

INTRODUCING SWEEPZONE Ag[®] ULTRASONIC CLEANING WITH AgION[™] ANTIMICROBIAL-COATED STAINLESS STEEL – FROM L&R

L&R's new SweepZone Ag[®] Ultrasonic Cleaning Systems are constructed with revolutionary AgION[™] antimicrobial-coated stainless steel wrappers. We've combined the power of SweepZone Technology Ultrasonic Cleaning with the bacteria resistant coating of AgION to provide an added measure of cleanliness.

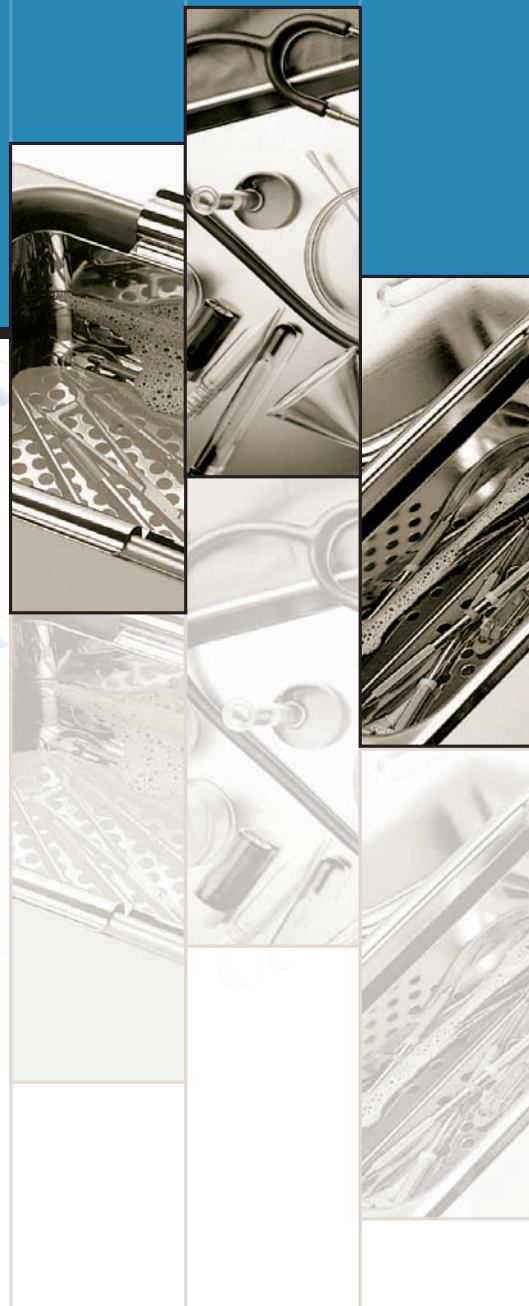
AgION is a patented antimicrobial coating that has been proven to suppress the growth and migration of bacteria. The AgION antimicrobial coating is an advanced inorganic material containing silver ions. Together they form a safe and natural antimicrobial barrier. The silver ions are slowly released from the antimicrobial compound to the surface of the treated steel. This release provides continuous antimicrobial protection.

FEATURES:

- *Antimicrobial-coated housing*
- *Fingerprint resistant*
- *Stain and rust resistant*
- *Durable, long-lasting*
- *Available in both tabletop and recessed models*
- *Full line of accessories available*
- *Drain included on all models*
- *Heater optional*

BENEFITS:

- *Provides a major line of defense in resisting the growth of destructive bacteria, mold and fungi*
- *Cleaner appearance and easier maintenance*
- *Corrosion resistant; extends longevity of the Ultrasonic Cleaning System*
- *SweepZone Technology provides more effective Ultrasonic Cleaning by eliminating hot spots and weak areas*



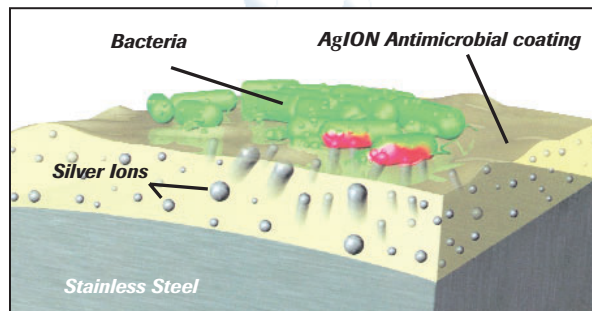
www.LRultrasonics.com
phone: 201-991-5330
fax: 201-991-5870
email: info@LRultrasonics.com

L&R Mfg. Co., 577 Elm Street, PO Box 607, Kearny, New Jersey 07032-0607 USA

L&R ULTRASONICS. YOUR GLOBAL SOURCE FOR ULTRASONIC CLEANING SYSTEMS.

WHY SWEEPZONE Ag® ?

AglON™ inhibits the growth of microbes through the release of silver (Ag) ions. When applied to the steel surface of the SweepZone Ag®, these ions are released from the coating to impede microbe growth on contact. As humidity increases and the environment becomes ideal for bacteria to grow, more silver is released—slowly and steadily. This controlled release of silver ions provides a continuous antimicrobial shield, keeping your equipment as clean and as safe as possible. It also helps your machines remain fingerprint and stain resistant.



L&R ULTRASONICS – SETTING THE STANDARD IN CLEAN.

The SweepZone Ag from L&R Ultrasonics is the world's first ultrasonic cleaning machine to incorporate AgION coating to prevent the growth of bacteria. Where there is potential for the growth of harmful microbes, your best defense is the SweepZone Ag.

Fingerprint resistant

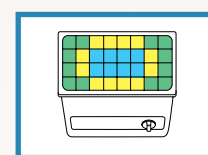
Uncoated

Coated

AgION antimicrobial-coated stainless steel offers superior fingerprint resistance compared to uncoated stainless steel.

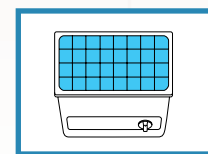
SWEEPZONE PERFORMANCE POWER

Automatically controlled frequency changes create an ultrasonic cleaning “grid” which literally “sweeps” through the entire tank, unlike the pattern created by traditional ultrasonic systems. The result is total cleaning, which means constant power and consistent output.



Traditional Ultrasonic System

Diminished cleaning power
Lowest cleaning power



SweepZone Ultrasonic System

Indicates areas of constant, intense cleaning power

DIMENSIONS AS OF JANUARY, 2004

Model	Description	Input 117 volt watts	Amps	Overall Dimensions inches & cm (L x W x H)	Tank Cap. qts & lt.	Tank Internal Dimensions inches & cm
Ag140	Timer and drain standard; heater optional; handles	100 with heat 155	0.85 1.33	10.25 x 6.5 x 8.25 26.0 x 16.5 x 21.0	3.375 3.2	9.375 x 5.375 x 4.0 23.8 x 13.7 x 10.2
Ag200	Timer and drain standard; heater optional; handles	100 with heat 155	0.85 1.33	12.5 x 7.0 x 8.25 31.75 x 17.8 x 21.0	4.25 4	11.75 x 6.0 x 4.0 29.8 x 15.2 x 10.2
Ag280	Timer and drain standard; heater optional	300 with heat 500	2.56 4.27	12.75 x 10.5 x 12.0 32.4 x 26.7 x 30.5	11 10.4	11.75 x 9.375 x 6.0 29.8 x 23.8 x 15.2
Ag310	Timer and drain standard; heater optional	400 with heat 600	3.42 5.12	16.5 x 10.0 x 12.0 41.9 x 25.4 x 30.5	13 12.3	15.5 x 9.0 x 6.0 39.4 x 22.9 x 15.2
Ag360	Timer and drain standard; heater optional	300 with heat 500	2.56 4.27	12.75 x 10.5 x 14.0 32.4 x 26.7 x 35.6	14.5 13.7	11.5 x 9.25 x 8.0 29.2 x 23.5 x 20.3
Ag650	Timer and drain standard; heater optional	500 with heat 900	4.27 7.69	21.75 x 14.0 x 12.5 55.25 x 35.6 x 31.75	26 24.6	19.75 x 11.75 x 6.5 50.2 x 29.8 x 16.5
Ag1000	Timer and drain standard; heater optional	500 with heat 1400	4.27 11.97	19.0 x 17.0 x 20.0 48.3 x 43.2 x 50.8	40 37.9	14.0 x 16.0 x 10.0 35.6 x 40.6 x 25.4
Ag150R	Timer and drain standard	100	0.85	Generator: 10.0 x 6.0 x 4.0 25.4 x 15.2 x 10.2	3.375 3.2	9.375 x 5.375 x 4.0 23.8 x 13.7 x 10.2
Ag310R	Timer and drain standard	400	3.42	Generator: 16.25 x 10.0 x 6.25 41.3 x 25.4 x 15.9	13 12.3	15.5 x 9.0 x 6.0 39.4 x 22.9 x 15.2
Ag360R	Timer and drain standard	300	2.56	Generator: 16.25 x 10.0 x 6.25 41.3 x 25.4 x 15.9	14.5 13.7	11.5 x 9.25 x 8.0 29.2 x 23.5 x 20.3
Ag650R	Timer and drain standard	500	4.27	Generator: 16.25 x 10.0 x 6.25 41.3 x 25.4 x 15.9	26 24.6	19.75 x 11.75 x 6.5 50.2 x 29.8 x 16.5

AG140, AG150R and AG200 operate at 45KHz, +/- 2KHz Sweep range with a Sweep rate of 3Hz. All other units operate at 43KHz, +/- 2KHz Sweep range at a Sweep rate of 83Hz.



WELCOME TO L&R MANUFACTURING CO.
YOUR GLOBAL SOURCE FOR ULTRASONIC CLEANING SYSTEMS

Ultrasonic Cleaning Systems

SweepZone® Ag

T E C H N O L O G Y



Our SweepZone technology uses "Smart Circuit," a custom-engineered electronic component that creates Constant Power Output (CPO) for consistent, uniform cleaning. This technology incorporates Pulse Width Modulation (PWM), which enables our SweepZone Ag Ultrasonic Cleaning Systems to sense cleaning loads, solution level and voltage fluctuations. What does that mean? Our SweepZone Ag cleaning systems automatically adjust to different conditions to create **uniform cleaning power—eliminating hot spots and weak areas.**

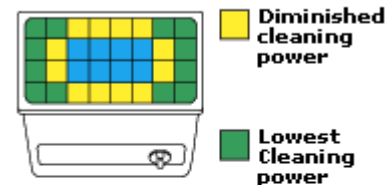
SweepZone Ag systems:

- Use a special cleaning wave of +/- 2KHz energy that sweeps back and forth through the tank
- Provide complete cavitation
- Provide aggressive cleaning action
- Are backed by our unprecedented 2 1/2 year warranty

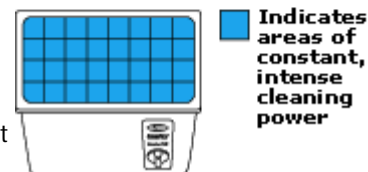
SweepZone Ag Performance

Automatically controlled frequency changes create an ultrasonic cleaning "grid" which literally "sweeps" through the entire tank, unlike the pattern created by traditional ultrasonic systems. The result is total cleaning, which means constant power and consistent output.

Traditional Ultrasonic System



SweepZone Ag Ultrasonic System



Ultrasonic Cleaning System

1 - 2.5 - 5 - 10 Year Limited Warranty

L&R Manufacturing Company warrants its products for a period anywhere from one to two and one half (2.5) years from date of purchase to be free of defects in material and workmanship. Machines will be repaired free of charge to the customer during the warranty period.

Further, product is under warranty for a period of five (5) years against manufacturing defects to the machines wrapper*. The bonding of the transducer to the tank is warranted for the period of ten (10) years.

The L&R warranty extends only to the first user / purchaser and is not otherwise assignable, nor transferable. This extensive warranty does not include damage or product failure resulting from misuse, abuse or transportation damage. Operating the machine dry is the most common misuse which results in failure. *Wrappers will be replaced for the cost of labor only.

Machines returned under terms of the warranty are to be sent freight prepaid to:
L&R Manufacturing Co., Foot of John Hay Avenue, Kearny, NJ 07032-3604 U.S.A.

Models Available w/ Steri-Source Enhanced upgrades: 360/360R

Model	Description All Units Include Stainless steel cover	Input Power Average watts 117 VAC 60 Hz	Output nominal frequency Sweep Range Sweep Rate	Overall Dimensions Inches & Centimeters L x W x H	Shipping Weight Pounds & Kilograms (Approx.)	Tank Capacity Quarts & Liters	Tank Internal Dimensions Inches & Centimeters L x W x D
Ag150R	Timer, drain standard.	95	45 KHz +/- 2KHz 3Hz	Generator 8-1/8 x 10-1/8 x 4 20.6 x 25.7 x 10.2	10 4.3	3-3/8 3.2	9-3/8 x 5-3/8 x 4 23.6 x 13.7 x 10.2
Ag200	Timer, drain standard. Heater optional.	95 165 w/heat	45 KHz +/- 2KHz 3Hz	12-5/8 x 6-7/8 x 8-1/4 32.1 x 1.5 x 21	12 5.3	4-1/4 4	11-3/4 x 6 x 4 29.8 x 15.2 x 10.2
Ag280	Timer, drain standard. Heater optional.	300 500 w/heat	43 KHz +/-2KHz 83Hz	12-5/8 x 10-3/8 x 11-1/8 32.1 x 26.4 x 28.3	21 9.3	11 10.4	11-3/4 x 9-3/8 x 6 29.8 x 23.8 x 15.2
Ag310	Timer, drain standard. Heater optional.	400 600 w/heat	43 KHz +/-2KHz 83Hz	16-1/2 x 10 x 12 41.9 x 25.4 x 30.5	26 11.7	13 12.3	15-1/2 x 9 x 6 39.4 x 22.9 x 15.2
Ag310R	Timer, drain standard.	400	43 KHz +/-2KHz 83Hz	Generator 12-1/8 x 16-1/4 x 6-1/4 30.8 x 41.3 x 15.9	26 11.7	13 12.3	15-1/2 x 9 x 6 39.4 x 22.9 x 15.2
<u>Ag360</u>	Timer, drain standard. Heater optional.	300 500 w/heat	43 KHz +/- 2KHz 83Hz	12-3/4 x 10-1/2 x 13-1/4 32.4 x 26.7 x 33.7	22 9.9	14- 1/2 13.6	11-1/2 x 9- 1/4 x 8 29.2 x 23.5 x 20.3
<u>Ag360R</u>	Timer, drain standard.	300	43 KHz +/- 2KHz 83Hz	Generator 12-1/8 x 16-1/4 x 6-1/4 30.8 x 41.3 x 15.9	22 9.9	14- 1/2 13.6	11-1/2 x 9- 1/4 x 8 29.2 x 23.5 x 20.3
Ag650	Timer, drain standard. Heater optional.	500 900 w/heat	43 KHz +/-2KHz 83Hz	21-3/4 x 13-3/4 x 13-1/2 55.2 x 34.9 x 35.7	38 17.2	26 24.6	19-3/4 x 11-3/4 x 6-1/2 50.2 x 29.8 x 16.5
Ag650R	Timer, drain standard.	500	43 KHz +/-2KHz 83Hz	Generator 19-3/4 x 11-3/4 x 6-1/2 50.2 x 29.8 x 16.5	38 17.2	26 24.6	19-3/4 x 11-3/4 x 6-1/2 50.2 x 29.8 x 16.5
Ag1000	Timer, drain and cover standard.	500	43 KHz +/-2KHz 83Hz	17 x 19 x 20 43.2 x 48.3 x 50.8	101 45.6	40 44.0	14 x 16 x 10 36.6 x 40.6 x 25.4

What is your Quality Assurance Program?

We put every machine through a series of rigorous tests, to insure that it meets or exceeds our rigid standards, which are the most stringent in the industry. Every new L&R machine is accompanied by the Quality Assurance Program seal, assuring you that it is worthy of the L&R name.

Our research and development team continuously seeks new and innovative ways to maximize the effectiveness of our machines, solutions and accessories, so we may provide you with the best products possible. Our goal is to remain in the forefront of the industry, by further advancing ultrasonic cleaning technology.

The L&R Quality Assurance Program and Research and Development effort are ways in which L&R works harder, to remain your choice for reliable, quality Ultrasonic Cleaning Systems.

