



ULTRA™

- Reliability
- Simplicity
- Quality

ULTRA 1212LE VS. B452R

FIELD SERVICEABILITY & MAINTENANCE

	ULTRA 1212LE	B452R
Sump Access Doors	Boil and immersion sump access doors with clamp-style closure for easy tank cleanout.	No access doors make sumps hard to reach and tank cleanouts difficult.
Heating Elements	2" NPT threaded heating elements for easy, leak-proof installation from outside of the tank.	Bulkhead-style heating element requires working inside the tank for installation and relies on multiple gasket seals for leak prevention.
Power Drain	Power drain option for safer, faster, and easier removal of spent boil sump solvent.	Manual boil sump drain port increases solvent handling and maintenance time.
Filtration	Outwardly visible cartridge-style housing, pump, and plumbing with integral pressure gauge facilitates easy system monitoring and filter changes.	Bag-style housing mounted inside the machine cabinet makes system monitoring difficult. Absence of a pressure gauge causes guesswork for filter changes.
Electrical	Simple panel designed with serviceability in mind. Readily available, easily replaceable components reduce repair costs and minimize downtime.	Design is dependent on costly parts and proprietary printed circuit boards.

The ULTRA1212LE: A Powerful B452R Replacement

CONSTRUCTION & DESIGN

	ULTRA 1212LE	B452R
Ultrasonic Immersion Working Dimensions	12" W x 12" L x 10" D	12" W x 10" L x 8" D
Vapor Zone Working Dimensions	12" W x 25" L x 10" D	12" W x 21" L x 8" D
Tank Construction	Robust 11 gauge, 304 stainless steel construction with inside and outside welds on all seams and fittings offers long-lasting strength and durability.	Flimsy 16 gauge stainless steel construction with single welded seams and fittings means leaks are more likely.
Coil Construction	Finned, continuous tube, 304 Stainless Steel low-temperature coil means no corrosion or leaking.	Finned, soldered elbow, plated copper low-temperature coil is prone to oxidation and leaking.
Spray System	Dedicated, modular spray tank for increased solvent capacity. Easy to remove and replace tank.	Spray solvent pumped directly from water separator, reducing spray capacity with the additional danger of water contamination.
Water Separator	Modular water separator for simple cleaning, removal, or replacement.	Tank-integrated water separator makes cleaning difficult, and is not removable or replaceable.
Ultrasonics	Self-contained, submersible transducer for simple field replacement. Outboard, plug-in generator with full sweep adjustment of power intensity and frequency modulation gives ultimate control.	Under-tank mounted, hard to access transducers make repairs difficult and intrusive. Dependent on an integrated generator board with no user adjustability.

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OPERATION		
	ULTRA 1212LE	B452R
Temperature & Safety Limit Controls	Five dedicated digital controllers grant broad control with system-wide, real-time temperature and setpoint data. Simple interface makes setup and adjustment quick and easy for a wide variety of solvents. Operator lockout prevents inadvertent or unauthorized adjustments.	Single, shared display shows boil sump or immersion sump solvent temperature only. Cumbersome adjustment and lack of setpoint control make proper setup difficult for low boil point, fluorinated solvents.
Operator Interface	Illuminated, physical switches with mechanical contacts provide reliable, intuitive operation coupled with easy replacement or repair. Comprehensive, color-coded neon indicator lights show current system status at a glance.	Tactile membrane switches are prone to wear and are not field serviceable. Single color, circuit board-mounted indicator lights give limited, hard to read feedback.
Idle Mode	Adjustable digital thermostatic control of low-temperature refrigeration system saves energy while maximizing solvent containment in any work environment.	Manual on/off only control of low-temperature refrigeration means choosing between efficiency and solvent loss.
Automation	Features a password protected, color touch-screen display with automatic and manual control modes. Up to 20 complex recipes, including variable dwell times and timed ultrasonic on/off. Vapor Up ensures cycles run in the presence of vapor. A top-mounted light stack indicates cycle status from a distance.	Monochrome LCD display and storage limited to 5 selectable recipes. PLC mode selections limit manual system controls.

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