

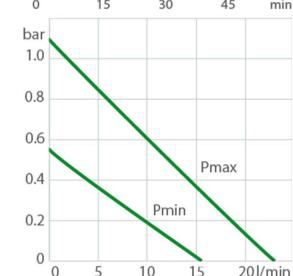
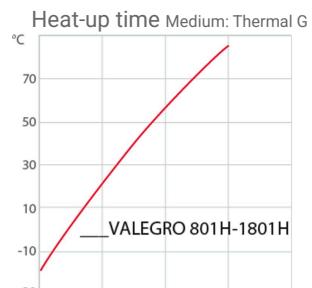
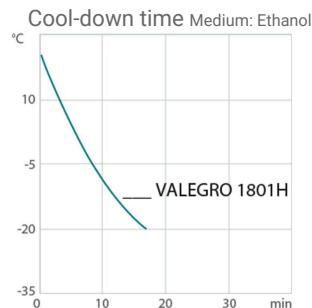
Product data sheet

VALEGRO 1801H recirculating cooler

with cooling capacities of 0.8 - 1.8 kW

VALEGRO recirculating coolers with additional heating function have an extended working temperature range from -20 to +85 °C. The pump can be easily adjusted in user-friendly, percentage-based stages.

Whether in the laboratory, research, or production, the VALEGRO 1801H recirculating coolers offer a constant cooling capacity of 1.8 kW at 20 °C, supporting stable processes around the clock. These modern units 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 does not require 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
- ✓ Castors for easy handling
- ✓ Precise temperature stability of ± 0.2 °C

Available options

Interfaces

Enabling the 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 / US))

| | |
|-----------------------------------|-------------|
| Heating capacity kW | 2 |
| Viscosity max. cSt | 50 |
| Pump capacity flow pressure l/min | 15 ... 23 |
| Pump capacity pressure bar | 0.5 ... 1.1 |
| Power consumption A | 11 |
| Voltage Tolerance % | 230V ±10 |

Order number including voltage version (230V/50Hz) 9612181.30005693

Cooling capacity 1 (Ethanol)

| | | | | |
|-----------------|-----|-----|------|-----|
| °C | 20 | 0 | -10 | -20 |
| kW ¹ | 1.8 | 1.1 | 0.75 | 0.5 |

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

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. 9612181

Available voltage versions:

| | |
|------------------|--|
| 9612181.30005692 | 100-115V 50/60Hz (Nema N5-15 Plug) (R290) |
| 9612181.30005693 | 200-230V 50/60Hz (Multiple Plugs (EU / US)) (R290) |
| 9612181.30005694 | 200-230V 50/60Hz (UK Plug Type BS1363A) (R290) |
| 9612181.30005695 | 200-230V 50/60Hz (CH Plug Type SEV 1011) (R290) |
| 9612181.30005696 | 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 | PID1 |
| Temperature display | OLED |
| Temperature setting | Touchscreen |
| Electronic Timer h:min | 99 ... 59 |

Dimensions and volumes

| | |
|-----------------------------------|------------------|
| Weight kg | 43.3 |
| Barbed fittings inner diameter mm | 8/12 mm |
| Total dimensions cm (W x L x H) | 36.5 x 52.5 x 61 |
| Body dimensions cm (W x L x 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 ... +85 |
| Temperature stability °C | ±0.2 |
| 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 ² | 42 ... 56 |

² 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 for more information regarding the entire JULABO product portfolio. Technical changes without prior notification.
Images may deviate from the original. | Datasheet No.EN9612181/251212