

Operating Specifications

Top Plate Surface.....Solid Ceramic

Heating Specifications

Temperature range	
All 7" x 7" models and the 208 and 240 volt models of the 12" x 12" models.	40°C to 540°C
100 and 120 volt 12" x 12" models.	40°C to 370°C
Heat-up time to maximum temperature (unloaded top plate).	8 minutes
Temperature stability at the center of the top plate surface (@ 70°C).	± 2.0°C
Stability of the solution temperature (400 ml of water in a 1000 ml glass flask).	
Controlled by the top plate at 70°C setpoint (solution maintained at 30°C).	± 1.0°C
Controlled by the Barnstead Thermolyne recommended immersion probe at 70°C setpoint (solution maintained at 70°C).	± 1.0°C
Accuracy of the temperature display vs the actual temperature at the center of the top plate (setpoint 70°C). (Top plate temperature was verified with an infrared camera mounted approx. 26" above the center of the top plate surface; temperature accuracy at the edges of the top plate may vary from the stated accuracy.)	± 4.0°C
Accuracy of the temperature display vs the actual solution temperature as measured by the stainless steel or Teflon [®] immersion probe (setpoint 70°C).	± 2.0°C

Stirring Speed Specifications

Speed Range 60 to 1200 RPM (Maximum speed is dependent on the viscosity of the solution)	
Stability of the stirring speed setpoint (600 ml of water in a 1000 ml glass flask)	± 2.0 RPM
Accuracy of the speed display with the actual stirring speed	± 2.0 RPM

Top Plate Size	Max. Recommended Flask Size	Max. Weight on Top Plate
7" x 7"	4 liters	25 lbs
12" x 12"	6 liters	30 lbs

General Operating Specifications

Dimensions- 7" x 7" Models

Model Numbers	HP72620	SP72720	S72520
	HP72620-26	SP72720-26	S72520-26
	HP72624	SP72724	S72524
	HP72625	SP72725	S72525
Overall Width	8.250 (20.96)	8.250 (20.96)	8.250 (20.96)
Overall Height	5.750 (14.61)	5.750 (14.61)	5.50 (13.97)
Overall Depth	12.250 (31.12)	12.250 (31.12)	12.250 (31.12)
Top Plate Width	7.375 (18.73)	7.375 (18.73)	7.375 (18.73)
Top Plate Height	—	—	—
Top Plate Depth	7.375 (18.73)	7.375 (18.73)	7.375 (18.73)
Weight lbs. (kg)	8.44 (3.81)	10.33 (4.67)	9.25 (4.20)

Dimensions- 12" x 12" Models

Model Numbers	HP72930	SP73030	
	HP72930-26	SP73030-26	
	HP72934	SP73034	S72830
	HP72935	SP73035	S72830-26
	HP72935-60	SP73035-60	S72834
	HP72938	SP73038	S72835
Overall Width	13.500 (34.29)	13.500 (34.29)	13.500 (34.29)
Overall Height	6.750 (17.15)	6.750 (17.15)	6.438 (16.35)
Overall Depth	16.625 (42.23)	16.625 (42.23)	16.625 (42.23)
Top Plate Width	12.375 (31.43)	12.375 (31.43)	12.375 (31.43)
Top Plate Height	—	—	—
Top Plate Depth	12.375 (31.43)	12.375 (31.43)	12.375 (31.43)
Weight lbs. (kg)	18.10 (8.21)	21.28 (9.65)	17.68 (8.02)

Electrical Ratings- 7" x 7" Models

Model No.	Volts	Amps	Watts	Freq.	Phase
HP72620	240	4.6	1100	50/60	1
HP72620-26	230	4.6	1100	50/60	1
HP72624	100	11.0	1100	50/60	1
HP72625	120	9.2	1100	50/60	1
S72520	240	0.14	19.4	50/60	1
S72520-26	230	0.14	19.4	50/60	1
S72524	100	0.28	16.5	50/60	1
S72525	120	0.31	18.8	50/60	1
SP72720	240	4.7	1119	50/60	1
SP72720-26	230	4.7	1119	50/60	1
SP72724	100	11.3	1117	50/60	1
SP72725	120	9.5	1119	50/60	1

Electrical Ratings- 12" x 12" Models

Model No.	Volts	Amps	Watts	Freq.	Phase
HP72930	220-240	12	3100	50/60	1
HP72930-26	220-240	12	3100	50/60	1
HP72934	100	16.5	1650	50/60	1
HP72935	120	13.5	1620	50/60	1
HP72935-60	120	13.5	1620	50/60	1
HP72938	208	13.9	2900	50/60	1
S72830	220-240	0.22	30	50/60	1
S72830-26	220-240	0.22	30	50/60	1
S72834	100	0.32	21	50/60	1
S72835	120	0.33	22	50/60	1
SP73030	220-240	12	3130	50/60	1
SP73030-26	220-240	12	3130	50/60	1
SP73034	100	16.8	1671	50/60	1
SP73035	120	13.8	1642	50/60	1
SP73035-60	120	13.8	1642	50/60	1
SP73038	208	14.1	2926	50/60	1

Temperature Range for Hot Plates and Stirring Hot Plates

104°F - 1004°F (40°C - 540°C)

Exception: 100V & 120V 12"x 12" models — maximum temperature 698°F (370°C)

Stirring Speed Range for Stirrers and Stirring Hot Plates

60 - 1200 rpm

Environmental Parameters for all units

Ambient Temperature: 17°C - 27°C (63°F - 81°F) (Exception: stirrers. See Note.)

Relative Humidity: 20% - 80% (non-condensing)



NOTE

7" x 7" and 12" x 12" *stirrers* are suitable for use in a 37°C non-condensing incubator or in a cold room at -4°C