



Model 850-S1
 shown with optional test tube racks



Model 850 Controller

Features & Benefits

- PID controller with auto-tuning to ensure rapid heating, minimum temperature fluctuation and overshoot.
- Push-button operation and LED screen display digitally both the set and actual temperatures to $\pm 0.1^{\circ}\text{C}$ and can be locked.
- Auto diagnostic system integrated in the controller ensures rapid identification and correction in the event of any error.
- Off-set function for calibration use. Important for ISO/Calibration requirement.
- Adjustable high limit temperature cut-off ~ Protect sample from overheating.
- Low-level liquid cut-off switch protects heater burnt out.
- With inlet-outlet nozzles for internal/external temperature application.
- Safety class 3 protection.
- Back-up system memory protects the set point value in case of power failure.
- With built-in circuit breaker to ensure safe and lasting operation.
- Stirring motor ensures temperature uniformity throughout the bath.
- External circulation attachment (Model 850-S3 and 850-S5 only).

Specifications

MODEL	850-S1	850-S2	850-S3	850-S4	850-S5
Temp. working range	5°C above ambient temperature to 100°C				
Temp. control range	-40°C to 100°C. Below ambient with external cooler				
Controller	PID controller				
Setting and display	Digital, read out to 0.1°C				
Accuracy	$\pm 0.1^{\circ}\text{C}$				
Sensor	PT-100				
Safety features	Built-in circuit breaker, adjustable high-limit temperature cut-off, low-level liquid cut-off				
Pump flow rate, L/min	8	8	17	17	17
Heater	1500 watt	1500 watt	2000 watt	2000 watt	2000 watt
Stirring	By means of built-in circulating pump				
Bath capacity	20 litres	14 litres	29 litres	28 litres	43 litres
Bath dimensions (mm)	495W x 290D x 150H	300W x 240D x 200H	300W x 360D x 270H	500W x 300D x 200H	311W x 478D x 270H
Working Area (mm)	355W x 290D	190W x 240D	280W x 140D	355W x 290D	290W x 300D
Overall dimensions	550W x 340D x 370H	345W x 340D x 470H	360W x 440D x 500H	360W x 440D x 550H	386W x 586D x 494H
Bath material	Interior SUS 304 stainless steel and exterior powder coated mild steel				
Weight	3.7 kg (controller only) 6.5 kg (S1 tank)	3.7 kg (controller only) 6.5 kg (S2 tank)	3.3 kg (controller only) 9.5 kg (S3 tank)	3.3 kg (controller only) 9.5 kg (S3 tank)	3.3 kg (controller only) 25 kg (S5 tank)
Power source	240 VAC, 50Hz, 6.4A	240 VAC, 50Hz, 6.4A	240 VAC, 50Hz, 7.8A	240 VAC, 50Hz, 7.8A	240 VAC, 50Hz, 7.8A

Optional Accessories

- Stainless steel gable cover for S1 tank (C/N 850 C1).
- Stainless steel gable cover for S2 tank (C/N 850 C2)
- Stainless steel gable cover for S4 tank (C/N 850 C4).
- Plastic test tube rack of 55 holes for 4 to 18mm \varnothing test tubes (C/N 430010-TM).

All specifications are subject to change without prior notice.