



Aquafier Water Purification System

GENERAL DESCRIPTION

The Branson *Aquafier* is an economical treatment system that recycles rinse-water from various cleaning processes. This closed-loop water purification system is specifically designed to continuously purify rinsewater from aqueous and semi-aqueous based cleaning systems. Collected water is circulated through a series of customer supplied carbon and resin exchange beds to supply recycled, high purity, deionized water at point of use. It can also be used as a single pass deionized (DI) water source.

The *Aquafier* is a compact, fully-configured industrial water purification system. It incorporates all of the elements necessary to produce high quality rinse-water at a rate of up to 5 gpm. Following the receiver reservoir and pre-filter are the customer supplied media beds. A series of carbon, anodic, and cathodic resins are selected based on your application. Resins are contained in pre-packaged beds for easy replacement by plant maintenance personnel or subcontracted resin regeneration companies.

PROCESS CONTROL

Process control and monitoring is an important part of any water treatment

system. The *Aquafier* includes liquid level controls in the reservoir, flow control valve, back pressure regulator, and all necessary non-contaminating plumbing and valving to operate the unit. High temperature and pressure safeties are standard. A one megohm water quality light provides early warning when exchange beds need replacing. The standard digital resistivity monitor displays point-of-use water quality from 0.1 to 18 megohms.

FEATURES & BENEFITS

- Closed loop system -Eliminates rinsewater discharge, reduces water consumption, and saves energy by recycling hot rinsewater.
- Single pass operation -Cost effective DI water generation.
- Compatible with both aqueous and semi-aqueous systems.
- Removes both organic and inorganic impurities.
- Provides high quality DI water for precision cleaning.
- Fully automatic for ease of operation.
- Easy access to routine maintenance components
- Backed by a national service network.

Ultrasonic Cleaning

System Specifications

- 14 gallon polypropylene reservoir
- Low liquid level float switch
- Automatic water make-up
- Stainless steel and CPVC valving
- 1 HP stainless steel pump, 5 gpm at 100 feet of head
- Stainless steel liquid-filled pressure gauges
- 10 micron stainless steel pre-filter and 2 micron outlet filter
- 0-5 gpm flow meter for precise flow setting
- Relief valve to prevent system dead-heading
- Check valves to prevent reverse flow and potential cross contamination

Electrical Specifications

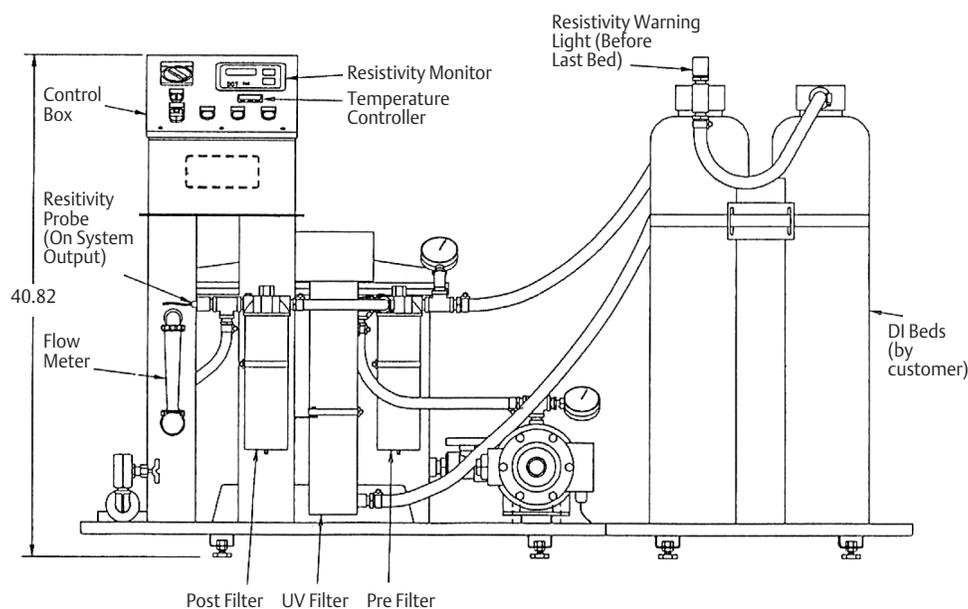
- 230V AC, 60 Hz, 10 amps, single phase
- Remote/local control switch
- IEC standard electrical devices
- Digital temperature readout
- Digital resistivity indicator with setpoint alarm
- Low resistivity alarm light
- 24V AC controls

Exchange Beds

- The user contracts with a local media beds provider

Options

- Ultraviolet light for micro-organism elimination with light intensity alarm
- Heat exchanger for recovering hot DI water in excess of 140°F
- Polypropylene surge tank for complete draining and storage of DI water during system maintenance



Americas

Branson Ultrasonics Corp.
41 Eagle Road
Danbury, CT 06813-1961
T: 800-732-9262
F: 203-796-2250
www.bransonultrasonics.com

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.branson.eu

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.branson-china.com