

# ULTRA™

## Model 2424LE

### Ultrasonic Vapor Degreasing System w/Optional Automated Basket Handling System



- Easy maintenance
- Spray wand for additional cleaning
- Excellent solvent containment  
Low Emission NESHAP Compliant
- Reduced Solvent & Operating Costs
- Compatible with variety of solvents
- 120% Freeboard

Manufactured in the USA by:

**Reliance**

#### DIMENSIONS

<b>Ultrasonic Cleaning Tank</b>	<b>24"L x 24"W x 20" Deep</b>
<b>Vapor Cleaning Zone</b>	<b>49"L x 24"W x 20" Deep</b>
Boil Tank	24"L x 24"W
Footprint Dimensions	90"L x 80"W x 82" High

#### FEATURES

<b>Ultrasonic Cleaning</b>	1500 Watts of Power at 40 kHz Field replaceable components. Adjustable Power and Sweep.
<b>Vapor Cleaning</b>	Vapor Cleaning Zone above Boil Tank and Ultrasonic Tank
<b>Spray Cleaning</b>	Hand Spray Wand and Large Spray Reserve Tank
Filtration of Ultrasonic Tank	Continuous Filtration
Boil Tank Access Door	Large Access Door System
Spray Wand	Yes

#### 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	>100%
Horizontal Slide Lid	Manual or Automated
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

#### OPERATING REQUIREMENTS

Solvent Operating Requirement	96 Gallons
Typical Electrical Service	480V or 240V / 3 Phase

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**Please Call for a Price Quote  
(847) 640-8923**

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

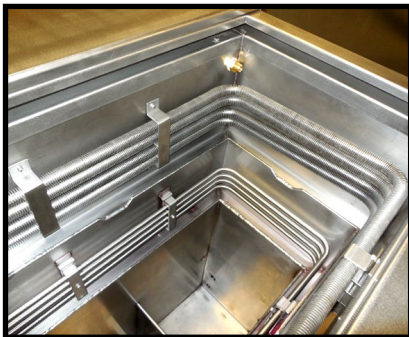
# ULTRA™

State-of-the-Art Cleaning Performance

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



**Hand Operated Spray Lance System**



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



**Simple Control Safety Panel**

**Reliance**

Specialty Products, Inc.

154 Easy Street, Carol Stream, IL 60188  
Phone: 847.640.8923 Fax: 847.640.8974

## ULTRA 2424LE Low Emission Features

- **NESHAP COMPLIANT** — Low-Emission Vapor Degreasing System
- **Solid Stainless Steel Construction** — 1/8" 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** — Requires chiller or facility chilled water.
- **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.
- **Hand-Operated 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
- **Ultrasonic Power** — 1500 Watts @ 40 kHz — field replaceable submersible transducers and plug in external ultrasonic generator for easy servicing. Provides for both Input adjustment & sweep frequency adjustment.
- **Ultrasonic Immersion Sump filtration** - recirculation system with mag-drive pump and pressure gauge for indicating when to replace filter.
- **Digital Display Safety Control Panel with WATLOW Temperature 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.
- **Water Flow Safety Control & Water Flow Temperature Control** — ensures proper interaction between chiller and vapor degreaser.
- **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** — with two sections that meet at the middle of the tank sliding to the left and sliding to the right. Optional power roll-top available.
- **Two-Level Heat** — for expedited start up and additional vapor condensation.
- **Electric Immersion Heat** — Elements are mounted on Clean-Out Door for easy removal and maintenance. Elements are 216L Stainless Steel
- **One (1) stainless steel workbasket**
- **Comprehensive 1-Year Manufacturer's Warranty**
- **ULTRA 2424E Operator's Manual**

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# ULTRA™

State-of-the-Art Cleaning Performance

## ULTRA 2424LE 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



**ULTRA — Profile with ultrasonics, filtration, Control Panel Display System, & easy access clean-out door**



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

## Options

- Electric horizontal slide lid
- Power Pump-Out of Boil and/or Immersion Chamber for easy removal of solvent
- Stainless Steel Basket Crash Guards
- Solvent Containment Spill Tray
- Increased Ultrasonic Power
- Boil Sump Filtration
- Boil Chamber Grate to suspend part basket above boiling solvent
- Upgraded Filtration System for high volume of contaminate
- Additional baskets
- Choice of vapor degreasing solvent including EnTron, EnTron-Aero, GenTech & AeroTron

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## Vapor Degreasing & Solvent Cleaning Experts

### ULTRA 2424LE: Compatible with Non-Flammable Solvents

- ◆ **Simple Change over** — The ULTRA 2424LE 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.
- ◆ **>100% 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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