

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 PRESTO W56x process system is equipped with a gear pump. As a result, bath fluids with a high viscosity, such as water-glycol mixtures at low temperatures of up to -45 °C, can also be used.

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.



1.56.00

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 self-explanatory messages
- Profibus DP (Accessory)

Performance values

480V/3P(N)PE/60Hz (Without Plug)	
Heating capacity kW	27
Viscosity max. cST	280
Pump capacity flow rate I/min	18 70
Pump capacity flow pressure psi	11.6 79.8
Power A	47



Order No.		9421563.S1.17								
Cooling capacity 1 (Ethanol)										
°C	20	0		10	-	20	-30	-2	10	-50
kW	25.8	23.1	16	5.9	11.5		7.1	3	.5	1.4
Cooling cap	Cooling capacity 2 (Thermal HL30)									
°C	20	10		0)	-	-10	-20		-30
kW	25.8	25.1		23	.2	1	6.5	9.4		5.6
Cooling cap	pacity 3 (Water	Glycol 40:60)								
°C	20	10		0		10	-20	-3	80	-40
kW	25.6	25.2	2	3.3	1	6.2	9.1	5	.7	2.3
Refrigerant sta	age 1									
Refrigerant		R449A								
Filling volume g 2550										
Global Warming Potential 1397 for R449A										
Carbon dioxide equivalent t		3.562								

Technical data

Available voltage versions			Cooling		
Order No.	9 421 563		Cooling of compressor	1-stage Water	
Available voltage versions:		Cooling water temperature max. °C	35		
9421563.S1.07 400V/3PNPE/50Hz (Plug 63A CEE)		Cooling water pressure max. psi	87		
	(R449A)		Cooling water difference pressure psi	7.3	
9421563.S1.17	480V/3P(N)PE/60Hz (Without Plug) (R449A)		1.0Cooling water consumption I/min	14 25	
Other			Electronics		
Sound pressure level dbA		72	Digital interface	RS232, RS485 optional, Profibus	
Classification		Classification III (FL)		optional, SD memory	
IP Code	IP Code			card, USB, Ethernet,	
Pump type		Gear Pump		Modbus, Alarm output, Reg/Eprog optional, Standby-Input optional	
			External pt100 sensor connection	integrated	
			2nd external Pt100 sensor connection	accessory	
			Integrated programmer	8x60 steps	
		Temperature control	ICC		
			Absolute temperature calibration	3 Point Calibration	
			Temperature displayTemperature display	5.7" TFT Touchscreen	
			Temperature settingTemperature setting	Touchscreen	
Dimensions and volument	mes		Temperature values		
Internal usable expansion	volume l	17.5			



Minimal process volume I	11	Se
Active heat exchanger volume I	10	dis
Weight lbs	848.8	Wo
Cooling Water Connection in	G¾	Те
Dimensions in. (W × L × H)	23.6 x 37 x 64.6	An
Pump connections	M38x1.5 male	Te

Setting the resolution of the temperature display °C	0.01
Working temperature range °C	-45 + 150
Temperature stability °C	±0.05 ±0.5
Ambient temperature °C	+5 +40
Temperature display resolution °C	0.01

Included in delivery

All 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 selfoptimizing adaptation of the PID control parameters with external stability of +/- 0.05 °C.



Control of 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.