

Ultrasonic Cleaning



OMNI 1620P Aqueous Cleaning System

OVERVIEW

Emerson's Branson OMNI 1620P aqueous cleaning system is a fully-configured ultrasonic cleaning and rinsing system with a built-in dryer. The equipment incorporates quality workmanship and materials without including unnecessary extras.

The OMNI 1620P offers a full range of hard-working features, while occupying only a fraction of the floor space of comparable systems. The system is pre-configured with all the popular features for quick delivery.

KEY FEATURES

- **PLC control and touchscreen interface** offer added functionality including independent control of key set points for each chamber
- **Ergonomic design and space-efficient footprint**
- **Enhanced protection** of process parameter settings through secured password features
- **Safe, convenient control interface** includes lockable main power disconnect switch
- **Enhanced durability and lifespan** with 316L stainless steel tanks
- **Extended cleaning bath life** with standard pump and filter
- **Ease of maintenance** through simplified access to routine maintenance components
- **Fluid spill containment** through recessed work surface
- **Automation interface port** for transport systems (i.e. Branson TDR)
- **Hinged power cover** for dryer

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THE PROCESS

Cleaning: Precision cleaning is accomplished in the first chamber. This chamber is equipped with Branson Series 8300 industrial 40 kHz ultrasonic components and thermostatically-controlled heat. A recirculating pump and filter system to continuously remove particulate material is standard.

Rinsing: The OMNI 1620P includes two heated rinse tanks in a cascade arrangement. Rinse water overflows from tank three into tank two. This counter-flowing feature provides excellent rinsing while substantially reducing water consumption. The first tank of rinsing process includes ultrasonic components as standard to assure that all soils and cleaning chemistry are driven from blind holes and crevices before the dry cycle.

Drying: The drying station utilizes both elevated temperature and rapid air movement to produce dry parts. The chamber is furnished with a 3" vent duct to facilitate moist air removal.

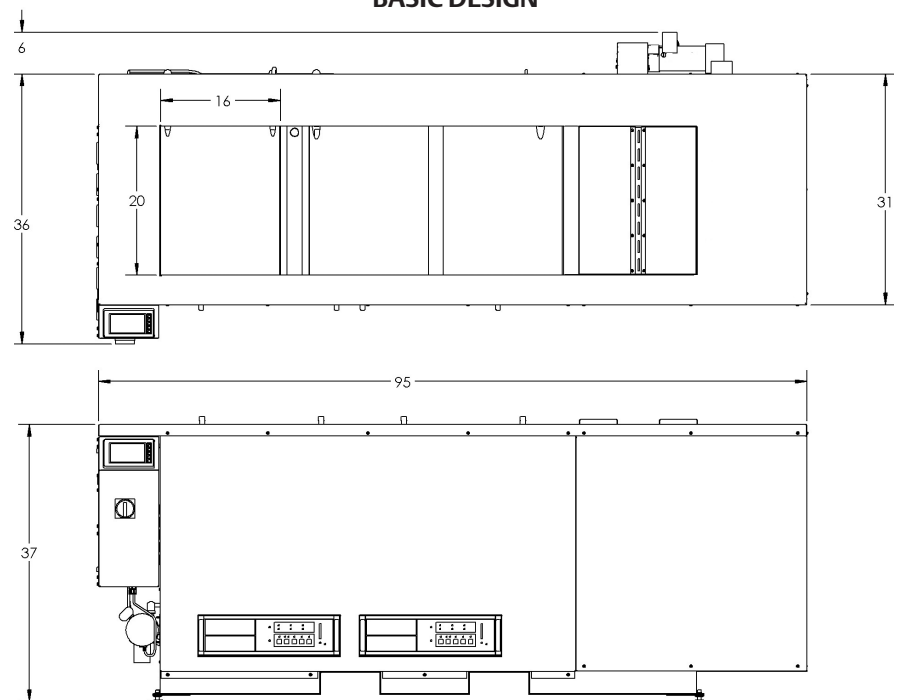
OPTIONS

- Wash Tank Surface Sparger
- Oil Removal Package (Coalescer, Ultrafiltration)
- DI Water Heater
- DI Water Treatment System
- Automated Material Handling (TDR)
- Rotating Baskets

SPECIFICATIONS

| | |
|---------------------------|--------------------------------|
| Working tank size | 16" x 20" x 16" D |
| Process tank material | 316L bright annealed |
| Drain sizes | 3/4" NPT |
| Cleaning tank temperature | Ambient to 160° F |
| Recirculation flow rate | 1-3 GPM |
| Filter retention | 10 microns |
| Ultrasonic output | 1,000 watts/tanks |
| Dryer heat | 6,000 watts |
| Dryer airflow | 550 cfm |
| Dryer temperature | 250° F maximum |
| Input voltage | 208-230V, AC, 47 amps, 3 phase |

BASIC DESIGN



NOTE: Dimensions are in inches.

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