

# Technical Information

## Performance Specifications

Operating Temperature Range:	Model dependent; see table below	
Temperature Stability:	±0.005°C (±0.01°F)	
Pump Type:	Variable speed pressure/suction	
	<u>60Hz models</u>	<u>50Hz models</u>
Maximum Pressure:	4.3 psi (0.30 bar)	3.6 psi (0.25 bar)
Maximum Pressure Flow Rate:	5.3 gpm (20.1 lpm)	4.4 gpm (16.7 lpm)
Maximum Suction Flow Rate:	3.9 gpm (14.7 lpm)	3.2 gpm (12.2 lpm)
Heater Wattage:	1100 watts	2200 watts

Model Type	Reservoir Capacity	Temperature Range	Electrical Requirements	
			60Hz	50Hz
AP07R-20 Refrigerating / Heating Bath	7 liters	-20° to 200°C -4° to 392°F	120V, 60Hz, 12A	240V, 50Hz, 12A
AP07R-40 Refrigerating / Heating Bath	7 liters	-40° to 200°C -40° to 392°F	120V, 60Hz, 12A	240V, 50Hz, 12A
AP7LR-20 Refrigerating / Heating Bath	7 liters	-20° to 200°C -4° to 392°F	120V, 60Hz, 12A	240V, 50Hz, 12A
AP15R-30 Refrigerating / Heating Bath	15 liters	-30° to 200°C -22 to 392°F	120V, 60Hz, 13A	240V, 50Hz, 13A
AP15R-40 Refrigerating / Heating Bath	15 liters	-40° to 200°C -40° to 392°F	120V, 60Hz, 13A	240V, 50Hz, 13A
AP20R-30 Refrigerating / Heating Bath	20 liters	-30° to 200°C -22° to 392°F	120V, 60Hz, 13A	240V, 50Hz, 13A
AP28R-30 Refrigerating / Heating Bath	28 liters	-30° to 200°C -22° to 392°F	120V, 60Hz, 13A	240V, 50Hz, 13A
AP45R-20 Refrigerating / Heating Bath	45 liters	-25° to 135°C -13° to 275°F <sup>(1)</sup>	208-240V, 50/60Hz, 13A	208-240V, 50/60Hz, 13A
AP75R-20 Refrigerating / Heating Bath	75 liters	-20° to 100°C -4° to 212°F <sup>(1)</sup>	208-240V, 50/60Hz, 13A	208-240V, 50/60Hz, 13A
AP07H200 Heating Only Bath	7 liters	Ambient +10° to 200°C Ambient +20° to 392°C	120V, 60Hz, 10A	240V, 50Hz, 10A
AP15H200 Heating Only Bath	15 liters	Ambient +10° to 200°C Ambient +20° to 392°F	120V, 60Hz, 10A	240V, 50Hz, 10A
AP20H200 Heating Only Bath	20 liters	Ambient +10° to 200°C Ambient +20° to 392°F	120V, 60Hz, 10A	240V, 50Hz, 10A
AP28H200 Heating Only Bath	28 liters	Ambient +10° to 200°C Ambient +20° to 392°F	120V, 60Hz, 10A	240V, 50Hz, 10A
AP06S150 Stainless Steel Open Tank	6 liter	Ambient +10° to 150°C Ambient +20° to 302°F	120V, 60Hz, 10A	240V, 50Hz, 10A
AP10S150 Stainless Steel Open Tank	10 liter	Ambient +10° to 150°C Ambient +20° to 302°F <sup>(2)</sup>	120V, 60Hz, 10A	240V, 50Hz, 10A
AP20S150 Stainless Steel Open Tank	20 liter	Ambient +10° to 150°C Ambient +20° to 302°F <sup>(2)</sup>	120V, 60Hz, 10A	240V, 50Hz, 10A
AP28S150 Stainless Steel Open Tank	28 liter	Ambient +10° to 150°C Ambient +20° to 302°F <sup>(2)</sup>	120V, 60Hz, 10A	240V, 50Hz, 10A
AP08P100 Polycarbonate Open Tank	8 liter	Ambient +10° to 85°C Ambient +20° to 185°F <sup>(3)</sup>	120V, 60Hz, 10A	240V, 50Hz, 10A
AP11P100 Polycarbonate Open Tank	11 liter	Ambient +10° to 85°C Ambient +20° to 185°F <sup>(3)</sup>	120V, 60Hz, 10A	240V, 50Hz, 10A
AP14P100 Polycarbonate Open Tank	14 liter	Ambient +10° to 85°C	120V, 60Hz,	240V, 50Hz,

		Ambient +20° to 185°F <sup>(3)</sup>	10A	10A
AP17P100 Polycarbonate Open Tank	17 liter	Ambient +10° to 85°C Ambient +20° to 185°F <sup>(3)</sup>	120V, 60Hz, 10A	240V, 50Hz, 10A
AP23P100 Polycarbonate Open Tank	23 liter	Ambient +10° to 85°C Ambient +20° to 185°F <sup>(3)</sup>	120V, 60Hz, 10A	240V, 50Hz, 10A
AP28P100 Polycarbonate Open Tank	28 liter	Ambient +10° to 85°C Ambient +20° to 185°F <sup>(3)</sup>	120V, 60Hz, 10A	240V, 50Hz, 10A
AP29VB5R Polycarbonate Viscosity	29 liter	Ambient +10° to 85°C Ambient +20° to 185°F <sup>(3)</sup>	120V, 60Hz, 10A	240V, 50Hz, 10A
AP29VB3S Polycarbonate Viscosity	29 liter	Ambient +10° to 85°C Ambient +20° to 185°F <sup>(3)</sup>	120V, 60Hz, 10A	240V, 50Hz, 10A
PP15RCAL Refrigerating Calibration Bath	15 liters	-30° to 200°C -22° to 392°F	120V, 60Hz, 13A	240V, 50Hz, 13A

1. Maximum operating temperature at which  $\pm 0.005^\circ\text{C}$  temperature stability can be maintained; Advanced Programmable Controller is capable of higher temperatures.
2. Maximum operating temperature for stainless steel tank; Advanced Programmable Controller is capable of higher temperatures.
3. Maximum operating temperature for polycarbonate tank; Advanced Programmable Controller is capable of higher temperatures.

Environmental Conditions Indoor use only

Maximum Altitude:	2000 meter
Operating Ambient:	5° to 35°C (41° to 95°F)
Relative Humidity:	80%, non-condensing
Installation Category:	II
Pollution Degree:	2
Ingress Protection:	IP 31
Climate Class:	SN
Software Class:	B
Output Waveform:	Sinusoidal

Specifications subject to change without notice.