

PRESTO W92

Powerful Temperature Control Systems for demanding applications with a temperature range from -92 °C to +250 °C

PRESTO W92 - Highly Dynamic Temperature Control Systems The PRESTO W92 Highly Dynamic Temperature Control Systems are amongst the most powerful units available. Their impressive power is harnessed by cutting-edge control technology. The W92 provides extraordinary heating, cooling, and pumping performance. But it also comes with the functions and features that make the new generation of PRESTO so unique.

Your advantages

- Powerful circulating pumps, electronically adjustable in stages or by setting the pressure value Choose between a magnetically coupled centrifugal pump or a magnetically coupled gear pump for pressures up to 5.5 bar and virtually constant flow rate at any pressure
- 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
- ICC cascade control for extraordinary precision, temperature stability ±0.05 °C ... ±0.2 °C
- Ambient temperature range +5 °C to +40 °C
- · Integrated programmer with real-time clock
- · Filling level indicator and pump capacity displayed electronically
- Interface for SD memory card
- · Connections for USB, Ethernet, RS232, and Alarm output
- · Optional analog connections, RS485, Profibus DP, Modbus
- 2-stage water-cooled refrigeration system

Technical Data

Order No.	9421922
Category	Temperature Control PRESTO
Working temperature range (°C)	-92 +250
Temperature control	ICC
Temperature stability (°C)	±0.05 ±0.2
Setting / display resolution	0.01 °C
Temperature Display	TFT Touchscreen
Heating capacity (kW)	12
Cooling capacity (Medium Ethanol)	°C 200 100 20 0 -20 -40 -60 -80 kW 31 29 19 15.5 9.5 9 6.5 1.5
Pump capacity flow rate (I/min)	26 80
Pump capacity flow pressure (bar)	0.5 3.0
Pump connections	M38x1.5
Refrigerant	R23, R404A
External Pt100 sensor connection	integrated
Digital interface	RS232, SD memory card, USB, Ethernet, Modbus, Alarm-out





	Optional: RS485, Profibus
Ambient temperature	5 40 °C
Dimensions W x L x H (cm)	95 x 127 x 190
Weight (kg)	785
Sound pressure level (distance 1 m) max. (dBA)	74
Viscosity max. (cSt)	50
Process volume min. (active heat exchanger volume) liters	28 (16)
Internal usable expansion vol. (liters)	40
Classification according to DIN12876-1	Classification III (FL)
Analog connection input / output	Optional
Cooling of compressor	2-stage Water
Cooling water connection	G $\frac{3}{4}$ male with barbed fittings for tubing $\frac{1}{2}$ ID
Cooling water consumption (I/min)	1643
Cooling water differential pressure (bar)	0.5
Available voltage versions	400V/3PNPE/50Hz 480V/3PPE/60Hz

All data refers to the nominal voltage of 400 V, 3-phase, 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.

Characteristics

Display

TET State-of-the-art display technology

TFT Display for comfortable user guidance, colored display of measurement values, graphs and control options, user-defined views

Operation

Optimal ease of use

Touch screen for direct operation via display

Instructions inside Ô

Help menus and explanations in plain text for all control options, help messages and warning messages

Multilingual user guidance

Language selection for display of control options, notifications and warning messages via touchscreen

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

Temperature Control



ICC For perfect results 'Intelligent Cascade Control', automatic & self optimizing adjustment of PID control parameters, temperature stability ±0.01 °C ... <±0.2 °C



'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 Pt100 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

Refrigeration Technology

Consistent cooling capacity Easily removable venting grid for quick and easy cleaning



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



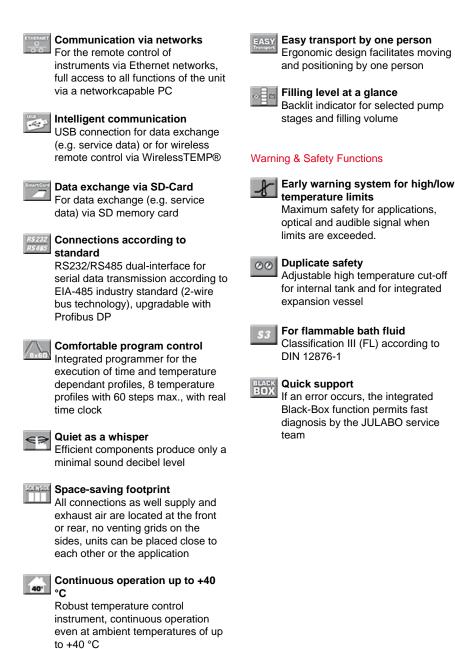
Energy saving cooling Proportional cooling control for automatic adjustment of cooling power or temporary switch-off of compressor as needed to save up to 90 % energy in comparison to unregulated cooling machines

Technical Features



Intelligent pump system Reliable and consistent pump capacity, electronically adjustable pump stages or pressure value, automatic adjustment of pump capacity to viscosity





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