 0.265 0.265 0.265 0.265 0.265 0.265 <td< td=""><td colspan="6">Carbon dioxide equivalent t 0.265</td><td>Carbor</td><td>n dioxi</td><td>ide equ</td><td>ıivalen</td><td>t t</td><td></td><td>(</td><td>0.265</td></td<>	Carbon dioxide equivalent t 0.265						Carbor	n dioxi	ide equ	ıivalen	t t		(0.265		
Maximum suction psi -0.45.8 Maximum suction psi -0.45.8 Power 13 A Power 13 A 230V/60Hz Heating capacity kW 2 Heating capacity (Ethanol) ***C 20 10 0 -10 -20 -30 -40 ***C 20 10 -90 -90 -90 -90 -90 -90 -90 </td <td colspan="6">Pump capacity flow rate I/min 16 31</td> <td>Pump</td> <td>capac</td> <td>ity flov</td> <td>v rate l</td> <td>/min</td> <td></td> <td></td> <td>16 31</td>	Pump capacity flow rate I/min 16 31						Pump	capac	ity flov	v rate l	/min			16 31		
Power 13 A 230V/50Hz Heating capacity kW 2 Heating capacity kW 2 Cooling capacity (Ethanol) °C 20 10 0 -10 -20 -30 -40 c 20 10 0 -10 -20 -30 -40 kW 1 0.96 0.96 0.7 0.51 0.25 0.11 Viscosity max. cST 70 Viscosity max. cST 70 70 Refrigerant R449A Refrigerant R449A Filling volume g 190 Global Warming Potential for R449A 1397 Carbon dioxide equivalent t 0.265 Pump capacity flow rate I/min 16 31	Pump capacity flow pressure psi 3.5 13.3							Pump	capac	;	3.5 13.3					
230V/50Hz Heating capacity kW 2 Heating capacity kW 2 Cooling capacity (Ethanol) °C 20 10 0 -10 -20 -30 -40 c 20 10 0 -10 -20 -30 -40 kW 1 0.96 0.96 0.7 0.51 0.25 0.11 0 -10 -20 -30 -40 kW 1 0.96 0.96 0.7 0.51 0.25 0.11 Viscosity max. cST 70 Viscosity max. cST 70 70 70 70 70 70 70 70 70 70 70 70 70 70 70 70 70 70 70 70 70 70 70 70 70 70 70 70 70 70 70 70 70 70 70 70 70 70 70 70 70 70 70 70 70 70 70 70 70 70 70 70	Maximum suction psi -0.45.8							Maximum suction psi							-0.45.8	
Heating capacity kW 2	Power							13 A	Power						•	13 A
Cooling capacity (Ethanol) *C 20 10 0 -10 -20 -30 -40 *W 1 0.96 0.96 0.7 0.51 0.25 0.11 *Viscosity max. cST 70 *Refrigerant R449A Filling volume g 190 Global Warming Potential for R449A 1397 Carbon dioxide equivalent t 0.265 Pump capacity (Ethanol) *C 20 10 0 -10 -20 -30 -40 *W 1 0.96 0.96 0.7 0.51 0.25 0.11 *Viscosity max. cST 70 Viscosity max. cST 70 *Refrigerant R449A *Refrigerant R4	230V	/50H	lz						230V	/60H	lz					
°C 20 10 0 -10 -20 -30 -40 kW 1 0.96 0.96 0.7 0.51 0.25 0.11 Viscosity max. cST 70 Viscosity max. cST 70 Refrigerant R449A Filling volume g 190 Filling volume g 190 Global Warming Potential for R449A 1397 Global Warming Potential for R449A 1397 Carbon dioxide equivalent t 0.265 Carbon dioxide equivalent t 0.265 Pump capacity flow rate I/min 16 31 Pump capacity flow rate I/min 16 31	Heatin	g cap	acity k	W			:	2	Heating capacity kW 2							
kW 1 0.96 0.96 0.7 0.51 0.25 0.11 Viscosity max. cST 70 Refrigerant R449A Filling volume g 190 Global Warming Potential for R449A 1397 Carbon dioxide equivalent t 0.265 Carbon dioxide equivalent t 0.265 Pump capacity flow rate I/min 16 31	Coolin	g capa	acity (E	thanol)				Cooling capacity (Ethanol)							
Viscosity max. cST 70 Viscosity max. cST 70 Refrigerant R449A Refrigerant R449A Filling volume g 190 Filling volume g 190 Global Warming Potential for R449A 1397 Global Warming Potential for R449A 1397 Carbon dioxide equivalent t 0.265 Carbon dioxide equivalent t 0.265 Pump capacity flow rate I/min 16 31 Pump capacity flow rate I/min 16 31	°C	20	10	0	-10	-20	-30	-40	°C	20	10	0	-10	-20	-30	-40
Refrigerant R449A Refrigerant R449A Filling volume g 190 Filling volume g 190 Global Warming Potential for R449A 1397 Global Warming Potential for R449A 1397 Carbon dioxide equivalent t 0.265 Carbon dioxide equivalent t 0.265 Pump capacity flow rate I/min 16 31 Pump capacity flow rate I/min 16 31	kW	1	0.96	0.96	0.7	0.51	0.25	0.11	kW	1	0.96	0.96	0.7	0.51	0.25	0.11
Filling volume g 190 Filling volume g 190 Global Warming Potential for R449A 1397 Global Warming Potential for R449A 1397 Carbon dioxide equivalent t 0.265 Carbon dioxide equivalent t 0.265 Pump capacity flow rate I/min 16 31 Pump capacity flow rate I/min 16 31	Viscos	ity ma	ax. cST					70	Viscos	ity ma	ax. cST					70
Global Warming Potential for R449A 1397 Global Warming Potential for R449A 1397 Carbon dioxide equivalent t 0.265 Carbon dioxide equivalent t 0.265 Pump capacity flow rate I/min 16 31 Pump capacity flow rate I/min 16 31	Refrig	erant					-	R449A	·							
Carbon dioxide equivalent t 0.265 Carbon dioxide equivalent t 0.265 Pump capacity flow rate I/min 16 31 Pump capacity flow rate I/min 16 31	Filling volume g 190						190	•								
Pump capacity flow rate I/min 16 31 Pump capacity flow rate I/min 16 31	Global Warming Potential for R449A 1397						Global Warming Potential for R449A 1397									
	Carbon dioxide equivalent t 0.265						Carbon dioxide equivalent t 0.265							0.265		
Pump capacity flow pressure psi 3.5 13.3 Pump capacity flow pressure psi 3.5 13.3	Pump	capac	ity flov	v rate l	/min			16 31	Pump capacity flow rate l/min 16 31						16 31	
	Pump	Pump capacity flow pressure psi 3.5 13.3						3.5 13.3	Pump capacity flow pressure psi 3.5 13.3							



Maximum suction psi	-0.45.8	Maximum suction psi	-0.45.8
Power	14 A	Power	14 A

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 self-optimizing adaptation of the PID control parameters with external stability of +/- 0.05



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, 10-point calibration



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.



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 heattransfer 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.



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).



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.