

CF40 Cryo-Compact Circulator

The Cryo-Compact Circulators of the CF Series provide powerful cooling and heating capabilities in a space-saving, compact design. The instruments feature 2 kW heating capacity and classification III according to DIN 12876-1. The Cryo-Compact Circulators have pump connections for external temperature control applications and a bath opening for temperature control of small objects.



Your advantages

- Small overall dimensions for lowest space requirement
- Splash-proof keypad
- Large, bright LED display
- Precise PID temperature control
- RS232 interface for PC connection
- Classification 3 according to DIN12876-1
- Pump connections for external temperature applications
- Bath opening for temperature control of small objects in the bath
- Front drain

Technical data

Available voltage versions		Bath	
Order No.	9 400 340	Bath tank	Stainless steel
Available voltage versions:		Bath cover	integrated
9 400 340.13	230V/60Hz (Nema N6-20 Plug)	Usable bath opening cm (W x L / D)	19 x 3 / 19
9 400 340.02	115V/60Hz (Nema N5-15 Plug)		
9 400 340.03	230V/50Hz (Schuko Plug - CEE 7/4 Plug Type F)		
9 400 340.04	230V/50Hz (UK Plug Type BS1363A)		
Cooling		Other	
Cooling of compressor	1-stage Air	Classification	Classification III (FL)
		IP Code	IP 21
		Pump type	Immersion Pump
Electronics		Dimensions and volumes	
Temperature control	PID1	Weight kg	44
Temperature display	LED	Barbed fittings inner diameter	8/12 mm
		Dimensions cm (W x L x H)	28 x 46 x 46
		Filling volume l	4 ... 5.5
		Pump connections	M16x1 male
Temperature values			
Working temperature range °C	-40 ... +150		
Temperature stability °C	±0.03		
Ambient temperature °C	+5 ... +40		
Temperature display resolution °C	0.1		

Performance values

230V/60Hz (Nema N6-20 Plug)

230V/60Hz				
Heating capacity kW	2			
Cooling capacity (Ethanol)				
°C	20	0	-20	-30
kW	0.47	0.4	0.28	0.12
Viscosity max. cST	30			
Refrigerant	R449A			
Filling volume g	153			
Global Warming Potential for R449A	1397			
Carbon dioxide equivalent t	0.214			
Pump capacity flow rate l/min	15			
Pump capacity flow pressure bar	0.35			

115V/60Hz (Nema N5-15 Plug)

115V/60Hz				
Heating capacity kW	1			
Cooling capacity (Ethanol)				
°C	20	0	-20	-30
kW	0.47	0.4	0.28	0.12
Viscosity max. cST	30			
Refrigerant	R449A			
Filling volume g	153			
Global Warming Potential for R449A	1397			
Carbon dioxide equivalent t	0.214			
Pump capacity flow rate l/min	15			
Pump capacity flow pressure bar	0.35			

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

230V/50Hz				
Heating capacity kW	2			
Cooling capacity (Ethanol)				
°C	20	0	-20	-30
kW	0.47	0.4	0.28	0.12
Viscosity max. cST	30			
Refrigerant	R452A			
Filling volume g	153			
Global Warming Potential for R452A	2140			
Carbon dioxide equivalent t	0.327			
Pump capacity flow rate l/min	15			
Pump capacity flow pressure bar	0.35			

230V/50Hz (UK Plug Type BS1363A)

230V/50Hz				
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Heating capacity kW	2			
Cooling capacity (Ethanol)				
°C	20	0	-20	-30
kW	0.47	0.4	0.28	0.12
Viscosity max. cST	30			
Refrigerant	R452A			
Filling volume g	153			
Global Warming Potential for R452A	2140			
Carbon dioxide equivalent t	0.327			
Pump capacity flow rate l/min	15			
Pump capacity flow pressure bar	0.35			

All Benefits



Precise
PID Temperature control with set control parameters, temperature stability $\pm 0.02 \dots \pm 0.2$ °C



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