

SELECTION GUIDE

Water Baths



DO IT ALL WITH THIS CIRCULATING BATH!



THE PERFECT ANSWER TO EVERY CLEANING PROBLEM!



THE METABOLIC SHAKING WATER BATH!



WHEN YOUR MULTI-STIRRER NEEDS TO TAKE A BATH!

GENERAL PURPOSE

	Product Description	Chamber Capacity Liters	Operating Temp Range °C	Temperature Control	Temperature Uniformity	Page
<i>MORE WATER BATH FOR YOUR MONEY!</i>	Analog and Digital Aquabath	2 to 44	Slightly above ambient to 65°C (100°C with free cover)	±0.5°C	±0.2°C	306

CIRCULATING

<i>IDEAL FOR COLIFORM ASSAYS!</i>	Analog Aquabath	27	Ambient +5° to 65°C (to 120°C with stainless baths)	±0.2°C	±0.2°C	308
<i>DO IT ALL WITH THIS CIRCULATING BATH!</i>	Programmable Circulator	7 to 30	Ambient +5° to 65°C (to 120°C with stainless baths)	±0.5°C	±0.1°C	319

ULTRASONIC BATHS

<i>DIGITAL MODELS WITH PRECISION CONTROL!</i>	Aquawave Digital	2.75 to 28	20° to 80°C	N/A	N/A	309
<i>THE PERFECT ANSWER TO EVERY CLEANING PROBLEM!</i>	Aquawave Analog	0.65 to 45	20° to 80°C	N/A	N/A	310

RECIPROCATING SHAKERS

<i>THE METABOLIC SHAKING WATER BATH!</i>	Dubnoff Incu-Shaker	12	Ambient +5° to 65°C (100°C with cover)	±0.5°C	±0.5°C	313
<i>YOU HAVE MANY SHAKING OPTIONS!</i>	Hydraulic Temperature Control	28	Ambient +5° to 65°C (100°C with optional cover)	±0.5°C	±0.2°C	314
	Electronic Temperature Control	28	Ambient +5° to 65°C (100°C with optional cover)	±0.1°C	±0.1°C	314
<i>FOR MAXIMUM CONTROL!</i>	Complete Digital Control	28	Ambient +5° to 65°C (100°C with optional cover)	±0.1°C	±0.1°C	315

ORBITAL SHAKERS

<i>OUR BEST SELLING SHAKERS!</i>	Hydraulic Temperature Control	28	Ambient +5° to 65°C (100°C with optional cover)	±0.5°C	±0.1°C	316
	Microprocessor Temperature Control	28	Ambient +5° to 65°C (100°C with optional cover)	±0.1°C	±0.1°C	316
<i>THE ULTIMATE SHAKING WATER BATH!</i>	Complete Digital Control	28	Ambient +5° to 65°C (100°C with optional cover)	±0.2°C	±0.1°C	317

MAGNETIC STIRRER

<i>WHEN YOUR MULTI-STIRRER NEEDS TO TAKE A BATH!</i>	Six-place Stirrer with Bath	28.4	Ambient +5° to 70°C	±0.1°C	±0.1°C	318
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Water Baths

GENERAL PURPOSE AQUABATH™

Lab-Line

Type 18000 Aquabaths



MORE WATER BATH FOR YOUR MONEY!

- — Seamless stainless steel chamber
- — Available in 18 models: 2 / to 44 / capacity with analog or digital temperature set and display
- ★ — Exclusive lifetime warranty on the heating element

Includes
FREE
Gable Cover
With All
Units



PRODUCT DESCRIPTION

- Uniquely designed heating plate on the underside of working chamber for maximum heat transfer to bath.
- Any Aquabath can become a boiling bath by using the Lexan® gable cover included free of charge.
- Adjustable hydraulic thermostat for temperature control.
- Stainless steel diffuser plate provides level surface for glassware. Removal of diffuser plate increases bath depth.
- Model 18800 and 18802 are dual-chamber baths with independent controls for each compartment.
- Models 18202 and 18212 feature a Teflon® coated chamber interior and diffuser plate for use with strong acids and caustics.

APPLICATIONS

- Designed for use in clinical research and pharmaceutical labs.
- Multitude of chemical, biological, research, and industrial laboratory applications.

OPERATION

- Temperature control $\pm 0.5^{\circ}\text{C}$; uniformity up to $\pm 0.2^{\circ}\text{C}$.
- Temperature range from slightly above ambient to 65°C , 100°C with gable cover (included).
- Independent high-limit thermostat provides over-temperature protection.

Water Baths

GENERAL PURPOSE AQUABATH™ Lab-Line

ORDERING INFORMATION

Model #	Electrical (50/60 Hertz)		Chamber Capacity Liters	Chamber Dimensions Inches (cm)			Overall Dimensions Inches (cm)			Shipping Weight Lb. (kg)	US List Price
	Volts	Watts		W	H	D	W	H	D		
Digital Water Baths											
18022	120	300	2.0	5.9 (15)	2.5 (6)	11.6 (30)	7.5 (19)	7 (18)	14.5 (37)	10 (4.5)	\$629.00
18022-1	240	300	2.0	5.9 (15)	2.5 (6)	11.6 (30)	7.5 (19)	7 (18)	14.5 (37)	10 (4.5)	\$697.00
18052	120	300	3.1	5.9 (15)	5 (13)	5.4 (14)	8.4 (21)	9 (23)	7.9 (20)	13 (5.9)	\$718.00
18052-1	240	300	3.1	5.9 (15)	5 (13)	5.4 (14)	8.4 (21)	9 (23)	7.9 (20)	13 (5.9)	\$848.00
18002	120	500	6.7	5.9 (15)	5 (13)	11.6 (30)	8.4 (21)	9 (23)	14 (36)	19 (8.6)	\$744.00
18002-1	240	500	6.7	5.9 (15)	5 (13)	11.6 (30)	8.4 (21)	9 (23)	14 (36)	19 (8.6)	\$848.00
18007	120	1000	14.6	12.7 (32)	5 (13)	11.6 (30)	14 (36)	9 (23)	15 (38)	28 (12.7)	\$941.00
18007-1	240	1000	14.6	12.7 (32)	5 (13)	11.6 (30)	14 (36)	9 (23)	15 (38)	28 (12.7)	\$1019.00
18202*	120	1000	14.6	12.7 (32)	5 (13)	11.6 (30)	14 (36)	9 (23)	15 (38)	28 (12.7)	\$1170.00
18202-1*	240	1000	14.6	12.7 (32)	5 (13)	11.6 (30)	14 (36)	9 (23)	15 (38)	28 (12.7)	\$1248.00
18102	120	1500	22.0	11.6 (30)	5 (13)	19.5 (50)	13.4 (34)	9 (23)	21.25 (54)	36 (16.3)	\$1040.00
18102-1	240	1500	22.0	11.6 (30)	5 (13)	19.5 (50)	13.4 (34)	9 (23)	21.25 (54)	36 (16.3)	\$1092.00
18212*	120	1500	22.0	11.6 (30)	5 (13)	19.5 (50)	13.4 (34)	9 (23)	21.25 (54)	36 (16.3)	\$1414.00
18212-1*	240	1500	22.0	11.6 (30)	5 (13)	19.5 (50)	13.4 (34)	9 (23)	21.25 (54)	36 (16.3)	\$1492.00
18802**	120	1500	6.7 (sm) 14.6 (lg)	5.9 (15) 12.7 (32)	5 (13) 5 (13)	11.6 (30) 11.6 (30)	23.25 (59)	9 (23)	14.25 (36)	41 (18.6)	\$1295.00
18802-1**	240	1500	6.7 (sm) 14.6 (lg)	5.9 (15) 12.7 (32)	5 (13) 5 (13)	11.6 (30) 11.6 (30)	23.25 (59)	9 (23)	14.25 (36)	41 (18.6)	\$1362.00
18012	120	2000	44.0	28 (71)	6 (15)	16 (41)	31.6 (80)	9 (23)	19.6 (50)	78 (35.4)	\$1295.00
18012-1	240	2000	44.0	28 (71)	6 (15)	16 (41)	31.6 (80)	9 (23)	19.6 (50)	78 (35.4)	\$1362.00
18902	120	1000	33.0	14 (36)	11 (28)	12 (30)	16.4 (42)	12 (30)	16.4 (42)	37 (16.8)	\$1300.00
18902-1	240	1000	33.0	14 (36)	11 (28)	12 (30)	16.4 (42)	12 (30)	16.4 (42)	37 (16.8)	\$1368.00
Basic Water Baths											
18020	120	300	2.0	5.9 (15)	2.5 (6)	11.6 (30)	7.5 (19)	7 (18)	14.5 (37)	10 (4.5)	\$458.00
18020-1	240	300	2.0	5.9 (15)	2.5 (6)	11.6 (30)	7.5 (19)	7 (18)	14.5 (37)	10 (4.5)	\$515.00
18050	120	300	3.1	5.9 (15)	5 (13)	5.4 (14)	8.4 (21)	9 (23)	7.9 (20)	13 (5.9)	\$536.00
18050-1	240	300	3.1	5.9 (15)	5 (13)	5.4 (14)	8.4 (21)	9 (23)	7.9 (20)	13 (5.9)	\$608.00
18000	120	500	6.7	5.9 (15)	5 (13)	11.6 (30)	8.4 (21)	9 (23)	14 (36)	19 (8.6)	\$567.00
18000-1	240	500	6.7	5.9 (15)	5 (13)	11.6 (30)	8.4 (21)	9 (23)	14 (36)	19 (8.6)	\$645.00
18005	120	1000	14.6	12.75 (32)	5 (13)	11.6 (30)	14 (36)	9 (23)	15 (38)	28 (12.7)	\$764.00
18005-1	240	1000	14.6	12.75 (32)	5 (13)	11.6 (30)	14 (36)	9 (23)	15 (38)	28 (12.7)	\$848.00
18100	120	1500	22.0	11.6 (30)	5 (13)	19.5 (50)	13.4 (34)	9 (23)	21.25 (54)	36 (16.3)	\$863.00
18100-1	240	1500	22.0	11.6 (30)	5 (13)	19.5 (50)	13.4 (34)	9 (23)	21.25 (54)	36 (16.3)	\$920.00
18800**	120	1500	6.7 (sm) 14.6 (lg)	5.9 (15) 12.75 (32)	5 (13) 5 (13)	11.6 (30) 11.6 (30)	23.25 (59)	9 (23)	14.25 (36)	41 (18.6)	\$1128.00
18800-1**	240	1500	6.7 (sm) 14.6 (lg)	5.9 (15) 12.75 (32)	5 (13) 5 (13)	11.6 (30) 11.6 (30)	23.25 (59)	9 (23)	14.25 (36)	41 (18.6)	\$1196.00
18010	120	2000	44.0	28 (71)	6 (15)	16 (41)	31.6 (80)	9 (23)	19.6 (50)	78 (35.4)	\$1128.00
18010-1	240	2000	44.0	28 (71)	6 (15)	16 (41)	31.6 (80)	9 (23)	19.6 (50)	78 (35.4)	\$1196.00
18900	120	1000	33.0	14 (36)	11 (28)	12 (30)	16.4 (42)	12 (30)	16.4 (42)	37 (16.8)	\$1128.00
18900-1	240	1000	33.0	14 (36)	11 (28)	12 (30)	16.4 (42)	12 (30)	16.4 (42)	37 (16.8)	\$1196.00

*Teflon® coated stainless steel chamber interior.

**Dual-chamber models.

Water Baths

CIRCULATING MAGNESTIR®

Lab-Line

Model 3184



IDEAL FOR COLIFORM ASSAYS!

- — Magnetic stirring circulates water evenly throughout chamber
- — Temperature range from slightly above ambient to 65°C (100°C with optional gable cover)
- ★ — 24 month warranty

PRODUCT DESCRIPTION

- Ideal for viscosity testing and coliform assays, as well as general incubations.
- Magnetic circulator is driven from below the chamber by a non-sparking induction motor.
- Temperature control of $\pm 0.2^{\circ}\text{C}$ or better, with $\pm 0.2^{\circ}\text{C}$ uniformity.
- Easy-to-read LED temperature display.
- Seven gallon (27) chamber capacity.
- Corrosion-resistant seamless stainless steel interior.
- High efficiency heating plates on sides of working chamber for maximum heat transfer.
- Three inch (8 cm) fiberglass insulation and double-wall construction increases temperature uniformity and minimizes heat loss.
- Electronic proportional temperature controller for excellent temperature stability.
- Independent hydraulic thermostat provides over-temperature protection.
- Silicone lubrication of motor assures trouble-free operation and quiet, efficient performance.
- Resettable circuit breaker protects unit from electrical overload.
- Stainless steel diffuser plate improves temperature uniformity and provides a level surface for glassware; removal of diffuser plate increases bath depth.
- Constant speed stirring of bath water is controlled by a single switch.

PRODUCT SPECIFICATIONS

Model #	Chamber Dimensions Inches (cm)			Overall Dimensions Inches (cm)			Shipping Weight Lb. (kg)
	W	H	D	W	H	D	
3184	14 (36)	9.75 (25)	12 (30)	16.5 (42)	17.75 (45)	18.75 (48)	40 (18)
3184-1	14 (36)	9.75 (25)	12 (30)	16.5 (42)	17.75 (45)	18.75 (48)	40 (18)

ORDERING INFORMATION

Model #	Electrical (50/60 Hertz)		Chamber Capacity Liters	US List Price
	Volts	Watts		
3184	120	1700	27	\$1799.00
3184-1	240	1700	27	\$2262.00

ACCESSORY GABLE COVER

Model #	Material	US List Price
19900-2	Lexan® Clear	\$92.00

Water Baths

AQUAWAVE™ DIGITAL ULTRASONIC CLEANERS

Harvey

Model 9331



DIGITAL MODELS WITH PRECISION CONTROL!

- — LED digital displays for temperature and time
- — Available in sizes from 2.75 /to 28 /
- ★ — 24 month warranty

PRODUCT DESCRIPTION

- Combine efficiency and thoroughness of ultrasonic cleaning with the accuracy and ease-of-use of digital technology.
- Ideal for use in general medical, dental applications, degassing for HPLC, and industrial cleaning.
- 40 kHz operation for optimal cleaning results.
- Sandwich-type transducers provide reliability; tolerate all-day continuous use.
- Adjustable ultrasound power level—up to 140% due to second transducer.
- Digital temperature and timer display.
- LED readouts of all parameters.
- Non-volatile memory maintains all settings after shut-down and in the event of power loss.
- Adjustable heat—from 20°C to 80°C in 1.0°C increments.
- Degas function—increases medium cleansing action and shortens total duration of cleaning cycle.
- Quick-set control knobs.
- Overheat protection thermostat.
- Durable stainless steel tank and cabinet.
- Built-in timers can be set for timed cycles of up to 90 minutes or continuous operation.
- Drains included on large models.

Model 9333



PRODUCT SPECIFICATIONS

Model #	Tank Dimensions Inches (cm)			Overall Dimensions Inches (cm)		
	W	H	D	W	H	D
9331	9.4 (23.9)	3.9 (10.0)	5.4 (13.7)	10.4 (26.4)	8.5 (21.6)	6.9 (17.5)
9331-1	9.4 (23.9)	3.9 (10.0)	5.4 (13.7)	10.4 (26.4)	8.5 (21.6)	6.9 (17.5)
9322	19.9 (50.5)	3.9 (10.0)	5.4 (13.7)	22.2 (56.5)	8.5 (21.5)	7.9 (20.0)
9322-1	19.9 (50.5)	3.9 (10.0)	5.4 (13.7)	22.2 (56.5)	8.5 (21.5)	7.9 (20.0)
9323	11.8 (30.0)	5.9 (15.0)	9.4 (24.0)	15.5 (39.4)	14.7 (37.2)	10.8 (27.5)
9323-1	11.8 (30.0)	5.9 (15.0)	9.4 (24.0)	15.5 (39.4)	14.7 (37.2)	10.8 (27.5)
9333	11.8 (30.0)	7.9 (20.1)	9.4 (23.9)	17.7 (45.0)	15.7 (39.9)	11.4 (29.0)
9333-1	11.8 (30.0)	7.9 (20.1)	9.4 (23.9)	17.7 (45.0)	15.7 (39.9)	11.4 (29.0)
9334	12.9 (32.7)	7.9 (20.1)	11.8 (30.0)	17.7 (45.0)	15.7 (39.9)	15.4 (39.4)
9334-1	12.9 (32.7)	7.9 (20.1)	11.8 (30.0)	17.7 (45.0)	15.7 (39.9)	15.4 (39.4)
9335	19.9 (50.5)	7.9 (20.1)	11.8 (30.0)	23.9 (60.7)	15.7 (39.9)	15.9 (40.4)
9335-1	19.9 (50.5)	7.9 (20.1)	11.8 (30.0)	23.9 (60.7)	15.7 (39.9)	15.9 (40.4)

ORDERING INFORMATION

Model #	Capacity Liters	Drain	Electrical (50/60 Hertz)		US List Price
			Volts	Watts	
9331	2.75	No	120	300	\$1071.00
9331-1	2.75	No	240	300	\$1071.00
9322	6.9	Yes	120	360	\$1576.00
9322-1	6.9	Yes	240	360	\$1576.00
9323	9.5	No	120	360	\$1622.00
9323-1	9.5	No	240	360	\$1622.00
9333	12.75	Yes	120	600	\$1971.00
9333-1	12.75	Yes	240	600	\$1971.00
9334	18	Yes	120	600	\$2132.00
9334-1	18	Yes	240	600	\$2132.00
9335	28	Yes	120	600	\$2298.00
9335-1	28	Yes	240	600	\$2298.00

Water Baths

AQUAWAVE™ ANALOG ULTRASONIC CLEANERS

Harvey

Model 9303



THE PERFECT ANSWER TO EVERY CLEANING PROBLEM!

- — Reliable heavy duty transducers
- — 26 models available, with tank sizes from 0.65 /to 45 /
- ★ — 24 month warranty

PRODUCT DESCRIPTION

- Aquawave™ Ultrasonic Cleaners provide thorough, efficient cleaning of even the most delicate components.
- Reliable operation eliminates tedious manual work without damage to the items being cleaned.
- Operation at 35 kHz for superior cleaning results.
- Reliable sandwich-type transducers are more efficient and dependable than flat transducers.
- Mechanical timer acts as on/off switch—can be set for cycles up to 15 minutes or for continuous operation.
- Durable stainless steel construction of tank and cabinet.
- Stainless steel lids, to prevent evaporation, are available for all models.
- Tank overlaps outside cabinet to prevent leakage into unit.
- Select models feature adjustable heat from 20°C to 80°C.
- Drains included on large units.

Model 9305



Water Baths

AQUAWAVE™ ANALOG ULTRASONIC CLEANERS

Harvey

ORDERING INFORMATION

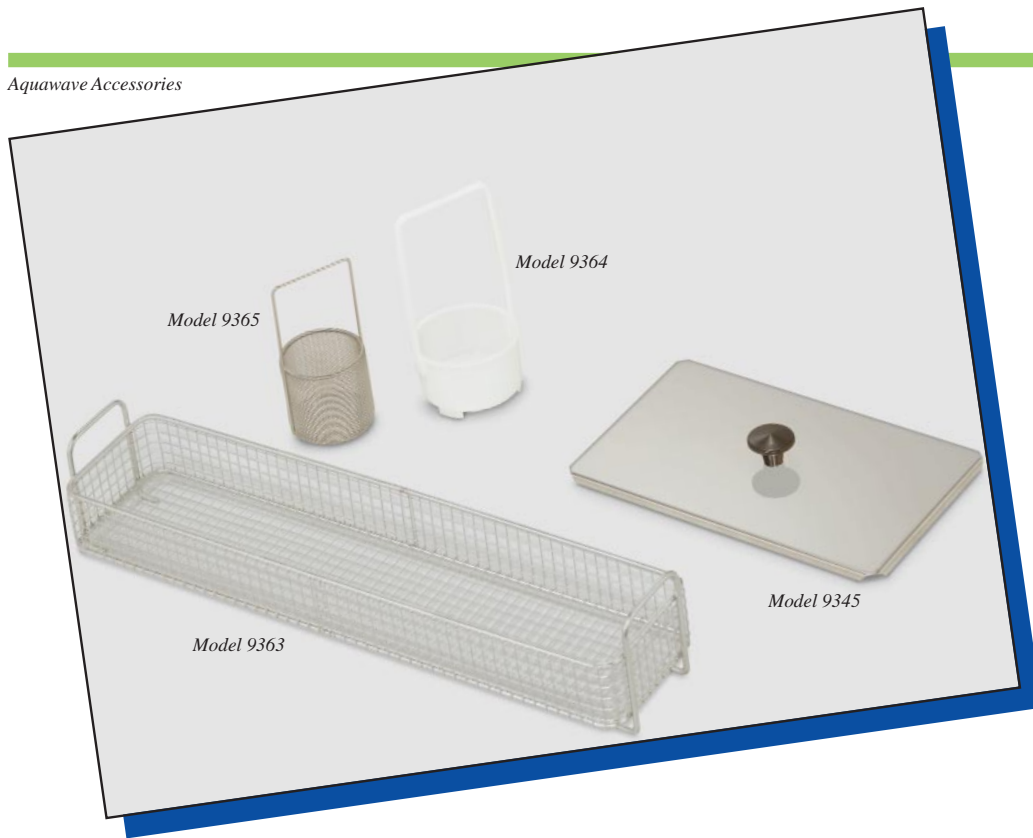
Model #	Electrical (50/60 Hertz)		Tank Dimensions Inches (cm)			Overall Dimensions Inches (cm)			Capacity Liters	Heat	Drain	Lid Included	Shipping Weight Lb. (kg)	US List Price
	Volts	Watts	W	H	D	W	H	D						
9300	120	30	7.5 (19)	2.4 (6.1)	3.3 (8.4)	7.9 (20.1)	5.5 (14)	3.7 (9.4)	0.8	No	No	Yes	2.6 (1.2)	\$359.00
9300-1	240	30	7.5 (19)	2.4 (6.1)	3.3 (8.4)	7.9 (20.1)	5.5 (14)	3.7 (9.4)	0.8	No	No	Yes	2.6 (1.2)	\$359.00
9301	120	50	5.9 (15)	3.9 (10)	5.4 (13.7)	6.9 (17.5)	8.5 (21.6)	6.7 (17)	1.75	No	No	No	5.5 (2.5)	\$563.00
9301-1	240	50	5.9 (15)	3.9 (10)	5.4 (13.7)	6.9 (17.5)	8.5 (21.6)	6.7 (17)	1.75	No	No	No	5.5 (2.5)	\$563.00
9304	120	100	5.9 (15)	3.9 (10)	5.4 (13.7)	6.9 (17.5)	8.5 (21.6)	6.7 (17)	1.75	Yes	No	Yes	5.5 (2.5)	\$640.00
9304-1	240	100	5.9 (15)	3.9 (10)	5.4 (13.7)	6.9 (17.5)	8.5 (21.6)	6.7 (17)	1.75	Yes	No	Yes	5.5 (2.5)	\$640.00
9302	120	85	9.4 (23.9)	3.9 (10)	5.4 (13.7)	10.4 (26.4)	8.5 (21.6)	6.9 (17.5)	2.75	No	No	No	6.6 (2.9)	\$598.00
9302-1	240	85	9.4 (23.9)	3.9 (10)	5.4 (13.7)	10.4 (26.4)	8.5 (21.6)	6.9 (17.5)	2.75	No	No	No	6.6 (2.9)	\$598.00
9303	120	285	9.4 (23.9)	3.9 (10)	5.4 (13.7)	10.4 (26.4)	8.5 (21.6)	6.9 (17.5)	2.75	Yes	No	No	7.0 (3.2)	\$634.00
9303-1	240	285	9.4 (23.9)	3.9 (10)	5.4 (13.7)	10.4 (26.4)	8.5 (21.6)	6.9 (17.5)	2.75	Yes	No	No	7.0 (3.2)	\$634.00
9320	120	45	9.4 (23.9)	3.9 (10)	5.4 (13.7)	10 (25.4)	8.5 (21.6)	6 (15.2)	2.75	No	No	Yes	6.0 (2.7)	\$463.00
9320-1	240	45	9.4 (23.9)	3.9 (10)	5.4 (13.7)	10 (25.4)	8.5 (21.6)	6 (15.2)	2.75	No	No	Yes	6.0 (2.7)	\$463.00
9321	120	265	9.4 (23.9)	3.9 (10)	5.4 (13.7)	10 (25.4)	8.5 (21.6)	6 (15.2)	2.75	Yes	No	Yes	6.0 (2.7)	\$515.00
9321-1	240	265	9.4 (23.9)	3.9 (10)	5.4 (13.7)	10 (25.4)	8.5 (21.6)	6 (15.2)	2.75	Yes	No	Yes	6.0 (2.7)	\$515.00
9306	120	160	9.4 (23.9)	5.9 (15)	5.4 (13.7)	11.8 (30)	10.4 (26.4)	7.1 (18)	4.25	No	No	No	9.0 (4.1)	\$1118.00
9306-1	240	160	9.4 (23.9)	5.9 (15)	5.4 (13.7)	11.8 (30)	10.4 (26.4)	7.1 (18)	4.25	No	No	No	9.0 (4.1)	\$1118.00
9307	120	360	9.4 (23.9)	5.9 (15)	5.4 (13.7)	11.8 (30)	10.4 (26.4)	7.1 (18)	4.25	Yes	No	No	9.7 (4.4)	\$1160.00
9307-1	240	360	9.4 (23.9)	5.9 (15)	5.4 (13.7)	11.8 (30)	10.4 (26.4)	7.1 (18)	4.25	Yes	No	No	9.7 (4.4)	\$1160.00
9305	120	160	9.1 (23.1) dia.	5.1 (13)	—	10.2 (26) dia.	10.8 (27.4)	—	5.4	No	No	No	16.5 (7.5)	\$915.00
9305-1	240	160	9.1 (23.1) dia.	5.1 (13)	—	10.2 (26) dia.	10.8 (27.4)	—	5.4	No	No	No	16.5 (7.5)	\$915.00
9319	120	285	11.8 (30)	5.9 (15)	6 (15.1)	14 (36)	10.3 (26)	7.5 (19)	5.75	Yes	Yes	Yes	11.0 (5.0)	\$764.00
9319-1	240	285	11.8 (30)	5.9 (15)	6 (15.1)	14 (36)	10.3 (26)	7.5 (19)	5.75	Yes	Yes	Yes	11.0 (5.0)	\$764.00
9308	120	160	19.9 (50.5)	5.4 (13.9)	3.4 (10)	22.2 (56.4)	8.5 (21.6)	7.9 (20)	6.9	No	Yes	No	12.1 (5.5)	\$967.00
9308-1	240	160	19.9 (50.5)	5.4 (13.9)	3.4 (10)	22.2 (56.4)	8.5 (21.6)	7.9 (20)	6.9	No	Yes	No	12.1 (5.5)	\$967.00
9309	120	160	11.8 (30)	5.9 (15)	9.4 (23.9)	15.5 (39.4)	14.6 (37.1)	10.8 (27.4)	9.5	No	No	No	14.0 (6.4)	\$946.00
9309-1	240	160	11.8 (30)	5.9 (15)	9.4 (23.9)	15.5 (39.4)	14.6 (37.1)	10.8 (27.4)	9.5	No	No	No	14.0 (6.4)	\$946.00
9310	120	560	11.8 (30)	5.9 (15)	9.4 (23.9)	15.5 (39.4)	14.6 (37.1)	10.8 (27.4)	9.5	Yes	No	No	14.5 (6.6)	\$1009.00
9310-1	240	560	11.8 (30)	5.9 (15)	9.4 (23.9)	15.5 (39.4)	14.6 (37.1)	10.8 (27.4)	9.5	Yes	No	No	14.5 (6.6)	\$1009.00
9311	120	320	11.8 (30)	7.9 (20.1)	9.4 (23.9)	17.6 (44.7)	15.7 (39.9)	11.4 (29)	12.75	No	Yes	No	17.0 (7.7)	\$1617.00
9311-1	240	320	11.8 (30)	7.9 (20.1)	9.4 (23.9)	17.6 (44.7)	15.7 (39.9)	11.4 (29)	12.75	No	Yes	No	17.0 (7.7)	\$1617.00
9312	120	720	11.8 (30)	7.9 (20.1)	9.4 (23.9)	17.6 (44.7)	15.7 (39.9)	11.4 (29)	12.75	Yes	Yes	No	17.6 (7.9)	\$1664.00
9312-1	240	720	11.8 (30)	7.9 (20.1)	9.4 (23.9)	17.6 (44.7)	15.7 (39.9)	11.4 (29)	12.75	Yes	Yes	No	17.6 (7.9)	\$1664.00
9313	120	1120	12.8 (32.6)	7.9 (20.1)	11.8 (30)	17.6 (44.7)	15.7 (39.9)	15.5 (39)	18	Yes	Yes	No	22.4 (10.2)	\$1560.00
9313-1	240	1120	12.8 (32.6)	7.9 (20.1)	11.8 (30)	17.6 (44.7)	15.7 (39.9)	15.5 (39)	18	Yes	Yes	No	22.4 (10.2)	\$1560.00
9314	120	320	19.9 (50.5)	7.9 (20.1)	11.8 (30)	23.9 (60.7)	15.7 (39.9)	15.9 (40.4)	28	No	Yes	No	29.5 (13.4)	\$1820.00
9314-1	240	320	19.9 (50.5)	7.9 (20.1)	11.8 (30)	23.9 (60.7)	15.7 (39.9)	15.9 (40.4)	28	No	Yes	No	29.5 (13.4)	\$1820.00
9315	120	1120	19.9 (50.5)	7.9 (20.1)	11.8 (30)	23.9 (60.7)	15.7 (39.9)	15.9 (40.4)	28	Yes	Yes	No	29.5 (13.4)	\$1898.00
9315-1	240	1120	19.9 (50.5)	7.9 (20.1)	11.8 (30)	23.9 (60.7)	15.7 (39.9)	15.9 (40.4)	28	Yes	Yes	No	29.5 (13.4)	\$1898.00
9316	120	1950	19.7 (50)	11.8 (30)	11.8 (30)	22.8 (58)	20.5 (52)	16.9 (43)	45	Yes	Yes	No	48.4 (22.1)	\$2943.00
9316-1	240	1950	19.7 (50)	11.8 (30)	11.8 (30)	22.8 (58)	20.5 (52)	16.9 (43)	45	Yes	Yes	No	48.4 (22.1)	\$2943.00

Water Baths

AQUAWAVE™ ULTRASONIC CLEANER ACCESSORIES

Harvey

Aquawave Accessories



ORDERING INFORMATION FOR BASKETS

Model #	Description	US List Price
9341	Stainless steel basket for 9300	\$31.00
9343	Hostalen* basket for 9301	\$14.00
9344	Stainless steel basket for 9301	\$31.00
9346	Hostalen* basket for 9302, 9303, 9331, 9320, 9321	\$20.00
9347	Stainless steel basket for 9302, 9303, 9331, 9320, 9321	\$38.00
9349	Stainless steel basket for 9306, 9307	\$45.00
9351	Stainless steel basket for 9309, 9310, 9323	\$112.00
9353	Stainless steel basket for 9311, 9312, 9333	\$112.00
9355	Stainless steel basket for 9313, 9334	\$123.00
9357	Stainless steel basket for 9314, 9315, 9335	\$142.00
9359	Stainless steel basket for 9316	\$218.00
9361	Stainless steel basket for 9305	\$74.00
9363	Stainless steel basket for 9308, 9322	\$123.00
9364	Hostalen* immersion basket for all models	\$6.00
9365	Stainless steel immersion basket for all models	\$25.00
9367	Stainless steel basket for 9318, 9319	\$112.00

*Hostalen is a long lasting plastic material.

ORDERING INFORMATION FOR LIDS

Model #	Description	US List Price
9342	Stainless steel lid for 9301	\$31.00
9345	Stainless steel lid for 9302, 9303, 9331, 9320, 9321	\$25.00
9348	Stainless steel lid for 9306, 9307	\$26.00
9350	Stainless steel lid for 9309, 9310, 9323	\$33.00
9352	Stainless steel lid for 9311, 9312, 9333	\$33.00
9354	Stainless steel lid for 9313, 9334	\$33.00
9356	Stainless steel lid for 9314, 9315, 9335	\$54.00
9358	Stainless steel lid for 9316	\$63.00
9360	Stainless steel lid for 9305	\$39.00
9362	Stainless steel lid for 9308, 9322	\$49.00
9366	Stainless steel lid for 9318, 9319	\$38.00

ORDERING INFORMATION FOR CLEANING SOLUTION

Model #	Description	US List Price
212021001	Micro 10 Cleaning Solution	\$36.00

Water Baths

DUBNOFF INCU-SHAKER

Lab-Line

Model 3576



THE METABOLIC SHAKING WATER BATH!

- — Solid-state speed controller
- — Reciprocating shaking motion
- — Durable ABS/PVC body construction
- ★ — 24 month warranty

PRODUCT DESCRIPTION

- Designed for applications that require a reciprocating shaking motion and a controlled temperature water bath.
- Assorted gassing hoods allow the exposure of samples to various gases.
- Solid-state speed controller adjusts from 40 to 160 oscillations per minute.
- Shaking tray slides 1-1/2" (3.8 cm) on bakelite guides that never need lubrication.
- LED temperature readout for visual clarity.
- Adjustable bath temperature from slightly above ambient to 65°C; 100°C with gassing hood.
- Energy-saving heat selector switch allows choice of temperature ranges.
- Chemically-resistant molded polyethylene body construction won't chip, rust or corrode.
- Model 3576 comes with an assortment of gassing hoods and two adjustable flow meters—ideal for studies requiring atmospheres other than ambient.

APPLICATION

- Analysis of CO₂ metabolism and much more.

PRODUCT SPECIFICATIONS

Model #	Chamber Dimensions Inches (cm)			Overall Dimensions (without flow meter) Inches (cm)			Shipping Weight Lb. (kg)
	W	H	D	W	H	D	
3576	16.5 (42)	4 (10)	11.5 (29)	17.25 (44)	10.5 (27)	39.75 (101)	54 (24)
3576-1	16.5 (42)	4 (10)	11.5 (29)	17.25 (44)	10.5 (27)	39.75 (101)	54 (24)
3578*	16.5 (42)	4 (10)	11.5 (29)	17.25 (44)	10.5 (27)	39.75 (101)	34 (15)
3578-1*	16.5 (42)	4 (10)	11.5 (29)	17.25 (44)	10.5 (27)	39.75 (101)	34 (15)

*Without gassing hoods or flow meters

ORDERING INFORMATION

Model #	Electrical (50/60 Hertz)			Operating Temp Range °C	Temp Control At 37°C (in flask)	Temp Uniformity At 37°C (in flask)	US List Price
	Volts	Amps	Watts				
3576	120	10.8	1300	amb.+5° to 60°C (100°C w/cover)	±0.5°C	±0.5°C	\$4363.00
3576-1	240	5.4	1300	amb.+5° to 60°C (100°C w/cover)	±0.5°C	±0.5°C	\$4862.00
3578*	120	10.8	1300	amb.+5° to 60°C (100°C w/cover)	±0.5°C	±0.5°C	\$3708.00
3578-1*	240	5.4	1300	amb.+5° to 60°C (100°C w/cover)	±0.5°C	±0.5°C	\$4290.00

*Without gassing hoods or flow meters

ACCESSORIES

Model #	Description	US List Price
3576-6	Platform for 25 ml Erlenmeyer Flask (capacity 30)	\$385.00
3576-7	Platform for 50 ml Erlenmeyer Flask (capacity 20)	\$385.00
3576-8	16 mm Test Tube Rack (capacity 48)	\$385.00

Water Baths

RECIPROCATING SHAKERS

Lab-Line

Model 3582



YOU HAVE MANY SHAKING OPTIONS!

- — Specially designed with low profile to conserve valuable bench space
- — Stainless steel universal trays
- — Adjustable stroke length
- ★ — 24 month warranty

PRODUCT DESCRIPTION

- Reciprocating Water Bath Shakers are designed for biochemical, chemical and microbiological applications that require a reciprocating shaking motion and a controlled water bath.
- Shaking stroke length is adjustable; from .5" (1.3 cm) to 1.5" (3.8 cm) in .25" (0.64 cm) increments.
- Shaker mechanism has an independent power switch, allowing unit to be used as a constant temperature water bath.
- Stainless steel universal trays ensure uniform temperature throughout the bath.
- Available platform insert accommodates many sizes of flask clamps.
- Optional gassing hood allows for non-ambient atmospheric applications.
- Model 3580 features a hydraulic thermostat control of temperature from slightly above ambient to 65°C (100°C with optional gable cover).
- Model 3582 features electronic temperature control from slightly above ambient to 65°C (100°C with optional gable cover) and easy-to-read LED temperature display.

APPLICATION

- Ideal for cell culture studies, bacterial studies, electrophoresis gel destaining, blood plasma thawing, microbiological studies, tissue flotations and hybridization.

PRODUCT SPECIFICATIONS

Model #	Chamber Dimensions Inches (cm)			Overall Dimensions Inches (cm)			Shipping Weight Lb. (kg)
	W	H	D	W	H	D	
3580	11.5 (29)	8 (20)	19.5 (49)	17.12 (43)	11.25 (29)	31 (79)	46 (21)
3580-1	11.5 (29)	8 (20)	19.5 (49)	17.12 (43)	11.25 (29)	31 (79)	46 (21)
3582	11.5 (29)	8 (20)	19.5 (49)	17.12 (43)	11.25 (29)	31 (79)	46 (21)
3582-1	11.5 (29)	8 (20)	19.5 (49)	17.12 (43)	11.25 (29)	31 (79)	46 (21)

ORDERING INFORMATION

Model #	Electrical (50/60 Hertz)			Operating Temp Range °C	Temp. Control At 37°C (in flask)	Temp. Uniformity At 37°C (in flask)	US List Price
	Volts	Amps	Watts				
3580	120	11.6	1400	amb.+5° to 65°C (100°C w/cover)	±0.5°C	±0.2°C	\$2465.00
3580-1	240	5.8	1400	amb.+5° to 65°C (100°C w/cover)	±0.5°C	±0.2°C	\$2538.00
3582	120	11.6	1400	amb.+5° to 65°C (100°C w/cover)	±0.1°C	±0.1°C	\$2954.00
3582-1	240	5.8	1400	amb.+5° to 65°C (100°C w/cover)	±0.1°C	±0.1°C	\$3026.00

ACCESSORIES

Model #	Description	US List Price
3582-33	Platform Insert	\$77.00
3582-35	Gassing Hood	\$255.00
3582-37	Cooling Coil	\$82.00
3582-39	Stainless Steel Gable Cover	\$244.00

Water Baths

DIGITAL RECIPROCATING SHAKERS

Lab-Line

Model 4682



FOR MAXIMUM CONTROL!

- — Low profile design conserves bench space
- — Digital set of all parameters; accurate microprocessor control
- — Non-volatile memory protects set points
- ★ — 24 month warranty

PRODUCT DESCRIPTION

- Provides reciprocating shaking motion with precise control of speed, temperature and time.
- Microprocessor shaking control is digitally set from 15 to 250 oscillations per minute, with adjustable stroke length from .5" (1.3 cm) to 1.5" (3.8 cm) in .25" (0.64 cm) increments.
- Digital temperature control from above ambient to 65°C (100°C with optional gable cover).
- Built-in memory retains set points in the event of power interruption; shaker automatically resumes operation once power is restored.
- Separate, easy-to-read LED displays of speed, temperature, and time.
- Visual and audible alarms indicate low water level or deviation in speed over set point.
- Locked rotor protection stops shaking motion if a blockage occurs, preventing motor damage.
- Seamless stainless steel chamber construction prevents leakage.
- Unique stainless steel universal trays ensure uniform temperature throughout bath.

APPLICATION

- Ideal for applications such as tissue, metabolic, enzymatic and cell studies.

Model 3582-33



PRODUCT SPECIFICATIONS

Model #	Chamber Dimensions Inches (cm)			Overall Dimensions Inches (cm)			Shipping Weight Lb. (kg)
	W	H	D	W	H	D	
4682	11.5(29)	8(20)	19.5(49)	17.12(43)	11.25(29)	31(79)	46(21)
4682-1	11.5(29)	8(20)	19.5(49)	17.12(43)	11.25(29)	31(79)	46(21)

ORDERING INFORMATION

Model #	Electrical (50/60 Hertz)			Operating Temp Range °C	Temp. Control At 37°C (in flask)	Temp. Uniformity At 37°C (in flask)	US List Price
	Volts	Amps	Watts				
4682	120	11.6	1400	amb.+5° to 65°C (100°C w/cover)	±0.1°C	±0.1°C	\$4545.00
4682-1	240	5.8	1400	amb.+5° to 65°C (100°C w/cover)	±0.1°C	±0.1°C	\$4545.00

ACCESSORIES

Model #	Description	US List Price
3582-33	Platform Insert	\$77.00
3582-35	Gassing Hood	\$255.00
3582-37	Cooling Coil	\$82.00
3582-39	Stainless Steel Gable Cover	\$244.00

Water Baths

ORBITAL SHAKERS

Lab-Line

Model 3540



OUR BEST SELLING SHAKERS!

- — Choose from dual hydraulic thermostat or microprocessor temperature control
- — Self-limiting heaters for built-in over-temperature protection
- — Designed for heavy duty continuous operation
- ★ — Lifetime warranty on drive mechanism

PRODUCT DESCRIPTION

- Ideal for applications that require a controlled temperature bath combined with orbital shaking motion.
- Primary hydraulic thermostat controls temperature from slightly above ambient to 65°C; second thermostat maintains temperature as a backup to the primary thermostat.
- Individual pilot lights indicate which thermostat is controlling bath temperature.
- Heat selector switch allows user to select maximum of 40°C or 64°C—saves energy and provides more precise control.
- Outer body construction is chemically-resistant polyethylene that will not chip, rust or corrode.
- Drawn stainless steel bath chamber construction eliminates leaks, rust and bacterial growth.
- Solid-state speed controller adjusts from 40 to 400 rpm.
- Mechanical timer can be set for up to 60 minutes or for continuous operation.
- Easy-to-read LED temperature display.
- Counterbalanced drive provides high speed shaking with minimal vibration— even under heavy loads.
- Model 3540 and 3545 are CSA certified.
- Model 3545 and 3545-1 have microprocessor temperature control.

PRODUCT SPECIFICATIONS



Model #	Chamber Dimensions Inches (cm)			Overall Dimensions Inches (cm)			Shipping Weight Lb. (kg)
	W	H	D	W	H	D	
3540	14 (36)	7.5 (19)	16 (41)	21.5 (55)	19.75 (50)	28.75 (73)	165 (75)
3540-1	14 (36)	7.5 (19)	16 (41)	21.5 (55)	19.75 (50)	28.75 (73)	165 (75)
3545	14 (36)	7.5 (19)	16 (41)	21.5 (55)	19.75 (50)	28.75 (73)	165 (75)
3545-1	14 (36)	7.5 (19)	16 (41)	21.5 (55)	19.75 (50)	28.75 (73)	165 (75)

ORDERING INFORMATION

Model #	Electrical (50/60 Hertz)			Operating Temp Range °C	Temp. Control At 37°C (in flask)	Temp. Uniformity At 37°C (in flask)	US List Price
	Volts	Amps	Watts				
3540	120	9.6	1150	amb.+5° to 65°C (100°C w/cover)	±0.5°C	±0.1°C	\$3546.00
3540-1	240	4.8	1150	amb.+5° to 65°C (100°C w/cover)	±0.5°C	±0.1°C	\$3728.00
3545	120	9.6	1150	amb.+5° to 65°C (100°C w/cover)	±0.1°C	±0.1°C	\$5018.00
3545-1	240	4.8	1150	amb.+5° to 65°C (100°C w/cover)	±0.1°C	±0.1°C	\$5210.00

ACCESSORIES*

Model	Description	US List Price
3545-30	Stainless Steel Gable Cover	\$291.00
3545-32	Plexiglass Gable Cover	\$291.00
3545-35	Plexiglass Gassing Hood	\$333.00
3545-37	Cooling Coil for Model 3545	\$146.00
3545-40	Four auxiliary platform suspension arms	\$146.00
3545-45	Moveable Dolly (5" H)	\$536.00
3545-48	Mobile Cart (24" H)	\$754.00
3540-50	Cooling Coil for Model 3540	\$146.00

* See Shaker Platforms in the Shaker Section.

Water Baths

DIGITAL ORBITAL SHAKERS

Lab-Line

Model 4645



THE ULTIMATE SHAKING WATER BATH!

- — PID microprocessor control
- — All parameters digitally set and displayed
- — Wide assortment of platforms for greater versatility
- ★ — Lifetime warranty on drive mechanism



PRODUCT DESCRIPTION

- Digital microprocessor control of temperature from just above ambient to 65°C (100°C with optional gable cover).
- Microprocessor digital control of speed from 15 to 500 rpm with ± 1 rpm control.
- Twin baffles in bath chamber minimize splashing.
- Built-in visual and audible alarms alert user to end of shaking cycle when temperature or speed deviates from set point, or if water level is low.
- Triple eccentric drive provides uniform, vibration-free shaking through a 1/2" (1.3 cm) orbit.
- Over-speed safety stops shaking motion if set point is exceeded.
- Microprocessor timer can be set from 0.1 minutes to 99.9 hours or for continuous shaking.
- Seamless, one-piece stainless steel bath has rounded corners for easy cleaning.
- Durable, chemically-resistant NORYL® outer body construction will not chip, rust or corrode.
- Locked rotor protection stops shaking motion if a blockage occurs—prevents motor damage.
- No exposed heating elements for increased safety

PRODUCT SPECIFICATIONS

Model #	Chamber Dimensions Inches (cm)			Overall Dimensions Inches (cm)			Shipping Weight Lb. (kg)
	W	H	D	W	H	D	
4645	14 (36)	7.5 (19)	16 (41)	21.5 (55)	19.75 (50)	28.75 (73)	165 (75)
4645-1	14 (36)	7.5 (19)	16 (41)	21.5 (55)	19.75 (50)	28.75 (73)	165 (75)

ORDERING INFORMATION

Model #	Electrical (50/60 Hertz)			Operating Temp Range °C	Temp. Control At 37°C (in flask)	Temp. Uniformity At 37°C (in flask)	US List Price
	Volts	Amps	Watts				
4645	120	9.6	1150	amb.+5° to 65°C (100°C w/cover)	$\pm 0.2^\circ\text{C}$	$\pm 0.1^\circ\text{C}$	\$5398.00
4645-1	240	4.8	1150	amb.+5° to 65°C (100°C w/cover)	$\pm 0.2^\circ\text{C}$	$\pm 0.1^\circ\text{C}$	\$5398.00

ACCESSORIES*

Model #	Description	US List Price
CC	Cooling Coil (factory installed)	\$5576.00
4645-30	Stainless Steel Gable Cover	\$180.00
4645-32	Plexiglass Gable Cover	\$255.00
4645-35	Plexiglass Gassing Hood	\$291.00
4645-40	Four Auxiliary Platform Suspension Arms	\$127.00
3545-45	Moveable Dolly (5" H)	\$536.00
3545-48	Mobile Cart (24")	\$754.00

Note: If a 4645 with cooling coil is required, order 4645CC.

* See Shaker platforms in the Shaker Section.

Water Baths

MAGNETIC STIRRER

Lab-Line

Model 1286



WHEN YOUR MULTI-STIRRER NEEDS TO TAKE A BATH!

- — Six independent stirring controls
- — Stirring speed adjustable from 50 to 1200 rpm
- — Individual pilot lights indicate which positions are being used
- ★ — 24 month warranty



PRODUCT DESCRIPTION

- Ideal for applications that require exact temperature control and precise stirring action.
- Mistral Six-Place Multi-Stirrer with Bath and Circulator has a clear acrylic bath body.
- Immersion circulator has heating range from 5°C above ambient to 70°C and fills one stirring position when using glassware larger than 250 ml.

ORDERING INFORMATION

Model #	Dimensions Inches (cm)			Bath Dimensions Inches (cm)			Shipping Weight Lb. (kg)
	W	H	D	W	H	D	
1286	18.5 (47)	7 (18)	14 (36)	19 (48.3)	7 (17.8)	13 (33)	20 (9)
1286-1	18.5 (47)	7 (18)	14 (36)	19(48.3)	7(17.8)	13(33)	20 (9)

ORDERING INFORMATION

Model #	Electrical (50/60 Hertz)			Temperature Range	Stirring Speed RPM*	US List Price
	Volts	Watts	Hz			
1286	120	1180	60	amb. +5° to 70°C	50-1200	\$2558.00
1286-1	240	1180	50	amb. +5° to 70°C	50-1200	\$2590.00

* Stirring speed will be affected by liquid viscosity, size of stirring bar used, vessel size, and the thickness of the bottom of the vessel.

Water Baths

DIGITAL, CIRCULATING

PMC

Stainless Steel & Acrylic Baths



DO IT ALL WITH THIS CIRCULATING BATH!

- — 50-step program memory
- — Built-in variable speed pump

ORDERING INFORMATION

Model	Electrical*			Bath Capacity Liters	Bath Opening Inches (cm)		Working Depth Inches (cm)	Overall Dimensions Inches (cm)			Shipping Weight Lb. (kg)	US List Price
	Volts	Amps	Watts		W	D		W	H	D		
Acrylic Baths with Circulator												
310A	120	9	1080	7	6.5 (16.5)	10 (25.4)	6.81 (17.3) to 7 (17.8)	7.25 (18.4)	13.75 (34.9)	16 (40.6)	22 (10.0)	\$1502.00
311A	120	9	1080	15	11.5 (29.2)	9.75 (24.8)	6.81 (17.3) to 7 (17.8)	12.31 (31.3)	13.75 (34.9)	15.63 (39.7)	29 (13.2)	\$1591.00
312A	120	9	1080	30	17 (43.2)	10 (25.4)	6.81 (17.3) to 7 (17.8)	18 (45.7)	75 (34.9)	22.38 (56.8)	35 (15.9)	\$1863.00
Acrylic Baths with Circulator and External Circulating Manifold Assembly												
320A	120	9	1080	7	6.5 (16.5)	10 (25.4)	6.81 (17.3) to 7 (17.8)	7.25 (18.4)	13.75 (34.9)	16 (40.6)	22 (10.0)	\$1623.00
321A	120	9	1080	15	11.5 (29.2)	9.75 (24.8)	6.81 (17.3) to 7 (17.8)	12.31 (31.3)	13.75 (34.9)	15.63 (39.7)	29 (13.2)	\$1789.00
322A	120	9	1080	30	17 (43.2)	10 (25.4)	6.81 (17.3) to 7 (17.8)	18 (45.7)	13.75 (34.9)	22.38 (56.8)	35 (15.9)	\$1938.00
Stainless Steel Baths with Circulator												
310S	120	9	1080	7	9.5 (24.1)	5.69 (14.5)	6.81 (17.3) to 7 (17.8)	11.51 (29.2)	13.75 (34.9)	14 (35.6)	20 (9.1)	\$1635.00
311S	120	9	1080	15	11.5 (29.2)	13.5 (34.3)	6.81 (17.3) to 7 (17.8)	13.5 (34.3)	13.75 (34.9)	22 (55.9)	27 (12.2)	\$1898.00
Stainless Steel Baths with Circulator and External Circulating Manifold Assembly												
320S	120	9	1080	7	9.5 (24.1)	5.69 (14.5)	6.81 (17.3) to 7 (17.8)	11.5 (29.2)	13.75 (34.9)	14 (35.6)	20 (9.1)	\$1766.00
321S	120	9	1080	15	11.5 (29.2)	13.5 (34.3)	6.81 (17.3) to 7 (17.8)	13.5 (34.3)	13.75 (34.9)	22 (55.9)	27 (12.2)	\$2019.00
Circulator Only												
301	Description Digital Programmable			Volts 120	Amps 9	Watts 1080	3.5 (8.9) to 6 (15.2)	4.5 (11.4)	12 (30.5)	5.5 (14.0)	9 (4.1)	\$1188.00
305	301 Unit with Universal Mounting Plate, Gasket and Clamp			120	9	1080	3.5 (8.9) to 6 (15.2)	5.5 (14)	12 (30.5)	7.0 (17.8)	27 (12.2)	\$1430.00

For 240 volts, 50/60 Hz units add "-2" to the part number (e.g. 301-2). For 240 volts model: Amps -5.01, Watts- 1202. Baths do not contain drain valves. All wetted parts are constructed of stainless steel and silicone to prevent corrosion.

PRODUCT DESCRIPTION

- Operating temperature range from ambient plus 5°C TO 120°C (65°C maximum for acrylic baths).
- Temperature readout to 0.1°C or 0.1°F. Digital display alternates between target and actual temperatures.
- PID temperature controller 100 ohm platinum RTD sensor provide excellent response to temperature changes. Temperature stability is $\pm 0.05^\circ\text{C}$ at 37°C. Built-in circulator pump allows uniformity of $\pm 0.1^\circ\text{C}$; accuracy of $\pm 0.15^\circ\text{C}$. (Actual test results on a Model 311S with cover.)
- Variable speed pump (0.5 to 8.5 liters/minute) circulates the bath fluid as gently as needed. Maximum pump pressure is 2.1 psi. The pump head swivels 360° to direct flow away from your samples.

ACCESSORIES

Model #	Description	US List Price
320-0201	Universal mounting plate, gasket and clamp	\$239.00
320-0216	External pumping manifold assembly	\$122.00

- Microprocessor-based circuitry and software provide programming options.
- Bath temperature can be ramped from 0.1°C/hr to 150°C/hr.
- Internal and external circulator applications (with optional manifold assembly).
- Auto-off function, safety alarm sounds when program error occurs, hot water indicator light flashes when water is over 50°C (122°F), low water level protection/alarm, shorted heater drive protection.