Julabo

Product data sheet

VALEGRO 1503 Recirculating Cooler

with cooling capacities of 1.2 - 2.5 kW

The more powerful VALEGRO recirculating coolers are designed for larger and more complex applications. They feature a precisely adjustable, increased pump pressure up to 3.5 bar.

Whether in the laboratory, research, or production, the VALEGRO 1503 recirculating coolers offer a constant cooling capacity of 1.5 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 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 unit. 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.
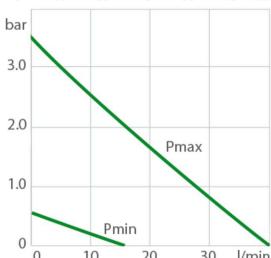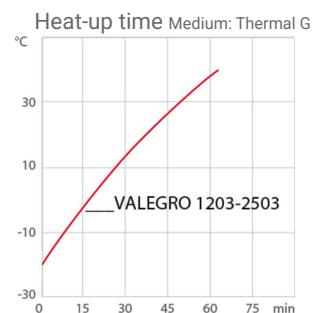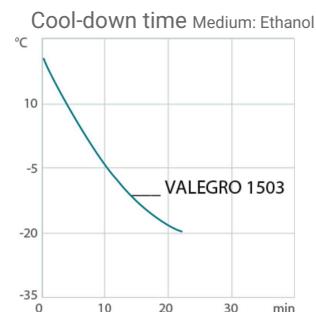
⭐ Product Features

- ✔ Adjustable pump pressure
- ✔ 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 ± 0.3 °C

Cool-down time Medium: Ethanol

VALEGRO 1503

Heat-up time Medium: Thermal G

VALEGRO 1203-2503

Pmax

Pmin

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 / US))	
Viscosity max. cSt	50
Pump capacity flow pressure l/min	15 ... 40
Pump capacity pressure bar	0.5 ... 3.5
Power consumption A	7
Voltage Tolerance %	230V | ±10

Order number including voltage version (230V/50Hz)   9610153.30006985

Cooling capacity 1 (Ethanol)

°C	20	0	-10	-20
kW [1]	1.5	1	0.7	0.35

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	99
Global Warming Potential for R290	3
Carbon dioxide equivalent t	0.000297

[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.	9610153

Available voltage versions:

9610153.30006985	200-230V 50/60Hz (Multiple Plugs (EU / US)) (R290)
9610153.30006986	200-230V 50/60Hz (UK Plug Type BS1363A) (R290)
9610153.30006987	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	60.5
Barbed fittings inner diameter mm	½"
Total dimensions cm (W × L × H)	43 x 56 x 69
Body dimensions cm (W × L × H)	43 x 50 x 68
Filling volume l	3 ... 8
Pump connections	M24x1.5 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 [2]	46 ... 60

[2] The sound pressure level may increase as the ambient temperature rises.

Included in delivery

2 barbed fittings suitable for hoses with an inner diameter of
1/2". (Pump connections with M24x1.5 external thread)