

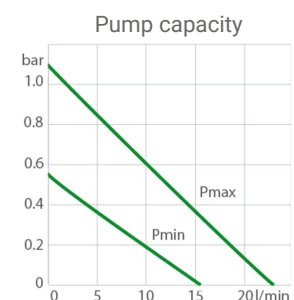
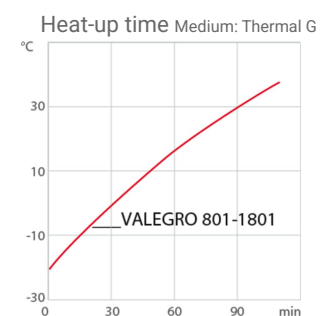
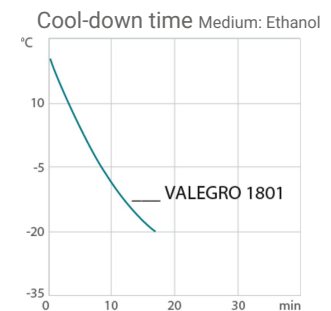
## Product data sheet

# VALEGRO 1801 Recirculating Cooler

Modern, user-friendly chillers for a wide range of cooling tasks

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 1801 recirculating coolers offer a constant cooling capacity of 1.8 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

- ✓ User-friendly operation thanks to comprehensive help texts
- ✓ Intuitive menu navigation in full text German/English
- ✓ Data recording
- ✓ Autostart function
- ✓ Simple timer function
- ✓ Removable venting grid without tools
- ✓ Precise temperature stability of  $\pm 0.3$  °C
- ✓ Castors for easy handling

## 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 (Multiple Plugs (EU / CH))

|                                   |             |
|-----------------------------------|-------------|
| Viscosity max. cSt                | 50          |
| Pump capacity flow pressure l/min | 15 ... 23   |
| Pump capacity pressure bar        | 0.5 ... 1.1 |
| Power consumption A               | 5           |
| Voltage Tolerance %               | 230V   ±10  |

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

9610181.30005645

Cooling capacity (Ethanol)

|                 |     |     |      |      |
|-----------------|-----|-----|------|------|
| °C              | 20  | 0   | -10  | -20  |
| kW <sup>1</sup> | 1.8 | 1.1 | 0.75 | 0.47 |

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 80

Global Warming Potential for R290 3

Carbon dioxide equivalent t 0.00024

<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. 9610181

### Available voltage versions:

9610181.30005643 100-230V 50/60Hz (Multiple Plugs (EU / US)) (R290)

9610181.30005644 100-230V 50/60Hz (UK Plug Type BS1363A) (R290)

9610181.30005645 100-230V 50/60Hz (Multiple Plugs (EU / CH)) (R290)

9610181.30005646 100-230V 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 PID1

Temperature display OLED

Temperature setting Touchscreen

Electronic Timer h:min 99 ... 59

### Dimensions and volumes

Weight kg 43

Barbed fittings inner diameter mm 8/12 mm

Total dimensions cm (W × L × H) 36.5 x 52.5 x 61

Body dimensions cm (W × L × H) 36.5 x 47.5 x 60

Filling volume l 4 ... 7

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

### 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 dbA <sup>2</sup> 42 ... 56

<sup>2</sup> The sound pressure level may increase as the ambient temperature rises.

Included in delivery

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

Refer to [www.julabo.com](https://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.EN9610181/260216