

# AquaSonic® AQS-3500 Manual Ultrasonic Stencil Cleaner



Closed Loop Stencil Cleaning  
with the RFS-20  
Recirculation and Filtration System

# AQS-3500 System Overview

The **AQS-3500** is a manual ultrasonic stencil cleaning machine that can accommodate stencils up to 29" x 29". This state-of-the-art system uses integral pulse and sweep ultrasonic generation for optimal cleaning performance. It comes standard with an ergonomically designed control panel that utilizes electromechanical switches and digital timers to control the machine functions. There are 28 piezoelectric transducers that are metalurgically attached to the outside wall of the wash tank, providing uniform cleaning power throughout the entire tank.

AQS-3500 comes standard with a power pump to drain unit and is integrated with a 5-micron filter and a drain trap with a stainless steel mesh filter, allowing both the wash and rinse tank fluids to be filtered prior to going to drain. The stainless steel pump is also used to filter and recirculate the tank fluids keeping the wash or rinse tank free from contaminants - resulting in a longer bath life and reducing operating costs. An optional heater system is available for hard to clean epoxies, solder pastes, fluxes, and other soils. Also offered is a drain back unit option to facilitate drying.

Our two tank system uses a dedicated wash tank for cleaning and a dedicated rinse tank for rinsing off any residual soil or cleaning chemistry. The operator can also run the ultrasonics during the rinse cycle to provide additional cleaning power. The power pump to drain unit can drain both tanks in just a few minutes, sending the tank contents either to an evaporator unit, a water treatment facility, or our optional water recirculation and filtration system. There is a convenient hand held air nozzle to remove excess rinse water and to enhance drying times.

Many of the features that come standard on the AQS-3500, like the power pump to drain, the recirculation filter, the solder trap, and the air nozzle gun are expensive options from other manufacturers.



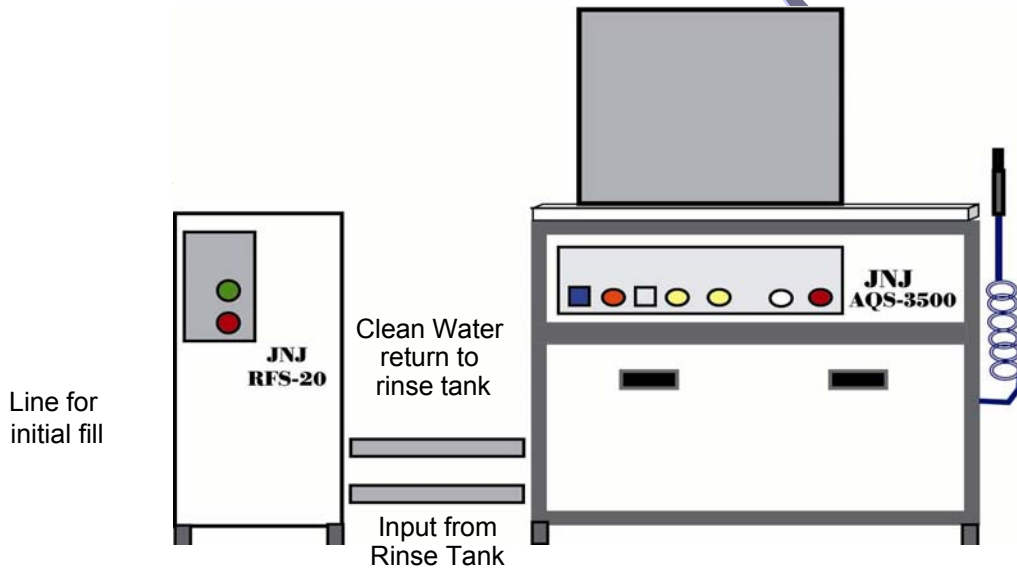
Two tank design features a stainless steel immersion wash tank and rinse tank



A small foot print and ergonomic design makes the AQS-3500 very user friendly.

# AQS-3500 Closed Loop Operation

When connected to the RFS-20, the AQS-3500 stencil cleaner provides closed loop recirculation for both the wash tank fluids and the rinse tank fluids. The AQS-3500 can be used stand alone or in a closed loop configuration.



A three stage filtration system is combined with a recirculation pump to provide continuous filtration of the rinse water in the AQS-3500. The rinse cycle is initiated at the flip of a switch located on the AQS-3500, the "Pump Start Stop" switch. Turning this switch to the "Start" position will start two pumps and two filtration systems. The first system that is activated is the on board filtration for the "Wash" tank of the AQS-3500, which consists of a solder trap and a 5 micron filter. The second system that is activated is the closed loop system for the rinse tank, which is comprised of a 3 stage filter system. This 3 stage filter system is a stand alone unit, the RFS-20, which connects to the AQS-3500 via two hoses and a coaxial cable. This machine is used to provide up to 6 months or more of rinse water utilization between changes.

# AQS-3500

## Basic Features

- **Ultrasonic Transducers**
  - 1200 Watts available
  - Piezoelectric type
- **Generator**
  - Neptune™ Series featuring integral pulse & sweep
- **Temperature Range**
  - 4000 Watts (wash tank)
  - 50° F to 150° F
- **No. of Stages: 2**
  - Wash
  - Rinse
- **No. of Transducers**
  - 28 piezoelectric type
  - Wired in parallel
  - Lifetime warranty
- **Wash Tank Capacity**
  - 25 gallons
- **Rinse Tank Capacity**
  - 18 Gallons
- **Air Dry**
  - Hand Held Spray Nozzle
- **Operating Modes**
  - Manual, Switch Activated
- **Cycle Times**
  - Digitally Controlled
  - Infinitely Adjustable
- **Temperature Control**
  - Digitally Controlled
  - Pushbutton Adjustments
- **Shipping Weight**
  - 700 lbs.

To receive a detailed Specification and data sheet, contact JNJ by e-mail at [equipsales@JNJ-industries.com](mailto:equipsales@JNJ-industries.com), or call us at (508)-553-9973.