

## Lab-Line Ultrasonic Cleaners



# Analog Aquawave™



Model 9303

### 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 power.
- 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.

### Economical, Efficient Cleaning!

- Reliable, heavy duty transducers
- 26 models available, with tank sizes from 0.9 l to 45 l
- Stainless steel construction
- ☆ 24 Month Warranty

### How Ultrasonic Cleaners Work

Ultrasonic cleaners emit high-frequency sound waves in the cleaning chamber. These sound waves become alternating low- and high-pressure waves that create very small bubbles or cavities. As the bubbles burst, they gently scrub the surface of the item in the chamber. Conditions that can make your ultrasonic cleaner most effective include 1) ultrasonic cleaning solutions, 2) heat, and 3) degassing.

### Applications

- Lab glassware
- Scientific instruments
- Surgical and dental instruments
- PC boards
- Motors

## Lab-Line Ultrasonic Cleaners



### ORDERING INFORMATION

Model #	Volts	Electrical (50/60 Hz)		Tank Dimensions Inches (cm)			Overall Dimensions Inches (cm)			Capacity Liters/Gal	Heat	Drain	Lid Included	Shipping Weight Lb. (kg)	US List Price
		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)	0.9/2.5	No	No	Yes	2.6 (1.2)	\$226.00	
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)	0.9/2.5	No	No	Yes	2.6 (1.2)	\$226.00	
9301	120	50	5.9 (15)	3.9 (10)	5.4 (13.7)	6.9 (17.5)	8.5 (21.6)	6.7 (17)	1.9/0.5	No	No	No	5.5 (2.5)	\$311.00	
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)	1.9/0.5	No	No	No	5.5 (2.5)	\$311.00	
9304	120	100	5.9 (15)	3.9 (10)	5.4 (13.7)	6.9 (17.5)	8.5 (21.6)	6.7 (17)	1.9/0.5	Yes	No	Yes	5.5 (2.5)	\$354.00	
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)	1.9/0.5	Yes	No	Yes	5.5 (2.5)	\$354.00	
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)	2.8/7.5	No	No	No	6.6 (2.9)	\$426.00	
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)	2.8/7.5	No	No	No	6.6 (2.9)	\$426.00	
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)	2.8/7.5	Yes	No	No	7.0 (3.2)	\$492.00	
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)	2.8/7.5	Yes	No	No	7.0 (3.2)	\$492.00	
9320	120	45	9.4 (23.9)	3.9 (10)	5.4 (13.7)	10 (25.4)	8.5 (21.6)	6 (15.2)	2.8/7.5	No	No	Yes	6.0 (2.7)	\$394.00	
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)	2.8/7.5	No	No	Yes	6.0 (2.7)	\$394.00	
9321	120	265	9.4 (23.9)	3.9 (10)	5.4 (13.7)	10 (25.4)	8.5 (21.6)	6 (15.2)	2.8/7.5	Yes	No	Yes	6.0 (2.7)	\$443.00	
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)	2.8/7.5	Yes	No	Yes	6.0 (2.7)	\$443.00	
9306	120	160	9.4 (23.9)	5.9 (15)	5.4 (13.7)	11.8 (30)	10.4 (26.4)	7.1 (18)	4.4/1.15	No	No	No	9.0 (4.1)	\$677.00	
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)	4.4/1.15	No	No	No	9.0 (4.1)	\$677.00	
9307	120	360	9.4 (23.9)	5.9 (15)	5.4 (13.7)	11.8 (30)	10.4 (26.4)	7.1 (18)	4.4/1.15	Yes	No	No	9.7 (4.4)	\$714.00	
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)	4.4/1.15	Yes	No	No	9.7 (4.4)	\$714.00	
9305	120	160	9.1 (23.1) dia.	5.1 (13)	—	10.2 (26) dia.	10.8 (27.4)	—	5.5/1.45	No	No	No	16.5 (7.5)	\$729.00	
9305-1	240	160	9.1 (23.1) dia.	5.1 (13)	—	10.2 (26) dia.	10.8 (27.4)	—	5.5/1.45	No	No	No	16.5 (7.5)	\$729.00	
9319	120	285	11.8 (30)	5.9 (15)	6 (15.1)	14 (36)	10.3 (26)	7.5 (19)	5.7/1.5	Yes	Yes	Yes	11.0 (5.0)	\$763.00	
9319-1	240	285	11.8 (30)	5.9 (15)	6 (15.1)	14 (36)	10.3 (26)	7.5 (19)	5.7/1.5	Yes	Yes	Yes	11.0 (5.0)	\$763.00	
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)	7.0/1.85	No	Yes	No	12.1 (5.5)	\$955.00	
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)	7.0/1.85	No	Yes	No	12.1 (5.5)	\$955.00	
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)	9.5/2.5	No	Yes	No	14.0 (6.4)	\$905.00	
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)	9.5/2.5	No	Yes	No	14.0 (6.4)	\$905.00	
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)	9.5/2.5	Yes	Yes	No	14.5 (6.6)	\$954.00	
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)	9.5/2.5	Yes	Yes	No	14.5 (6.6)	\$954.00	
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)	12.3/3.25	No	Yes	No	17.0 (7.7)	\$1,099.00	
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)	12.3/3.25	No	Yes	No	17.0 (7.7)	\$1,099.00	
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)	12.3/3.25	Yes	Yes	No	17.6 (7.9)	\$1,254.00	
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)	12.3/3.25	Yes	Yes	No	17.6 (7.9)	\$1,254.00	
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)	18.0/4.75	Yes	Yes	No	22.4 (10.2)	\$1,574.00	
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)	18.0/4.75	Yes	Yes	No	22.4 (10.2)	\$1,574.00	
9314	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)	28.0/7.4	No	Yes	No	29.5 (13.4)	\$1,604.00	
9314-1	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)	28.0/7.4	No	Yes	No	29.5 (13.4)	\$1,604.00	
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)	28.0/7.4	Yes	Yes	No	29.5 (13.4)	\$1,692.00	
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)	28.0/7.4	Yes	Yes	No	29.5 (13.4)	\$1,692.00	
9316	120	1950	19.7 (50)	11.8 (30)	11.8 (30)	22.8 (58)	20.5 (52)	16.9 (43)	45.4/12	Yes	Yes	No	48.4 (22.1)	\$2,436.00	
9316-1	240	1950	19.7 (50)	11.8 (30)	11.8 (30)	22.8 (58)	20.5 (52)	16.9 (43)	45.4/12	Yes	Yes	No	48.4 (22.1)	\$2,436.00	