

-80 ... +250 °C

The New PRESTO® A80 / W80

Thermodynamic Power

**Unsurpassed
Power & Efficiency
A New Era of Technology**



**Interactive User Interface
Powerful & Dynamic Cooling and Heating
Pump Control via Stages or Pressure Value**

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Julabo
THE TEMPERATURE CONTROL COMPANY



JULABO Model	PRESTO A80	PRESTO W80						
Working temperature range	-80 ... +250 °C	-80 ... +250 °C						
Temperature stability	±0.01 ... ±0.05 °C	±0.01 ... ±0.05 °C						
Temperature control	ICC (Intelligent Cascade Control)	ICC (Intelligent Cascade Control)						
User Interface								
Temperature setting / Display	5.7" industrial color TFT touch screen	5.7" industrial color TFT touch screen						
Operating languages	German, English, French, Spanish, Italian, Chinese, Japanese, Russian							
Setting / Display resolution	±0.01 °C	±0.01 °C						
Graphical user interface	Intuitive with interactive user guidance and password management of user levels							
Heating Capacity	1.8 kW @ 230 V 1.5 kW @ 208 V 1.3 kW @ 200 V							
Cooling Capacity	°C	+200	+20	0	-20	-40	-60	-80
(JULABO Thermal HL Ethanol)	kW	1.2	1.2	1.2	1.1	1.1	0.65	0.1
Pump								
Pump capacity	0.3 ... 1.7 bar	0.3 ... 1.7 bar						
Flow rate max. (at 0 bar)	16 ... 40 l/min	16 ... 40 l/min						
Compatible thermal fluids	JULABO Thermal, Silicon Oil, Fluorinert™, Galden®							
Viscosity max.	50 mm²/s (50 cSt)							
Pump connections	M24 x 1.5 male	M24 x 1.5 male						
Process volume min. (active heat exchanger volume)	3.9 liters (1.7 liters)	3.9 liters (1.7 liters)						
Internal usable expansion volume	5.6 liters	5.6 liters						
Digital / Analog Interfaces								
Standard	Pt100 External Temperature Sensor, USB, USB Host, SD Memory Card (up to 2 GB), Ethernet, RS232, Alarm out							
Accessory	Analog Interface Module (Input, Output, Standby-In), RS485, Profibus DP, Modbus							
Safety Installations (according to IEC 61010-2-010)								
Excess temperature protection	Tank and Reservoir, adjustable	Tank and Reservoir, adjustable						
Low liquid level protection	Float switch	Float switch						
Classification according to DIN 12876-1	Class III (FL)	Class III (FL)						
Additional JULABO Safety Installations								
Supervision of working sensors	Plausibility control	Plausibility control						
Reciprocal sensor monitoring between working and safety sensors	Difference > 25 °C	Difference > 25 °C						
Alarm message	Optical and audible	Optical and audible						
Refrigeration unit	2-stage, air-cooled	2-stage, water-cooled						
Cooling water connection	---	G 3/4" / fitting for tubing 1/2" ID						
Permissible ambient temperature range	+5 ... +40 °C	+5 ... +40 °C						
Noise level (distance 1 m) max.	68 dBA	64 dBA						
Power requirement	230 V (±10 %) / 50 Hz (16 A) or 208 V (±10 %) / 60 Hz (15 A)							
Weight	164 kg	159 kg						
Overall dimensions W x L x H	430 x 650 x 1258 mm	430 x 650 x 1258 mm						
JULABO Order No.	9 420 801	9 421 801						

All data refers to the nominal voltage of 230 V, nominal frequency of 50 Hz and ambient temperature of +20 °C. Cooling capacity measured at max. pump stage. All pump data refers to a bath fluid with a specific density of 1 kg/dm³.

Useful accessories such as Thermal Fluids, Tubing, Adapters, etc. are available. Please contact JULABO for details.