

NEW

Julabo
THE TEMPERATURE CONTROL COMPANY

Highly dynamic temperature control systems
PRESTO™ New Generation



**with natural
refrigerants**

ENGLISH

PRESTO™

The perfect solution for highly dynamic temperature control tasks

For many years, the PRESTO brand from JULABO has stood for maximum dynamics, precision, and quality in temperature control technology. Whether for reactor temperature control, material testing, or temperature simulation – PRESTO systems impress with extremely fast temperature changes, wide working temperature ranges, and outstanding temperature stability.

The new PRESTO generation continues this success story by building on proven strengths – high performance, precise temperature control, and exceptional dynamics – while adding targeted advancements that make the systems even more efficient, user-friendly, and ready for the future.

Combining advanced technologies, natural refrigerants, and intelligent control systems, the new PRESTO generation is perfectly suited for sustainable temperature control – remaining, as it always has been, a reliable solution for the most demanding applications.



Technology meets efficiency

The key features of the new PRESTO generation at a glance

Wide working temperature range

Temperature control without changing the heat transfer fluid: The new PRESTO models cover working temperatures from - 56 °C to +250 °C and provide rapid heating and cooling across the entire range. Ideal for external applications with varying requirements – from test benches to reactor temperature control.

Highly dynamic temperature control

Thanks to their high heating and cooling capacities, PRESTO systems enable extremely fast temperature changes and immediately compensate exothermic and endothermic reactions – ensuring precise, stable processes with a temperature stability of up to ± 0.05 °C. This allows even demanding external applications to be controlled reliably and reproducibly.

Compact and easy to integrate

Side panels without ventilation slots minimize the required footprint and simplify integration into existing systems or test setups. The robust, service-friendly design also allows easy maintenance and optimal accessibility of all components.



Maximum user convenience

The new large 7" color touch display offers outstanding operating comfort. All relevant parameters are clearly structured and displayed – intuitive, easy to navigate, and straightforward to operate thanks to a logically organized menu structure.



Environmentally friendly with natural refrigerants

By using environmentally friendly natural refrigerants, JULABO focuses on sustainability without compromising performance. PRESTO systems thus remain powerful and, at the same time, future-proof in view of upcoming regulatory requirements.



Lower operating costs through energy efficiency

Frequency-controlled compressors and fans automatically adjust their output to the current demand. This reduces energy consumption, lowers operating costs, and ensures quiet, efficient, and long-lasting operation.



Flexible pump options

Depending on the customer's application, various pump options are available. Magnetically coupled centrifugal or optional gear pumps provide optimal adjustment to viscosity, pressure sensitivity, and flow requirements – ensuring maximum process reliability and flexibility.



Connected communication

PRESTO systems offer a wide range of interfaces for networks, remote control, and control systems – including Profinet, Profibus, EtherCAT, CANopen, and OPC UA. A connection for an external Pt100 sensor is available as standard. This allows PRESTO process systems to be seamlessly integrated into a variety of infrastructures – providing maximum flexibility in laboratories, pilot plants, and production environments.

PRESTO New Generation: L56w | L52w

Energy-efficient process systems down to -56 °C with natural refrigerants

With the brand-new L56w and L52w models, JULABO expands the PRESTO family with two energy-efficient, water-cooled process systems that combine cutting-edge technology with proven PRESTO performance.

The PRESTO L56w delivers an impressive cooling capacity of 55 kW at 20 °C and maintains high performance even at low temperatures – still providing 7.2 kW at -40 °C. The PRESTO L52w offers the same dynamics and efficiency but is designed for lower performance ranges, achieving a cooling capacity of 25 kW at 20 °C and still 3 kW at -40 °C.

Versatile fields of application

The new PRESTO models are designed for a wide range of external applications – from reactor temperature control in chemical and pharmaceutical processes to material testing and temperature simulations in research and development.

They are particularly suited for the automotive industry, thanks to their high cooling capacity and stability in the low-temperature range down to -56 °C. Here, they enable precise and reproducible temperature profiles – ideal for component, battery cell, or functional testing under realistic conditions.

Flexibly expandable with modular options

The well-designed options concept makes the new PRESTO models particularly versatile. Depending on the application, different pump types can be selected – for example, magnetically coupled centrifugal pumps for pressure-sensitive systems or optional gear pumps for high-viscosity media such as water-glycol mixtures.

In addition, extended interface and communication modules as well as safety-related options are available. This allows both units to be perfectly adapted to individual process requirements and seamlessly integrated into any infrastructure.

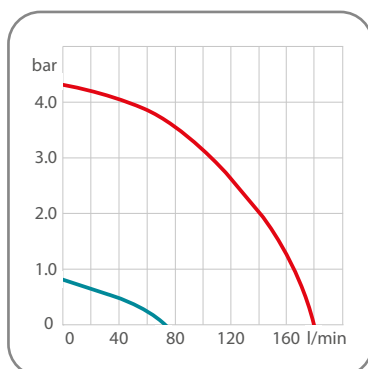
| Options | PRESTO L56w | PRESTO L52w |
|---|-------------|-------------|
| Pump | | |
| Centrifugal pump (4.2 bar / 180 L/min)* | X | X |
| Gear pump (5.5 bar / 80 L/min)* | X | X |
| Interfaces | | |
| Profinet* | X | X |
| Profibus* | X | X |
| EtherCAT* | X | X |
| CANOpen* | X | X |
| Stakei | X | X |
| OPC-UA | X | X |
| Analog | (accessory) | (accessory) |
| Additional Options | | |
| Gas warning sensor | X | X |
| Emergency stop category 0* | X | X |
| Emergency stop category 1* | X | X |

*Not combinable with other options within the same category (e.g., either the centrifugal or the gear pump can be selected, not both).

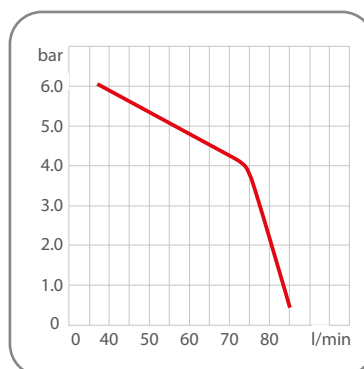
PRESTO L56w

PRESTO L52w

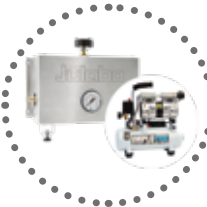
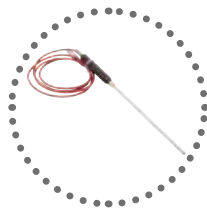
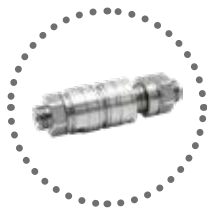
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|--|--|----|-----|-----|-----|--------------|-----|----|-----|-----|-----|-----|
| Working temperature range °C | -56 ... +250 | | | | | -52 ... +250 | | | | | | |
| Temperature stability °C | ±0.05 | | | | | | | | | | | |
| Cooling capacity °C (Medium ethanol) kW | +20 | 0 | -20 | -30 | -40 | -50 | +20 | 0 | -20 | -30 | -40 | -50 |
| | 55 | 51 | 25 | 15 | 7.2 | 2 | 25 | 25 | 11 | 6.5 | 3 | 1 |
| Heating capacity kW | 27 | | | | | | | | | | | |
| Minimum filling volume L | 11 | | | | | | | | | | | |
| Usable expansion volume L | 22 | | | | | | | | | | | |
| Refrigeration system | 1-stage, water-cooled | | | | | | | | | | | |
| Refrigerant (Filling weight in g) | R1270 (300) | | | | | | | | | | | |
| Dimensions W × D × H cm | 70 × 106 × 178 | | | | | | | | | | | |
| Classification according to DIN 12876-1 | III | | | | | | | | | | | |
| Available voltage versions | 400V/3PPE/50Hz, 460V/3PPE/60Hz | | | | | | | | | | | |
| Cooling water connection | G ¾" | | | | | | | | | | | |
| Cooling water consumption l/min | 56 | | | | | 26 | | | | | | |
| Noise level db(A) | 69 | | | | | | | | | | | |
| Interfaces (standard) | Pt100, Ethernet, Modbus TCP/IP, RS232/RS485, Pressure/Flow, Pressure Reservoir | | | | | | | | | | | |
| Interfaces (optional) | Profinet, Profibus, EtherCAT, CANOpen, Stakei, OPC-UA | | | | | | | | | | | |
| Permissible ambient temperature °C | +5 ... +40 | | | | | | | | | | | |
| Weight kg | 603 | | | | | | | | | | | |



Centrifugal pump
Bath fluid: Water (20 °C)
■ Pump stage max.
■ Pump stage min.



Gear pump
Bath fluid: Water-glycol 40/60 (-40 °C)
■ Pump stage max.



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>

Water-glycol up to +150 °C

With the extension kit (accessory) connected, overpressure temperature control with water-glycol is possible up to a working temperature of +150 °C.

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.



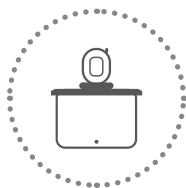
100% checked.

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

Produktportfolio



Refrigerated circulators



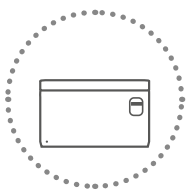
Heating circulators



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 flexibility 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.



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

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www.julabo-korea.co.kr

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

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JULABO Latin America
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