

F500 Compact Recirculating Cooler

The compact recirculating coolers in the F Series are economic models for routine applications in laboratories. The instruments cool in a temperature range of -10 or 0 °C to +40 °C and achieve a stability of $\pm 0.5^{\circ}\text{C}$. The space saving design and lack of side vents allow flexible positioning even in small laboratories. Their high efficiency mean that the coolers in the F Series are an economic and environmentally friendly alternative to cooling with tap water. Low acquisition costs mean that they pay for themselves within a very short time.



Your advantages

- Environmentally friendly operation with low energy consumption
- No side vents, instruments can be placed right next to other equipment
- All wetted parts made of stainless steel or high grade plastic (except FC-T models)
- Large, bright LED display
- Compact design
- Splash-proof keypad
- Easy filling and Drain tap easily accessible

Technical data

Available voltage versions		Bath	
Order No.	9 620 050	Bath tank	Stainless steel
Available voltage versions:			
9 620 050.01	100V/50-60Hz (Nema N5-15 Plug)		
9 620 050.02	115V/60Hz (Nema N5-15 Plug)		
9 620 050.03	230V/50Hz (Schuko Plug - CEE 7/4 Plug Type F)		
9 620 050.13	230V/60Hz (Schuko Plug - CEE 7/4 Plug Type F)		
9 620 050.05	230V/50Hz (CH Plug Type SEV 1011)		
9 620 050.04	230V/50Hz (UK Plug Type BS1363A)		
Cooling		Other	
Cooling of compressor	1-stage Air	Sound pressure level dbA	62
		Classification	Classification I (NFL)
		IP Code	IP 20
		Pump type	Centrifugal Pump
Electronics		Dimensions and volumes	
Temperature control	PID1	Weight kg	37
Temperature display	LED	Barbed fittings inner diameter	8/12 mm
Temperature setting	Keypad	Dimensions cm (W x L x H)	37.5 x 44 x 59
		Filling volume l	5 ... 7.5
		Pump connections	M16x1 male
Temperature values			
Setting the resolution of the temperature display °C	0.1		
Return flow temperature max. °C	+80		
Working temperature range °C	... +40		

Temperature stability °C	±0.5
Ambient temperature °C	+5 ... +40
Temperature display resolution °C	0.1

Performance values

100V/50-60Hz (Nema N5-15 Plug)

100V/50Hz					100V/60Hz				
Cooling capacity (Water Glycol)					Cooling capacity (Water Glycol)				
°C	20	10	5	0	°C	20	10	5	0
kW	0.5	0.4	0.3	0.25	kW	0.5	0.4	0.3	0.25
Refrigerant	R134a				Refrigerant	R134a			
Filling volume g	157				Filling volume g	157			
Global Warming Potential for R134a	1430				Global Warming Potential for R134a	1430			
Carbon dioxide equivalent t	0.225				Carbon dioxide equivalent t	0.225			
Pump capacity flow rate l/min	24				Pump capacity flow rate l/min	24			
Pump capacity flow pressure bar	0.5				Pump capacity flow pressure bar	0.5			

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

115V/60Hz				
Cooling capacity (Water Glycol)				
°C	20	10	5	0
kW	0.5	0.4	0.3	0.25
Refrigerant	R134a			
Filling volume g	160			
Global Warming Potential for R134a	1430			
Carbon dioxide equivalent t	0.229			
Pump capacity flow rate l/min	24			
Pump capacity flow pressure bar	0.5			

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

230V/50Hz				
Cooling capacity (Water Glycol)				
°C	20	10	5	0
kW	0.5	0.4	0.3	0.25
Refrigerant	R134a			
Filling volume g	160			
Global Warming Potential for R134a	1430			
Carbon dioxide equivalent t	0.229			
Pump capacity flow rate l/min	24			
Pump capacity flow pressure bar	0.5			

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

230V/60Hz

Cooling capacity (Water Glycol)

°C	20	10	5	0
kW	0.5	0.4	0.3	0.25

Refrigerant	R134a
Filling volume g	145
Global Warming Potential for R134a	1430
Carbon dioxide equivalent t	0.207
Pump capacity flow rate l/min	24
Pump capacity flow pressure bar	0.5

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

230V/50Hz

Cooling capacity (Water Glycol)

°C	20	10	5	0
kW	0.5	0.4	0.3	0.25

Refrigerant	R134a
Filling volume g	160
Global Warming Potential for R134a	1430
Carbon dioxide equivalent t	0.229
Pump capacity flow rate l/min	24
Pump capacity flow pressure bar	0.5

230V/50Hz (UK Plug Type BS1363A)

230V/50Hz

Cooling capacity (Water Glycol)

°C	20	10	5	0
kW	0.5	0.4	0.3	0.25

Refrigerant	R134a
Filling volume g	160
Global Warming Potential for R134a	1430
Carbon dioxide equivalent t	0.229
Pump capacity flow rate l/min	24
Pump capacity flow pressure bar	0.5

All Benefits



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



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