

PRESTO W91x

Powerful Temperature Control Systems for demanding applications with a temperature range from -91 °C to +250 °C

The PRESTO W91 Highly Dynamic Temperature Control Systems are amongst the most powerful units available. Their impressive power is harnessed by cutting-edge control technology. The W91 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

- · Extremely fast cool-down and heat-up times
- · Wide working temperature range without changing the bath fluid
- · Very fast compensation of exothermic and endothermic reactions
- Unsurpassed power and efficiency
- · Heating capacity up to 36 kW
- Ambient temperature range +5 °C to +40 °C
- Space optimized design creates more room directly next to the units
- 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
- · Integrated programmer with real-time clock
- · Filling level indicator and pump capacity displayed electronically
- · Powerfol circulating pumps, electronically adjustable in stages or by setting the pressure value
- Interface for SD memory card
- · Connections for USB, Ethernet, RS232, and Alarm output
- Optional analog connections, RS485, Profibus DP, Modbus

Technical Data

Order No.	9421913
Category	Temperature Control PRESTO
Working temperature range (°C)	-91 +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)	°C200100200-20-40-60-80kW111111109.596.51.5
Pump capacity flow rate (I/min)	18 70
Pump capacity flow pressure (bar)	0.8 5.5
Pump connections	M38x1.5
Refrigerant	R23, R404A





External Pt100 sensor connection	integrated
Digital interface	RS232, RS485, SD memory card, USB, Ethernet, Modbus, Alarm-out Optional: RS485
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)	70
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
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

TFT 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 2

Touch screen for direct operation via display

Instructions inside Ê

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

MULTI 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

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 application

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

ATC³ 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



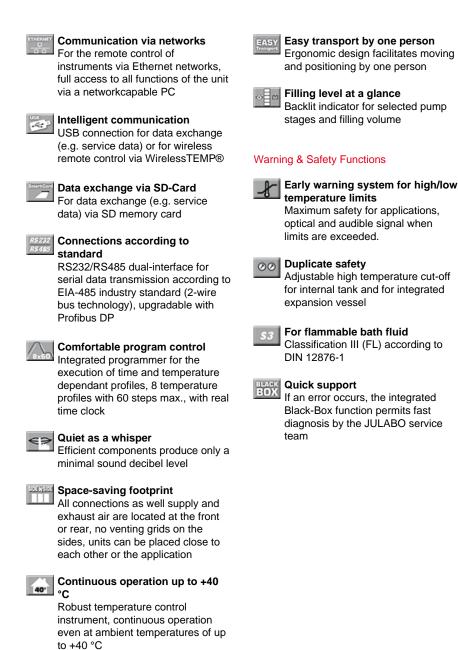
Energy saving cooling Proportional cooling control for automatic adjustment of cooling power or temporary switch-off of compressor as needed to save up to 90 % energy in comparison to unregulated cooling machines

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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