

IDI-MWS

Manual Wet Station (MWS)



The IDI Manual Wet Station is engineered to provide safe, convenient processing of semiconductor wafers in Teflon cassettes, Single or Dual.

Modular construction of the wet station allows ease of configuration to meet both the operational and space requirements of the end user. The modular components are easily assembled to provide an integrated package which helps lower the overall cost of ownership. Engineered to meet Semiconductor Specifications, the wet station is easily configured to meet internal EH&S and local codes.

Within the wet station, modular construction of the hardware leads to flexibility in application and operation and allows for numerous combinations of wafer size and cassette types to meet the users existing wafer processing tools.

Both Acid and Solvent wet stations are available. Solvent stations are built with 304 Stainless Steel modules and stainless or Teflon tanks. Rinse tank construction can be customized with various compatible plastic materials depending on the acid or solvents used.

Process and Rinse tanks utilize nitrogen or float type fluid detection. The user may specify their preferred pump manufacturer. Depending on the process requirements, Heaters/Chiller circulations in-tank or in-line heaters are utilized. Closed loop process temperature control is provided by the IDI control software.

PLC Controls provide for maximum reliability and flexibility allowing Teledyne Integrated Designs to quickly configure the wet station parameters and process recipes with the end user desired features at the time of order, or in the field as changes in process chemistry and parameters occur. The flat panel display with our own GUI (Graphic User Interface) provides the ultimate in simplicity while maximizing the information presented. PLC controls provide up to 128 I/O ports which minimize the use of point to point wiring, thus increasing reliability and minimizing service.

TELEDYNE INTEGRATED DESIGNS

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MANUAL WET STATION (MWS)

Communications through Serial, Ethernet or Device Net connections allow for direct interfacing to host equipment. User specified alarms or level status can be communicated to CMS / SCADA systems or other fab wide monitoring systems.

Specifications subject to change without notice Third Party Certification is available at additional cost.

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Multi level password protection allows end users to guard against un-approved changes in recipes and chemistries yet allows ample access for service and PMs.

Design configurations allow end user to specify redundancy of components in critical areas to reduce the exposure to un-scheduled down time.

Standard Features

- Engineered to meet:
 - CE /TUV
 - Semi E49 High Purity
 - Semi S1, Visual Hazards
 - Semi S2, EH&S
 - Semi S8, Ergonomics
 - NFPA 30
 - UFC 7902.5.9
- System 125% spill containment and leak detection
- Resistivity Monitoring
- Exhaust Interlock
- EMO Shutdown
- Audible and visual Alarms

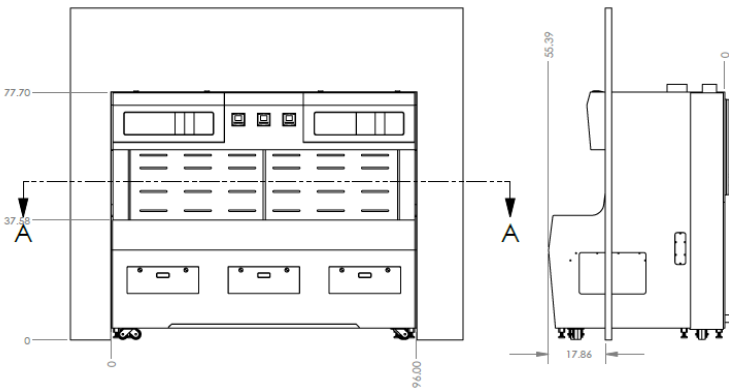
Optional Features

- Fire Detection and Suppression
- In Tank Chemical Blending
- Chemical Concentration Monitoring and Control
- Auto Drain on Exhaust Loss
- Manual Fill Cups
- Semi Third Party Certification
- Bulk Chemical Fill

Cost Saving Optional Features

- Single wall construction
- Alphanumeric PLC Controller

Dimensions for Standard PreDiffusion Clean 4 Process 3 Rinse 7 Tank Single 200mm Processing



- Single Module
55" D x 96" W x 77" H

Construction Features

- FM4910 Compliance
- Designed for Ease of Maintenance
- Combination of Triangle and Triple Bead Welded
- Tested for leak integrity

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