

ARTISAN®
TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

Artisan Technology Group
(217) 352-9330 | sales@artisantg.com | artisantg.com

Full-service, independent repair center
with experienced engineers and technicians on staff.

We buy your excess, underutilized, and idle equipment
along with credit for buybacks and trade-ins.

Custom engineering
so your equipment works exactly as you specify.

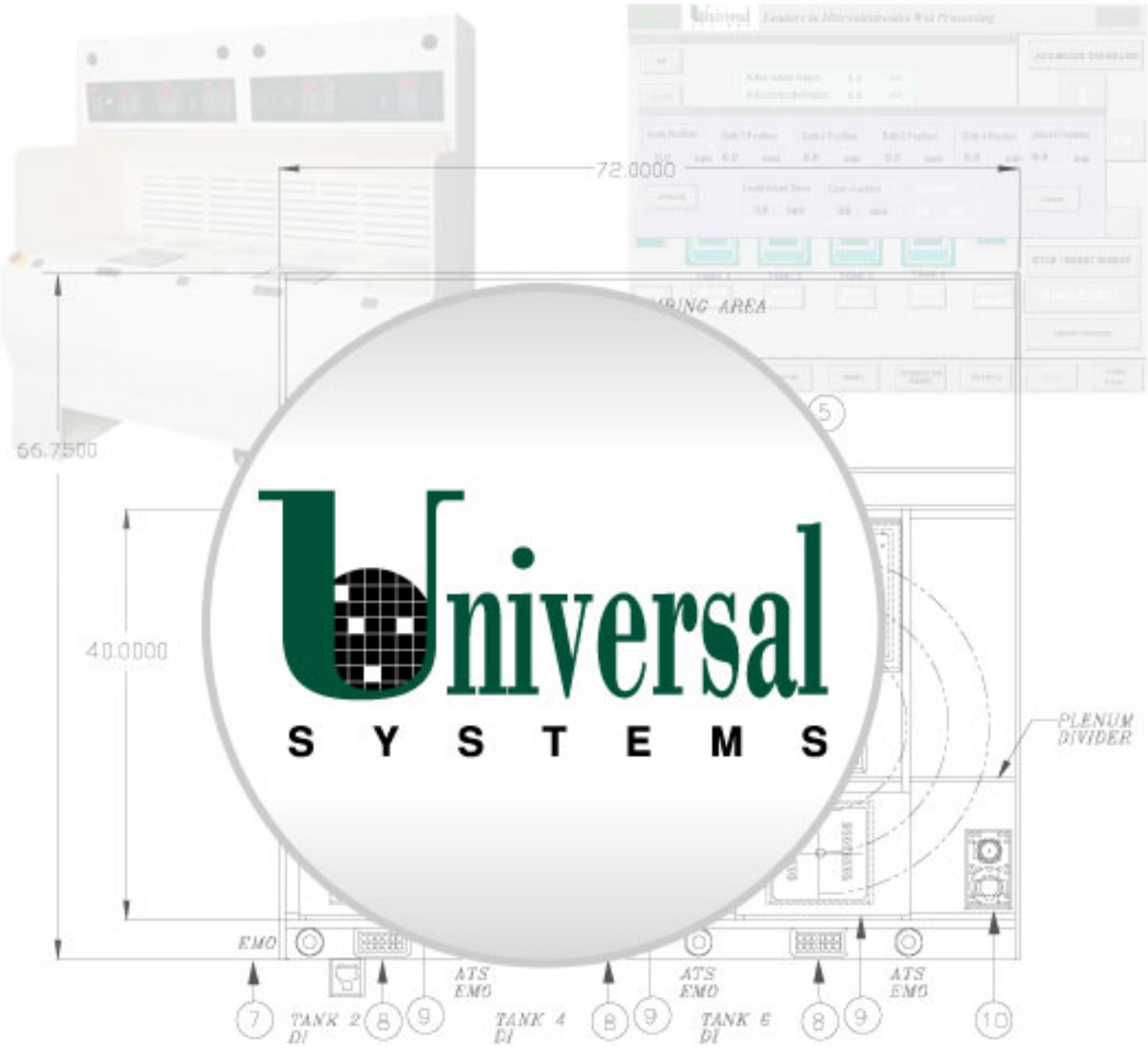
- Critical and expedited services
- In stock / Ready-to-ship
- Leasing / Rentals / Demos
- ITAR-certified secure asset solutions

Expert team | Trust guarantee | 100% satisfaction

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"Leaders In Microelectronics Wet Processing"



Universal SYSTEMS

WET PROCESS STATIONS

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WET PROCESS STATIONS



Universal Systems offers a complete line of customized wet process equipment for submicron cleanroom environments where processing of sensitive materials is required. For wafer processing applications such as pre-diffusion rinsing, nitride film etching and photoresist stripping, Universal Systems offers equipment with superior design and materials selection – yielding consistently high quality silicon wafers. For similar applications, such as flat panel and magnetic disk processing, we offer our many years experience in working with customers to design an optimum process solution. Universal Systems offers a varied choice of wet process station configurations for the most stringent clean room requirements.



Universal Systems' goal is to offer the best possible product to our customers utilizing our many years' experience in the wafer processing business. Our quality and safety controls incorporate designs in accordance with several manufacturing guidelines, including SEMI (S2-93) Manufacturing Safety Guidelines. Smoke tunnel tests performed by Dryden Engineering of California led to our current exhaust system design. ANSI/ASHRAE Standard 110-1985 particle testing, performed by Dr. Knutson of Pace, Inc., Minnesota for MIT Lincoln Laboratory, showed control levels below 0.03 ppm.

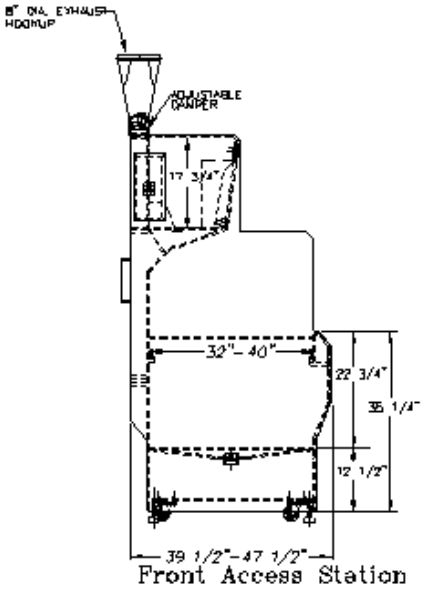
Typical Facility Requirements:

Electrical: 208VAC, 3-phase (5 wire rear access)
CDA: 6-8 SCFM @ 60 PSI
Nitrogen: 3-5 SCFM @ 60 PSI
DI Water: 4-7 GPM @60PSI 1-inch polypropylene supply and return
Exhaust:1 transition and damper, 8 inch I.D., 150 CFM/linear foot of bench
Drain: 2 inch FNPT

Materials available:

polypropylene, fire retardant polypropylene, stainless steel, or Factory Mutual approved materials, such as PVDF, Halar, Corzan, and CP-7D.

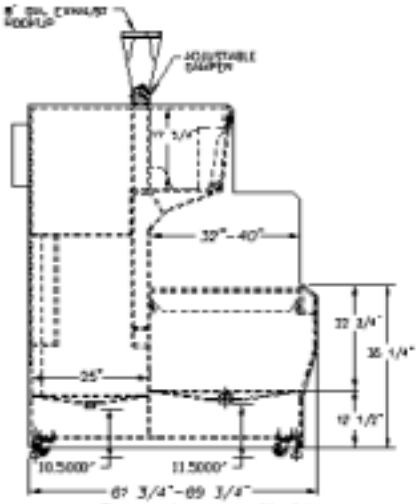
Universal SYSTEMS



Front Access Station

Station Configurations

Typical Station configurations are available in two standard types – rear or front access. Rear access configurations are designed so that there is a rear cabinet in the back of the station, with electrical components mounted in the top part of the cabinet and plumbing components mounted in the bottom portion of the cabinet. Front access designs allow for a smaller footprint, however all plumbing components are located under the decktop. Decktops are easily removed for easy service access to plumbing components – they are simply lifted off, no tools required. Tanks are pegged in place so these components are also easily removed for servicing. Electrical components for both designs are isolated in the headcase area, at the top of the stations.



Rear Access Station

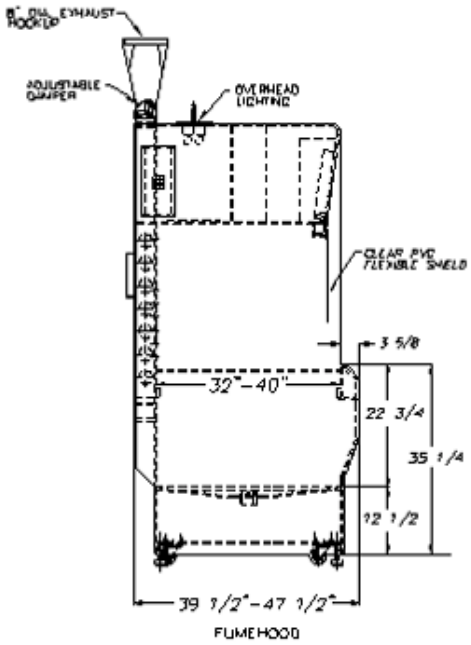
Description of Major Components

- Modular design and construction for simplified removal/servicing of process tanks.
- Heavy-duty casters for ease of movement-adjustable leg levelers.
- Headcase folds down flat in front for easy service access.
- Kliplock sealed electrical raceways.
- DI water manifold (supply and return) is free of “dead legs”, and constantly recirculated
- Magnehelic or photohelic gauge interlocked to EMO
- EMO (Emergency Machine Off) circuit with EMO button on rear of station
- Chemical resistant touch tone controls.
- Side shields.
- Wires routed in the plenum are encased in chemical resistant tubing.
- 2-inch plenum drain.
- Up draft exhaust.
- Exhaust transition and damper 8 inch I.D. (rear or side exhaust available).
- Nitrogen purged electrical enclosures.

Universal SYSTEMS

Fumehoods

Universal Systems' Fumehoods are designed for end-of-process cleaning or solvent process operations, where fume containment is the primary concern. The Fumehood design offers a more contained area than our Vertical Laminar Flow (VLF) Series benches, where the headcase is extended out to the front of the station. A variety of shielding options are available below the headcase, in front of the working area of the cabinet, including sliding plastic doors or vertical shields. These configurations allow for easy but safe operator access to work areas. See illustration for typical Fumehood configurations.



Description of Major Components

- Exhaust transition and damper 8 inch I.D.
- Chemical resistant controller remote switches.
- Modular design for installation and removal of tanks.
- EMO (Emergency Machine Off) circuit.
- Exhaust interlock to EMO.
- Adjustable leg levelers.
- Heavy duty casters for ease of movement.
- Kliplock sealed electrical raceways.
- DI water manifold (supply & return) are designed to be free of dead legs.
- Wires routed in the plenum are encased in chemical resistant tubing.
- Headcase folds down for ease of maintenance.
- 2 inch plenum drain.
- Up draft exhaust.
- Fluorescent overhead lights.
- Flexible PVC safety shield (Safety glass optional.)

Universal SYSTEMS

Artisan Technology Group is an independent supplier of quality pre-owned equipment

Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

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