



# ULTRA™

## Model 2012LE

**Ultrasonic Immersion Vapor Degreasing System  
w/ Optional Automated Basket Handling System**

- Easy maintenance
- Spray wand for additional cleaning
- Excellent solvent containment & NESHAP Compliant
- Reduced Solvent & Operating Costs
- Small Foot-Print
- On Casters for mobility
- Compatible with variety of solvents
- 120% Freeboard

Manufactured in the USA by:

**Reliance**

Reliance Specialty Products, Inc.  
154 Easy Street, Carol Stream, IL 60188  
phone: 847.640.8923 Fax: 47.640.8974

DIMENSIONS	
Ultrasonic Cleaning Zone	20"L x 12"W x 12" Deep
Vapor Cleaning Zone	40"L x 12"W x 12" Deep
Boil Tank	20"L x 12"W
Footprint Dimensions (without casters)	56"L x 51"W x 50" High
FEATURES	
Ultrasonic Cleaning	500 Watts standard (option of 1000 Watts) of Ultrasonic Power. Field replaceable generator and transduc-
Vapor Cleaning	Vapor Cleaning Zone above Boil Tank and Ultrasonic Tank
Spray Cleaning	Hand Spray Wand and Large Spray Reserve Tank
Filtration of Ultrasonic Tank	Continuous Filtration
Boil Tank Access Door	"Easy Ring" Door System
Liquid Dip Tank Access Door	"Easy Ring" Door System
SOLVENT CONTAINMENT	
NESHAP Compliant Features	Yes
Primary Condensing Coil	Refrigerated Stainless Steel
Low-Temp Freeboard Condensation Coil	Refrigerated Finned Stainless Steel operating at -10F to -20F
Freeboard Ratio	120%
Horizontal Slide Lid	Manual
Watlow Solvent Safety and Temperature Controls	HTC, LTC, SVC, VU, RT and Low-Level Float
Monitoring Vapor Degreaser's Correct Operating Condition	Comprehensive Indicator Light System and Temperature Displays
AUTOMATED PART CLEANING	
BHE Automated Basket Handling Elevator	Yes—Optional
OPERATING REQUIREMENTS	
Solvent Operating Requirement	26 Gallons
Typical Electrical Service	208V or 240V / 1 Phase

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(847) 640-8923**

Doc. 2004-2



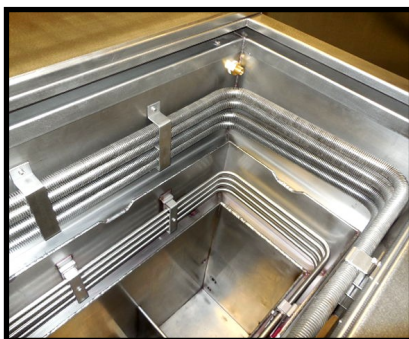
- **Reliability**
- **Simplicity**
- **Quality**

State-of-the-Art Cleaning Performance

## ULTRA 2012LE Low Emission Features



**Foot Activated Spray Lance System**



**Primary & Sub-Zero Coils running standard refrigerant**



**Simple Control Safety Panel**



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- **NESHAP COMPLIANT** — Vapor Degreasing System
- **Solid Stainless Steel Construction** — Heavy Gauge 304 Stainless Steel used on tank, water separator, spray reserve tank, primary coil, low-temperature coil, lid system, tank access doors and tank fittings.
- **Stainless Steel Primary Condensing Coil** —New Copeland refrigeration system operating with standard R134A refrigerant.
- **Sub-Zero Temperature Condensing Coil**—Finned stainless steel condensation coil with Copeland R404A refrigeration operating to approximately -20F thus broadening the height of the solvent flash-off dwell zone for enhanced solvent containment.
- **Foot Activated Spray Lance System** — Mag-drive pump with distillate spray reservoir with “Vapor Up Safety Control” which requires presence of vapor to permit operation of spray wand.
- **High Volume Condensate Water Separator** —feeding spray reservoir
- **Digital Display Safety Control Panel**— including HTC, LTC, SVC, VU, RT
- **Ultrasonic Cleaning Power**—500 Watts or (optional upgrade to 1000 watts).
- **Easy Ultrasonic Replacement**—Field Replaceable Generators and Transducers
- **Filtration of the Chamber.**
- **WATLOW Temperature Safety Limit Controls** —Digital display on Control Panel; temperature set point as well as actual temperature – SVC (Safety Vapor Control), HTC (High Temperature Control), LTC (Liquid Temperature Control) and RT (Refrigeration Temperature Control).
- **Low-Level Float Safety System**—Ensures the minimum amount of solvent in boil sump for proper system operation.
- **Comprehensive Indicator Light System on Control Panel**– Includes solvent low level float fault indicator lights (for easy identification of operating fault conditions). “Spray Ready” indicator light and zero coil “Defrost” indicator light, illuminated on/off switches for easy identification of system condition “Heat”, “Filtration”, Main Power”, “Refrigeration” and “Low-Temp Refrigeration”.
- **Horizontal Slide Lid**—for solvent containment. Optional power roll-top available.
- **Casters**—for easy movement.
- **Simple In & Out Electric Immersion Heater**—“Screw-In” Type Elements for easy replacement.
- **Two Sump Access Clean-Out Doors** — Boil Sump & Immersion Sump access for ease of maintenance though the clean-out door rather than over the tank top
- **One (1) stainless steel workbasket**
- **Comprehensive 1-Year Manufacturer’s Warranty**
- **ULTRA 2012LE Operator’s Manual**

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# ULTRA™

State-of-the-Art Cleaning Performance

## ULTRA 2012LE Benefits

- **Simple engineering** and stoutness of design for durability and ease-of-maintenance
- **Excellent training**— start-up, shut down, maintenance and good solvent cleaning work practices
- **Easy to support in the field** with accessible heating elements, clear temperature read-outs, sophisticated indicator light system, and updated refrigeration systems using standard refrigerant
- **Cost effective** operation and maintenance
- **Compact** footprint
- **Effective** with a variety of non-flammable solvents, including chlorinated, brominated & fluorinated
- **State-of-the-art** engineering based on a best practices for simplicity, field supportability and reliability
- **Minimal Solvent Emissions & Reduced Operating Costs** due to NESHAP compliant coils



**Optional Vertical Basket Handling System for loads up to 35 lbs.**



**ULTRA 2012 LE—Electrical Panel with sophisticated temperature display & indicator light system**

## Options

- Electric horizontal slide lid
- Additional baskets
- Solvent Containment Spill Tray
- Increased Ultrasonic Power
- Choice of vapor degreasing solvent including *EnTron*, *EnTron-Aero*, *GenTech* & *AeroTron*
- Automated Vertical Basket Handling System

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## Vapor Degreasing & Solvent Cleaning Experts

### ULTRA 2012LE: Compatible with Non-Flammable Solvents

- ◆ **Simple Change over** — The ULTRA 2012LE is engineered to be compatible with a variety of solvents and in most cases a simple clean out and change of temperature settings is all that is required.
- ◆ **120% Freeboard—helps with vapor containment**—so using chlorinated solvents like TCE, TCA, MCL and PERC is still possible.
- ◆ **Sub-Zero refrigeration coil**—in addition to the primary refrigeration system, makes using brominated solvents like *GenTech*, *EnTron* & *EnTron-Aero* or fluorinated solvents such as *AeroTron* an economical alternative.
- ◆ **Manual or Automated Slide-Lid**—provides additional solvent containment for the new generation of fluorinated solvents like *AeroTron* and helps reduce evaporation.



nPB Solvent for General  
Metal Finishing



Boeing Approved nPB Solvent



Fluorinated Solvent for Precision  
Vapor Degreasing

### Benefits of Working with Reliance: Manufacturer of Solvents & Equipment



- ◆ **Comprehensive Vapor Degreasing Solution Provider**— Reliance is the *only* industry player that manufactures *both* vapor degreasing solvent and vapor degreasing equipment. Our vapor degreasing equipment manufacturing expertise combined with our years of working with a variety of solvent cleaning processes make us able to support our customers in a variety of practical ways.
- ◆ **Years of experience.** A unique history of developing solvents and manufacturing vapor degreasing equipment for precision aerospace, electronics and optics customers.



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