

## VALEGRO 500 Recirculating cooler

The VALEGRO 500 recirculating cooler with a working temperature range -20 ... +40 °C offers, in relation to its very compact design, a strong cooling capacity of 0.5 kW at 20 °C. The integrated pump generates a pump pressure up to 12.3 psi. It is also infinitely adjustable and can be ideally adapted to the requirements of the customer application.

The modern units offer precise temperature control for a wide range of applications in laboratories, industry and research and fit seamlessly into any working environment thanks to their compact design. The refrigeration circuit works with an environmentally-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 or an illuminated and simple to clean level indicator make daily work easier. The inclined OLED touch display is easy to read and ergonomic to operate. The intuitive menu navigation provides simple and quick access to all functions. Warnings and messages in easy-to-understand full-text language ensure safe handling of the units at all times. In addition to RS232 and USB-C interfaces, the VALEGRO recirculating coolers are also available with Ethernet (optional). All interfaces are located directly under the display and are easy to use from the front.



### Product features

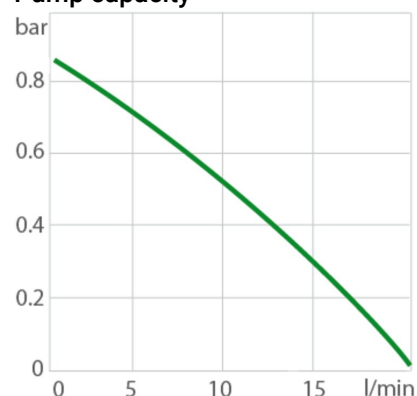
- Precise temperature stability of  $\pm 0.3$  °C
- Adjustable pump for regulating pressure and flow rate
- Removable venting grid without tools
- Integrated castors for good handling on and under the lab bench
- Simple timer function
- Autostart function
- Data recording
- Intuitive menu navigation in full text German/English
- User-friendly operation thanks to comprehensive help texts
- Adjusting the screen brightness

### Available options

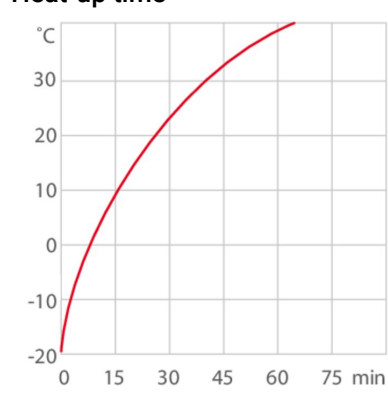
#### Interface

- Ethernet

### Pump capacity

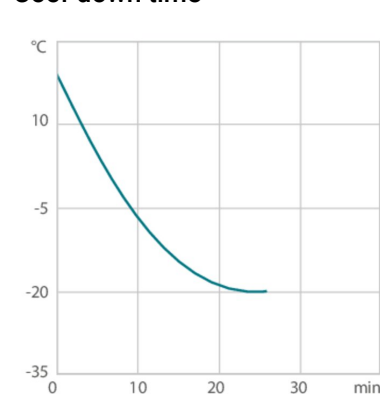


### Heat-up time



Medium: Thermal G

### Cool-down time



Medium: Ethanol

## Performance values

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

|                                   |      |
|-----------------------------------|------|
| Viscosity max. cSt                | 50   |
| Pump capacity flow pressure l/min | 19   |
| Pump capacity pressure psi        | 12.3 |
| Power consumption A               | 4    |

Order number including voltage version

9610050.30003284

Cooling capacity (Ethanol)

| °C              | 20  | 0    | -10  | -20  |
|-----------------|-----|------|------|------|
| kW <sup>1</sup> | 0.5 | 0.35 | 0.24 | 0.08 |

Refrigerant stage 1

Refrigerant R290

Filling weight g 50

Global Warming Potential for R290 3

Carbon dioxide equivalent t 0.00015

<sup>1</sup> 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

Available voltage versions:

|                  |                                                             |
|------------------|-------------------------------------------------------------|
| 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 | 230V/50Hz (UK Plug Type BS1363A) (R290)                     |

### Cooling

Cooling of compressor

1-stage Air

|                  |                                             |
|------------------|---------------------------------------------|
| 9610050.30003287 | 230V/50-60Hz (CH Plug Type SEV 1011) (R290) |
| 9610050.30003288 | 200-230V/50-60Hz (CN Plug) (R290)           |

### Bath

|           |                 |
|-----------|-----------------|
| Bath tank | Stainless steel |
|-----------|-----------------|

### Other

|                          |                        |
|--------------------------|------------------------|
| Sound pressure level dbA | 55                     |
| 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        |

### Electronics

|                        |                               |
|------------------------|-------------------------------|
| Interfaces             | Ethernet optional, RS232, USB |
| Temperature control    | PID1                          |
| Temperature display    | OLED                          |
| Temperature setting    | Touchscreen                   |
| Electronic Timer h:min | 99 ... 59                     |

### Dimensions and volumes

|                                   |                   |
|-----------------------------------|-------------------|
| Weight lbs                        | 57.3              |
| Barbed fittings inner diameter mm | 8/12 mm           |
| Total dimensions in. (W × L × H)  | 9.1 x 17.7 x 17.7 |
| Filling volume l                  | 1.5 ... 3         |
| Pump connections                  | M16x1 male        |

### Temperature values

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