

NEW

**JULABO**  
THE TEMPERATURE CONTROL COMPANY

**VALEGRO™**

Recirculating Coolers

The new chiller generation from JULABO  
Compact – user-friendly – modern



with natural  
refrigerants

ENGLISH

# VALEGRO™

Whether in laboratories, research, or industrial production – VALEGRO recirculating coolers from JULABO are reliable partners for anyone who values high precision and efficiency in temperature control. With their powerful cooling capacity and modern design, they integrate seamlessly into any work environment, delivering exactly the temperature control your application requires.

They not only conserve valuable resources but also protect the environment: thanks to the use of natural refrigerants and intelligent, energy-efficient technology, these units operate sustainably and are future-proof. Intuitive operation, smart features, and NFLEXible adjustment options make VALEGRO an all-rounder that makes your daily work noticeably easier – from precise laboratory experiments to demanding continuous industrial applications.



## Maximum user convenience

The development of VALEGRO recirculating coolers focused on achieving maximum user satisfaction. The ergonomically inclined OLED display and the easily accessible, illuminated fill level indicator ensure convenient operation and allow placement under a laboratory bench. This saves both process time and workspace. The removable venting grid enables easy cleaning of the condenser, maintaining long-term performance and operational safety.



## Intuitive menu navigation

All functions are easy and quick to access. Full-text prompts in German and English allow immediate response to potential issues and ensure safe handling of the unit and application at all times. Useful functions such as timer, auto-start, and data recording improve process monitoring, increasing efficiency and saving time.



## Excellent connectivity

RS232 and USB-C interfaces are standard, positioned directly below the front display for easy access. The optional Ethernet interface enables integration into any network and full access to all functions via PC.

## Adjustable pump

All VALEGRO models are equipped with a powerful pump. The standard models offer a maximum pump pressure of 1.1 bar, precisely adjustable in percentage steps via the menu. Models with up to 3.5 bar pump pressure also include an integrated pressure sensor, allowing precise pressure control.



## High energy efficiency

Models with a cooling capacity of 800 watts or higher feature energy-efficient components such as speed-controlled compressors and fans. This results in significant operating cost savings in many application scenarios, leading to faster amortization of investment costs. At the same time, reduced energy consumption contributes positively to climate protection.

## How do I choose the right VALEGRO model?

VALEGRO recirculating coolers can be divided into four categories, offering the ideal solution for all types of temperature control applications depending on customer needs.

### **VALEGRO recirculating coolers**

- Cooling capacities from 0.35 - 1.8 kW
- Working temperature range from -20 °C to +40 °C
- Continuously adjustable, high-performance pressure pump with a pump pressure of up to 1.1 bar

### **VALEGRO recirculating coolers with extended temperature range**

- Cooling capacities from 0.8 - 1.8 kW
- Extended working temperature range from -20 °C to +85 °C thanks to an additional heating function
- Continuously adjustable, high-performance pressure pump with a pump pressure of up to 1.1 bar

### **VALEGRO recirculating coolers with enhanced pump performance**

- Cooling capacities from 1.2 - 2.5 kW
- Working temperature range from -20 °C to +40 °C
- Pump pressure up to 3.5 bar / precise adjustment and control of the pump pressure

### **VALEGRO recirculating coolers with extended temperature range and enhanced pump performance**

- Cooling capacities from 1.2 - 2.5 kW
- Extended working temperature range from -20 °C to +85 °C thanks to an additional heating function
- Pump pressure up to 3.5 bar / precise adjustment and control of the pump pressure



### **Sustainable & future-proof**

JULABO relies on environmentally friendly, natural refrigerants for all VALEGRO recirculating coolers to advance climate protection in the laboratory



Model	Order no.	Working tempera- ture range °C	Temperature stability °C	Cooling capacity kW				Pump		Filling volume Liter	Dimensions W x D x H cm	Weight kg
				20°	0°	-10°	-20°	Pressure bar (max.)	Supply pressure l/min (max.)			
VALEGRO 350	9 610 035	-20 ... +40	0.3	0.35	0.25	0.18	0.07	0.6	16	1.5 ... 3	23.5 × 45 × 45	26
VALEGRO 500	9 610 050	-20 ... +40	0.3	0.5	0.37	0.25	0.1	0.85	19	1.5 ... 3	23.5 × 45 × 45	26
VALEGRO 801	9 610 081	-20 ... +40	0.3	0.8	0.65	0.45	0.25	1.1	23	4 ... 7	36.5 × 52.5 × 61	43
VALEGRO 801H	9 612 081	-20 ... +85	0.2	0.8	0.65	0.45	0.25	1.1	23	4 ... 7	36.5 × 52.5 × 61	43.3
VALEGRO 1001	9 610 101	-20 ... +40	0.3	1.0	0.75	0.5	0.28	1.1	23	4 ... 7	36.5 × 52.5 × 61	43
VALEGRO 1001H	9 612 101	-20 ... +85	0.2	1.0	0.75	0.5	0.28	1.1	23	4 ... 7	36.5 × 52.5 × 61	43.3
VALEGRO 1201	9 610 121	-20 ... +40	0.3	1.2	0.9	0.6	0.35	1.1	23	4 ... 7	36.5 × 52.5 × 61	43
VALEGRO 1201H	9 612 121	-20 ... +85	0.2	1.2	0.9	0.6	0.35	1.1	23	4 ... 7	36.5 × 52.5 × 61	43.3
VALEGRO 1203	9 610 123	-20 ... +40	0.3	1.2	0.9	0.5	0.3	3.5	40	3 ... 8	43 × 56 × 69	60.5
VALEGRO 1203H	9 612 123	-20 ... +85	0.2	1.2	0.9	0.5	0.3	3.5	40	3 ... 8	43 × 56 × 69	60.8
VALEGRO 1501	9 610 151	-20 ... +40	0.3	1.5	1.0	0.7	0.4	1.1	23	4 ... 7	36.5 × 52.5 × 61	43
VALEGRO 1501H	9 612 151	-20 ... +85	0.2	1.5	1.0	0.7	0.4	1.1	23	4 ... 7	36.5 × 52.5 × 61	43.3
VALEGRO 1503	9 610 153	-20 ... +40	0.3	1.5	1.0	0.7	0.35	3.5	40	3 ... 8	43 × 56 × 69	60.5
VALEGRO 1503H	9 612 153	-20 ... +85	0.2	1.5	1.0	0.7	0.35	3.5	40	3 ... 8	43 × 56 × 69	60.8
VALEGRO 1801	9 610 181	-20 ... +40	0.3	1.8	1.1	0.75	0.47	1.1	23	4 ... 7	36.5 × 52.5 × 61	43
VALEGRO 1801H	9 612 181	-20 ... +85	0.2	1.8	1.1	0.75	0.47	1.1	23	4 ... 7	36.5 × 52.5 × 61	43.3
VALEGRO 1803	9 610 183	-20 ... +40	0.3	1.8	1.3	0.8	0.4	3.5	40	3 ... 8	43 × 56 × 69	60.5
VALEGRO 1803H	9 612 183	-20 ... +85	0.2	1.8	1.3	0.8	0.4	3.5	40	3 ... 8	43 × 56 × 69	60.8
VALEGRO 2503	9 610 253	-20 ... +40	0.3	2.5	1.45	1.0	0.5	3.5	40	3 ... 8	43 × 56 × 69	60.5
VALEGRO 2503H	9 612 253	-20 ... +85	0.2	2.5	1.45	1.0	0.5	3.5	40	3 ... 8	43 × 56 × 69	60.8



## Model classification overview

Cooling capacity in watts

VALEGRO™ 2503H

Pump differentiation

Extended temperature range



Classification according to DIN 12876	USB-C interface	RS232 interface	Ethernet interface	Available mains voltages / heating capacity (kW)					Model
				100 V 50/60 Hz	115 V 60 Hz	100-115 V 50/60 Hz	100-230 V 50/60 Hz	200-230 V 50/60 Hz	
NNFL	yes	yes	optional	✓	✓	-	-	✓	VALEGRO 350
NNFL	yes	yes	optional	✓	✓	-	-	✓	VALEGRO 500
NFL	yes	yes	optional	-	-	-	✓	-	VALEGRO 801
NFL	yes	yes	optional	-	-	✓   0.75 ... 1.0	-	✓   1.5 ... 2.0	VALEGRO 801H
NFL	yes	yes	optional	-	-	-	✓	-	VALEGRO 1001
NFL	yes	yes	optional	-	-	✓   0.75 ... 1.0	-	✓   1.5 ... 2.0	VALEGRO 1001H
NFL	yes	yes	optional	-	-	-	✓	-	VALEGRO 1201
NFL	yes	yes	optional	-	-	✓   0.75 ... 1.0	-	✓   1.5 ... 2.0	VALEGRO 1201H
NFL	yes	yes	optional	-	-	-	-	✓	VALEGRO 1203
NFL	yes	yes	optional	-	-	-	-	✓   1.5 ... 2.0	VALEGRO 1203H
NFL	yes	yes	optional	-	-	-	✓	-	VALEGRO 1501
NFL	yes	yes	optional	-	-	✓   0.75 ... 1.0	-	✓   1.5 ... 2.0	VALEGRO 1501H
NFL	yes	yes	optional	-	-	-	-	✓	VALEGRO 1503
NFL	yes	yes	optional	-	-	-	-	✓   1.5 ... 2.0	VALEGRO 1503H
NFL	yes	yes	optional	-	-	-	✓	-	VALEGRO 1801
NFL	yes	yes	optional	-	-	✓   0.75 ... 1.0	-	✓   1.5 ... 2.0	VALEGRO 1801H
NFL	yes	yes	optional	-	-	-	-	✓	VALEGRO 1803
NFL	yes	yes	optional	-	-	-	-	✓   1.5 ... 2.0	VALEGRO 1803H
NFL	yes	yes	optional	-	-	-	-	✓	VALEGRO 2503
NFL	yes	yes	optional	-	-	-	-	✓   1.5 ... 2.0	VALEGRO 2503H

Unless specified otherwise, all data relates to operation at nominal voltage/frequency and an ambient temperature of +20 °C. Cooling capacity measured according to DIN 12876-2. For information on the refrigerants used, visit: [www.julabo.com](http://www.julabo.com).



### Air freight capable

Despite their strong cooling capacity, all models are suitable for fast, uncomplicated worldwide air freight (total refrigerant charge < 100 g).

### The perfect addition: JULABO accessories & services

With our wide range of accessories and comprehensive service offering, we work with you to develop the perfect solution for your requirements – ensuring maximum performance, safety, and long-term, trouble-free operation.



<https://www.julabo.com/en/products/accessories>

# JULABO – The right place for high-quality, reliable, and powerful temperature control solutions

JULABO is one of the world's leading manufacturers of temperature control instruments for research, industry and science. For over five decades our premium products have always provided our customers with the exact temperature at the desired time.

Our highly qualified engineers and technicians apply their experience and know-how to constantly improve existing products and develop new, pioneering technologies of the future. Their goal is to always offer our customers the best possible solution. In line with our corporate vision  
>Superior Temperature Technology for a better Life<.



## **Maximum quality.**

Durable, high-quality products thanks to JULABO's proven "Made in Germany" quality.



## **Worldwide presence.**

Our 12 subsidiaries and over 100 sales and service partners around the world guarantee fast, expert support for all JULABO products.



## **Green technology.**

Our products are deliberately engineered with environmentally-friendly materials and technologies.



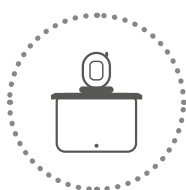
## **100% checked.**

Every JULABO product made must first pass the quality inspection before leaving our manufacturing facilities.

## Product portfolio



**Refrigerated circulators**



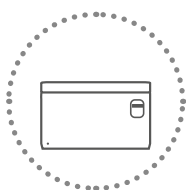
**Heating circulators**



**Highly dynamic temperature control systems**



**Recirculating coolers**



**Water baths & shaking water baths**



**Products for special applications**



**Accessories**



**Services**



## Customized special solutions

### Didn't find the right product? No problem!

Not all applications can be temperature controlled with a standard solution. Existing systems may need to be upgraded and expanded. Our Business Unit Solutions has its own in-house development team of engineers and designers and specializes in optimizing or modifying existing equipment in order to meet individual customer requirements.

Our many years of experience and our NFlexibility provide the perfect basis for meeting exceptional requirements. Together, in an in-depth exchange of ideas, our specialists develop and implement special, tailor-made solutions according to your needs and expectations. We look forward to making the impossible possible!



For more information on our special solutions, visit: [www.julabo.com/en/customizedsolutions](http://www.julabo.com/en/customizedsolutions).





## GERMAN Headquarters

**JULABO GmbH**  
Gerhard-Juchheim-Strasse 1  
77960 Seelbach  
Germany

Tel. +49 7823 51-0  
info.de@julabo.com  
www.julabo.com

**ITALY**  
JULABO Italia SRL  
www.julabo.com

**UK**  
JULABO UK, Ltd.  
www.julabo.com

**FRANCE**  
JULABO France SAS  
www.julabo.com

**NETHERLANDS**  
JULABO Nederland B.V.  
www.julabo.com

**SWITZERLAND**  
JULABO Switzerland LLC  
www.julabo.com

**NORTH AMERICA**  
JULABO USA, Inc.  
www.julabo.us

**JAPAN**  
JULABO Japan Co., Ltd.  
www.julabo-japan.co.jp

**KOREA**  
JULABO Korea Co., Ltd.  
www.julabo-korea.co.kr

**CHINA**  
JULABO Technology (Beijing) Co., Ltd.  
www.julabo.com.cn

**LATIN AMERICA**  
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