

Ultrasonic Cleaning

OMNI 1012 Cleaning System



The OMNI 1012 cleaning system by Branson 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 1012 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.

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 1012 includes two rinse chambers in a cascade arrangement. Rinse water overflows from chamber three into chamber two. This counter-flowing feature provides excellent rinsing while substantially reducing water consumption. Chamber two 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 chamber 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.

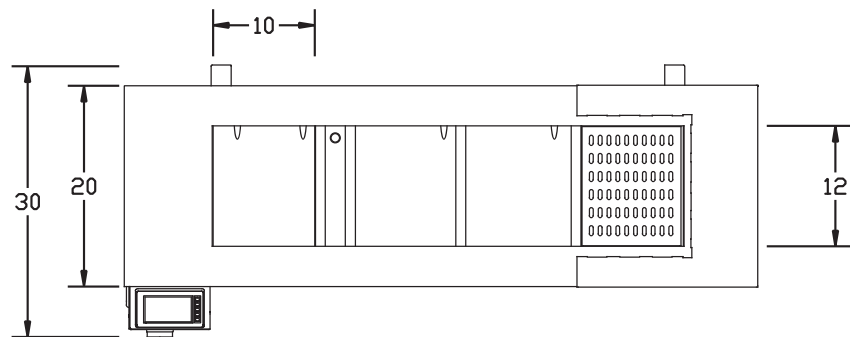
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FEATURES & BENEFITS

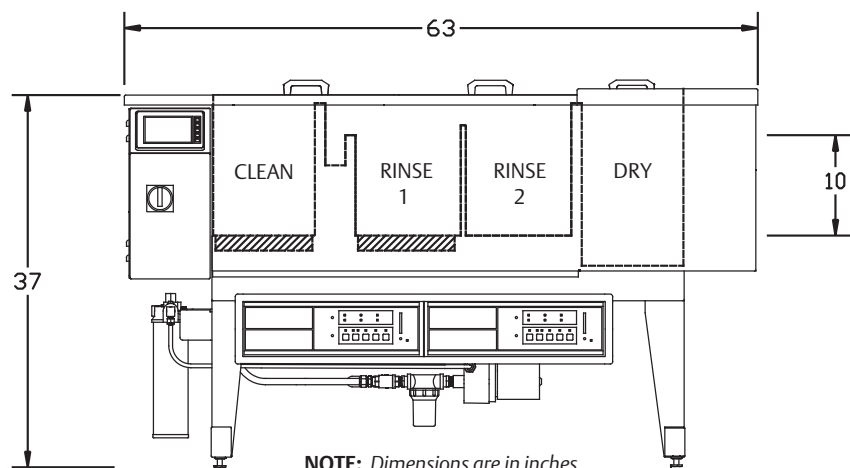
- **Convenient user friendly interface** – PLC control for added functionality, reliability, and safety including a touch screen for user convenience. Allows for independent control of key set points for each chamber.
- **Branson S8000 series generators** – Both ultrasonic tanks (wash and first rinse) are powered by two integrated S8340 ultrasonic generators as standard. Its auto-tuning, line/load regulation, and sweep frequency features provide precise control of critical ultrasonic cleaning performance.
- **Small footprint and convenient working height design** – The power supplies are integrated to save floor space. The design facilitates ease of operation.
- **Lockable protection for process parameter setting** – Allows all dwell times and temperature settings to be secured by password.
- **Low voltage controls for safety** – 24VDC controls and a lockable main power disconnect switch are included.
- **316L stainless steel tanks** – For maximum durability and lifespan.
- **Standard pump and filter** – Extend cleaning bath life
- **Ease of maintenance** – Easy access to routine maintenance components

Specifications

Working tank size:	10" L x 12" W x 10" D
Drain sizes:	1/2" NPT
Cleaning tank temperature:	Ambient to 160° F
Recirculation flow rate:	1-3 GPM
Filter retention:	10 microns
Ultrasonic output:	500 watts/tanks
Dryer heat:	3,000 watts
Dryer airflow:	50 cfm
Dryer temperature:	230° F maximum
Input voltage:	280/230 Volt, single phase 60 Hz



Basic Design



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