



Fisher Scientific Isotemp 水浴循环器

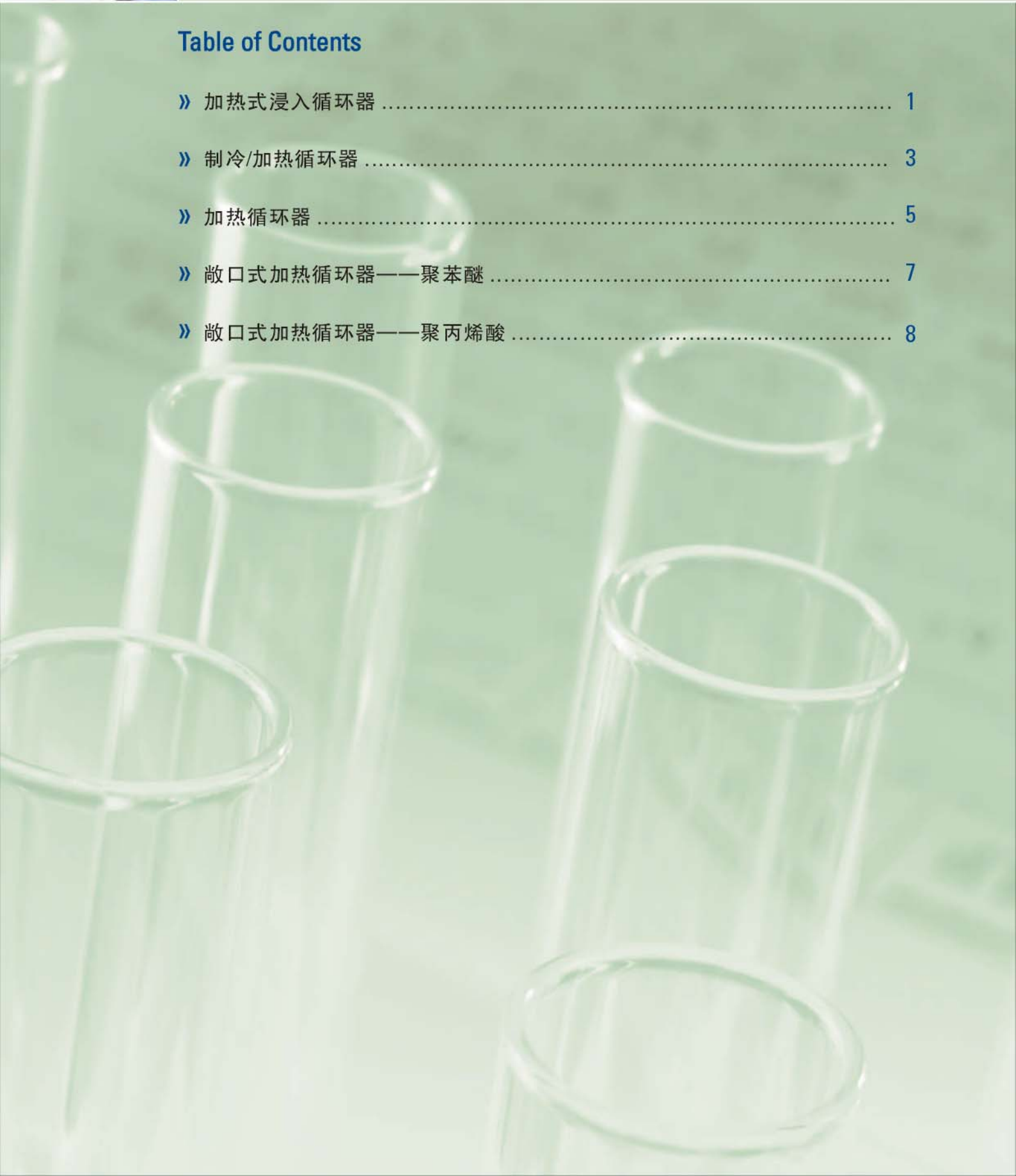
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Fisher Scientific Isotemp 加热式浸入循环器

温度范围：室温至 +200°C



每一台特点如下：

- » 两种泵速：50%和100%
- » 可调PID控温
- » 易于读数的五位LCD显示屏
- » 三种语言：英语、德语和法语
- » 过温/液面过低切断，并伴随声光报警
- » UL/CSA/CE 认证 RoHS/WEEE
- » 安全等级Class III, FL-DIN 12876
- » 2年质保
- » 含有外循环进/出水管，带8mm和12mm接头和夹具
- » 高质量的工业马达，使泵具有更优性能和更长寿命

Isotemp 浸入式循环器提供更方便、更简单的操作途径，将开放式水浴转换成工作稳定，温度恒定的浴槽，完美的契合使用者的需求。共有3种型号，分别具有不同的精度，功能和表现，可以满足不同实验者的实验需求。



4100 机头
常规温度控制

- 室温至+100°C
- 加热功率1kW
- 强力压力泵
- 五点程控：+20°C, +37°C, +50°C, +70°C 和 +100°C
- 温度可显示为°C, °F 或 °K, 分辨率为0.1或0.01
- 可靠夹具连接或搭桥
- 兼容流体：去离子水至3mOhm; 50/50 EG/水; 50/50 PG/水



5150 机头
更优的性能

- 室温至+150°C
- 加热功率1kW
- 强力压力泵
- 五点程控：+20°C, +37°C, +50°C, +70°C 和 +100°C
- 温度可显示为°C, °F 或 °K, 分辨率为0.1或0.01
- 可靠夹具连接或搭桥
- 兼容流体：去离子水至3mOhm; 50/50 EG/Water; 50/50 PG/Water; Sil 100; Sil 180; 和 Sil 300

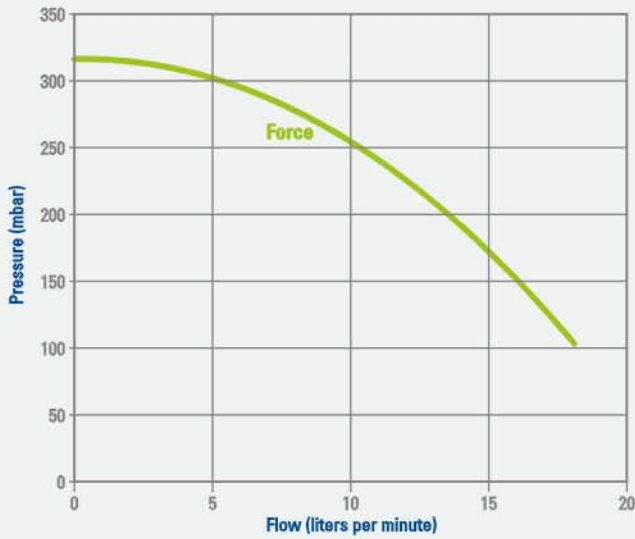


6200 机头
自动化和远程操作

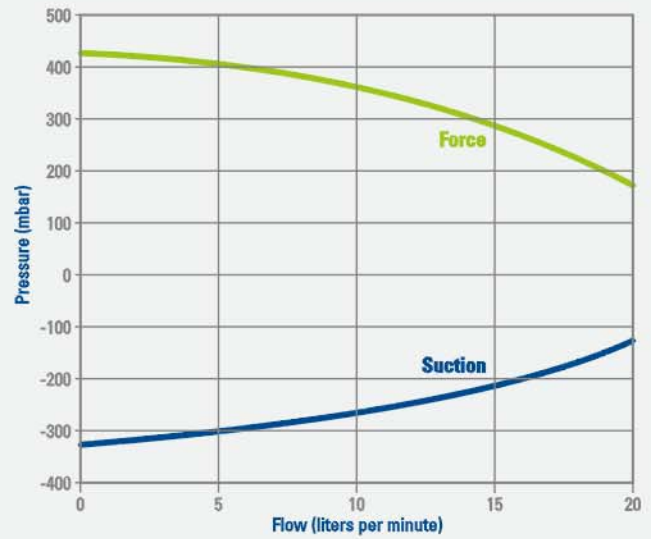
- 室温至+200°C
- 加热功率1.2kW
- 强力压力泵/抽吸泵
- 五点程控：+20°C, +37°C, +50°C, +70°C 和 +100°C
- 温度可显示为°C, °F 或 °K, 分辨率为0.1或0.01
- 靠搭桥连接
- RS-232/USB接口可选
- 外部系统远程温度控制（可选温度探头）
- 兼容流体：去离子水至3mOhm; 50/50 EG/PG; Sil 100; Sil 180; 和 Sil 300

性能曲线

Pumping Capacity for Isotemp 4100 & Isotemp 5150



Pumping Capacity for Isotemp 6200



Performance Curve Notes

Specifications obtained at sea level using water (above +5°C to -90°C) or a fluid with a specific heat of 0.6 J/kg-K (less than 5°C) as the recirculating fluid at a +20°C ambient condition, at nominal operating voltage. Other fluids, process temperatures, ambient temperatures, altitude or operating voltage will affect performance. Pump specifications are nominal values of ±10%. Specifications are for reference only and are subject to change.

Ordering Information

Part Number	Product Name*	Voltage	Temperature Range	Stability	Heater Capacity	Pump Type	Pump Capacity	Overall Dimensions Inches (HxWxD)	Unit Weight pounds
211180100	4100C	230 V/50 Hz	Ambient to +100°C	±0.1°C	1.2 kW	Force	17 lpm / 310 mbar	12.6 x 4.4 x 7.5	8.5
211190100	4100B	230 V/50 Hz	Ambient to +100°C	±0.1°C	1.2 kW	Force	17 lpm / 310 mbar	12.6 x 4.4 x 7.5	8.5
211280100	5150C	230 V/50 Hz	Ambient to +150°C	±0.1°C	1.2 kW	Force	17 lpm / 310 mbar	12.6 x 4.4 x 7.5	8.5
211290100	5150B	230 V/50 Hz	Ambient to +150°C	±0.1°C	1.2 kW	Force	17 lpm / 310 mbar	12.6 x 4.4 x 7.5	8.5
211390100	6200B	230 V/50 Hz	Ambient to +200°C	±0.05°C	2.0 kW	Force & Suction	21 lpm / 805 mbar	13.4 x 5.7 x 7.5	10.4

*C = clamp (5-mm to 25-mm wall thickness)

B = bridge

Fisher Scientific Isotemp 制冷/加热循环器


温度范围：-35°C到+200°C



Isotemp 制冷/加热循环器可以配合各种尺寸的浴槽，更好的满足实验者的需要。低型接浴槽可适应实验室台面高度受限的情况。无缝不锈钢槽保证耐用性和易于清洁。强力的制冷系统可保证样品和各种应用能够迅速冷却。精确调试的制冷确保各种情况下卓越的温度稳定性。

- » 冷却能力达到800 W
- » 含有外循环进/出水管，带8mm和12mm接头和夹具
- » 工作区域加盖是所有制冷型号的标配
- » 所有浴槽的排水口都位于前部，带集成的控制阀



 绿色贴士：对于要求不高的应用，可采用节能模式减低能耗

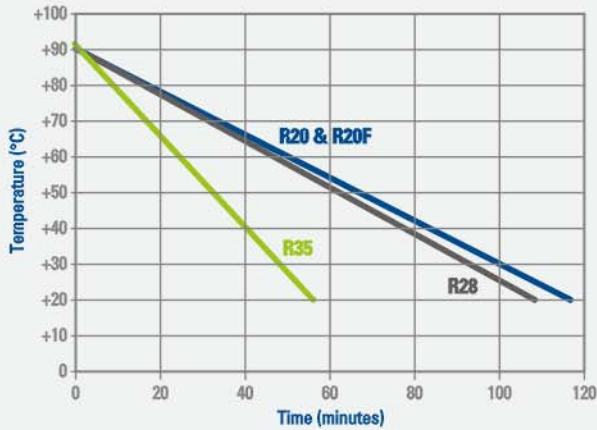
Ordering Information

Part Number	Product Name*	Voltage	Temperature Range	Stability	Heater Capacity	Pump Type	Cooling Capacity at +20°C	Pump Capacity	Reservoir Volume liters	Overall Dimensions inches (HxWxD)	Work Area Dimensions inches (HxWxD)	Unit Weight pounds
211131100	4100 R20	230 V/50 Hz	-20°C to +100°C	±0.1°C	1.2 kW	Force	250 W	17 lpm / 310 mbar	3 to 6	24.2 x 8.1 x 16.3	5.3 x 4.8 x 5.9	57.3
211331100	6200 R20	230 V/50 Hz	-20°C to +200°C	±0.05°C	2.0 kW	Force & Suction	250 W	21 lpm / 805 mbar	3 to 6	24.9 x 8.1 x 16.3	5.3 x 4.8 x 5.9	59.2
211132100	4100 R20F	230 V/50 Hz	-20°C to +100°C	±0.1°C	1.2 kW	Force	250 W	17 lpm / 310 mbar	3 to 6	16.8 x 18.4 x 16.4	5.3 x 4.8 x 5.9	63.5
211332100	6200 R20F	230 V/50 Hz	-20°C to +200°C	±0.05°C	2.0 kW	Force & Suction	250 W	21 lpm / 805 mbar	3 to 6	17.4 x 18.4 x 16.4	5.3 x 4.8 x 5.9	65.4
211133100	4100 R28	230 V/50 Hz	-28°C to +100°C	±0.1°C	1.2 kW	Force	500 W	17 lpm / 310 mbar	8 to 15	25.5 x 10.2 x 19	6.8 x 7.2 x 5.9	78.0
211233100	5150 R28	230 V/50 Hz	-28°C to +150°C	±0.1°C	1.2 kW	Force	500 W	17 lpm / 310 mbar	8 to 15	25.5 x 10.2 x 19	6.8 x 7.2 x 5.9	78.0
211333100	6200 R28	230 V/50 Hz	-28°C to +200°C	±0.05°C	2.0 kW	Force & Suction	500 W	21 lpm / 805 mbar	8 to 15	26.2 x 10.2 x 19	6.8 x 7.2 x 5.9	79.9
211134100	4100 R35	230 V/50 Hz	-35°C to +100°C	±0.1°C	1.2 kW	Force	800 W	17 lpm / 310 mbar	8 to 15	27 x 14.6 x 20.4	6.8 x 7.2 x 5.9	120.5
211234100	5150 R35	230 V/50 Hz	-35°C to +150°C	±0.1°C	1.2 kW	Force	800 W	17 lpm / 310 mbar	8 to 15	27 x 14.6 x 20.4	6.8 x 7.2 x 5.9	120.5
211334100	6200 R35	230 V/50 Hz	-35°C to +200°C	±0.05°C	2.0 kW	Force & Suction	800 W	21 lpm / 805 mbar	8 to 15	27.7 x 14.6 x 20.4	6.8 x 7.2 x 5.9	122.4

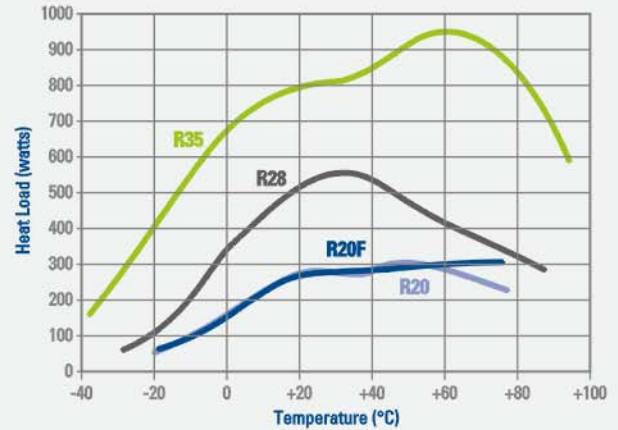
*Please refer to page 2 for additional information on controller features (4100, 5150, 6200)

性能曲线

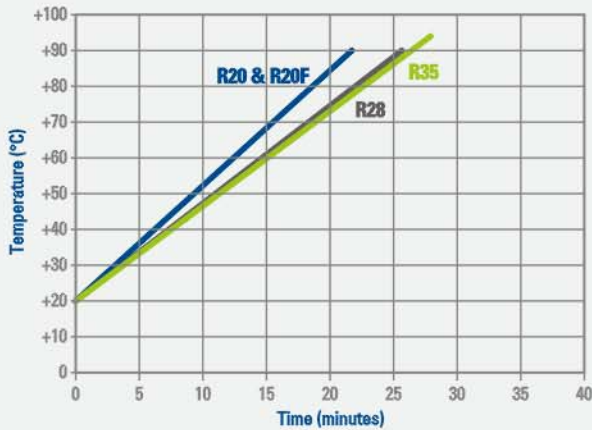
Cool-Down



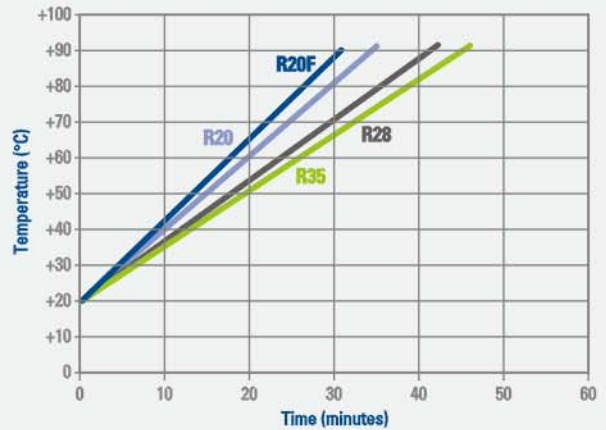
Cooling Capacity



Heat-Up 4100 & 5150 115V



Heat-Up 6200 115V



Performance Curve Notes

Specifications obtained at sea level using water (above +5°C to -90°C) or a fluid with a specific heat of 0.6 J/kg-K (less than 5°C) as the recirculating fluid at a +20°C ambient condition, at nominal operating voltage. Other fluids, process temperatures, ambient temperatures, altitude or operating voltage will affect performance. Pump specifications are nominal values of $\pm 10\%$. Specifications are for reference only and are subject to change.



Fisher Scientific Isotemp 加热循环器

温度范围：室温至+200°C



Isotemp加热循环器具有可靠，高瓦数加热功率，可以对应用溶液快速加热。用户可选择标准高温切断（HTC）电路，以确保使用温度不超过设定参数。

- » 加热能力可达+200°C
- » 含有外循环进/出水管，带8mm和12mm接头和夹具
- » 工作区域加盖是所有加热型号的标配
- » 高质量不锈钢浴槽
- » 所有浴槽的排水口都位于前部，带集成的控制阀
- » 选配的冷却盘管可实现快速降温或达到接近室温的温度，或帮助将控制机头发热传到浴槽中

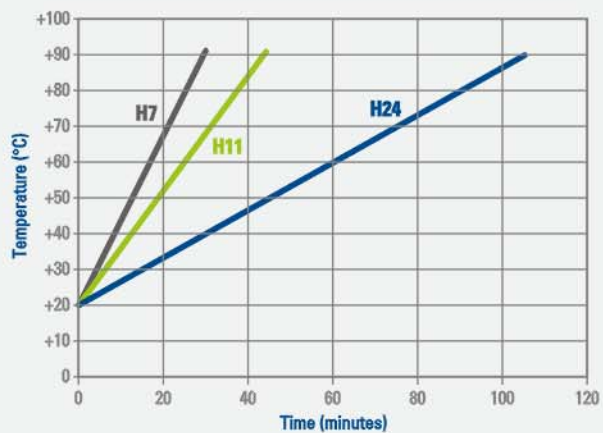


温度时间曲线

Heat Up 4100 & 5150 115 V



Heat Up 6200 115 V



Temperatures for both charts were obtained using a fluid with a specific heat of 0.6

Ordering Information

Part Number	Product Name**	Voltage	Ambient Temperature Range*	Stability	Heater Capacity	Pump Type	Reservoir Volume liters	Pump Capacity	Overall Dimensions inches (HxWxD)	Work Area Dimensions inches (HxWxD)	Unit Weight pounds
211111100	4100 H7	230 V/50 Hz	+10°C to +100°C	±0.1°C	1.2 kW	Force	4 to 7	17 lpm / 310 mbar	15.6 x 8.4 x 14.2	6.0 x 4.4 x 5.9	23.4
212111100	5150 H7	230 V/50 Hz	+10°C to +150°C	±0.1°C	1.2 kW	Force	4 to 7	17 lpm / 310 mbar	15.6 x 8.4 x 14.2	6.0 x 4.4 x 5.9	23.4
211311100	6200 H7	230 V/50 Hz	+10°C to +200°C	±0.05°C	2.0 kW	Force & Suction	4 to 7	21 lpm / 805 mbar	16.2 x 8.4 x 14.2	6.0 x 4.4 x 5.9	26.1
211112100	4100 H11	230 V/50 Hz	+10°C to +100°C	±0.1°C	1.2 kW	Force	7 to 11	17 lpm / 310 mbar	15.6 x 11.8 x 14.2	9.4 x 4.4 x 5.9	27
212121100	5150 H11	230 V/50 Hz	+10°C to +150°C	±0.1°C	1.2 kW	Force	7 to 11	17 lpm / 310 mbar	15.6 x 11.8 x 14.2	9.4 x 4.4 x 5.9	27
211312100	6200 H11	230 V/50 Hz	+10°C to +200°C	±0.05°C	2.0 kW	Force & Suction	7 to 11	21 lpm / 805 mbar	16.2 x 11.8 x 14.2	9.4 x 4.4 x 5.9	29.7
211113100	4100 H24	230 V/50 Hz	+10°C to +100°C	±0.1°C	1.2 kW	Force	14 to 24	17 lpm / 310 mbar	15.6 x 14.4 x 22.1	12.2 x 11.6 x 5.9	36.2
21213100	5150 H24	230 V/50 Hz	+10°C to +150°C	±0.1°C	1.2 kW	Force	14 to 24	17 lpm / 310 mbar	15.6 x 14.4 x 22.1	12.2 x 11.6 x 5.9	36.2
211313100	6200 H24	230 V/50 Hz	+10°C to +200°C	±0.05°C	2.0 kW	Force & Suction	14 to 24	21 lpm / 805 mbar	15.6 x 14.4 x 22.1	12.2 x 11.6 x 5.9	39

*Without work area cover installed

**Please refer to page 2 for additional information on controller features (4100, 5150, 6200)



Fisher Scientific Isotemp 敞口式加热循环器——聚苯醚

温度范围：室温至100°C



Isotemp PPO开放式加热水浴由非常坚固的聚苯醚（PPO）制成，可耐高温至+100° C，可以作为不锈钢的很好的替代物。

这些经济型的开放式循环器使用水作为传热浴液，带集成的夹具和支架，可将搭桥上的控制器机头方便的替换。

- » 加热功率可达1000瓦
- » 浴槽有5L，14L和21L可选
- » 加热浴槽最为经济的选择



Ordering Information

Part Number	Product Name*	Voltage	Ambient Temperature Range	Stability	Heater Capacity	Pump Type	Reservoir Volume liters	Pump Capacity	Overall Dimensions inches (HxWxD)	Work Area Dimensions inches (HxWxD)	Unit Weight pounds
211114100	4100 H5P	230 V/50 Hz	+10°C to +100°C	±0.1°C	1.2 kW	Force	3 to 5	17 lpm / 310 mbar	13.7 x 7.5 x 15.3	5.2 x 5.2 x 6.3	10.1
211115100	4100 H14P	230 V/50 Hz	+10°C to +100°C	±0.1°C	1.2 kW	Force	8 to 14	17 lpm / 310 mbar	13.7 x 14.1 x 17.8	11.8 x 6.4 x 6.3	13.8
211116100	4100 H21P	230 V/50 Hz	+10°C to +100°C	±0.1°C	1.2 kW	Force	13 to 21	17 lpm / 310 mbar	13.7 x 14.1 x 25.3	11.8 x 13.9 x 6.3	15.6

*Please refer to page 2 for additional information on the 4100 controller features





Fisher Scientific Isotemp 敞口式加热循环器——聚丙烯酸

温度范围：室温至+80°C



Isotemp 聚丙烯酸开放式水浴对于需要观察浴槽内的反应变化的应用非常有价值。聚丙烯酸浴槽可将搭桥上的控制器机头方便的替换。

- » 加热功率可达1000瓦
- » 浴槽有6L, 12L和19L可选
- » 操作中可观察样品变化

Ordering Information

Part Number	Product Name*	Voltage	Ambient Temperature Range	Stability	Heater Capacity	Pump Type	Reservoir Volume liters	Pump Capacity	Overall Dimensions inches (HxWxD)	Work Area Dimensions inches (HxWxD)	Unit Weight pounds
211117100	4100 H6A	230 V/50 Hz	+10°C to +80°C	±0.1°C	1.2 kW	Force	4 to 6	17 lpm / 310 mbar	13.3 x 7.4 x 16	8.7 x 5.4 x 5.9	11.4
211118100	4100 H12A	230 V/50 Hz	+10°C to +80°C	±0.1°C	1.2 kW	Force	8 to 12	17 lpm / 310 mbar	13.3 x 13.9 x 13.7	11.8 x 5.8 x 5.9	15.6
211119100	4100 H19A	230 V/50 Hz	+10°C to +80°C	±0.1°C	1.2 kW	Force	12 to 19	17 lpm / 310 mbar	13.3 x 13.9 x 20.7	11.8 x 12.8 x 5.9	18.1

*Please refer to page 2 for additional information on the 4100 controller features





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