

PRESTO W56x Process system

The water-cooled PRESTO W56 can temperature control applications with high performance requirements very quickly and efficiently. Even at low temperatures it has large power reserves for challenging external applications. The magnetically coupled pump allows the user to optimally adjust 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 the current power requirements. In combination with additional optimizations, this makes the PRESTO W56 very economical and energy-efficient.

Water-glycol up to +150 °C

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





Product features

- ATC function for simple correction of temperature variations
- Analog connections, RS485, Profibus DP (accessory)
- Ports for USB, Ethernet, RS232, Modbus
- Integrated 5.7" industrial color touchscreen displays all essential information and enables simple fingertip control
- Extensive warning, protection, and monitoring functions with detailed selfexplanatory messages
- Connections for USB, Ethernet, RS232, and Alarm output
- Optional analog connections, RS485, Profibus DP, Modbus
- Profibus DP (Accessory)

Performance values

400V/3PNPE/50Hz (Plug 63A CEE)				
Heating capacity kW	27			
Viscosity max. cST	280			
Pump capacity flow rate I/min	18 70			
Pump capacity flow pressure bar	0.8 5.5			
Power A	47			



Refrigerant variants

Order No.		9421563.S1.07							
Cooling capa	Cooling capacity 1 (Thermal HL30)								
°C	20	0	-10		-2	-20		0	
kW	24.5	20.1	1	14.4		9.1		5.	.4
Cooling capa	Cooling capacity 2 (Water Glycol 40:60)								
°C	20	0		-10	-20		-30	-	40
kW	24.5	19.4	1	3.8	8.9		4.8		2.3
Refrigerant stage 1									
Refrigerant R449A									
Filling volum	Filling volume g 2550								
Global Warming1397Potential for R449A									
Carbon dioxi equivalent t	ide 3.	562							

Technical data

Available voltage versions		Cooling			
Order No.	9 421 563		Cooling of compressor	1-stage Water	
Available voltage versions:		Cooling water pressure max. bar	6		
9421563.S1.07 400V/3PNPE/50Hz (Plug 63A CEE)		Cooling water difference pressure bar	0.5 6		
	(R449A)		Cooling water consumption l/min	14 25	
9421563.S1.17	480V/3P(N)PE/60Hz (Without Plug) (R449A)				
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		Gear Pump	Temperature control	ICC	
			Absolute temperature calibration	3 Point Calibration	
		Temperature display	5.7" TFT Touchscreen		
			Temperature setting	Touchscreen	
Dimensions and volu	mes		Temperature values		
Internal usable expansion	volume l	17.5	Setting the resolution of the temperature	0.01	

Internal usable expansion volume I	17.5
Minimal process volume I	11
Active heat exchanger volume I	10
Weight kg	385
Cooling Water Connection in	G¾
Dimensions cm ($W \times L \times H$)	60 x 94 x 164
Pump connections	M38x1.5 male

Temperature values	
Setting the resolution of the temperature 0.0 display °C	01
Working temperature range °C -56	6.0 250.0
Temperature stability °C 0.0	05 0.1
Ambient temperature °C +5	5.0 +40.0
Temperature display resolution °C 0.0	01

All Benefits



100% Checked. 100% testing. 100% quality. Each JULABO Circulator undergoes thorough quality testing

before leaving the factory.



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.



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



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



Intelligent pump system

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



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



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.



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



JULABO. Quality.

Highest standards of quality for a long product life.



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



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



Intelligent temperature control. Intelligent cascade control - automatic and self-optimizing adaptation of the PID control

parameters with external stability of +/- 0.05

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

°C



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.



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



Duplicate safety Adjustable high temperature cut-off for internal

tank and for integrated expansion vessel

Quick support

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



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.