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# Stirrers, Hotplates, and Stirring Hotplates



## Stirrers

Description	Surface Material	Surface Dimensions	Speed	Voltage (Plug Style)	Cat. No.
Fisherbrand™ RT Basic Magnetic Stirrer	Polypropylene	Dia: 4.7 in. (12 cm)	150 to 2,500 rpm	120 V (U.S.)	<b>11-676-263</b>
				120–240 V (Various)	<b>11-676-264</b>
		Dia: 6.7 in. (17 cm)		120 V (U.S.)	<b>11-676-265</b>
				120–240 V (Various)	<b>11-676-266</b>
		Dia: 8.7 in. (22 cm)		120 V (U.S.)	<b>11-676-267</b>
			120–240 V (Various)	<b>11-676-268</b>	
Fisherbrand™ Magnetic Stirrer	Porcelain	4 x 4 in. (10 x 10 cm)	250 to 2,500 rpm	120 V (U.S.)	<b>11-520-16S</b>
		7 x 7 in. (18 x 18 cm)			<b>11-520-49S</b>
Fisherbrand™ Isotemp™ Stirrer*	Ceramic	4.25 x 4.25 in. (10.8 x 10.8 cm)	50 to 1,500 rpm	120 V (U.S.)	<b>S88854200</b>
				230 V (EU)	<b>S88854205</b>
		7.25 x 7.25 in. (18.4 x 18.4 cm)		120 V (U.S.)	<b>S88857200</b>
				230 V (EU)	<b>S88857205</b>
		10.25 x 10.25 in. (26 x 26 cm)		120 V (U.S.)	<b>S88850200</b>
		230 V (EU)	<b>S88850205</b>		
Fisherbrand™ Isotemp™ Advanced Stirrer*	Ceramic	7.25 x 7.25 in. (18.4 x 18.4 cm)	50 to 1,500 rpm	120 V (U.S.)	<b>S88857290</b>
Fisherbrand™ Isotemp™ Stirrer*	Ceramic	4.25 x 4.25 in. (10.8 x 10.8 cm)	50 to 1,500 rpm	120 V (U.S.)	<b>S88854200</b>
Fisherbrand™ Ultra-Thin Magnetic Digital Stirrer	Polyester	Dia.: 3.7 in. (9.4 cm)	15 to 1,500 rpm	100–230 V (U.S.)	<b>14-955-149</b>
Fisherbrand™ Mini Stirrer, Bacteria Design	Nylon	Dia.: 3.3 in. (8.3 cm)	350 to 2,000 rpm	120 V (U.S.)	<b>11-510-50</b>
Fisherbrand™ Mini Stirrer, Caffeine Design					<b>11-510-51</b>
Fisherbrand™ Mini Stirrer, Alchemy Design					<b>11-510-52</b>
Fisherbrand™ Mini Stirrer, DNA Design					<b>11-510-53</b>
Fisherbrand™ Mini Stirrer, Periodic Table Design					<b>11-510-54</b>
Fisherbrand™ Mini Stirrer, Crystals Design					<b>11-510-55</b>
Fisherbrand™ Magnetic Stirrer with Water-/Air-Driven Turbines (Non-Electric)	Plastic	Dia.: 5 in. (12.7 cm)	800 rpm	N/A	<b>14-511-210</b>

\*Includes stir bar

## Hotplates

Description	Surface Material	Surface Dimensions	Temperature Range	Voltage (Plug Style)	Cat. No.
Fisherbrand™ Isotemp™ Hot Plate	Ceramic	4.25 x 4.25 in. (10.8 x 10.8 cm)	Ambient to 540°C	120 V (U.S.)	<b>HP88854200</b>
				230 V (EU)	<b>HP88854205</b>
Fisherbrand™ Isotemp™ Hot Plate	Ceramic	7.25 x 7.25 in. (18.4 x 18.4 cm)	Ambient to 540°C	120 V (U.S.)	<b>HP88857200</b>
Fisherbrand™ Isotemp™ Hot Plate, with PT100 SS Temperature Probe	Ceramic	7.25 x 7.25 in. (18.4 x 18.4 cm)	Ambient to 450°C	120 V (U.S.)	<b>HP88857290</b>
Fisherbrand™ Isotemp™ Hot Plate	Ceramic	10.25 x 10.25 in. (26 x 26 cm)	Ambient to 400°C	120 V (U.S.)	<b>HP88850200</b>
				230 V (EU)	<b>HP88850205</b>

## Stirring Hotplates

Description	Surface Material	Surface Dimensions	Speed	Temperature Range	Voltage (Plug Style)	Cat. No.
Fisherbrand™ Isotemp™ Hot Plate Stirrer*	Ceramic	4.25 x 4.25 in. (10.8 x 10.8 cm)	50 to 1,500 rpm	Ambient to 540°C	120 V (U.S.)	<b>SP88854200</b>
					230 V (EU)	<b>SP88854205</b>
Fisherbrand™ Isotemp™ Hot Plate Stirrer*	Ceramic	7.25 x 7.25 in. (18.4 x 18.4 cm)	50 to 1,500 rpm	Ambient to 540°C	120 V (U.S.)	<b>SP88857200</b>
					230 V (EU)	<b>SP88857205</b>
Fisherbrand™ Isotemp™ Hot Plate Stirrer*	Aluminum	7.25 x 7.25 in. (18.4 x 18.4 cm)	50 to 1,500 rpm	Ambient to 300°C	120 V (U.S.)	<b>SP88857204</b>
					230 V (EU)	<b>SP88857208</b>
Fisherbrand™ Isotemp™ Hot Plate Stirrer*	Ceramic	10.25 x 10.25 in. (26 x 26 cm)	50 to 1,500 rpm	Ambient to 400°C	120 V (U.S.)	<b>SP88850200</b>
					230 V (EU)	<b>SP88850205</b>
Fisherbrand™ Isotemp™ Advanced Hot Plate Stirrer**	Ceramic	7.25 x 7.25 in. (18.4 x 18.4 cm)	50 to 1,500 rpm	Ambient to 450°C	120 V (U.S.)	<b>SP88857290</b>
	Aluminum			Ambient to 300°C	120 V (U.S.)	<b>SP88857294</b>
	Ceramic			Ambient to 450°C	230 V (EU)	<b>SP88857295</b>

\*Includes stir bar

\*\*Includes stainless-steel PT100 temperature probe, stir bar, supporting rod, and clamp kit

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# Shakers, Mixers, and Rotators



## Vortex Mixers

Description	Speed	Orbit	Voltage (Plug Style)	Cat. No.
Fisherbrand™ Analog Vortex Mixer	300 to 3,200 rpm	4.9 mm	120 V (U.S.)	<b>02-215-414</b>
			230 V (International)	<b>02-215-415</b>
Fisherbrand™ Digital Vortex Mixer	500 to 3,000 rpm	4.9 mm	120 V (U.S.)	<b>02-215-418</b>
			230 V (International)	<b>02-215-419</b>
Fisherbrand™ Touch Mini Vortex Mixer	2,800 rpm	4.5 mm	120 V (U.S.)	<b>14-955-151</b>
			230 V (International)	<b>14-955-152</b>
Fisherbrand™ Analog Multi-Tube Vortex Mixer	1,200 to 2,400 rpm	3.6 mm	120 V (U.S.)	<b>02-215-450</b>
Fisherbrand™ Digital Multi-Tube Vortex Mixer	1,200 to 2,500 rpm	3.6 mm	120 V (U.S.)	<b>02-215-452</b>
Fisherbrand™ Variable Speed Mini Vortex Mixer	500 to 2,800 rpm	4.5 mm	115 V (?)	<b>14-955-163</b>
Fisherbrand™ Fixed Speed Vortex Mixer	3,200 rpm	4.9 mm	120 V (U.S.)	<b>02-215-410</b>
			230 V (International)	<b>02-215-411</b>
Fisherbrand™ Microplate Standard Vortex Mixer	300 to 2,500 rpm	3.5 mm	120 V (U.S.)	<b>02-216-100</b>
Fisherbrand™ Microplate Advanced Vortex Mixer	300 to 2,500 rpm	3.9 mm	120 V (U.S.)	<b>02-216-101</b>
Fisherbrand™ Heavy-Duty Standard Vortex Mixer	300 to 2,500 rpm	4.9 mm	120 V (U.S.)	<b>02-216-108</b>
Fisherbrand™ Heavy-Duty Digital Vortex Mixer			120 V (U.S.)	<b>02-216-109</b>
Fisherbrand™ Pulsing Vortex Mixer	500 to 3,000 rpm	2.5 mm	120 V (U.S.)	<b>02-215-422</b>
Fisherbrand™ Analog Vortex Mixer with Single Tube Holder	300 to 3,200 rpm	4.9 mm	120 V (U.S.)	<b>02-215-430</b>

## Rocking Benchtop Shakers

Description	Surface Dimensions	Speed	Voltage (Plug Style)	Cat. No.
Fisherbrand™ Multi-Platform Shaker, Orbit: 10 mm (0.4 in.)	31 x 28 cm (12 x 11 in.)	50 to 450 rpm	100–240 V (U.S.)	<b>88-861-021</b>
			100–240 V (International)	<b>88-861-022</b>
Fisherbrand™ Microplate Shaker with 4-Place Platform, Orbit: 2.5 mm (0.1 in)	32 x 26 cm (12.6 x 10.2 in.)	150 to 1,000 rpm	100–240 V (U.S.)	<b>88-861-023</b>
			100–240 V (International)	<b>88-861-024</b>
Fisherbrand™ Open-Air Rocking Shaker, Angle: 0 to 15°	25.4 x 32.4 cm (10 x 12.75 in.)	1 to 50 rpm	120 V (U.S.)	<b>02-217-765</b>
Fisherbrand™ Open Air Rocker, Angle: 1 to 15°	30.6 x 26.6 cm (12 x 10.5 in.)	1 to 50 rpm	100–240 V (U.S.)	<b>88-861-025</b>
			100–240 V (International)	<b>88-861-026</b>

Description	Surface Dimensions	Speed	Voltage (Plug Style)	Cat. No.
Fisherbrand™ Nutating Mixer, Variable Speed, Angle: 20°	27 x 30.5 cm (10.5 x 12 in.)	2 to 60 rpm	100–240V (U.S.)	<b>88-861-043</b>
			100–240V (International)	<b>88-861-044</b>
Fisherbrand™ Nutating Mixer, Fixed Speed, Angle: 20°	30.6 x 26.6 cm (12 x 10.5 in.)	20 rpm	110V (U.S.)	<b>88-861-041</b>
		18 rpm	220V (International)	<b>88-861-042</b>
Fisherbrand™ Wave Motion Shaker, Angle: 0 to 12°	31 x 27 cm (12 x 10.5 in.)	5 to 120 rpm	100–240V (U.S.)	<b>88-861-027</b>
			100–240V (International)	<b>88-861-028</b>

## Incubated Platform Shakers

Description	Surface Dimensions	Speed	Temperature Range	Voltage (Plug Style)	Cat. No.
Fisherbrand™ Incubating Rocker, Angle: 0 to 15°	10 x 7.5 in. (25.4 x 19 cm)	1 to 50 rpm	Ambient + 5° to 65°C	120 V (U.S.)	<b>02-217-761</b>
Fisherbrand™ Incubating Mini-Shaker, Triple-Eccentric Drive	11 x 7.75 in. (27.9 x 19.7 cm)	100 to 1,200 rpm	Ambient + 5° to 65°C	120 V (U.S.)	<b>02-217-753</b>
Fisherbrand™ Incubating Microplate Shaker, Triple-Eccentric Drive, Orbit: 0.12 in. (3 mm), Clear Lid	6.7 x 10 in. (17 x 25.5 cm)	100 to 1,200 rpm	Ambient +5° to 65°C	120 V (U.S.)	<b>02-217-757</b>
				230V (International)	<b>02-217-758</b>
Fisherbrand™ Incubating Microplate Shaker, Triple-Eccentric Drive, Orbit: 0.12 in. (3 mm), Opaque Lid	6.7 x 10 in. (17 x 25.5 cm)	100 to 1,200 rpm	Ambient +5° to 65°C	120 V (U.S.)	<b>02-217-759</b>
				230V (International)	<b>02-217-760</b>

## Cooling and Heating Shakers

Description	NIST Traceable	Speed	Temperature Range	Voltage (Plug Style)	Cat. No.
Fisherbrand™ Isotemp™ Cooling Shake Touch Shaker	No	300 to 3,000 rpm	Ambient – 17°C to 100°C	120 V (U.S.)	<b>02-217-737</b>
	Yes				<b>02-217-739</b>
Fisherbrand™ Isotemp™ Shake Touch Shaker	No		Ambient + 4°C to 100°C	120 V (U.S.)	<b>02-217-741</b>
	Yes				<b>02-217-743</b>

## Rotators

Description	Angle	Capacity	Speed	Voltage (Plug Style)	Cat. No.
Fisherbrand™ Mini Tube Rotator	0° to 90°	Variable	10 to 40 rpm	100–240 V (U.S.)	<b>88-861-051</b>
				100–240 V (International)	<b>88-861-052</b>
Fisherbrand™ Multi-Purpose Tube Rotator	95° to 180°	15 x 50 mL	5 to 80 rpm	100–240 V (U.S.)	<b>88-861-049</b>
				100–240 V (International)	<b>88-861-050</b>
Fisherbrand™ Multi-Function 3D Rotator, Rotates and Vibrates	Reciprocal: 0° to 360°	Variable	5 to 100 rpm	100–240 V (U.S.)	<b>88-861-047</b>
Fisherbrand™ Tissue Culture Rotator, Drum (Required) Sold Separately (Cat. No. 14-251-251)	5° Above Horizontal to 90°	142 x 17 mm tubes	5 to 70 rpm	120 V (U.S.)	<b>14-251-250*</b>

\*Carousel required and sold separately

## Rotating Benchtop Shakers

Description	Capacity	Speed	Voltage (Plug Style)	Cat. No.
Fisherbrand™ 3D Platform Rotator	Variable	2 to 80 rpm	120 V (U.S.)	<b>88-861-045</b>
			120–240 V (International)	<b>88-861-046</b>
Fisherbrand™ Digital Bottle Rollers	Variable	1 to 80 rpm	100–240 V (U.S.)	<b>11-676-250</b>

## Wrist Action Shakers

Description	Angle	Capacity	Speed	Cat. No.
Fisherbrand™ Flask Shaker	0° to 15°	8 x 250 mL	Variable: 0 to 450 OSC/min.	<b>14-400-602</b>
			Fixed: 385 OSC/min.	<b>14-400-600</b>

## Overhead Stirrers (Single Shaft)

Description	Viscosity Rating	Capacity	Speed	Torque	Voltage (Plug Style)	Cat. No.
Fisherbrand™ CompactDigital™ Overhead Stirrer	15,000	Up to 25 L (6.6 gal.)	40 to 2,002 rpm	6 in.-lb.	120 V (U.S.)	<b>14-500-211</b>
Fisherbrand™ RealTorqueDigital™ Overhead Stirrer	50,000	Up to 60 L (16 gal.)	20 to 3000 rpm	30 in.-lb.	120 V (U.S.)	<b>14-500-210</b>
Fisherbrand™ Compact Digital Overhead Stirrer	15,000	25 L (6.5 gal.)	0 to 2,002 rpm	6.2 in.-lb.	220 V (International)	<b>14-501-084</b>
Fisherbrand™ RealTorqueDigital™ Overhead Stirrer, 220 V	50,000	Up to 60 L (16 gal.)	20 to 3000 rpm	30 in.-lb.	220 V (International)	<b>14-501-085</b>
Fisherbrand™ Electric Analog Laboratory Overhead Stirrers, Model A15	7,500	15 L	6,000 rpm	190 in.-lb.	120 V (U.S.)	<b>14-500-215</b>
Fisherbrand™ Electric Analog Laboratory Overhead Stirrer, Model A20	10,000	20 L	2,000 rpm	27 in.-lb.	120 V (U.S.)	<b>14-500-214</b>
Fisherbrand™ Electric Analog Laboratory Overhead Stirrer, Model A30	15,000	30 L	1,200 rpm	74 in.-lb.	120 V (U.S.)	<b>14-500-213</b>
Fisherbrand™ Electric Analog Laboratory Overhead Stirrer, Model A40	20,000	40 L	350 rpm	193 in.-lb.	120 V (U.S.)	<b>14-500-212</b>
Fisherbrand™ Air-Powered Analog Overhead Stirrer, Model AP10	5,000	10 L	10,000 rpm	45 in.-lb.	N/A (Air Powered)	<b>14-500-219</b>

## Every Good Piece of Equipment Needs a Consumable

Like a centrifuge and its tubes, or a pipette and its tips, or a microscope and its slides, no piece of equipment can live up to its full potential without reliable consumables.

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# Homogenizers



## Bead Mill Homogenizers

Description	Capacity	Voltage (Plug Style)	Cat. No.
Fisherbrand™ Bead Mill 4 Homogenizer	4 x 0.5 mL, 4 x 1.5 mL, 4 x 2 mL, or 1 x 7 mL Samples	120 V (U.S.)	<b>15-340-164</b>
Fisherbrand™ Bead Mill 24 Homogenizer	24 x 0.5/2 mL Tubes	120 V (U.S.)	<b>15-340-163</b>

## Mechanical Homogenizers

Description	Sample Size	Speed	Max. Power	Dimensions (H x Dia.)	Voltage (Plug Style)	Cat. No.
Fisherbrand™ 150 Handheld Homogenizer	200 µL to 100 mL	5,000 to 35,000 rpm	150 W	22.8 x 6.35 cm (9 x 2.5 in.)	115 V (U.S.)	<b>15-340-167</b>
Fisherbrand™ 150 Homogenizer Package, Includes Motor, Stand Assembly, and 3 Stainless Steel Generator Probes (5 x 75, 7 x 115, and 10 x 115 mm)						<b>15-340-168</b>
Fisherbrand™ 850 Handheld Homogenizer	0.2 mL to 5 L	5,000 to 25,000 rpm	850 W	21.5 x 6.9 cm (8.5 x 2.75 in.)	115 V (U.S.)	<b>15-340-169</b>
Fisherbrand™ 850 Homogenizer Package, Includes Motor, Stand Assembly, and 3 Stainless Steel Generator Probes (10 x 115, 20 x 195, and 30 x 195 mm)						<b>15-340-170</b>

## Ultrasonic Homogenizers

Description	Sample Size	Power	Voltage (Plug Style)	Cat. No.
Fisherbrand™ Sonic Dismembrator, Model FB50, Includes 1/8 in. Probe	0.2 to 50 mL	50 W	110 V (U.S.)	<b>FB-501-10</b>
			220 V (International)	<b>FB-502-20</b>
Fisherbrand™ Sonic Dismembrator, Model FB50	0.2 to 50 mL	50 W	110 V (U.S.)	<b>FB-50A-110</b>
Fisherbrand™ Sonic Dismembrator, Model FB120, Includes 1/8 in. Probe	0.2 to 50 mL	120 W	110 V (U.S.)	<b>FB-120-110</b>
			220 V (International)	<b>FB-120-220</b>
Fisherbrand™ Sonic Dismembrator, Model FB120	0.2 to 50 mL	120 W	110 V (U.S.)	<b>FB-120-A110</b>
			220 V (International)	<b>FB-120-A220</b>
Fisherbrand™ Sonic Dismembrator, Model FB505, Includes 0.5 in. Probe	0.5 to 500 mL	500 W	110 V (U.S.)	<b>FB-505-110</b>
			220 V (International)	<b>FB-505-220</b>
Fisherbrand™ Sonic Dismembrator, Model FB505	0.5 to 500 mL	500 W	110 V (U.S.)	<b>FB-505-A110</b>
Fisherbrand™ Sonic Dismembrator, Model FB705, Includes 0.5 in. Probe	0.2 to 1,000 mL	700 W	110 V (U.S.)	<b>FB-705-110</b>
			220 V (International)	<b>FB-705-220</b>
Fisherbrand™ Sonic Dismembrator, Model FB705	0.2 to 1,000 mL	700 W	110 V (U.S.)	<b>FB-705-A110</b>



# Water Baths and Incubators



## Water Baths

Description	Temperature Range	Capacity	Voltage	Cat. No.
Fisherbrand™ Isotemp™ General Purpose Deluxe Water Bath	Ambient to 100°C	2 L (0.5 gal.), Shallow	120–230 V	<b>FSGPD2S</b>
		2 L (0.5 gal.)		<b>FSGPD02</b>
		5 L (1.3 gal.)		<b>FSGPD05</b>
		10 L (2.6 gal.)		<b>FSGPD10</b>
		5 / 10 L (1.3/2.6 gal.)		<b>FSGPD15D</b>
		20 L (5.3 gal.)		<b>FSGPD20</b>
		28 L (7.4 gal.)		<b>FSGPD28</b>
Fisherbrand™ Isotemp™ Shaking Water Baths	Ambient + 5° to 100°C	15 L (7 gal.)	120–230 V	<b>FSSWB15</b>
		27 L (7 gal.)		<b>FSSWB27</b>

## Refrigerated Incubators

Description	Temperature Range	Capacity	Voltage (Plug Style)	Cat. No.
Fisherbrand™ Mini Refrigerated Incubator	17° to 50°C	18 L	120–240 V (U.S.)	<b>15-015-2632</b>

## Dry Bath Incubators

Description	Temperature Range	Capacity	Voltage (Plug Style)	Cat. No.
Fisherbrand™ Isotemp™ Digital Dry Bath/ Block Heater, 120 V	Ambient + 5° to 130°C	1 Block	120 V (U.S.)	<b>88-860-021</b>
		2 Blocks	120 V (U.S.)	<b>88-860-022</b>
		4 Blocks	120 V (U.S.)	<b>88-860-023</b>
Fisherbrand™ Isotemp™ Digital Dry Bath/ Block Heater, 220 V	Ambient + 5° to 130°C	1 Block	220 V (International)	<b>88-860-024</b>
		2 Blocks	220 V (International)	<b>88-860-025</b>
		4 Blocks	220 V (International)	<b>88-860-026</b>
Fisherbrand™ Heating Mini Dry Bath, 120 V	Ambient + 5° to 100°C	15 x 1.5 mL Tubes	115 V (U.S.)	<b>14-955-218</b>
	Ambient + 5° to 100°C	15 x 1.5 mL Tubes	115 V (U.S.)	<b>14-955-219</b>
Fisherbrand™ Mini Dry Bath	0°C to 100°C	15 x 1.5 mL Tubes	115 V (U.S.)	<b>14-955-220</b>
Fisherbrand™ Heating/Cooling Mini Dry Bath, 120 V	0° to 100°C	15 x 1.5 mL Tubes	115 V (U.S.)	<b>14-955-221</b>

# Chillers and Circulators



## Fisherbrand™ Isotemp™ Cooling/Heating Recirculating Chillers

Description	Pump Type	Temperature Range	Capacity	Voltage	Cat. No.
Fisherbrand™ Isotemp™ Model 250LCU	Force	-10° to 80°C	2.8 L (0.7 gal.)	115 V	<b>13-874-643</b>
Fisherbrand™ Isotemp™ Model 250LCSU	Force and Suction	-10° to 80°C	2.8 L (0.7 gal.)	115 V	<b>13-874-644</b>
Fisherbrand™ Isotemp™ Model 500LCU	Force	-10° to 80°C	2.8 L (0.7 gal.)	115 V	<b>13-874-647</b>
Fisherbrand™ Isotemp™ Model 500LCSU	Force and Suction	-10° to 80°C	2.8 L (0.7 gal.)	115 V	<b>13-874-648</b>
Fisherbrand™ Isotemp™ I Recirculating Chillers	PD1*	-10° to +30°C	9.5 L (2.5 gal.)	115 V	<b>13-874-240</b>
Fisherbrand™ Isotemp™ II Recirculating Chiller	PD1*	-10° to +30°C	9.5 L (2.5 gal.)	115 V	<b>13-874-241</b>
	PD2*	-10° to +30°C	9.5 L (2.5 gal.)	115 V	<b>13-874-242</b>
	MD30 Mag Drive Centrifugal Pump	-10° to +30°C	9.5 L (2.5 gal.)	115 V	<b>13-874-243</b>
Fisherbrand™ Isotemp™ III Recirculating Chiller, 220 V, 60 Hz	PD2*	-10° to +30°C	19 L (5 gal.)	230 V	<b>13-874-245</b>

\*Positive Displacement Pump

## Fisherbrand™ Isotemp™ Hydrocarbon Refrigerated/Heated Bath Circulators

Description	Pump Type	Pump Capacity	Temperature Range	Capacity	Voltage	Cat. No.
Fisherbrand™ Isotemp™ Model 4100 R35	Force	17 L/min. (310 mbar)	-45° to +200°C	6.8 to 8.6 L (1.8 to 2.3 gal.)	115 V	<b>13-874-002</b>
Fisherbrand™ Isotemp™ Model 5150 R35	Force	21 L/min. (750 mbar)	-45° to +200°C	6.8 to 8.6 L (1.8 to 2.3 gal.)	115 V	<b>13-874-001</b>
Fisherbrand™ Isotemp™ Model 6200 R35	Force and Suction	21 L/min. (750 mbar)	-45° to +200°C	6.8 to 8.6 L (1.8 to 2.3 gal.)	115 V	<b>13-874-000</b>

## Fisherbrand™ Isotemp™ Refrigerated/Heated Bath Circulators

Description	Pump Type	Pump Capacity	Temperature Range	Capacity	Voltage	Cat. No.
Fisherbrand™ Isotemp™ Model 4100 R20	Force	17 L/min. (310 mbar)	-20° to +100°C	3 to 6 L (0.8 to 1.6 gal.)	115 V	<b>13-874-180</b>
Fisherbrand™ Isotemp™ Model 4100 R20, 230 V	Force	17 L/min. (310 mbar)	-20° to +100°C	3 to 6 L (0.8 to 1.6 gal.)	230 V	<b>13-874-050</b>
Fisherbrand™ Isotemp™ 4100 R20F	Force	17 L/min. (310 mbar)	-20°C to +100°C	5.4 to 6.5 L (1.4 to 1.7 gal.)	230 V	<b>13-874-051</b>
Fisherbrand™ Isotemp™ Model 4100 R20F	Force	17 L/min. (310 mbar)	-20° to +100°C	3 to 6 L (0.8 to 1.6 gal.)	115 V	<b>13-874-181</b>
Fisherbrand™ Isotemp™ Model 4100 R28	Force	17 L/min. (310 mbar)	-28° to +100°C	6.8 to 8.6 L (1.9 to 2.3 gal.)	115 V	<b>13-874-182</b>
Fisherbrand™ Isotemp™ Model 5150 R28	Force	17 L/min. (310 mbar)	-28° to +150°C	6.8 to 8.6 L (1.9 to 2.3 gal.)	115 V	<b>13-874-126</b>
Fisherbrand™ Isotemp™ Model 5150 R28, 230 V	Force	17 L/min. (310 mbar)	-28° to +100°C	6.8 to 8.6 L (1.9 to 2.3 gal.)	230 V	<b>13-874-052</b>
Fisherbrand™ Isotemp™ Model 6200 R20	Force	21 L/min. (805 mbar)	-20° to +100°C	3 to 6 L (0.8 to 1.6 gal.)	115 V	<b>13-874-674</b>
Fisherbrand™ Isotemp™ Model 6200 R20F	Force	21 L/min. (805 mbar)	-20° to +100°C	3 to 6 L (0.8 to 1.6 gal.)	115 V	<b>13-874-675</b>
Fisherbrand™ Isotemp™ Model 6200 R28	Force and Suction	21 L/min. (805 mbar)	-28° to +200°C	6.8 to 8.6 L (1.9 to 2.3 gal.)	115 V	<b>13-874-676</b>

## Fisherbrand™ Isotemp™ Heated Bath Circulators

Description	Pump Type	Pump Capacity	Temperature Range	Capacity	Voltage	Cat. No.
Fisherbrand™ Isotemp™ Model 4100 H7	Force	17 L/min. (310 mbar)	10° to 100°C	4 to 7 L (1 to 1.8 gal.)	115 V	<b>13-874-171</b>
Fisherbrand™ Isotemp™ Model 4100 H11	Force	17 L/min. (310 mbar)	Ambient + 10° to 100°C	7 to 11 L (1.8 to 2.9 gal.)	115 V	<b>13-874-172</b>
Fisherbrand™ Isotemp™ Model 5150 H7	Force	17 L/min. (310 mbar)	10° to 150°C	4 to 7 L (1 to 1.8 gal.)	115 V	<b>13-874-121</b>
Fisherbrand™ Isotemp™ Model 6200 H7	Force and Suction	21 L/min. (750 mbar)	10° to 200°C	4 to 7 L (1 to 1.8 gal.)	115 V	<b>13-874-671</b>

## Fisherbrand™ Isotemp™ Open Heated PPO Bath Circulators

Description	Pump Type	Pump Capacity	Temperature Range	Capacity	Voltage	Cat. No.
Fisherbrand™ Isotemp™ Model 4100 H19A	Force	17 L/min. (310 mbar)	Ambient + 10° to 100°C	3 to 5 L (0.7 to 1.3 gal.)	115 V	<b>13-874-174</b>
Fisherbrand™ Isotemp™ Model 4100 HSP, 230 V	Force	17 L/min. (310 mbar)	Ambient + 10° to 100°C	4.5 to 5.3 L (1.2 to 1.4 gal.)	230 V	<b>13-874-044</b>
Fisherbrand™ Isotemp™ Model 4100 H14P	Force	17 L/min. (310 mbar)	Ambient + 10° to 100°C	8 to 14 L (2.1 to 3.7 gal.)	115 V	<b>13-874-175</b>
Fisherbrand™ Isotemp™ Model 4100 H14P, 230 V	Force	17 L/min. (310 mbar)	Ambient + 10° to 100°C	11.3 to 14.1 L (3 to 3.7 gal.)	230 V	<b>13-874-045</b>
Fisherbrand™ Isotemp™ Model 4100 H21P	Force	17 L/min. (310 mbar)	Ambient + 10° to 100°C	13 to 21 L (3.4 to 5.5 gal.)	115 V	<b>13-874-176</b>
Fisherbrand™ Isotemp™ 4100 H21P	Force	17 L/min. (310 mbar)	Ambient +10° to 100°C	18 to 22.5 L (4.7 to 5.9 gal.)	230 V	<b>13-874-046</b>
Fisherbrand™ Isotemp™ Model 4100 H24	Force	17 L/min. (310 mbar)	Ambient + 10° to 100°C	14 to 24 L (3.7 to 6.3 gal.)	115 V	<b>13-874-173</b>
Fisherbrand™ Isotemp™ Model 5150 H11	Force	17 L/min. (310 mbar)	Ambient + 10° to 150°C	7 to 11 L (1.8 to 2.9 gal.)	115 V	<b>13-874-124</b>

Description	Pump Type	Pump Capacity	Temperature Range	Capacity	Voltage	Cat. No.
Fisherbrand™ Isotemp™ Model 6200 H11	Force and Suction	21 L/min. (805 mbar)	Ambient + 10° to 200°C	7 to 11 L (1.8 to 2.9 gal.)	115 V	<b>13-874-672</b>
Fisherbrand™ Isotemp™ Model 6200 H24	Force and Suction	21 L/min. (805 mbar)	Ambient + 10° to 200°C	14 to 24 L (3.7 to 6.3 gal.)	115 V	<b>13-874-673</b>

## Fisherbrand™ Isotemp™ Immersion Circulators

Description	Pump Type	Pump Capacity	Temperature Range	Voltage	Cat. No.
Fisherbrand™ Isotemp™ Model 4100B, with Bridge	Force	17 L/min. (310 mbar)	Ambient + 10° to 100°C	115 V	<b>13-874-438</b>
Fisherbrand™ Isotemp™ Model 4100C, with Clamp	Force	17 L/min. (310 mbar)	Ambient + 10° to 100°C	230 V	<b>13-874-431</b>
Fisherbrand™ Isotemp™ Model 4100C, with Clamp	Force	17 L/min. (310 mbar)	Ambient + 10° to 100°C	115 V	<b>13-874-432</b>
Fisherbrand™ Isotemp™ Model 5150B, with Bridge	Force	17 L/min. (310 mbar)	Ambient + 10° to 150°C	115 V	<b>13-874-440</b>
Fisherbrand™ Isotemp™ Model 5150C, with Clamp	Force	17 L/min. (310 mbar)	Ambient + 10° to 150°C	115 V	<b>13-874-434</b>
Fisherbrand™ Isotemp™ Model 6200B, with Clamp	Force and Suction	21 L/min. (805 mbar)	Ambient + 10° to 200°C	230 V	<b>13-874-441</b>
Fisherbrand™ Isotemp™ Model 6200B, with Bridge	Force and Suction	21 L/min. (805 mbar)	Ambient + 10° to 200°C	115 V	<b>13-874-442</b>

# Bring Your Lab to Life

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# Ovens, Sterilizers, and Pumps



## Laboratory Ovens

Description	Heating Method	Temperature Range	Capacity	Voltage (Plug Style)	Cat. No.
Fisherbrand™ Isotemp™ 500 Series Economy Lab Oven	Convection	5° to 210°C	1.7 cu. ft.	120 V (U.S.)	<b>13-246-516GAQ</b>
Fisherbrand™ Isotemp™ General Purpose Heating and Drying Oven	Gravity Convection	50° to 250°C	60 L	120 V (U.S.)	<b>15-103-0503</b>
	Forced Air Convection		66 L		<b>15-103-0510</b>
Fisherbrand™ Gravity Oven	Gravity	50° to 250°C	65 L	120 V (U.S.)	<b>15-103-0519</b>

## Vacuum Ovens

Description	Vacuum Range	Temperature Range	Capacity	Electrical Requirements (Output)	Voltage (Plug Style)	Cat. No.
Fisherbrand™ Isotemp™ Vacuum Oven, Model 282A	0 to 30 in. Hg	Ambient to 280°C (536°F)	1.6 cu. ft.	120 V (1,800 W)	120 V (U.S.)	<b>13-262-52</b>
Fisherbrand™ Isotemp™ High-Temperature Vacuum Oven, Model 281A	0 to 30 in. Hg	Ambient to 280°C (536°F)	0.65 cu. ft. (18.4 L)	120 V (3,500 W)	120 V (U.S.)	<b>13-262-50</b>
				230 V (1,700 W)	240 V (International)	<b>13-262-51</b>

## Vacuum Pumps

Description	Flow Rate	Maximum Vacuum	Electrical Requirements	Voltage (Plug Style)	Cat. No.
Fisherbrand™ Maxima™ Rotary Vane Vacuum Pump, Model M2C	51 L/min. (1.8 cfm)	2 x 10 <sup>-3</sup> torr	115 V, 60 Hz	115 V (U.S.)	<b>01-184-215</b>
			230 V, 50 Hz	230 V (EU)	<b>01-184-216</b>
Fisherbrand™ Rotary Vane Vacuum Pump, Model M4C	79 L/min. (2.8 cfm)	1.5 x 10 <sup>-3</sup> torr	115 V, 60 Hz	115 V (U.S.)	<b>01-184-202</b>
Fisherbrand™ Maxima™ Rotary Vane Vacuum Pump, Model M6C	119 L/min. (4.2 cfm)	1.5 x 10 <sup>-3</sup> torr	115 V, 60 Hz	115 V (U.S.)	<b>01-184-203</b>
Fisherbrand™ Maxima™ Rotary Vane Vacuum Pump, Model M8C	158.5 L/min. (5.6 cfm)	1.5 x 10 <sup>-3</sup> torr	115 V, 60 Hz	115 V (U.S.)	<b>01-184-204</b>
			230 V, 50 Hz	230 V (EU)	<b>01-184-209</b>
Fisherbrand™ Maxima™ Rotary Vane Vacuum Pump, Model M16C	362.5 L/min. (12.8 cfm)	2 x 10 <sup>-3</sup> torr	115 V, 60 Hz	115 V (U.S.)	<b>01-184-205</b>
			230 V, 50 Hz	230 V (EU)	<b>01-184-210</b>

Description	Flow Rate	Maximum Vacuum	Electrical Requirements	Voltage (Plug Style)	Cat. No.
Fisherbrand™ Maxima™ Rotary Vane Vacuum Pump, Model M24C	518 L/min. (18.3 cfm)	2 x 10 <sup>-3</sup> torr	115 V, 60 Hz	115 V (U.S.)	<b>01-184-206</b>
Fisherbrand™ Maxima™ Rotary Vane Vacuum Pump, Model M30C	626 L/min. (22.1 cfm)	2 x 10 <sup>-3</sup> torr	115 V, 60 Hz	115 V (U.S.)	<b>01-184-207</b>
			230 V, 50 Hz	230 V (International)	<b>01-184-212</b>
Fisherbrand™ Explosion-Proof Maxima™ Rotary Vane Vacuum Pump, Model M4C	79 L/min. (2.8 cfm)	1.5 x 10 <sup>-3</sup> torr	115 V, 60 Hz	115 V (U.S.)	<b>01-184-208</b>
Fisherbrand™ Explosion-Proof Maxima™ Rotary Vane Vacuum Pump, Model M8C	158.5 L/min. (5.6 cfm)	1.5 x 10 <sup>-3</sup> torr	115 V, 60 Hz	115 V (U.S.)	<b>01-184-213</b>
Fisherbrand™ Explosion-Proof Maxima™ Rotary Vane Vacuum Pump, Model M16C	362.5 L/min. (12.8 cfm)	2 x 10 <sup>-3</sup> torr	115 V, 60 Hz	115 V (U.S.)	<b>01-184-214</b>
Fisherbrand™ MaximaDry™ Oil-Free Vacuum Pump, One Stage	20 L/min. (0.7 cfm)	75 torr	115 V, 60 Hz	115 V (U.S.)	<b>13-880-14</b>
Fisherbrand™ MaximaDry™ Oil-Free Vacuum Pump, Two Stage	20 L/min. (0.7 cfm)	6 torr	115 V, 60 Hz	115 V (U.S.)	<b>13-880-18</b>
	35 L/min. (1.2 cfm)	6 torr			<b>13-880-20</b>
		1.5 torr			<b>13-880-22</b>
Fisherbrand™ MaximaDry™ Oil-Free Vacuum Pump, Parallel Stage	40 L/min. (1.4 cfm)	65 torr	115 V, 60 Hz	115 V (U.S.)	<b>13-880-16</b>

## Syringe Pumps

Description	Capacity	Flow Rate	Linear Force	Voltage (Plug Style)	Cat. No.
Fisherbrand™ Single Syringe Pump	10 µL to 60 mL	519 mL/hr.	9 kg (20 lb.)	110 V (U.S.)	<b>14-831-200</b>

## Sterilizers and Autoclaves

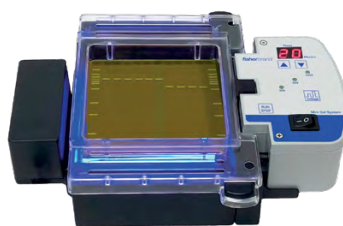
Description	Capacity	Internal Dimensions (Dia. x D)	Voltage (Plug Style)	Cat. No.
STE Fisherbrand™ SterilElite™ Benchtop Autoclave, Front Loading	16 L (17 qt.)	23 x 40.6 cm (9 x 16 in.)	115 V	<b>STE1622004</b>
			220 V	<b>STE1622008</b>
	24 L (25.4 qt.)	26 x 45 cm (10.2 x 26 in.)	115 V	<b>STE2422005</b>
			220 V	<b>STE2422006</b>
	40 L (43 qt.)	30 x 57 cm (11 x 22 in.)	220 V	<b>STE4022009</b>
	Fisherbrand™ Microbead Small Sterilizer	300 g (11 oz.)	4 x 12.7 cm (1.6 x 5 in.)	115 V (U.S.)
230 V (International)				<b>14-955-341</b>
Fisherbrand™ Microbead Tall Sterilizer	500 g (18 oz.)	4 x 21.5 cm (1.6 x 7.5 in.)	115 V (U.S.)	<b>14-955-342</b>
			230 V (International)	<b>14-955-343</b>

## Other Sterilizing Devices

Description	Maximum Temperature	Dimensions (H x W x D)	Voltage (Plug Style)	Cat. No.
Fisherbrand™ Bacti-Loop™ Micro-Sterilizer	500°C (1,500°F)	16.5 x 10 x 15 cm (6.5 x 4 x 6 in.)	120 V (U.S.)	<b>22-630-001</b>

# Electrophoresis Equipment

## Horizontal Gel Systems



Description	Type	Gel Dimensions	Buffer Volume	Cat. No.
Fisherbrand™ Horizontal Minigel Electrophoresis System	Standard	10.5 x 6 cm or 5 x 6 cm	300 mL	<b>14-955-170</b>
Fisherbrand™ Horizontal Minigel Electrophoresis System	Standard	7 x 10 cm	400 mL	<b>FB-SB-710</b>
Fisherbrand™ Horizontal Midigel Electrophoresis System	Standard	13 x 16 cm	800 mL	<b>FB-SB-1316</b>
Fisherbrand™ Horizontal Large Gel Electrophoresis System	Standard	20 x 25 cm	2.3 L	<b>FB-SB-2025</b>
Fisherbrand™ Horizontal Midigel Electrophoresis System	Recirculating	13 x 16 cm	1.2 L	<b>FB-SBR-1316</b>
Fisherbrand™ Horizontal Large Gel Electrophoresis System	Recirculating	20 x 25 cm	2 L	<b>FB-SBR-2025</b>

## Vertical Gel Systems

Description	Gel Dimensions	Buffer Volume	Cat. No.
Fisherbrand™ Vertical Electrophoresis System	10 x 10 cm	300 mL	<b>FB-VE10-1</b>
	16 x 14 cm	550 mL	<b>FB-VE16-1</b>

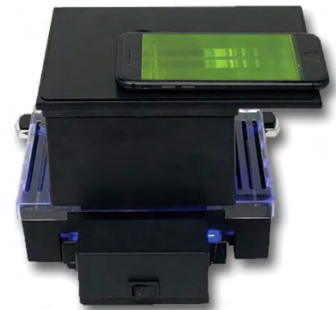
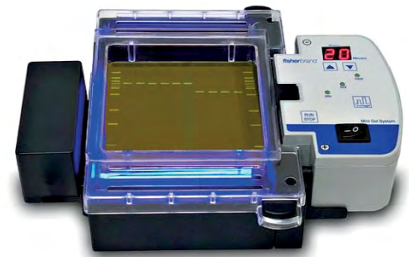
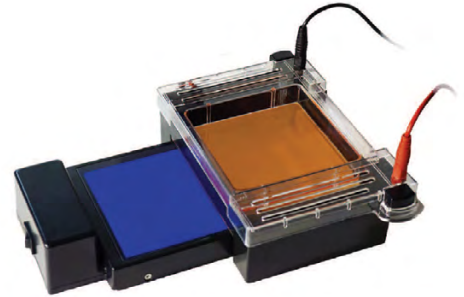
## Electrophoresis Power Supplies

Description	Applications	Maximum Current	Maximum Voltage	Maximum Power	Jacks	Voltage (Plug Style)	Cat. No.
Fisherbrand™ Compact Electrophoresis Power Supply	DS-PAGE, DGGE/CDGE, DNA/RNA Submarine Electrophoresis	400 mA	300 V	75 W	3	120 V (U.S.)	<b>FB300Q</b>
Fisherbrand™ High-Current Electrophoresis Power Supply	High-Current Electroblotting (Western Tank and Semidry, Southern and Northern), SDS-PAGE Electrophoresis	2 A	200 V	200 W	4	120 V (U.S.)	<b>FB200Q</b>
Fisherbrand™ Programmable Electrophoresis Power Supply	Isoelectric Focusing, SDS-PAGE, Native SDS-PAGE, DNA Sequencing, High-Voltage Electrophoresis	400 mA	3,000 V	400 W	4	120 V (U.S.)	<b>FB3000Q</b>

# View Separations in Real Time

Fisherbrand™ Real-Time Electrophoresis Systems let you run DNA gels, view separations as they occur, and capture gel images using your smartphone.

- For small DNA gel runs
- Available with a 35, 50, or 100 V power supply
- Compatible with Applied Biosystems™ SYBR™, GelGreen, SmartGlow, and other green fluorescent DNA stains



## Real-Time Electrophoresis Systems

Description	Gel Dimensions	Voltage (Plug Style)	Cat. No.
Fisherbrand™ Real-Time Electrophoresis Tank System, Requires External Power Supply	10.5 x 10 cm, 10.5 x 6 cm	115 V (U.S.)	<b>14-955-205</b>
		230 V (International)	<b>14-955-206</b>
Fisherbrand™ Real-Time Electrophoresis Tank System with Integral Power Supply (35, 50, or 100 V)	10.5 x 10 cm, 10.5 x 6 cm	115 V (U.S.)	<b>14-955-207</b>
		230 V (International)	<b>14-955-208</b>



# Centrifuges, Microplate Washers, and Readers



## Centrifuges

Description	Speed	Capacity	Voltage (Plug Style)	Cat. No.
Fisherbrand™ Mini Plate Spinner Centrifuge	2,500 rpm	2 Microplates	120 V (U.S.)	<b>14-100-143</b>
Fisherbrand™ Mini Plate Spinner Centrifuge			230 V (International)	<b>14-100-141</b>
Fisherbrand™ Microplate Centrifuge	2,500 rpm (850 x g)	2 PCR Microplates	115 V (U.S.)	<b>14-955-300</b>
Fisherbrand™ Mini-Centrifuge with Two Rotors	6,000 rpm (2,000 x g)	16 x 0.2 mL or 6 x 1.5/2 mL Tubes	100–240 V (U.S. and International)	<b>12-006-901</b>
Fisherbrand™ High-Speed Mini Centrifuge	12,500 rpm	12 x 1.5/2.0 mL Tubes	100–240 V (U.S. and International)	<b>12-006-900</b>
Fisherbrand™ accuSpin™ Micro 17 Microcentrifuge, Ventilated	3,300 rpm (17,000 x g)	24 x 1.5/2 mL Tubes	120 V (U.S.)	<b>13-100-675</b>
Fisherbrand™ accuSpin™ Micro 17R Microcentrifuge, Refrigerated				<b>13-100-676</b>
Fisherbrand™ Combination Centrifuge/Stirrer	Stirrer: 2,500 rpm; Centrifuge: 12,500 rpm	Stirrer: 3 L; Centrifuge: 12 x 1.5/2.0 mL Tubes or 6 x 5 mL Tubes	100–240 V (U.S. and International)	<b>14-127-570</b>

## Microplate Washers

Description	Cell Washing	Plate Type	Waste Capacity	Voltage	Cat. No.
Fisherbrand™ accuWash™ Microplate Washer	No	96-Well	1 Bottle	100–240 V	<b>14-377-577</b>
Fisherbrand™ accuWash™ Versa™ Microplate Washer	Yes	96-Well, 384-Well	3 Bottles	100–240 V	<b>14-377-578</b>

## Microplate Readers

Description	With Incubator	Plate Type	Wavelength Range	Voltage	Cat. No.
Fisherbrand™ accuSkan™ FC Filter-Based Microplate Photometer	No	96-Well	340 to 850 nm	100–240 V	<b>14-377-575</b>
	Yes	96-Well, 384-Well			<b>14-377-576</b>

# Microscopes



## Simple Microscopes

Description	Head Style	Nosepiece Positions	Condenser	Objectives	Cat. No.
Fisherbrand™ Entry Level Upright Microscope	Monocular	4	Fixed Abbe NA 1.25 with Filter Holder	Achromatic 4X, 10X, 40X, 100X (Oil)	<b>03-000-000</b>
	Binocular				<b>03-000-001</b>
	Monocular	4	Fixed Abbe NA 1.25 with Filter Holder	Semi-Plan 4X, 10X, 40X, 100X (Oil)	<b>03-000-002</b>
	Binocular				<b>03-000-003</b>
	Monocular	4	Fixed Abbe NA 1.25 with Filter Holder	Plan Achromatic 4X, 10X, 40X, 100X (Oil)	<b>03-000-004</b>
	Binocular				<b>03-000-005</b>

## Compound Upright Microscopes

Description	Head Style	Nosepiece Positions	Condenser	Objectives	Camera	Cat. No.
Fisherbrand™ Entry Level Upright Microscope	Binocular	4	Fixed Abbe NA 1.25 with Filter Holder	Achromatic 4X, 10X, 40X, 100X (Oil)	N/A	<b>11-350-101</b>
Fisherbrand™ Entry Level Research Grade Inverted Microscope with Simple Cross Polarization	Trinocular	5	Abbe NA 0.30, with Phase Slider, Removable	PL BF 4X; PH 10X, 20X	Portal Available	<b>03-000-013</b>
Fisherbrand™ Research Grade Upright Microscope	Binocular	5	Abbe NA 1.25, with Filter Holder	Plan Achromatic 4X, 10X, 40X, 100X (Oil)	N/A	<b>03-000-007</b>
	Trinocular	5			Portal Available	<b>03-000-008</b>
Fisherbrand™ Research Grade Upright Microscope with Color Camera	Trinocular	4	Abbe NA 1.25, with Filter Holder	Plan Achromatic 4X, 10X, 40X, 100X (Oil)	3MP USB	<b>03-000-024</b>
		5				<b>03-000-026</b>
	Binocular	5	Abbe NA 1.25, with Filter Holder	Plan Achromatic 4X, 10X, 40X, 100X (Oil)	1080P HDMI	<b>03-000-032</b>
		Trinocular				4
	Binocular	4	Abbe NA 1.25, with Filter Holder	Plan Achromatic 4X, 10X, 40X, 100X (Oil)	5MP USB	<b>03-000-029</b>
		Trinocular				4
<b>03-000-030</b>						

Description	Head Style	Nosepiece Positions	Condenser	Objectives	Camera	Cat. No.
Fisherbrand™ Phase Contrast Research Grade Upright Microscope with Color Camera	Trinocular	4	Abbe Phase NA 1.25 with Filter Holder	PL PH 10X, 20X; Plan Achromatic 40X, 100X	3MP USB	<b>03-000-027</b>
	Binocular				1080P HDMI	<b>03-000-031</b>
	Binocular				10MP USB	<b>03-000-034</b>
Fisherbrand™ Phase Contrast Research Grade Upright Microscope with Optional Camera	Trinocular	5	Abbe Phase NA 1.25 with Filter Holder	Plan Achromatic Phase 10X, 20X, 40X, 100X (Oil)	Optional 0.5x C-Mount	<b>03-000-010</b>
Fisherbrand™ Advanced Research Grade Upright Microscope	Trinocular	5	Abbe NA 1.25, with Filter Holder	High-Contrast Chromatic-Free Plan Achromatic 4X, 10X, 40X, 50X (Oil), 100X (Oil)	No Camera Attachment	<b>03-000-103</b>
	Trinocular				Camera Attachment	<b>03-000-104</b>
Fisherbrand™ Advanced Research Grade Upright Phase Contrast Microscope	Trinocular	5	Abbe NA 1.25, with Filter Holder	Plan Achromatic Phase 10X, 20X, 40X, 100X (Oil)	Camera Attachment	<b>03-000-106</b>
Fisherbrand™ Advanced Research Grade Upright Microscope with Simple Cross Polarization	Binocular	5	Abbe NA 1.25, with Filter Holder	High-Contrast Chromatic-Free Plan Achromatic 4X, 10X, 40X, 100X (Oil)	No Camera Attachment	<b>03-000-107</b>
	Trinocular				Camera Attachment	<b>03-000-108</b>
Fisherbrand™ Advanced Research Grade Upright Microscope	Binocular	5	Abbe NA 1.25, with Filter Holder	High-Contrast Chromatic-Free 4X, 10X, 40X, 100X (Oil)	No Camera Attachment	<b>03-000-011</b>
	Trinocular				Camera Attachment	<b>03-000-012</b>

## Stereo Microscopes

Description	Illumination	Head Style	Magnification	Eyepiece	Objectives	Cat. No.
Fisherbrand™ Basic Stereo Zoom Microscope	LED	Binocular	Continuous Zoom (1:4)	10X	1X to 4X	<b>03-000-018</b>
	LED	Trinocular with Camera Attachment	Continuous Zoom (1:4)	10X	1X to 4X	<b>03-000-028</b>
	None	Trinocular with Camera Attachment	Continuous Zoom (1:4)	10X	1X to 4X	<b>03-000-021</b>
Fisherbrand™ Research Grade Stereo Zoom Microscope	LED (Ring)	Binocular	Continuous Zoom (6.4:1)	10X	0.7X to 4.5X	<b>03-000-014</b>
		Trinocular				<b>03-000-015</b>
Fisherbrand™ Basic Fixed Magnification Stereo Microscope	LED (Ring)	Binocular	Dual, Fixed	10X	1X, 3X	<b>03-000-037</b>
					2X, 4X	<b>03-000-038</b>
Fisherbrand™ Basic Digital Stereo Zoom Microscope with 3MP USB Color Camera	LED (Ring)	Trinocular with 0.5X C-Mount Lens	Continuous Zoom (1:4)	10X	1X to 4X	<b>03-000-039</b>
Fisherbrand™ Advanced Fixed Magnification Stereo Microscope	LED (Ring)	Binocular	Dual, Fixed	15X	1X, 3X	<b>03-000-016</b>
					2X, 4X	<b>03-000-017</b>
				10X	1X, 3X	<b>03-000-035</b>
					2X, 4X	<b>03-000-036</b>

## Cameras

Description	Interface	Cat. No.
Fisherbrand™ Digital Microscope Eyepiece Camera, Extends to C- or CS-Mounted Cameras	2.0 MP USB	<b>03-000-040</b>

# Refractometers



## Refractometers

Description	Scale: Range	Temperature Compensation	Dimensions (L x W x H)	Power	Cat. No.
Fisherbrand™ Handheld Analog Clinical Refractometer	Urine SG: 1.000 to 1.050; Serum Protein: 1 to 12 g/dL; Refractive Index: 1.334 to 1.360	No	17.2 x 4 x 4 cm	None (Ambient light)	<b>12-561-340</b>
		Yes			<b>12-561-341</b>
Fisherbrand™ Handheld Analog Salinity Refractometer	Salinity: 1.000 to 1.070 SG. (0 to 100 ppt)	Yes	20.4 x 4 x 4 cm	None (Ambient light)	<b>12-561-335</b>
Fisherbrand™ Handheld Analog Automotive Refractometer	Ethylene: -84° to 32°F; Propylene: -60° to 32°F; Battery Fluid: 1.100 to 1.400	Yes	15.3 x 4 x 4 cm	None (Ambient light)	<b>12-561-336</b>
Fisherbrand™ Handheld Analog Brix/Sucrose Refractometer	Brix: 0 to 10% Brix: 0 to 32%	Yes	20.4 x 4 x 4 cm	None (Ambient light)	<b>12-561-337</b>
		No			<b>12-561-338</b>
		Yes			<b>12-561-339</b>
Fisherbrand™ Handheld Digital Brix/RI Refractometer	Brix: 0 to 50%	Yes	2.5 x 6 x 12 cm	Battery (AAA)	<b>12-561-343</b>
	Brix: 0 to 90%				<b>12-561-344</b>
	Brix Fructose: 0 to 68.9%				<b>12-561-346</b>
	Brix: 0 to 60%				<b>12-561-347</b>
Fisherbrand™ Handheld Digital Honey Refractometer	Brix: 0% to 90%; Moisture: 5% to 38%; Baume: 33° to 48°C; Refractive Index (RI): 1.3330 to 1.5300nD	Yes	2.5 x 5.8 x 12.1 cm	Battery (AAA)	<b>12-561-352</b>
Fisherbrand™ Handheld Digital Wine Refractometer	Brix: 0% to 50.0%; PA (% v/v): 0% to 22%; Oechsle (Oe): 0° to 150°C; KMW (Babo): 0°C to 25°C	Yes	2.5 x 5.8 x 12.1 cm	Battery (AAA)	<b>12-561-353</b>
Fisherbrand™ Handheld Digital Clinical Refractometer	Urine SG: 1.000 to 1.050; Serum Protein: 0.1 to 12.0; Refractive Index (RI): 1.3330 to 1.4200nD	Yes	2.5 x 5.8 x 12.1 cm	Battery (AAA)	<b>12-561-354</b>
Fisherbrand™ Handheld Digital Refractometer for Salinity	Salinity: 0% to 28%; SG: 1.000 to 1.217; RI: 1.330 to 1.4200nD	Yes	2.5 x 5.8 x 12.1 cm	Battery (AAA)	<b>12-561-350</b>
	Seawater Salinity: 0.0% to 100%; Chlorinity: 0.0% to 57%; SG: 1.000 to 1.075; RI: 1.330 to 1.4200nD				<b>12-561-351</b>
Fisherbrand™ Analog Abbe Benchtop RI Refractometer	RI 1.3000 to 1.7000nD; Brix 0 to 95%	No	270 x 180 x 370 mm	None (Ambient light)	<b>12-561-359</b>

# Heating Mantles



## Multi-Recess Heating Mantles

Description	Capacity	Maximum Temperature	Power	Voltage (Plug Style)	Cat. No.
Fisherbrand™ 3-Recess Extraction Heating Mantle	100 mL	450°C (842°F)	110 W	120 V (U.S.)	<b>10-067-210</b>
	250 mL	450°C (842°F)	220 W	120 V (U.S.)	<b>10-067-211</b>
	500 mL	450°C (842°F)	330 W	120 V (U.S.)	<b>10-667-212</b>
	1,000 mL	450°C (842°F)	495 W	120 V (U.S.)	<b>10-067-213</b>
Fisherbrand™ 6-Recess Extraction Heating Mantle for Round-Bottom Flasks	6 x 100 mL	450°C (842°F)	110 W	120 V (U.S.)	<b>10-067-214</b>
	6 x 250 mL	450°C (842°F)	220 W	120 V (U.S.)	<b>10-067-215</b>
	6 x 500 mL	450°C (842°F)	330 W	120 V (U.S.)	<b>10-067-216</b>

## Heating Mantles with Controls

Description	Capacity	Maximum Temperature	Power	Voltage (Plug Style)	Cat. No.
Fisherbrand™ Metal-Housed Heating Mantle with Controls	50 mL	450°C (842°F)	60 W	120 V (U.S.)	<b>10-067-200</b>
	100 mL	450°C (842°F)	110 W	120 V (U.S.)	<b>10-067-201</b>
	250 mL	450°C (842°F)	165 W	120 V (U.S.)	<b>10-067-202</b>
	500 mL	450°C (842°F)	220 W	120 V (U.S.)	<b>10-067-203</b>
	1,000 mL	450°C (842°F)	325 W	120 V (U.S.)	<b>10-067-204</b>
	2,000 mL	450°C (842°F)	545 W	120 V (U.S.)	<b>10-067-205</b>
	3,000 mL	450°C (842°F)	650 W	120 V (U.S.)	<b>10-067-206</b>
	4,000 mL	450°C (842°F)	815 W	120 V (U.S.)	<b>10-067-207</b>
	5,000 mL	450°C (842°F)	935 W	120 V (U.S.)	<b>10-067-208</b>
	6,000 mL	450°C (842°F)	1,090 W	120 V (U.S.)	<b>10-067-209</b>
Fisherbrand™ Metal-Housed Magnetic Stirring Heating Mantle	100 mL	450°C (842°F)	110 W	120 V (U.S.)	<b>11-476-341</b>
	250 mL	450°C (842°F)	165 W	120 V (U.S.)	<b>11-476-342</b>
	500 mL	450°C (842°F)	220 W	120 V (U.S.)	<b>11-476-343</b>
	1,000 mL	450°C (842°F)	325 W	120 V (U.S.)	<b>11-476-344</b>

## Heating Mantles without Controllers

Description	Capacity	Maximum Temperature	Power	Voltage (Plug Style)	Cat. No.
Fisherbrand™ Lower Hemispherical Heating Mantle and ON/OFF Control (°C Controller)	50 mL	482°C (900°F)	60 W	120 V (U.S.)	<b>11-476-000</b>
	100 mL	482°C (900°F)	80 W	120 V (U.S.)	<b>11-476-001</b>
	125 mL	482°C (900°F)	80 W	120 V (U.S.)	<b>11-476-002</b>
	200 mL	482°C (900°F)	100 W	120 V (U.S.)	<b>11-476-003</b>
	250 mL	482°C (900°F)	180 W	120 V (U.S.)	<b>11-476-004</b>
	500 mL	482°C (900°F)	270 W	120 V (U.S.)	<b>11-476-005</b>
	1,000 mL	482°C (900°F)	380 W	120 V (U.S.)	<b>11-476-006</b>
	2,000 mL	482°C (900°F)	500 W	120 V (U.S.)	<b>11-476-007</b>
	3,000 mL	482°C (900°F)	500 W	120 V (U.S.)	<b>11-476-008</b>
	5,000 mL	482°C (900°F)	600 W	120 V (U.S.)	<b>11-476-009</b>
	12,000 mL	482°C (900°F)	1,300 W	120 V (U.S.)	<b>11-476-010</b>
Fisherbrand™ Lower Hemispherical Cloth Heating Mantle	50 mL	482°C (900°F)	60 W	240 V (None)	<b>11-476-011</b>
	100 mL	482°C (900°F)	80 W	240 V (None)	<b>11-476-012</b>
	125 mL	482°C (900°F)	80 W	240 V (None)	<b>11-476-013</b>
	200 mL	482°C (900°F)	100 W	240 V (None)	<b>11-476-014</b>
	250 mL	482°C (900°F)	180 W	240 V (None)	<b>11-476-015</b>
	500 mL	482°C (900°F)	270 W	240 V (None)	<b>11-476-016</b>
	1,000 mL	482°C (900°F)	380 W	240 V (None)	<b>11-476-017</b>
	2,000 mL	482°C (900°F)	500 W	240 V (None)	<b>11-476-018</b>
	3,000 mL	482°C (900°F)	500 W	240 V (None)	<b>11-476-019</b>
	5,000 mL	482°C (900°F)	600 W	240 V (None)	<b>11-476-020</b>
	12,000 mL	482°C (900°F)	1,300 W	240 V (None)	<b>11-476-021</b>
Fisherbrand™ Upper Hemispherical Cloth Heating Mantle	250 mL	482°C (900°F)	140 W	120 V (U.S.)	<b>11-476-022</b>
				240 V (None)	<b>11-476-028</b>
	500 mL	482°C (900°F)	140 W	120 V (U.S.)	<b>11-476-023</b>
				240 V (None)	<b>11-476-029</b>
	1,000 mL	482°C (900°F)	140 W	120 V (U.S.)	<b>11-476-024</b>
				240 V (None)	<b>11-476-030</b>
	2,000 mL	482°C (900°F)	200 W	120 V (U.S.)	<b>11-476-025</b>
			200 W	240 V (None)	<b>11-476-031</b>
	3,000 mL	482°C (900°F)	200 W	120 V (U.S.)	<b>11-476-026</b>
			200 W	240 V (None)	<b>11-476-032</b>
5,000 mL	482°C (900°F)	300 W	120 V (U.S.)	<b>11-476-027</b>	
		300 W	240 V (None)	<b>11-476-033</b>	

Description	Capacity	Maximum Temperature	Power	Voltage (Plug Style)	Cat. No.
Fisherbrand™ Soft Sided Tabletop Heating Mantle	50 mL	482°C (900°F)	52 W	120 V (U.S.)	<b>11-476-034</b>
				240 V (U.S.)	<b>11-476-042</b>
	100 mL	482°C (900°F)	70 W	120 V (U.S.)	<b>11-476-035</b>
				240 V (U.S.)	<b>11-476-043</b>
	250 mL	482°C (900°F)	143 W	120 V (U.S.)	<b>11-476-036</b>
				240 V (U.S.)	<b>11-476-044</b>
	500 mL	482°C (900°F)	210 W	120 V (U.S.)	<b>11-476-037</b>
				240 V (U.S.)	<b>11-476-045</b>
	1,000 mL	482°C (900°F)	377 W	120 V (U.S.)	<b>11-476-038</b>
				240 V (U.S.)	<b>11-476-046</b>
	2,000 mL	482°C (900°F)	520 W	120 V (U.S.)	<b>11-476-039</b>
				240 V (U.S.)	<b>11-476-047</b>
	3,000 mL	482°C (900°F)	550 W	120 V (U.S.)	<b>11-476-040</b>
				240 V (U.S.)	<b>11-476-048</b>
5,000 mL	482°C (900°F)	620 W	120 V (U.S.)	<b>11-476-041</b>	
			240 V (U.S.)	<b>11-476-049</b>	

## Heating Mantle Controllers

Description	Type	Sensor Type	Temperature Range Control	Voltage (Plug Style)	Cat. No.
Fisherbrand™ Digital ON/OFF Benchtop Temperature Controller	°C display	J-Type Thermocouple	0 to 600°C (32 to 999°F)	120 V (U.S.)	<b>11-476-114</b>
				240 V (U.S.)	<b>11-476-118</b>
	°F Display	K-Type Thermocouple	0 to 600°C (32 to 999°F)	120 V (U.S.)	<b>11-476-115</b>
	°C display				<b>11-476-116</b>

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