



CLEANING PLATFORM:

MEGA™ SERIES

SOLVENT TYPE:

WATER, IPA, COMPLEX ALCOHOLS, AND ORGANIC SOLVENTS

SYSTEM CAPABILITIES:

- SOLVENT IONIC REGENERATION.

Increases bath life, by removing flux as well as particulate contamination from the wash solution. This provides on average a **300% - 1000%** increase in bath life. Reducing solvent waste. Further Ionic regeneration increases the solvent resistance above **60-MOhms** using standard IPA.

- CLOSED LOOP OPERATION.

The MEGA™ II system is designed to operate in a closed loop environment with wash bath life maintained through the use of an integrated ionic exchange system. Providing increased bath life and reducing waste stream.

- PROCESS LOGGING

The system is capable of providing facility personnel with temperature, as well as resistivity information. Providing the facility and process engineer with easily formatted XLS output as well as a graphical interface providing real-time resistivity and temperature data on the screen.

- PROCESS GUARANTEE

The machine will provide the user with full process guarantee. With automatic resistivity reading/logging the system will maintain cleanliness consistency from the first board to the last.

MEGA™ II: WATER

WATER-ONLY CLEANING

- ✓ WATER IONIC EXCHANGER
- ✓ MEDIUM / LARGE PROCESS CHAMBER
- ✓ HEATED DRYING SYSTEM
- ✓ HEATED HOLDING TANK
- ✓ SPRAY-UNDER-IMMERSION
- ✓ 5 RECIPE CAPABILITY
- ✓ 208-230VAC, 1PH, 50/60HZ

MEGA™ II: IPA

IPA CLEANING

- ✓ IPA IONIC EXCHANGER
- ✓ MEDIUM / LARGE PROCESS CHAMBER
- ✓ SPRAY-UNDER-IMMERSION
- ✓ 5 RECIPE CAPABILITY
- ✓ 208-230VAC, 1PH, 50/60HZ

MEGA™ II: SOLVENT

ORGANIC SOLVENT CLEANING

- ✓ SOLVENT IONIC EXCHANGER
- ✓ MEDIUM / LARGE PROCESS CHAMBER
- ✓ HEATED DRYING SYSTEM
- ✓ HEATED HOLDING TANK
- ✓ DI-WATER BASED RINSE
- ✓ SPRAY-UNDER-IMMERSION
- ✓ 5 RECIPE CAPABILITY
- ✓ 208-230VAC, 1PH, 50/60HZ

MEGA™: ION

CLEANER / TESTER

- ✓ SOLVENT IONIC EXCHANGER
- ✓ INTEGRATED "ROSE" TEST
- ✓ SINGLE BOARD PROCESS CHAMBER
- ✓ MULTI-SOLVENT CAPABLE
- ✓ SPRAY-UNDER-IMMERSION
- ✓ 5 RECIPE CAPABILITY
- ✓ 208-230VAC, 1PH, 50/60HZ

- SYSTEM BENEFITS

- FAST CYCLE TIMES (10-20 MINUTES/BATCH).
- ENVIRONMENTALLY FRIENDLY.
- MULTI-SOLVENT CAPABLE.
- IONIC CONTAMINATION DETECTION.
- CLOSED-LOOP SPRAY UNDER-IMMERSION.
- IDEAL FOR HIGH RELIABILITY APPLICATIONS.
- SMALL FOOTPRINT (762-MM X 914-MM).
- EASY TO OPERATE TOUCH PAD INTERFACE.
- DESIGNED FOR SAFETY, CLOSED OPERATION.

- ENVIRONMENTAL BENEFITS

- NO LIQUID WASTE STREAMS.
- PATENTED ION EXCHANGE RESINS REGENERATE SOLVENT.
- VOC REGULATION COMPLIANT (SCAQMD RULE 1171)
- SEALED SOLVENT OPERATION.

- CLEANING BENEFITS

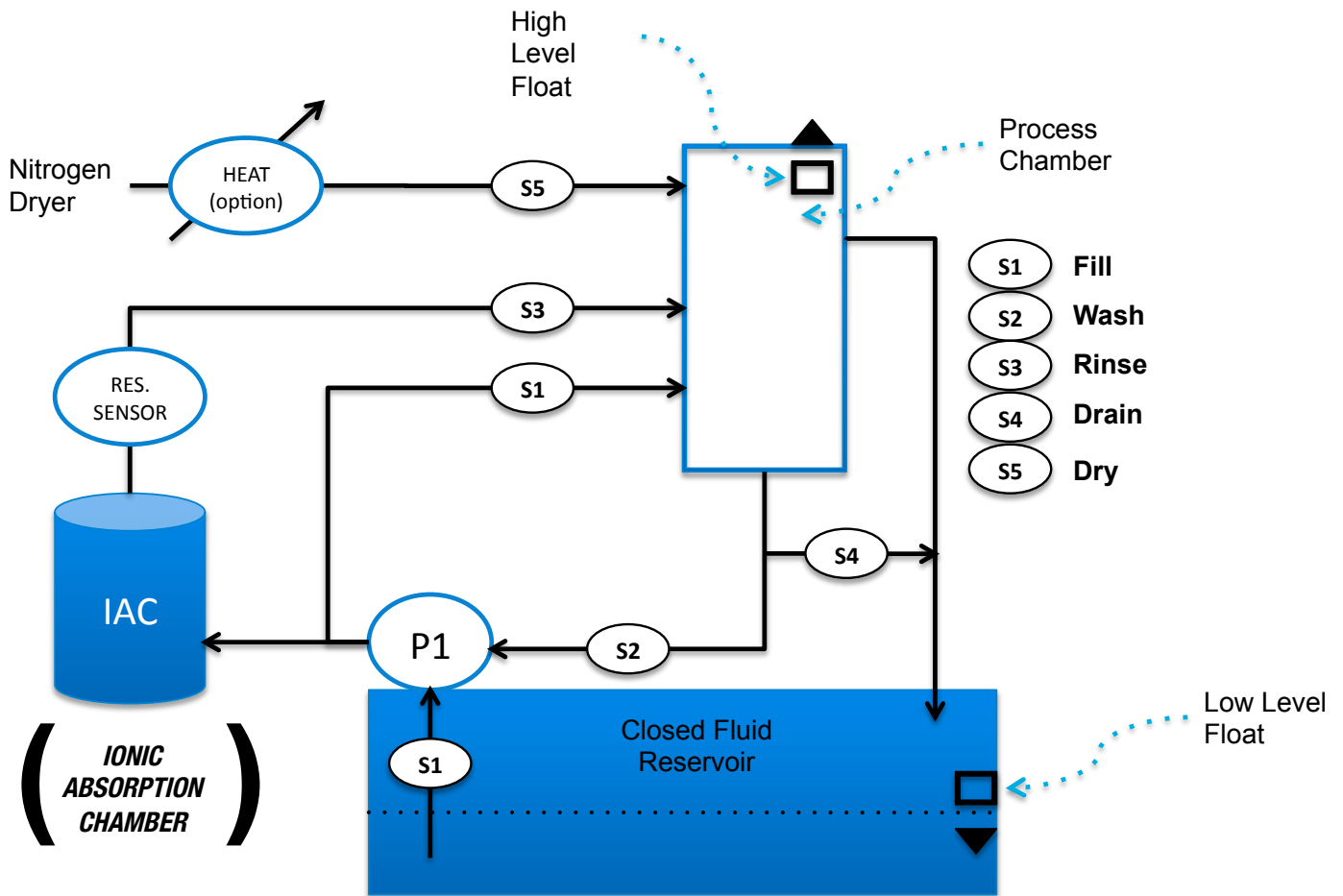
- USES WATER, IPA, AND OTHER APPROVED ORGANIC SOLVENTS.
- TESTS AND CLEANS SIMULTANEOUSLY.
- ISO 9002 COMPATIBLE PROCESS CONTROL.
- DATA LOGGING



VISIT US ONLINE!

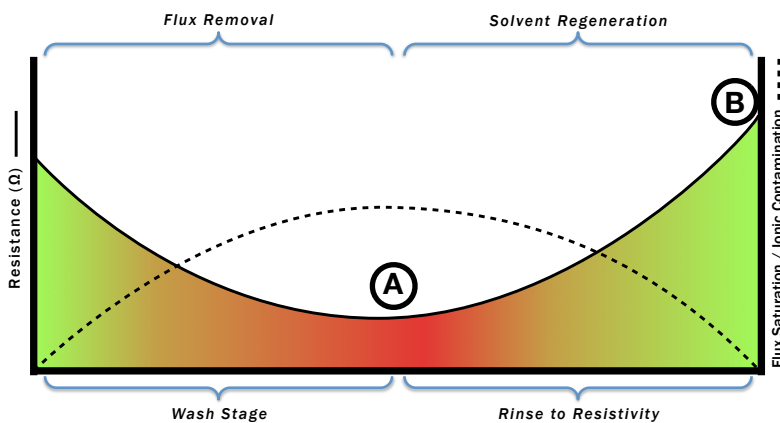
FIND OUT MORE ABOUT THE MEGA™ ON THE AUSTIN AMERICAN TECHNOLOGY WEBSITE AND READ THE RESEARCH WHICH SETS US APART FROM THE FOLD.

» www.aat-corp.com/products/mega



INTEGRATED CLEANING PROCESS

In order to reduce cleaning time, the wash and the rinse cycle have been integrated into a single continuous process. This allows the system to operate with a fast (**10-20 minute**) total cycle time (including drying).



The system begins operation with the Ionic Regeneration beds turned off, this allows the solvent to drop in resistivity as the ionic contamination (fluxes, finger oils, and other foreign contamination) is removed from the circuit board. Once the the drop in the resistivity stops (A), the system will route the solvent through the Ionic Regeneration plant built into the machine. This cleans the solvent while it is still in the process chamber, until it reaches a target rinse resistivity reading (B).