

## Circulating Water Bath Selection Guide

		Refrigeration/Heating Circulating Water Baths					Heating Circulating Water Baths				Immersion Circulators (Thermostats)
											
<b>Series</b>		9000	9100	9500	9700	9600	8000	8100	8200	8300	7000
<b>Capacity</b>		6 Liters		13 Liters		28 Liters	6 Liters	13 Liters	28 Liters		28 Liters Maximum
<b>Maximum Temperature <sup>(1,2)</sup></b>		200°C				150°C	200°C	150°C			200°C
<b>Minimum Temperature <sup>(1)</sup></b>		-20°C		-30°C	-40°C	-25°C	Ambient +5°C				Ambient +5°C
<b>Cooling Capacity @ +20°C</b>		200 watts		660 watts	680 watts	700 watts	–	–	–	–	–
<b>Model (by Controller Type) See reverse for features</b>	<i>Programmable</i>	9012	9112	9512	9712	9612	8012	8112	8212	–	7312
	<i>Advanced Digital</i>	9002	9102	9502	9702	9602	8002	8102	8202	–	–
	<i>Standard Digital</i>	9006	9106	9506	9706	9606	8006	8106	8206	8306	7306
	<i>Basic</i>	–	912	–	–	–	812	–	–	–	712
<b>Working Access (L x W x H)</b>		13.3 x 13.3 x 14 cm 5.25 x 5.25 x 5.5 in		14 x 28 x 15.2 cm 6 x 11 x 5.5 in		26 x 26 x 26 cm 10.25 x 10.25 x 10.25 in	13.3 x 13.3 x 14 cm 5.25 x 5.25 x 5.5 in	13.3 x 21.6 x 19.7 cm 5.25 x 8.5 x 7.75 in	30.8 x 26.4 x 20.3 cm 12.13 x 10.38 x 8 in	27.3 x 29.8 x 20.3 cm 10.25 x 11.75 x 8 in.	N/A
<b>Unique Characteristics</b>		Low-Profile to -20°C	Space-Saving to -20°C <sup>(4)</sup>	Low Temp to -30°C	Very Low Temp to -40°C	Large-Access Reservoir to -25°C	Compact <sup>(4)</sup>	Mid-Size Reservoir <sup>(4)</sup>	Large-Access Reservoir <sup>(4)</sup>	Optimized for Coliform Testing <sup>(4)</sup>	Reservoir Optional <sup>(4)</sup>

<sup>1</sup>Maximum temperature is controller dependent; see Controller Features on reverse.

<sup>2</sup>Immersion circulator's maximum temperature is dependent on fluid volume.

<sup>3</sup>Minimum temperature is shown with no external heat load.

<sup>4</sup>For 100V operation, consult PolyScience.

Specifications subject to change without notice.

## Circulator Controller Features

		Programmable	Advanced Digital	Standard Digital	Basic
<b>Operation</b>	Time / Temperature Programming	●			
	Remote Temperature Control Capability	●			
	RS232	●	●		
	Datalogging Capability	●	●		
	Datalogging Software (supports LabView, Excel, and Palm OS)	●			
	Full Graphic Display	●	●		
	Multi-Language Menus	●	●		
	Displays Temperature Trend	●	●		
	Displays Actual & Set Point Temperature Simultaneously	●	●		
<b>Performance</b>	Temperature Readout	Graphic LCD	Graphic LCD	LED	Thermometer
	Readout in °C and °F	●	●	●	
	Readout Accuracy	±0.25°C	±0.25°C	±0.5°C	N/A
	Timer	●	●		
	Temperature Stability <sup>(1)</sup>	±0.01°C	±0.01°C	±0.05°C	±0.2°C
	Maximum Temperature	200°C <sup>(2)</sup>	200°C <sup>(2)</sup>	150°C	100°C
	PID Control	●	●	●	
	User-Defined Temperature Presets			●	
	Pump	Variable Speed	Variable Speed	2-Speed	2-Speed
	Pressure Flow Rate (maximum)	22 LPM	22 LPM	13 LPM	13 LPM
	Suction Flow Rate (maximum)	15 LPM	15 LPM	N/A	N/A
	Open Loop Operation	●	●		
	Closed Loop Operation	●	●	●	●
	AutoTune (adjusts performance to liquid properties and mass)	●	●		
Nitrogen Purge	●	●	●	●	
<b>Safety</b>	High Temperature Limits (user-settable)	●	●	●	
	Low Temperature Limits (user-settable)	●	●		
	Low Liquid Level Safety	●	●	●	●
	Over-Temperature Safety (user-settable)	●	●	●	●
	Temperature Calibration Capability	●	●	●	
	Local Controller Lockout	●	●	●	
	Audible Alarm	●	●		
	Visual Alarm — Warning, Fault, Error Messages or Error Codes	●	●	●	



Programmable



Advanced Digital



Programmable & Advanced Digital Rear



Standard Digital



Basic



Standard & Basic Rear

<sup>1</sup>Temperature stability and other performance specifications may vary depending on bath volume, surface area, insulation, and type of fluid.

<sup>2</sup>150°C on 13-liter Heating Circulators and all 28-liter Circulators.