



ULTRA™

Model VS-3LE (2424)

Vapor & Spray System

- Easy maintenance
- Spray wand for additional cleaning
- Excellent solvent containment
Low Emission NESHAP Compliant
- Reduced Solvent & Operating Costs
- Compatible with variety of solvents
- Customizable vapor zone depths & widths
- >100% Freeboard

Manufactured in the USA by:



DIMENSIONS

Vapor Cleaning Zone	36"L x 24"W x 24" Deep
Optional Vapor Zone Widths	24", 30", 36", 42", or 48" Wide
Optional Vapor Zone Depths	24", 30", 36", 42", or 48" Deep
Footprint Dimensions	56"L x 72"W x 66" High (with feet)

FEATURES

Vapor Cleaning	Vapor Cleaning Zone above Boil Tank and Ultrasonic Tank
Spray Cleaning	Hand Spray Wand and Large Spray Reserve Tank
Filtration of Boil Tank	Optional Filtration
Boil Tank Access Door	Large Access Door System
Spray Wand	Yes; <i>Optional</i> Spray Manifolds

SOLVENT CONTAINMENT

NESHAP Compliant Features	Yes
Primary Condensing Coil	(External Chilled) 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	35 Gallons
Typical Electrical Service	480V, 240V or 208V / 3 Phase

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**Please Call for a Price Quote
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- **Reliability**
- **Simplicity**
- **Quality**

State-of-the-Art Cleaning Performance

ULTRA VS-3 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
- **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**—optional two-part lid with 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.
- **One (1) stainless steel workbasket**
- **Comprehensive 1-Year Manufacturer's Warranty**
- **ULTRA VS Operator's Manual**



Simple Control Safety Panel



Hand Operated Spray Lance System



Sub-Zero Coils Operating at -20F for enhanced containment



Heating Elements Mounted on Clean-Out Door

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State-of-the-Art Cleaning Performance

ULTRA VS-3LE 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 VS with chiller

Options

- Electric horizontal slide lid
- Increased width or depth increases vapor zone
- Spray Manifolds
- Power Pump-Out of Boil and/or Immersion Chamber for easy removal of solvent
- Stainless Steel Basket Crash Guards
- Solvent Containment Spill Tray
- 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*



ULTRA Model VS Electrical Panel with sophisticated temperature display & indicator light system

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Vapor Degreasing & Solvent Cleaning Experts

ULTRA VS Systems are Compatible with Non-Flammable Solvents

- ◆ **Simple Change over** — The ULTRA Model VS Degreasers are 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 and NESHAP Compliant Features** — *helps with vapor containment*—so using chlorinated solvents like TCE, MC 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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