

PRESTO W80 Process System

As air- or water-cooled versions, the A80 and W80 units with 2-stage refrigeration unit offer high cooling and heating capacities for lowest temperatures down to -80 °C.

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)

Technical data

A 11 1 1

- Profibus DP (Accessory)
- CCC Anschlüsse für Alarm-Ausgang, Pt100-Externfühler und Standby-Eingang
- · Removable ventilation grid
- · Heating capacity up to 3.4 kW
- · Cooling capacity up to 1.2 kW

Dimensions and volumes

Filling volume expansion vessel I

Minimal process volume I

Weight kg

Pump connections

Internal usable expansion volume I

Available voltage versions					
Order No.	9 421 801	Cooling			

Electronics

Available voltage	versions:
9 421 801.03	230V/50Hz (Schuko Plug - CEE 7/4 Plug Type F)
9 421 801.04	230V/50Hz (UK Plug Type BS1363A)
9 421 801.14	208V/60Hz (Nema N5-20 Plug)

age Water
5.5

Other

Sound pressure level dba	64
Classification	Classification III (FL)
IP Code	IP 20
Pump type	Centrifugal Pump
Pump type Magnetically coupled	1

Licetionies	
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 display	5.7" TFT Touchscreen
Temperature setting	Touchscreen
Temperature setting Temperature values	Touchscreen
	Touchscreen 0.01
Temperature values	
Temperature values Setting display resolution °C	0.01
Temperature values Setting display resolution °C Working temperature range °C	0.01 -80.0 +250.0

M24x1.5 male

8

5.6





Power and capacities

230V/50Hz (Schuko Plug - CEE 7/4 Plug Type F)

230V/50Hz										
Heating capacity kW							1.8			
Cooling capacity (Ethanol)										
°C	200	100	20	0	-20	-30	-40	-60	-80	
kW	1.2	1.2	1.2	1.2	1.1	1.1	1.1	0.65	0.1	
Viscos	sity ma	ax. cST				ļ	50			
Refrig	erant					I	R507			
Filling volume g 1140										
Global Warming Potential for R507 3985							3985			
Carbon dioxide equivalent t							4.543			
Refrigerant							R23			
Filling volume g 500										
Global Warming Potential for R23							14800			
Carbon dioxide equivalent t 7.4										
Pump capacity flow rate l/min							16 40			
Pump capacity flow pressure bar						(0.3 1	1.7		

230V/50Hz (UK Plug Type BS1363A)

230V/50Hz											
Heating capacity kW							1.05				
Cooling capacity (Ethanol)											
°C	200	100	20	20 0 -20 -30 -40 -60							
kW	1.2	1.2	1.2	1.2	1.1	1.1	1.1	0.65	0.1		
Viscos	sity ma	x. cST				ł	50				
Refrig	erant					I	R507				
Filling volume g						1140					
Global Warming Potential for R507 3985											
Carbon dioxide equivalent t 4.543											
Refrigerant						I	R23				
Filling volume g							500				
Global Warming Potential for R23							14800				
Carbon dioxide equivalent t 7.4							7.4				
Pump capacity flow rate l/min							16 4	0			
Pump capacity flow pressure bar						(0.3 1	.7			

208V/60Hz (Nema N5-20 Plug)

208V/60Hz

Heating capacity kW						1	1.5			
Cooling capacity (Ethanol)				l)						
°C	200	100	20	0	-20	-30	-40	-60	-80	
kW	1.2	1.2	1.2	1.2	1.1	1.1	1	0.65	0.1	

Viscosity max. cST

Product data sneet - PRESTO W80	
Refrigerant	R507
Filling volume g	1140
Global Warming Potential for R507	3985
Carbon dioxide equivalent t	4.543
Refrigerant	R23
Filling volume g	500
Global Warming Potential for R23	14800
Carbon dioxide equivalent t	7.4
Pump capacity flow rate I/min	15 38
Pump capacity flow pressure bar	0.3 1.3

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



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



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 °C.



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.



3







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.



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.