



## Ultrasonic Vapor Degreasers

### OVERVIEW:

Emerson is the global leader in solvent cleaning technology through our portfolio of Branson products. The Branson B-Series Ultrasonic Vapor Degreasers are a series of environmentally sound, cost effective, precision degreasers.

The B-Series integrates decades of degreasing experience with the demanding needs of a changing marketplace, offering a functional solvent solution to meet your cleaning needs. The B-Series incorporates important environmental and safety features including onboard compressors for both primary and sub-zero cooling. The B-Series is ideal for use with most commercially-available vapor degreasing safety solvents.

### KEY FEATURES:

The B-Series is designed to comply with EPA environmental regulations on solvent emissions, an important environmental and economic consideration. Some of these features also facilitate OSHA compliance. Standard units include a number of engineered improvements designed specifically to minimize solvent losses.

- **Freeboard ratio of 100%** to minimize diffusion losses due to drafts
- **Sub-zero freeboard condenser** to provide a cold barrier minimizing emissions
- **Primary refrigerated condensing coil** to efficiently condense the bulk of the solvent vapors prior to reaching the sub-zero condenser
- **Captured sliding cover** to eliminate drafts and minimize solvent loss during periods of inactivity
- **Internal water separator** keeps all solvent within the unit at all times
- **Recirculating pump and filter** to remove particulate and extend solvent life

### SAFETY FEATURES:

In addition to the benefits associated with keeping solvent away from the operator, the B-Series has many other features which contribute to safety and reliability. Key among these are:

- **High-vapor level sensor** to prevent solvent loss
- **Low solvent sensor** to prevent heater damage
- **Boil sump** over temperature alarm

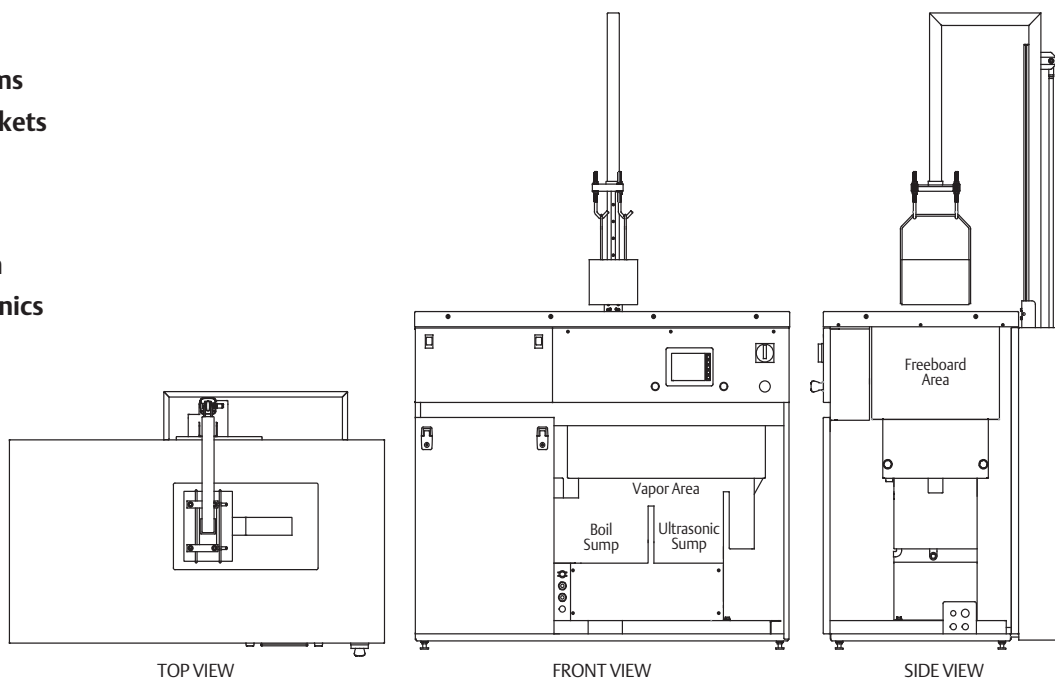
**STANDARD OPTIONS:**

- Automated Hoist Systems
- Stainless Steel Parts Baskets

**CUSTOM OPTIONS:**

- Rotating Parts Baskets
- Upper Enclosure System
- High-Frequency Ultrasonics

The system shown is the B452P with the optional dual-axis lift. While there are slight differences between each model, this drawing is representative of the basic system layout.

**SPECIFICATIONS**

|                            | MODEL B352R           | MODEL B452P           | MODEL B950P           | MODEL B1950R             | MODEL B3550R             |
|----------------------------|-----------------------|-----------------------|-----------------------|--------------------------|--------------------------|
| <b>Working Dimensions</b>  | 8" x 10" x 6"D        | 10" x 12" x 8"D       | 12" x 16" x 12"D      | 16" x 20" x 14.5"D       | 20" x 24" x 17"D         |
| <b>Boil Sump Heat</b>      | 1200 W strip heat     | 2000 W immersion heat | 4000 W immersion heat | 8000 W immersion heat    | 14000 W immersion heat   |
| <b>Ultrasonic Heat</b>     | N/A                   | 400 W                 | 800 W                 | 1500 W                   | 2000 W                   |
| <b>Ultrasonics*</b>        | 40 kHz                | 40 kHz                | 40 kHz                | 40 kHz                   | 40 kHz                   |
| <b>Distillation Rate**</b> | 4 gph                 | 7 gph                 | 14 gph                | 28 gph                   | 49 gph                   |
| <b>Recirculation</b>       | 1 gpm                 | 1 gpm                 | 2 gpm                 | 4 gpm                    | 6 gpm                    |
| <b>Load Capacity**</b>     | 100 lbs. steel/hour   | 200 lbs. steel/hour   | 400 lbs. steel/hour   | 800 lbs. steel/hour      | 1400 lbs. steel/hour     |
| <b>Vapor Zone</b>          | 23.7" x 13" x 7"D     | 28.7" x 15" x 8.5"D   | 32.7" x 19" x 12"D    | 40.7" x 23" x 14.5"D     | 48.7" x 27" x 17"D       |
| <b>Solvent Capacity</b>    | 5.1 gallons           | 9.2 gallons           | 26 gallons            | 50 gallons               | 82 gallons               |
| <b>Overall Dimensions</b>  | 40" x 31" x 47"H      | 55" x 28.5" x 46"H    | 65" x 32.5" x 49"H    | 88" x 36.5" x 59"H       | 110" x 40.5" x 68"H      |
| <b>Input Power</b>         | 208 or 230V, 1Ph, 20A | 208 or 230V, 3Ph, 27A | 208 or 230V, 3Ph, 39A | 208 or 230V, 3Ph, 66A*** | 208 or 230V, 3Ph, 90A*** |
| <b>Shipping Weight</b>     | 500 lbs. with pallet  | 550 lbs. with pallet  | 1100 lbs. with pallet | 1150 lbs. with pallet    | 1800 lbs. with pallet    |

\*Higher frequencies available upon request. \*\*Based on HFE and HFC solvents. \*\*\*460V 3P available.

**Americas**

Branson Ultrasonics Corp.  
41 Eagle Road  
Danbury, CT 06813-1961  
T: 203-796-0400  
F: 203-796-9838  
[www.Emerson.com/Branson](http://www.Emerson.com/Branson)

**Europe**

Branson Ultraschall  
Niederlassung der Emerson  
Technologies GmbH & Co. OHG  
Waldstrasse 53-55  
63128 Dietzenbach, Germany  
T: +49-6074-497-0  
F: +49-6074-497-199  
[www.Emerson.com/Branson](http://www.Emerson.com/Branson)

**Asia**

Branson Ultrasonics (Shanghai) Co., Ltd.  
758 Rong Le Dong Road  
Song Jiang, Shanghai, PRC, 201613  
T: 86-21-3781-0588  
F: 86-21-5774-5100  
[www.Emerson.com/Branson](http://www.Emerson.com/Branson)