

PRESTO W55 Process System

The powerful W55 regulates temperatures with high precision and convinces with faster cool-down and heat-up times. It is ideal for use in large external applications such as reactor temperature control, material stress testing or temperature simulation.



Your advantages

- For highly precise, external temperature applications
- Rapid heating and cooling
- Wide working temperature ranges without changing fluids
- Highest performance with small footprint
- Space-saving design optimizes space utilization in your lab
- 5,7" industrial color TFT touch screen
- USB connection
- Ethernet
- SD-Card slot
- RS232
- Modbus
- RS485 (Accessory)
- Profibus DP (Accessory)
- CCC Anschlüsse für Alarm-Ausgang, Pt100-Externfühler und Standby-Eingang
- Pump pressure up to 3.2 bar, max. flow rate 76 l/min
- Temperature stability ± 0.05 °C ... ± 0.1 °C
- Second external Pt100 sensor connection (accessory)

Technical data

Available voltage versions		Cooling	
Order No.	9 421 552	Cooling of compressor	1-stage Water
Available voltage versions:		Cooling water pressure max. psi	87 ... 79.8
9 421 552.16	208-230V/3PPE/60Hz (Without Plug)	Cooling water difference pressure psi	7.3 ... 87
9 421 552.07	400V/3PNPE/50Hz (Plug 32A CEE)	1.0Cooling water consumption l/min	2 ... 12
Other		Electronics	
Sound pressure level dbA	65	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	11.5	Setting the resolution of the temperature display °C	0.01
Internal usable expansion volume l	7.5	Working temperature range °C	-55.0 ... +250.0
Minimal process volume l	11.5	Temperature stability °C	+/-0.05 ... +/-0.1
Active heat exchanger volume l	7	Ambient temperature °C	+5.0 ... +40.0
Weight lbs	634.9	Temperature display resolution °C	0.01
Cooling Water Connection in	G $\frac{3}{4}$		
Dimensions in. (W x L x H)	24 x 33.3 x 49.2		
Pump connections	M30x1.5 male		

Performance values

208-230V/3PPE/60Hz (Without Plug)

208V/3PPE/60Hz									230V/3PPE/60Hz																										
Heating capacity kW									12.5									Heating capacity kW									15								
Cooling capacity (Ethanol)																		Cooling capacity (Ethanol)																	
°C	200	20	0	-10	-20	-30	-40	-50										°C	200	20	0	-10	-20	-30	-40	-50									
kW	13.5	15	10	6.5	4	2.5	1.2	0.3										kW	13.5	15	10	6.5	4	2.5	1.2	0.3									
Viscosity max. cST									50									Viscosity max. cST									50								
Refrigerant									R452A									Refrigerant									R452A								
Filling volume g									1600									Filling volume g									1600								
Global Warming Potential for R452A									2140									Global Warming Potential for R452A									2140								
Carbon dioxide equivalent t									3.424									Carbon dioxide equivalent t									3.424								
Pump capacity flow rate l/min									35 ... 80									Pump capacity flow rate l/min									35 ... 80								
Pump capacity flow pressure psi									7 ... 43.5									Pump capacity flow pressure psi									7 ... 46.4								

400V/3PNPE/50Hz (Plug 32A CEE)

400V/3PNPE/50Hz																	
Heating capacity kW									15								
Cooling capacity (Ethanol)																	
°C	200	20	0	-10	-20	-30	-40	-50									
kW	13.5	15	10	6.5	4	2.5	1.2	0.3									
Viscosity max. cST									50								
Refrigerant									R452A								
Filling volume g									1600								
Global Warming Potential for R452A									2140								
Carbon dioxide equivalent t									3.424								
Pump capacity flow rate l/min									35 ... 80								
Pump capacity flow pressure psi									7 ... 46.4								

All Benefits



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.



Full control
 'Temperature Control Features', for individual optimization, access to all important control parameters, additional settings for band limit, limits, co-speedfactor etc.



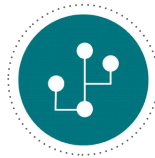
Control from the external application
 External Pt100 sensor connection for precise measurement and control directly in the external application



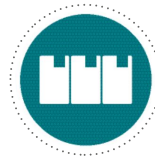
Highest measuring accuracy
 'Absolute Temperature Calibration' for manual compensation of a temperature difference, 3-point calibration



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



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.



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.