Product data sheet

VALEGRO 500 Recirculating Cooler

with cooling capacities of 0.25 - 1.8 kW

The air-cooled VALEGRO recirculating coolers are environmentally friendly all-rounders for a wide range of cooling and heating tasks from -20 to +40 °C. The pump can be user-friendly adjusted in different pump stages on a percentage basis.

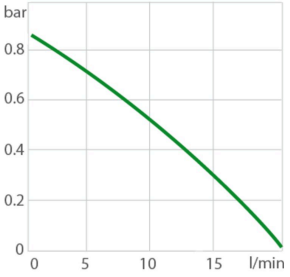
Whether in the laboratory, research, or production, the VALEGRO 500 recirculating coolers offer a constant cooling capacity of 0.5 kW at 20 °C, supporting stable processes around the clock. These modern devices offer precise temperature control for a wide range of applications and, thanks to their compact design, fit seamlessly into any working environment. The refrigeration circuit uses an eco-friendly, natural refrigerant. When designing the VALEGRO recirculating coolers, the focus was on maximum user-friendliness. Many helpful features such as a timer function, a removable venting grid that can be removed without tools, and an illuminated and simple to clean level indicator make daily work easier. The inclined OLED touch display is easy to read and ergonomic to use. The intuitive menu navigation allows quick access to all functions. Warning notices and system messages are displayed in clear, understandable language, ensuring maximum safety when using the device. In addition to RS232 and USB-C interfaces, VALEGRO recirculating coolers are also available with Ethernet (optional). All interfaces are located directly below the display and are easy to use from the front.



Product Features

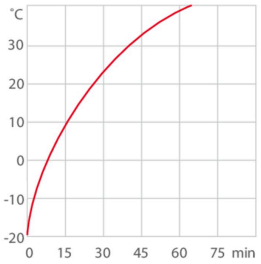
- Adjusting the screen brightness
- Precise temperature stability of ± 0.3 °C
- Removable venting grid without tools
- Integrated castors for good handling on and under the lab bench
- Advanced timer function with start and end time scheduling (date & time)
- Autostart function
- Data recording
- Intuitive menu navigation in full text German/English

Pump capacity



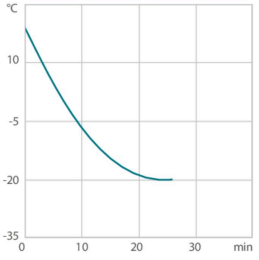
Medium: Water

Heat-up time



Medium: Thermal G

Cool-down time



Medium: Ethanol

Available options

Interfaces

Activation Ethernet interface

The Ethernet interface integrated in the VALEGRO recirculating cooler is activated at the factory and enables the use of network-based communication and control functions.



Performance values

230V/50Hz (Schuko Plug - CEE 7/4 Plug Type F)	
Heating capacity kW	
Viscosity max. cSt	50
Pump capacity flow rate l/min	7 ... 19
Pump capacity pressure bar	0.15 ... 0.85
Power consumption A	3
Voltage Tolerance %	230V | ±5

Order number including voltage version (230V/50Hz) 9610050.30003283

Cooling capacity 1 (Ethanol)

°C	20	0	-10	-20
kW [1]	0.5	0.37	0.25	0.1

Note about natural refrigerants:
Temperature control units using natural refrigerants are often subject to regulatory requirements regarding the installation site, operation, transport or disposal of the units. If you have any questions, we will be happy to advise you.

Refrigerant stage 1	
Refrigerant	R290
Filling weight g	46
Global Warming Potential for R290	3
Carbon dioxide equivalent t	0.000138

[1] Performance specifications measured in accordance with DIN 12876. Cooling capacities up to 20 °C measured with ethanol; over 20 °C with thermal oil unless otherwise specified. Performance specifications apply at an ambient temperature of 20 °C. Performance values may differ with other bath fluids.

Technical data

Available voltage versions	
Order No.	9610050
9610050.30003285	100V 50/60Hz (Nema N5-15 Plug) (R290)
9610050.30003284	115V 60Hz (Nema N5-15 Plug) (R290)
9610050.30003283	200-230V 50/60Hz (Schuko Plug - CEE 7/4 Plug Type F) (R290)
9610050.30003286	200-230V 50/60Hz (UK Plug Type BS1363A) (R290)
9610050.30003287	200-230V 50/60Hz (CH Plug Type T12 / 10A) (R290)
9610050.30003288	200-230V 50/60Hz (CN Plug) (R290)

Cooling

Cooling of compressor	1-stage Air

Bath

Bath tank	Stainless steel

Electronics

Interfaces	Ethernet optional, RS232, USB
Temperature control	PID3
Temperature display	OLED
Temperature setting	Touchscreen
Electronic Timer h:min	00:00 ... 99:59

Dimensions and volumes

Weight kg	26
Barbed fittings inner diameter mm	8/12 mm
Total dimensions cm (W × L × H)	23.5 x 45 x 45
Body dimensions cm (W × L × H)	23 x 40 x 44.5
Filling volume l	1.5 ... 3
Pump connections	M16x1 male

Temperature values

Working temperature range °C	-20 ... 40
Return flow temperature max. °C	+85
Temperature stability °C	±0.3
Ambient temperature °C	+5 ... +40
Temperature display resolution °C	0.1

Other

Classification	Classification I (NFL)
Standards	CE, RoHs
Alarm notification	Acoustic, Optical
IP Code	IP 21
Pump function	Pressure Pump
Pump type	Centrifugal Pump
User Interface Language	English, German
Sound pressure level dB(A)	55

Included in delivery

2 Barbed fittings for tubing 8 and 12 mm ID. (Pump connections M16x1 male)

Refer to www.julabo.com for more information regarding the entire JULABO product portfolio. Technical changes without prior notification. Images may deviate from the original. | Datasheet No.EN9610050/260803