

## Branson 3SLE Ultrasonic Solvent Degreaser



Stock No	<a href="#">DX1246</a>
Manufacturer	<a href="#">Branson</a>
Model	3SLE
Year of Manufacture	2010
Serial	Y00396
Condition	Seen working by RSW, Excellent Condition
Work Envelope (WxDxH mm)	Internal basket size 590 x 270 x 330
Process Stages	3
Other Info	Only used sparingly in light industry
Location	Our Central Warehouse, Aldridge, UK
External Dimensions (WxDxH mm)	4700 x 930 x 2650

### Description

This pre owned special 3 bath Branson 3SLE Solvent system offers high precision cleaning with the ability to deal with heavy levels of contamination.

Branson 3SLE three-stage systems provide ultrasonic immersed cleaning using HFE (hydrofluoroether) or HFC (hydrofluoro-carbon) solvents, followed by vapour rinsing and freeboard drying.

**Typical applications include;-**

## Engineering

Bearings, gyro components and precision medical components; maintenance cleaning of pneumatic and hydraulic components;

## Electronics

Flux removal from PCBs or from soldering jigs and fixtures.

With the additional third tank still in this system, large quantities of dirt and oils can be taken up by the solvating agent, making the process particularly suitable for heavy duty ultrasonic cleaning applications such as the removal of polishing compounds, maintenance cleaning of power generation system components, and flux removal from PCBs, including no-clean and lead-free solder flux residues.

## Machines general layout:

### Tank 1:

Still unit to concentrate and trap the contamination from tank 2, generates the vapour phase blanket across all the stages of the machine and provides the level control and auto top-up of the system.

### Tank 2:

Branson Series 7000, 1080 Watt ultrasonic immersion cleaning tank for the removal of gross contamination and dirt.

### Tank 3:

Branson 3SLE Solvent system Provides a heated solvent rinse station to remove any residual chemistry from the main cleaning tank in stage 2

## The Branson 3SLE Solvent system

Automation of the ultrasonic cleaning process is governed through the inbuilt Siemens S7 PLC system and HMI operator panel which reduces running costs with solvent systems by assuring consistent, repeatable quality, reducing reject rates, and increasing throughput.

With automated systems further cost reductions result from controlling the speed of the baskets entry and withdrawal from the vapour zone, thus reducing solvent drag-out and losses to atmosphere caused by any disturbance of the vapour blanket.

## Features unique to Branson 3SLE systems include:

- Triple coil reflux cooling, The primary dual 8°C cooling coils dampen and condense the vapour blanket returning the distilled clean solvent to the rinse tank, whilst the secondary - 25°C circuit acts as a stop all to prevent any escape of the solvent for the system.
- Twin Pneumatic lift tables to present the basket to the roller track on the machines top for ease of loading.
- Twin sliding sealing lids, for when the machine is not in use.

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*Machine Datasheet*



- Quantity of large capacity 590 x 270 x 330 baskets.
- High level status indicator lights for remote viewing.
- Vapour break, 150% freeboard area.
- Refrigerated gravity solvent water separator
- Solvent level monitoring with low level protection
- Pumped filtration and draining facilities.
- Large clean-out sump door to still tank.
- Heavy duty operator work platform with safety handrail
- Full length basket return conveyor
- Full length stainless steel bund tray

These enhanced features ensure that the system is safe to use and fully compliant with environmental and safety legislation including the Solvent Emissions Directive (SED). These design features also mean that the **Branson 3SLE system** operates with low, predictable solvent usage and customers can enjoy low, predictable running costs.

**Photographs taken prior refurbishment. Our refurbishment service is not available on all machines.**



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