

PRESTO W56 Process System

The PRESTO W56 is the most powerful, 1-stage highly dynamic temperature control system from JULABO. Applications with high performance requirements can be temperature-controlled even faster and more efficiently.

The magnetically coupled pump allows optimal adjustment of the pump capacity to suit the application, even over large distances and height differences, as well as for pressure-sensitive applications. Use of the latest thermodynamic technologies means that the cooling capacity is automatically adjusted to suit the current power requirements. In combination with additional optimizations, the PRESTO W56 works very economical and energy-efficient.

Water-glycol up to +150 °C

The PRESTO W56 contains a technical innovation: Connection of an expansion kit allows pressurized temperature control with water-glycol up to a working temperature of +150 °C.



Your advantages

- 5,7" industrial color TFT touch screen
- RS232/RS485 interface for online communication
- ATC function for simple correction of temperature variations
- External Pt100 sensor connection
- Analog connections, RS485, Profibus DP (accessory)
- Ports for USB, Ethernet, RS232, Modbus
- Space optimized design creates more room directly next to the units
- Ethernet
- RS232

Technical data

Available voltage versions		Cooling	
Order No.	9 421 562	Cooling of compressor	1-stage Water
Available voltage versions:		Cooling water pressure max. bar	6 ... 5.5
9 421 562.07	400V/3PNPE/50Hz (Plug 63A CEE)	Cooling water difference pressure bar	0.5 ... 6
9 421 562.17	480V/3P(N)PE/60Hz (Without Plug)	Cooling water consumption l/min	14 ... 25
Other		Electronics	
Sound pressure level dba	72	External pt100 sensor connection	integrated
Classification	Classification III (FL)	2nd external Pt100 sensor connection	accessory
IP Code	IP 20	Integrated programmer	8x60 steps
Pump type	Centrifugal Pump	Temperature control	ICC
Pump type Magnetically coupled	1	Absolute temperature calibration	3 Point Calibration
		Temperature display	5.7" TFT Touchscreen
		Temperature setting	Touchscreen
Dimensions and volumes		Temperature values	
Filling volume expansion vessel l	18.5	Setting display resolution °C	0.01
Internal usable expansion volume l	17.5	Working temperature range °C	-56.0 ... 250.0
Minimal process volume l	11	Temperature stability °C	0.05 ... 0.1
Active heat exchanger volume l	10	Ambient temperature °C	+5.0 ... +40.0
Weight kg	385	Temperature display resolution °C	0.01
Cooling Water Connection in	G $\frac{3}{4}$		
Dimensions cm (W x L x H)	60 x 94 x 164		

Pump connections	M38x1.5 male
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Power and capacities

400V/3PNPE/50Hz (Plug 63A CEE)

400V/3PNPE/50Hz							
Heating capacity kW	27						
Cooling capacity (Ethanol)							
°C	20	0	-10	-20	-30	-40	-50
kW	25.8	23.1	16.9	11.5	7.1	3.5	1.4
Viscosity max. cST	50						
Refrigerant	R449A						
Filling volume g	2550						
Global Warming Potential for R449A	1397						
Carbon dioxide equivalent t	3.562						
Pump capacity flow rate l/min	35 ... 80						
Pump capacity flow pressure bar	0.48 ... 3.2						

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Benefits



100% Checked.
100% testing. 100% quality. Each JULABO Circulator undergoes thorough quality testing before leaving the factory.



Green technology.
Development consistently applied environmentally friendly materials and technologies.



Touch display. Perfect operation.
With the touch display, the user always has an overview of all values and functions. The intuitive and multilingual menu structure enables perfect control.



Convenience for several users
Administrator level for customizing instrument settings, user levels with limited permissions for fast and safe defined access, password protection, all levels adjustable



100 % Cooling capacity
 'Active Cooling Control' for cooling available throughout the entire working temperature range, fast cool-down even at higher temperatures



Intelligent temperature control.
 Intelligent cascade control - automatic and self-optimizing adaptation of the PID control parameters with external stability of +/- 0.05 °C.



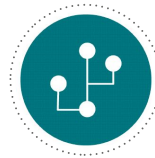
Control from the external application
 External Pt100 sensor connection for precise measurement and control directly in the external application



Highest measuring accuracy
 'Absolute Temperature Calibration' for manual compensation of a temperature difference, 3-point calibration



Intelligent pump system
 Reliable and consistent pump capacity, electronically adjustable pump stages or pressure value, automatic adjustment of pump capacity to viscosity



Many interfaces.
 Straight-forward remote control, data management, and integration into process structures. USB, Ethernet, RS232, SD card, and alarm off are permanently integrated. Further interfaces available as accessories.



Space-saving footprint
 All connections as well supply and exhaust air are located at the front or rear, no venting grids on the sides, units can be placed close to each other or the application



Continuous operation up to +40 °C
 Robust temperature control instrument, continuous operation even at ambient temperatures of up to +40 °C



Maximum safety.
 Classification III according to DIN12876-1 enables safe operation, even with flammable fluids. Automatic switch-off in the event of high temperature or low liquid level.



Duplicate safety
 Adjustable high temperature cut-off for internal tank and for integrated expansion vessel



For flammable bath fluid
 Classification III (FL) according to DIN 12876-1



Quick support
 If an error occurs, the integrated Black-Box function permits fast diagnosis by the JULABO service team



JULABO. Quality.
 Highest standards of quality for a long product life.



Quick start.
 Individual JULABO consultation and comprehensive manuals at your disposal.



Satisfied customers.
 11 subsidiaries and more than 100 partners worldwide guarantee fast and qualified JULABO support.



Services 24/7.
 Around the clock availability. You can find suitable accessories, data sheets, manuals, case studies, and more at www.julabo.com.