



Product Data Sheet

LH40 PLUS Temperature Control System

Product Image



Order Information

Model: LH40 PLUS
Order no.: 9410240

Available mains power:
 230V / 50Hz / 15A
 230V / 60Hz

Downloads

- [EasyTemp Software](#)
- [Advantages of Presto PLUS \(PDF Flyer\)](#)

Similar Models

These models could also be interesting for you:

LH41 plus

Description

Presto PLUS - Highly Dynamic Temperature System

Instruments of the PRESTO series are the ideal solution for highly precise, external temperature applications. They offer rapid heating and cooling, wide working temperature ranges without changing fluids as well as highest performance with a small footprint. The self-optimizing controller (ICC - Intelligent Cascade Control) provides excellent temperature stability and optimized control. The classic PID control parameters are available at the touch of a button for modification at any time. All models have an interactive 4-line LCD display as well as a bright VFD-Info-Display. All this together with the splash-proof keypad and the high temperature cut-out (safety value) ensure safe and convenient operation. Reciprocal sensor monitoring, self-test after switch-on, pump motor and compressor overload protection as well as permanent performance supervision of sensors guarantee reliable performance and provide high safety for your samples. Analog connections, digital interfaces and the optional Profibus allow future-oriented automation technology. The high standard of heating, cooling and pump capacities in combination with outstanding ICC temperature control help to produce reliable and quick results.

Advantages

- o For highly precise, external temperature applications
- o Rapid heating and cooling
- o For isotherm realization of chemical processes
- o Wide working temperature ranges without changing fluids
- o Highest performance with small footprint
- o Bright VFD-Info-Display and interactive LCD display
- o RS232 interface for on-line communication (LIMS capability)
- o RS485 interface for bus data exchange
- o Analog setpoint/programmer input (0 to 20 mA / 0 to 10 V)
- o Temperature recorder output (0 to 20 mA / 0 to 10 V)
- o Stand-by input for external emergency switch-off
- o Integrated programmer stores up to 6 profiles (60 sections each)
- o Upper and lower temperature warning functions with interval tone
- o High temperature cut-out (safety value) adjustable on the front
- o Removable control module
- o Filling system accessible from the front
- o Removable venting grid for simplified removal of dust

Technical Specifications

Working temperature range	-40 ... 250 °C
Temperature control	PID+ICC
Temperature stability external	±0.01 °C
Display	LCD+VFD
Display resolution	0.01 / 0.01 °C
Integrated programmer	available
Heater capacity	2600 W
Cooling capacity	200 20 -20 -40 °C 1600 900 350 10 W
Refrigerant	R404A
Pump capacity	Pressure: 23.2 psi Flow rate: 16-30 l/min
Digital interfaces	RS232, RS485, optional Profibus
External Pt100 sensor connection	available
Filling volume	3.1 Liters
Filling volume expansion vessel	0.8 Liters

Dimensions (W x L x H)	11.8 x 19.3 x 25.2 inches
Weight	159 lbs
Ambient temperature	5 ... 40 °C
Classification according to DIN 12876-1	3 (FL)

Miscellaneous

External temp. stability varies with temperature range from ± 0.01 to ± 0.05 °C
Air cooled
IP20 (IEC 60529)
Cooling capacity measured at pump stage 1 (0.5 bar)
Version with UK plug and 1.8kW heating power (instead of 2.6kw) due to maximum allowed total power consumption.