

Performance Programmable Temperature Controller

Key Specifications

Working Temperature: From 40°C to +200°C

Temperature Stability: ±0.005°C

Maximum Pressure: psi (bar)

120 VAC/60 Hz Models 4.3 (0.3)

240 VAC/50 Hz Models 3.6 (0.25)

Maximum Flow Rate:	Pressure	Suction
	gpm (l/min)	gpm (l/min)
120 VAC/60 Hz Models	5.3 (20.1)	3.9 (14.7)
240 VAC/50 Hz Models	4.4 (16.7)	3.2 (12.2)

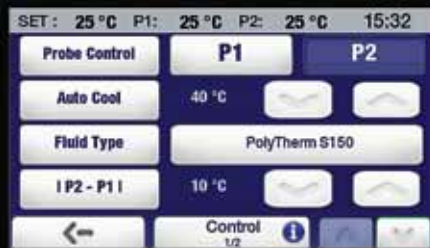
120 VAC/60 Hz Models 5.3 (20.1) 3.9 (14.7)

240 VAC/50 Hz Models 4.4 (16.7) 3.2 (12.2)



Features:

- OpenMode time/temperature programming (no restriction on number of programs or steps)
- Intuitive 4.3" (10.9 cm) SmartTouch display
- 11 languages: French, German, Spanish, Chinese, Portuguese, Russian, Hindi, Arabic, Italian, Korean, English
- Variable-speed pressure/suction pump with external circulation and temperature control capability
- Swivel 180™, LidDock™, DuraTop™, WhisperCool™, Cool Command™
- On-board connectivity: USB-A & B, Ethernet, RS232/485, remote on/off, external temperature probe
- Event scheduling (time & date), real-time clock and temperature trends for up to 10 days
- Multiple, selectable "home" screens and on-screen help
- Automatic and/or user-adjustable performance optimization and 10-point calibration capability
- Complies with DIN 12876-1 Class III safety requirements for use with flammable liquids
- Includes Enhanced Performance Hardware & Software Package
- Available with DeviceNet™/CANbus, Modbus®, and Profibus® options



Temperature control is easily fine tuned through the selection of a specific fluid, entry of a fluid's specific heat capacity, or even the adjustment of the controller's PID values.

Simple and intuitive time/temperature programming makes it easy to create and run special test protocols and/or ramp and soak profiles.

Selectable "Home" screens allow you to display as much or as little temperature information as you need including 4 minute to 10 day temperature trend data.

For additional information on the Performance Programmable Controller's features and capabilities, see pages 16 and 17.

**7 Liter: 20°C, Low Profile**Temperature Range:
20° to +200°CWorking Access (L x W x D):
6.18 x 5.59 x 5"
15.7 x 14.2 x 12.7 cmOverall Dimensions (L x W x H):
23.2 x 16.2 x 16.2"
58.9 x 41.1 x 41.1 cm**7 Liter: 20°C**Temperature Range:
20° to +200°CWorking Access (L x W x D):
6.18 x 5.59 x 5"
15.7 x 14.2 x 12.7 cmOverall Dimensions (L x W x H):
21.3 x 8.7 x 24.3"
54.1 x 22.1 x 61.7 cm**7 Liter: 40°C**Temperature Range:
40° to +200°CWorking Access (L x W x D):
6.18 x 5.59 x 5"
15.7 x 14.2 x 12.7 cmOverall Dimensions (L x W x H):
21.3 x 8.7 x 24.3"
54.1 x 22.1 x 61.7 cm**15 Liter: 30°C**Temperature Range:
30° to +200°CWorking Access (L x W x D):
8.35 x 10.88 x 5.5"
21.2 x 27.6 x 14 cmOverall Dimensions (L x W x H):
22.4 x 14.5 x 26.9"
56.9 x 36.8 x 68.3 cm**15 Liter: 40°C**Temperature Range:
40° to +200°CWorking Access (L x W x D):
8.35 x 10.88 x 5.5"
21.2 x 27.6 x 14 cmOverall Dimensions (L x W x H):
22.4 x 14.5 x 26.9"
56.9 x 36.8 x 68.3 cm**20 Liter: 30°C**Temperature Range:
30° to +200°CWorking Access (L x W x D):
9.85 x 12.45 x 5.5"
25 x 31.6 x 14 cmOverall Dimensions (L x W x H):
24 x 16.6 x 26.9"
61 x 41.9 x 68.3 cm**28 Liter: 30°C**Temperature Range:
30° to +200°CWorking Access (L x W x D):
12.35 x 14.13 x 5.5"
31.4 x 35.9 x 14 cmOverall Dimensions (L x W x H):
26.5 x 18.0 x 26.9"
67.2 x 45.7 x 68.3 cm**45 Liter: 25°C**Temperature Range:
25° to +135°CWorking Access (L x W x D):
21.6 x 15.68 x 5.5"
54.9 x 39.8 x 14 cmOverall Dimensions (L x W x H):
35.8 x 22.4 x 42.1"
90.9 x 56.8 x 107 cm

Reservoir Size	7 Liter Low Profile	7 Liter		15 Liter		20 Liter	28 Liter	45 Liter ¹
Temperature Range	20° to +200°C	20° to +200°C	40° to +200°C	30° to +200°C	40° to +200°C	30° to +200°C	30° to +200°C	25° to +135°C
Cooling Capacity @ 20°C	200 W	200 W	505 W	915 W	1000 W	915 W	915 W	1400 W
Heater	1100 W (60 Hz)/2200 W (50 Hz)							2200 W (50/60 Hz)
Part Number 120 VAC/60 Hz	PP7LR 20 A11B	PP07R 20 A11B	PP07R 40 A11B	PP15R 30 A11B	PP15R 40 A11B	PP20R 30 A11B	PP28R 30 A11B	PP45R 20 A13D
Part Number 240 VAC/50 Hz	PP7LR 20 A12E	PP07R 20 A12E	PP07R 40 A12E	PP15R 30 A12E	PP15R 40 A12E	PP20R 30 A12E	PP28R 30 A12E	PP45R 20 A12E

1. 45 liter bath is 208 240 VAC, 50/60 Hz

Electrical plugs for the part numbers listed are standard U.S. and European types. See page 128 for additional plug types and part numbers.