

CORIO CP-1001F 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

ons 3 708		Bath	
2.700			
3 708		Bath tank	Stainless steel
		Bath cover	integrated
V/50-60Hz (UK	Plug Type BS1363A)	Usable bath opening cm (W x L / D)	35 x 41 / 30
V/50-60Hz (CH	I Plug Type SEV 1011)		
V/50-60Hz (Sc J Type F)	huko Plug - CEE 7/4		
V/50-60Hz (CN	l Plug)		
		Other	
	1-stage Air	Classification	Classification III (FL)
		Pump function	Pressure Pump
		Pump type	Immersion Pump
		Dimensions and volumes	
	PID1	Weight kg	73.7
ation	1 Point Calibration	Barbed fittings inner diameter	8/12 mm
	LED	Dimensions cm (W × L × H)	45 x 64 x 95
	Keypad	Filling volume I	42 56
	0 999	Pump connections	M16x1 male
°C	-38 +100		
	±0.03		
	+5 +40		
	0.01 0.1		
	//50-60Hz (CH //50-60Hz (Sc Type F) //50-60Hz (CN	PID1 ation 1 Point Calibration LED Keypad 0 999	Usable bath opening cm (W x L / D) V/50-60Hz (CH Plug Type SEV 1011) V/50-60Hz (Schuko Plug - CEE 7/4 Type F) V/50-60Hz (CN Plug) Other 1-stage Air Classification Pump function Pump type Dimensions and volumes PID1 Weight kg Barbed fittings inner diameter LED Dimensions cm (W × L × H) Keypad Filling volume I 0 999 Pump connections



Performance values

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

200V/	⁄50⊦	łz						200V	/60H	lz						
Heating	Heating capacity kW 1.5									Heating capacity kW 1.5						
Cooling	ј сара	acity (E	thano	l)				Cooling capacity (Ethanol)								
°C	20 10 0 -10 -20 -30									10	0	-10	-20	-30		
kW 1 0.95 0.9 0.6 0.32 0.12								kW	1	0.95	0.9	0.6	0.32	0.12		
Viscosi	ty ma	ax. cST					50	Viscos	ity ma	x. cST				!	50	
Refrige	rant						R449A	Refrige	erant					ı	R449A	
Filling v	olum/	ne g					170	Filling	volum	e g					170	
Global \	Warm	ning Po	tentia	for R	149A		1397	Global	Warm	ning Po	tential	for R4	49A		1397	
Carbon	diox	ide equ	ivalen	t t			0.237	Carbor	n dioxi	de equ	ivalen	t t		(0.237	
Pump o	capac	ity flow	rate l	/min		:	8 27	Pump	capac	ity flow	rate l	/min		8	3 27	
Pump o	capac	ity flow	press	sure ba	ar		0.1 0.7	Pump capacity flow pressure bar 0.1 0.7						0.1 0.7		
230V/	∕50F	lz						230V/60Hz								
Heating	ј сар	acity k\	N				1.8	Heatin	g cap	acity k\	٧				1.8	
Cooling	capa	Heating capacity kW 1.8 Cooling capacity (Ethanol)							Cooling capacity (Ethanol)							
	,	acity (E	thano	1)				Coolin	y capa	(
°C	20	acity (E 10	thano 0	-10	-20	-30		°C	20	10	0	-10	-20	-30		
°C kW						-30 0.12					0	-10 0.6	-20 0.32			
	20	10	0	-10		0.12	50	°C	20	10 0.95				0.12	50	
kW	20 1 ty ma	10	0	-10		0.12	50 R449A	°C kW	20 1 sity ma	10 0.95				0.12	50 R449A	
kW Viscosi	20 1 ity ma	10 0.95 ax. cST	0	-10		0.12		°C kW Viscos	20 1 sity ma	10 0.95 ax. cST				0.12		
kW Viscosi Refrige	20 1 ty ma rant volum	10 0.95 ax. cST	0 0.9	-10 0.6	0.32	0.12	R449A	°C kW Viscos Refrige Filling	20 1 sity ma erant volum	10 0.95 ax. cST	0.9	0.6	0.32	0.12 !	R449A	
kW Viscosi Refriger Filling v	20 1 ity ma rant volum Warm	10 0.95 ax. cST ne g	0 0.9 tential	-10 0.6	0.32	0.12	R449A 170	°C kW Viscos Refrige Filling	20 1 sity ma erant volum Warm	10 0.95 ax. cST ee g	0.9	0.6	0.32	0.12	R449A 170	
kW Viscosi Refriger Filling v	20 1 ity ma rant volum Warm dioxi	10 0.95 ax. cST ne g ning Po ide equ	0 0.9 tential	-10 0.6	0.32	0.12	R449A 170 1397	°C kW Viscos Refrige Filling Global	20 1 sity ma erant volum Warm n dioxi	10 0.95 ax. cST ae g aing Po de equ	0.9 tential	0.6 for R4	0.32	0.12	R449A 170 1397	

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

200\	//50H	łz						200V/60Hz							
Heatir	ng cap	acity k\	W				1.8	Heating capacity kW 1.8							
Coolir	ng capa	acity (E	thano	l)				Coolin	g capa	acity (E	thano	l)			
°C	20	10	0	-10	-20	-30		°C	20	10	0	-10	-20	-30	
kW	1	0.95	0.9	0.6	0.32	0.12		kW	1	0.95	0.9	0.6	0.32	0.12	
Visco	sity ma	ax. cST					50	Viscos	ity ma	x. cST					50
Refrig	erant						R449A	Refrigerant R449A							R449A
Filling	volum	ne g					170	Filling volume g 170							
Globa	l Warn	ning Po	tentia	l for R	449A		1397	Global Warming Potential for R449A							1397
Carbo	n diox	ide equ	ıivalen	t t			0.237	Carbon dioxide equivalent t 0.237							0.237
Pump	capac	ity flov	v rate l	/min			8 27	Pump capacity flow rate I/min 8 27							
Pump	capac	ity flov	v press	sure b	ar		0.1 0.7	Pump	сарас	ity flov	v press	sure ba	ar		0.1 0.7
230\	//50H	łz						230V/60Hz							
Heatin	ng cap	acity k\	N				2	Heating capacity kW 2							2



Coolin	g capa	acity (E	thano	l)				Coolin	g capa	acity (E	thano	l)			
°C	20	10	0	-10	-20	-30		°C	20	10	0	-10	-20	-30	
kW	1	0.95	0.9	0.6	0.32	0.12		kW	1	0.95	0.9	0.6	0.32	0.12	
Viscos	sity ma	ax. cST					50	Viscos	sity ma	x. cST					50
Refrig	erant					1	R449A	Refrigerant							R449A
Filling	volum	ie g					170	Filling volume g							170
Global	Warm	ning Po	tentia	for R	449A		1397	Global Warming Potential for R449A 1397							1397
Carbo	n dioxi	ide equ	ivalen	t t			0.237	Carbon dioxide equivalent t 0.237							0.237
Pump	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	capac	ity flov	v press	sure ba	ar		0.1 0.7

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

200V/50Hz Heating capacity kW 1.5									/60H	lz					
Heatir	ng capa	acity k\	N				1.5	Heating capacity kW 1.5							
Coolin	ng capa	acity (E	thano	l)				Cooling capacity (Ethanol)							
°C	20	10	0	-10	-20	-30		°C	20	10	0	-10	-20	-30	
kW	1	0.95	0.9	0.6	0.32	0.12		kW	1	0.95	0.9	0.6	0.32	0.12	
Viscos	sity ma	x. cST					50	Viscos	ity ma	ax. cST					50
Refrig	erant						R449A	Refrige	erant						R449A
Filling	volum	e g					170	Filling	volum	ie g					170
Globa	l Warm	ning Po	tentia	for R4	149A		1397	Global	Warm	ning Po	tentia	l for R	149A		1397
Carbo	n dioxi	de equ	ivalen	t t			0.237	Carbo	n diox	ide equ	ivalen	t t			0.237
Pump	capac	ity flow	ı 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 capacity flow pressure bar 0.1 0.7					0.1 0.7		
	230V/50Hz														
230V	//50H	lz						230V	/60H	lz					
		lz acity k\	N				2			lz acity k\	N				2
Heatir	ng capa			1)		:	2	Heatin	g cap			I)			2
Heatir	ng capa	acity k\		l) -10	-20	-30	2	Heatin	g cap	acity k\		l) -10	-20	-30	2
Heatir	ng capa	acity k\ acity (E	thano				2	Heatin	g cap	acity k\ acity (E	thano				
Heatin Coolin °C kW	ng capa ng capa 20 1	acity k\ acity (E 10	thano 0 0.9	-10		-30 0.12	2 50	Heatin Coolin °C	g capa g capa 20 1	acity k\ acity (E 10 0.95	thano 0 0.9	-10		-30 0.12	
Heatin Coolin °C kW	ng capa ng capa 20 1 sity ma	acity k\ acity (E 10 0.95	thano 0 0.9	-10		-30 0.12		Heatin Coolin °C kW	g capa g capa 20 1	acity k\ acity (E 10 0.95	thano 0 0.9	-10		-30 0.12	
Heatin Coolin °C kW	ng capa ng capa 20 1 sity ma	acity k\ acity (E 10 0.95 ax. cST	thano 0 0.9	-10		-30 0.12	50	Heatin Coolin °C kW	g capa g capa 20 1 sity ma	acity k\ acity (E 10 0.95 ax. cST	thano 0 0.9	-10		-30 0.12	50
Heatin Coolin °C kW Viscos Refrig	ng capa g capa 20 1 sity ma erant volum	acity k\ acity (E 10 0.95 ax. cST	thano	-10 0.6	0.32	-30 0.12	50 R449A	Heatin Coolin °C kW Viscos Refrigo	g capa g capa 20 1 sity ma erant	acity k\ acity (E 10 0.95 ax. cST	thano 0 0.9	-10 0.6	0.32	-30 0.12	50 R449A
Heatin Coolin °C kW Viscos Refrig Filling	ng capa ng capa 20 1 sity ma erant volum	acity k\ acity (E 10 0.95 ax. cST	thano	-10 0.6	0.32	-30 0.12	50 R449A 170	Heatin Coolin °C kW Viscos Refrigo	g capa g capa 20 1 sity ma erant volum Warn	acity k\ acity (E 10 0.95 ax. cST ae g ning Po	thano 0 0.9	-10 0.6	0.32	-30 0.12	50 R449A 170
Heatin Coolin °C kW Viscos Refrig Filling Global Carbo	ng capa 20 1 sity ma erant volum I Warm	acity k\ acity (E 10 0.95 ax. cST ace g	thano 0 0.9 tential	-10 0.6	0.32	-30 0.12	50 R449A 170 1397	Heatin Coolin °C kW Viscos Refrigo Filling	g capa g capa 20 1 sity materant volum Warm	acity k\ acity (E 10 0.95 ax. cST ax eg	thano 0 0.9 tentia	-10 0.6	0.32	-30 0.12	50 R449A 170 1397

230V/50-60Hz (CN Plug)

200V/50Hz								200V/60Hz								
Heatir	Heating capacity kW 1.5							Heating capacity kW					1.5			
Coolir	Cooling capacity (Ethanol)							Coolin	ig capa	acity (E	thano	l)				
°C	20	10	0	-10	-20	-30		°C	20	10	0	-10	-20	-30		
kW	0.1	0.9	0.6	0.6	0.32	0.12		kW	1	0.95	0.9	0.6	0.32	0.12		
Visco	Viscosity max. cST 50							Viscosity max. cST					50			
Refrig	erant					F	R449A	Refrig	erant				R449A			



Filling	Filling volume g 170									ne g					170		
Globa	Global Warming Potential for R449A 1397									Global Warming Potential for R449A							
Carbon dioxide equivalent t 0.237								Carbo	n diox	ide equ	iivalen	t t			0.237		
Pump capacity flow rate I/min 8 .							8 27	Pump	capac	ity flov	v rate l	/min			8 27		
Pump capacity flow pressure bar							0.1 0.7	Pump	capac	ity flov	v press	sure ba	ar		0.1 0.7		
230V	//50H	łz						230V	⁄/60⊦	łz							
Heatir	ng cap	acity k\	N				2	Heatir	ng cap	acity k	N				2		
Coolir	ng capa	acity (E	thano	l)				Cooling capacity (Ethanol)									
°C	20	10	0	-10	-20	-30		°C 20 10 0 -10 -20					-30				
kW	1	0.95	0.9	0.6	0.32	0.12	2	kW	1	0.95	0.9	0.6	0.32	0.12			
Viscos	sity ma	ax. cST					50	Viscos	sity ma	ax. cST					50		
Refrig	erant						R449A	Refrig	erant						R449A		
Filling	volum	ne g					170	Filling volume g							170		
Globa	l Warn	ning Po	tentia	l for R	149A		1397	Global Warming Potential for R449A							1397		
Carbon dioxide equivalent t 0.237								Carbon dioxide equivalent t							0.237		
Pump	capac	ity flow	rate l	/min			8 27	Pump	capac	ity flov	v rate l	/min			8 27		
Pump	capac	ity flow	pres:	sure b	ar		0.1 0.7	Pump	capac	ity flov	v press	sure ba	ar		0.1 0.7		

All Benefits



ATC.

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



Condensation protection.

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



Handle with ease.

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



Internal. External.

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



Mobile.

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



More bath.

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



Safety

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.



Solid.

Minimized energy loss through high-quality insulation.



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.



Stable.

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





Tidy

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



Touching permitted.

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



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.



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.



Connection. Easy.

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



Brilliant

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



Everything at the front.

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



Exact.

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



Locked in.

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



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 applications, optical and audible alarm, allows user to refill bath fluid before the unit shuts down



Powerful. Adjustable.

Strong pressure pump, continuously adjustable.



Early warning system for low liquid level.

Maximum safety for your application. Optical and audible alarm allows user to refill bath fluid in time.



Connectivity.

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