

## **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
- Cooling capacity up to 7.5 kW
- 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**

Pump connections

Available volta	ge versions		Cooling						
Order No.	9 421 552		Cooling of compressor	1-stage Water					
Available voltage v	ersions:		Cooling water pressure max. bar	6 5.5					
9 421 552.16	208-230V/3PPE/60Hz	z (Without Plug)	Cooling water difference pressure bar	0.5 6					
9 421 552.07	400V/3PNPE/50Hz (F	Plug 32A CEE)	Cooling water consumption I/min	2 12					
Other			Electronics						
Sound pressure lev	vel 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 Magnet	tically coupled	1	Absolute temperature calibration	3 Point Calibration					
			Temperature display	5.7" TFT Touchscreen					
			Temperature setting	Touchscreen					
Dimensions an	d volumes		Temperature values						
Filling volume expa	ansion vessel l	11.5	Setting display resolution °C	0.01					
Internal usable exp	ansion volume l	7.5	Working temperature range °C	-55.0 +250.0					
Minimal process v	olume l	11.5	Temperature stability °C	+/-0.05 +/-0.1					
Active heat exchar	Active heat exchanger volume I		Ambient temperature °C	+5.0 +40.0					
Weight kg 2		288	Temperature display resolution °C	0.01					
Cooling Water Con	nection in	G¾							
Dimensions cm (W	/×L×H)	61 x 84.5 x 125							

M30x1.5 male





### Power and capacities

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

208V/3PPE/60Hz						2	230V/3PPE/60Hz											
Heating capacity kW 12.5					ł	Heating capacity kW					15							
Cooling capacity (Ethanol)					(	Cooling capacity (Ethanol)												
°C	200	20	0	-10	-20	-30	-40	-50	c	°C	200	20	0	-10	-20	-30	-40	-50
kW	13.5	15	10	6.5	4	2.5	1.2	0.3	ŀ	kW	13.5	15	10	6.5	4	2.5	1.2	0.3
Viscosity max. cST 50					١	Viscosity max. cST					Ę	50						
Refrigerant R452A					F	Refrigerant					F	R452A						
Filling volume g 1600						F	Filling volume g					1600						
Global Warming Potential for R452A 2140						(	Global Warming Potential for R452A						2	2140				
Carbon dioxide equivalent t 3.424					(	Carbon dioxide equivalent t					3.424							
Pump capacity flow rate I/min 35 80					F	Pump capacity flow rate I/min					35 80							
Pump capacity flow pressure bar 0.48 3					3	F	Pump capacity flow pressure bar					0.48 3.2						

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

### 400V/3PNPE/50Hz

Heating capacity kW 15										
Cooling capacity (Ethanol)										
°C	200	20	0	-10	-30	-40	-50			
kW	13.5	5 15 10 6.5 4 2.5 1.2 0.3								
Viscosity max. cST 50										
Refrig										
Filling	volum	-	1600							
Global Warming Potential for R452A 2140										
Carbo	n dioxi	:	3.424							
Pump	capac	3	35 80							
Pump capacity flow pressure bar 0.48 3.2										

### 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.



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





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 °C.





#### Full control

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



## Highest measuring accuracy

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



## 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



## Green technology.

Development consistently applied environmentally friendly materials and technologies.



# 100% Checked.

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



### Services 24/7.

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



Control from 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.



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



### Quick start.

Individual JULABO consultation and comprehensive manuals at your disposal.