

CORIO CP-900F Refrigerated - Heating Circulator

Refrigerated Circulators from the CORIO CP range are suitable for applications with a temperature range up to +200°C. The enhanced pump performance ensures they are suitable for easy temperature control tasks in combination with external applications.

Your advantages

- Models for internal and external applications
- Bright, white, easy to read display
- Very quiet
- · Easy pump change-over between internal and external circulation
- External pump connections
- · Powerful and infinitely adjustable pressure pump
- USB connection
- RS232 interface for online communication
- · Space-saving cooling coil design yields more usable space in the bath tank
- Bath lid and drain tap included
- · Removable ventilation grid
- Refrigeration unit without side vents
- Class III (FL) according to DIN 12876-1

Technical data



Available voltage versions		Bath					
Order No. 9 0	13 706	Bath tank	Stainless steel				
Available voltage versions:		Bath cover	integrated				
9 013 706.02		Usable bath opening cm (W x L / D)	26 x 35 / 20				
9 013 706.04							
9 013 706.05							
9 013 706.33							
9 013 706.33.chn							
Cooling		Other					
Cooling of compressor	1-stage Air	Classification	Classification III (FL				
		Pump function	Pressure Pump				
		Pump type	Immersion Pump				
Electronics		Dimensions and volumes					
Temperature control	PID1	Weight kg	52				
Absolute temperature calibration	1 Point Calibration	Barbed fittings inner diameter	8/12 mm				
Temperature display	LED	Dimensions cm (W \times L \times H)	39 x 62 x 75				
Temperature setting	Keypad	Filling volume I	21 30				
Electronic Timer hr:min	0 999	Pump connections	M16x1 male				
Temperature values							
Working temperature range °C	-38 +200	-					
Working temperature range o							
Temperature stability °C	±0.03						
5 1 5	±0.03 +5 +40						
Temperature stability °C							

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Performance values

11		I												
115V							1							
		acity k\		I)			1							
°C	g capa 20	acity (E 10	tnano 0	i) -10	-20	-30								
kW	0.9	0.85	0.8	0.52	-	0.11	-							
	••••			0.52	0.51	0.11								
	-	ax. cST					50							
Refrige							R449A							
Filling		ne g ning Po	**:-	l far D	140.4		220 1397							
		ide equ			149A		0.307							
		ity flow					827							
	-	ity flow			ar		0.1 0.7							
			1					0001		I				
200V			.,				4.5	200V			.,			
	• •	acity k\		I)			1.5			acity kV		I)		
°C	g capa 20	acity (E 10		i) -10	-20	20		°C		acity (E 10	tnano 0		2	
kW	0.9	0.85	0	0.52	_	-30 0.11	-	kW	20 0.9	0.85	0.8	-10 0.52	-20 0.3	
				0.52	0.51	0.11					0.0	0.52	0.3	
	,	ax. cST					50	Viscosity max. cST						
Refrige Filling		ne d					R449A 220	Refrigerant Filling volume g						
		ning Po	tontia	l for R/	1/04		1397	Global Warming Potential for R449						
		ide equ					0.307	Carbon dioxide equivalent t						
		ity flow					8 27	Pump capacity flow rate I/min						
•	•	ity flow			ar		0.1 0.7					sure ba	ar	
230V		1-7						230V		-				
		acity k	N/				1.8			acity kV	N/			
	5 1	acity (E		D)			1.0		5 1	acity (E		J)		
°C	20 20	10	0	-10	-20	-30		°C	20 20	10	0	-10	-2	
kW	0.9	0.85	0.8	0.52	-	0.11	-	kW	0.9	0.85	0.8	0.52	0.3	
		ax. cST		0.02	0.01	0.11	50			IX. cST		0.02	0.0	
Refrige		ax. CST					R449A	Refrig		IX. CS I				
Filling		ne a					220	Filling volume g						
-		ning Po	tentia	l for R4	149A		1397	Global Warming Potential for R449						
		ide equ					0.307	Carbon dioxide equivalent t						
		ity flow					8 27	Pump capacity flow rate I/min						
Pump capacity flow pressure bar							0.1 0.7	Pump capacity flow pressure bar					ar	
200V	7/50⊦	7						200V	//60H	7				
		·- acity k\	N				1			ecity kV	V			
	• •	acity (E		I)					• .	acity (E		l)		
°C	20	10	0	-10	-20	-30		°C	20	10	0	-10	-2	
kW	0.9	0.85	0.8	0.52				kW	0.9	0.85	0.8	0.52	0.3	
Viscos	sity ma	ax. cST					50	Viscos	sity ma	x. cST				
Refrige							R449A	Refrig						
								9						

Heatin	ig capa	acity k\	N				1.5
Coolin	g capa	acity (E	thano	I)			
°C	20	10	0	-10	-20	-30	
kW	0.9	0.85	0.8	0.52	0.31	0.11	
Viscos	sity ma	x. cST					50
Refrig	erant						R449A
Filling	volum	e g					220
Global	Warm	ing Po	tentia	l for R4	149A		1397
Carbo	n dioxi	de equ	ivalen	t t			0.307
Pump	capac	ity flov	v rate l	/min			8 27
Pump	сарас	ity flov	/ press	sure ba	ar		0.1 0.7
230V	/60H	z					
Heatin	ig capa	acity k\	N				1.8
Coolin	g capa	acity (E	thano	I)			
°C	20	10	0	-10	-20	-30	
kW	0.9	0.85	0.8	0.52	0.31	0.11	
Viscos	sity ma	x. cST					50
Refrig	erant						R449A
Filling	volum	e g					220
Global	Warm	ing Po	tentia	l for R4	149A		1397
Carbo	n dioxi	de equ	ivalen	tt			0.307
Pump	capac	ity flov	v rate l	/min			8 27
Pump	сарас	ity flov	/ press	sure ba	ar		0.1 0.7
200V	7/60H	z					
Heatin	ig capa	acity k\	N				1.5
Coolin	g capa	acity (E	thano	I)			
°C	20	10	0	-10	-20	-30	
kW	0.9	0.85	0.8	0.52	0.31	0.11	
Viscos	sity ma	x. cST					50

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R449A



Filling volume g	220	Filling volume g	220					
Global Warming Potential for R449A	1397	Global Warming Potential for R449A	1397					
Carbon dioxide equivalent t	0.307	Carbon dioxide equivalent t	0.307					
Pump capacity flow rate I/min	8 27	Pump capacity flow rate I/min	8 27					
Pump capacity flow pressure bar	0.1 0.7	Pump capacity flow pressure bar	0.1 0.7					
230V/50Hz		230V/60Hz						
Heating capacity kW	1	Heating capacity kW	1					
Cooling capacity (Ethanol)		Cooling capacity (Ethanol)						
°C 20 10 0 -10 -20 -30	_	°C 20 10 0 -10 -20 -30	_					
kW 0.9 0.85 0.8 0.52 0.31 0.1	1	kW 0.9 0.85 0.8 0.52 0.31 0.11						
Viscosity max. cST	50	Viscosity max. cST	50					
Refrigerant	R449A	Refrigerant	R449A					
Filling volume g	220	Filling volume g	220					
Global Warming Potential for R449A	1397	Global Warming Potential for R449A	1397					
Carbon dioxide equivalent t	0.307	Carbon dioxide equivalent t	0.307					
Pump capacity flow rate I/min	8 27	Pump capacity flow rate I/min	8 27					
Pump capacity flow pressure bar	0.1 0.7	Pump capacity flow pressure bar	0.1 0.7					
200V/50Hz		200V/60Hz						
Heating capacity kW	1.5	Heating capacity kW	1.5					
Cooling capacity (Ethanol)		Cooling capacity (Ethanol)						
°C 20 10 0 -10 -20 -30)	°C 20 10 0 -10 -20 -30						
kW 0.9 0.85 0.8 0.52 0.31 0.1	1	kW 0.9 0.85 0.8 0.52 0.31 0.11						
Viscosity max. cST	50	Viscosity max. cST	50					
Refrigerant	R449A	Refrigerant	R449A					
Filling volume g	220	Filling volume g 220						
Global Warming Potential for R449A	1397	Global Warming Potential for R449A	1397					
Carbon dioxide equivalent t	0.307	Carbon dioxide equivalent t 0.307						
Pump capacity flow rate l/min	8 27	Pump capacity flow rate I/min	8 27					
Pump capacity flow pressure bar	0.1 0.7	Pump capacity flow pressure bar	0.1 0.7					
230V/50Hz		230V/60Hz						
Heating capacity kW	2	Heating capacity kW	2					
Cooling capacity (Ethanol)	Z	Cooling capacity (Ethanol)	2					
°C 20 10 0 -10 -20 -30		°C 20 10 0 -10 -20 -30						
kW 0.9 0.85 0.8 0.52 0.31 0.1		kW 0.9 0.85 0.8 0.52 0.31 0.11						
Viscosity max. cST	50	Viscosity max. cST	50					
Refrigerant	R449A	Refrigerant	R449A					
Filling volume g	220	Filling volume g	220					
Global Warming Potential for R449A	1397	Global Warming Potential for R449A	1397					
Carbon dioxide equivalent t	0.307	Carbon dioxide equivalent t	0.307					
Pump capacity flow rate l/min	8 27	Pump capacity flow rate I/min	8 27					
Pump capacity flow pressure bar	0.1 0.7	Pump capacity flow pressure bar	0.1 0.7					
200V/50Hz		200V/60Hz						
Heating capacity kW	1.5	Heating capacity kW	1.5					

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Coolin	ig capa	acity (E	thano	I)				Coolin	ig capa	acity (E	thano	I)			
°C	20	10	0	-10	-20	-30		°C	20	10	0	-10	-20	-30	
kW	0.9	0.85	0.8	0.52	0.31	0.11		kW	0.9	0.85	0.8	0.52	0.31	0.11	
Viscos	sity ma	ax. cST					50	Viscos	sity ma	ax. cST					50
Refrige	erant						R449A	Refrig	erant						R449A
Filling	volum	ne g					220	Filling	volum	ne g					220
Global	l Warm	ning Po	tentia	l for R4	149A		1397	Global	l Warm	ning Po	otentia	l for R4	149A		1397
Carbo	n diox	ide equ	ivalen	tt			0.307	Carbo	n dioxi	ide equ	iivalen	t t			0.307
Pump	capac	ity flow	rate	l/min			8 27	Pump	сарас	ity flov	v rate	l/min			8 27
Pump	сарас	ity flow	pres	sure ba	ar		0.1 0.7	Pump	сарас	ity flov	v pres	sure ba	ar		0.1 0.7
230V/50Hz						230V/60Hz									
Heatin	ng cap	acity kV	V				2	Heatin	ng capa	acity k\	W				2
Coolin	ig capa	acity (E	thano	I)				Coolin	ig capa	acity (E	thano	I)			
°C	20	10	0	-10	-20	-30		°C	20	10	0	-10	-20	-30	
kW	0.9	0.85	0.8	0.52	0.31	0.11		kW	0.9	0.85	0.8	0.52	0.31	0.11	
Viscos	sity ma	ax. cST					50	Viscos	sity ma	ax. cST					50
Refrige	erant						R449A	Refrigerant							R449A
Filling	volum	ne g					220	Filling volume g						220	
Global	l Warm	ning Po	tentia	l for R4	149A		1397	Global Warming Potential for R449A						1397	
Carbo	n diox	ide equ	ivalen	t t			0.307	Carbon dioxide equivalent t						0.307	
Pump	capac	ity flow	rate	l/min			8 27	Pump	capac	ity flov	v rate	l/min			8 27
Pump	capac	ity flow	press	sure ba	ar		0.1 0.7	Pump	capac	ity flov	v pres	sure ba	ar		0.1 0.7

All Benefits



ATC. Absolute Temperature Calibration, 1-point calibration (CD).



Handle with ease.

Makes day-to-day work easy. Comfortably move your JULABO Circulator around by using the ergonomic handles (front and rear).



Mobile. Extra easy handling. Integrated castors for easy repositioning of refrigerated circulators.



CORIO CD and CP comply with Class III (FL) according to DIN 12876-1 and switches off automatically in case of high temperature or low liquid level alarm.



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



Internal. External.

The pump is controlled via a lever located directly below the display. Easily change between internal and external circulation.



More bath. Designed for more comfort. Thanks to the recessed cooling coil, the internal bath provides more space.



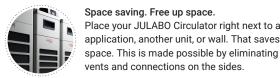
Solid. Minimized energy loss through high-quality insulation.

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Space saving. Free up space. Place your JULABO Circulator right next to an application, another unit, or wall. That saves



Tidy. The special drain tap for easy draining of bath fluids without tools.



100% Checked.



100% testing. 100% quality. Each JULABO Circulator undergoes thorough quality testing before leaving the factory.



JULABO. Quality. Highest standards of quality for a long product life.



Satisfied customers.

11 subsidiaries and more than 100 partners worldwide guarantee fast and qualified JULABO support.



Timer. Integrated.

CORIO circulators include an integrated timer function. When the set time has elapsed, a signal sounds and the device switches off. Setting range: 0 ... 999 minutes.



Brilliant.

Very bright display makes it easy to read even from a distance.



Exact. You can rely on it. PID1 control and 'Active Cooling Control' make the new CORIO precise and perfect.



Switch on. And off you go. Intelligent operating concept. Ready for operation with just a few quick and easy steps.



Early warning system for low liquid level. Maximum safety for your application. Optical and audible alarm allows user to refill bath fluid in time.



Stable. Rubber feet allow for a secured footing of your CORIO to prevent damage to your laboratory equipment.



Touching permitted. Optimum safety. The ergonomic plastic handle protects your fingers from hot surfaces.



Green technology. Development consistently applied environmentally friendly materials and technologies.

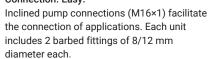


Ouick start.

Individual JULABO consultation and comprehensive manuals at your disposal.









Everything at the front. All operating controls and safety functions are accessed easily and comfortably from the front



Locked in. The lockable power plug guarantees safe connection. More process safety.



Powerful. Adjustable. Strong pressure pump, continuously adjustable.



Connectivity. Remote control made easy. CORIO CP circulators feature a USB connection and RS232 interface.

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