



CLEANING PLATFORM:

NANOJET™ AQUEOUS INLINE CLEANING SYSTEM



SOLVENT TYPE:

WATER AND SEMI-AQUEOUS WATER/ORGANIC MIXTURES

SYSTEM CAPABILITIES:

- ✓ PATENTED PROGRESSIVE ENERGY DYNAMIC WASH
- ✓ HIGH SPEED CLEANING (0.5 TO 5.0 FPM)
- ✓ DYNAMIC RINSING IN TIGHT SPACES
- ✓ SUPERIOR "JET MANIFOLD" WET SECTION ISOLATION
- ✓ PATENTED "NO HEAT" DISPLACEMENT DRYING TECHNOLOGY
- ✓ HEPA DRY AIR FILTRATION
- ✓ INTEGRATED DI CLOSED LOOP SYSTEM
- ✓ "GREEN" ZERO DISCHARGE TO DRAIN
- ✓ LOW POWER CONSUMPTION
- ✓ SMALL FOOTPRINT 8' X 3.8' X 4.2'
- ✓ OPTIONAL SEMI-AQUEOUS TANK AND OPERATION
- ✓ INTEGRATED INTERNAL LIGHTING
- ✓ COLOR TOUCH SCREEN INTERFACE

PED

Progressive Energy Dynamics

12" WIDE



There is nothing else like it! Designed, patented and manufactured in the USA, the NanoJet™ from Austin American Technology combines recent advancements made in conveyor driven cleaning systems into the worlds smallest, fully capable, inline cleaner. Rapid and thorough cleaning and drying is accomplished in the NanoJet™ utilizing PED fluid jets for high impact cleaning and patented high velocity displacement jets for drying and fluid isolation. The NanoJet™ from Austin American Technology delivers a high energy design in a small 28 ft² footprint.

Closed Loop Design

"Green Design" means using substantially fewer resources than the current standards in the industry. The NanoJet™ accomplishes this in many ways. Water savings are automatic with our built-in DI closed looped water re-cycling system. Facility tap or DI water is only used for initial fill and to make up for any evaporative losses. These losses typically requires only 3-6 GPH at 125°F depending on facility exhaust settings. Wet sections are effectively isolated with air jet manifolds saving both chemistry as well as carbon and DI resin beds. Through recycling of the DI water inside the cleaner, the machine is able to further save on heat loss which would typically be lost to drain.

Durable Construction

The NanoJet™ in-line system is constructed of high-density polypropylene for excellent chemical compatibility and long life. It has a non-corroding, rigid metal chassis, unibody construction, a detachable load section, and removable windows at each chamber for easy access. The conveyor employs an automatic tensioning system and torque limitation to protect the drive motor in both forward and reverse modes.

SYSTEM BENEFITS

- CLASS-LEADING PERFORMANCE IN WORLD'S SMALLEST INLINE FOOTPRINT
- ENGINEERED AND BUILT FOR HIGH VOLUME PRODUCTION
- EXCLUSIVE PROGRESSIVE ENERGY DYNAMICS WASH AND RINSE TECHNOLOGY.
- PATENTED JET MANIFOLD DRYING AND FLUID ISOLATION SYSTEM
- SHORT CYCLE TIME; 6 MINUTE TYPICAL WASH, RINSE, AND DRY
- INTEGRATED CLOSED LOOP DI SYSTEM SAVES WATER AND HEAT COSTS
- FLEXIBLE DESIGN ALLOWS FOR WATER ONLY OR AQUEOUS CHEMICAL
- LOW MAINTENANCE
- LOW OPERATING COST SAVES RESOURCES

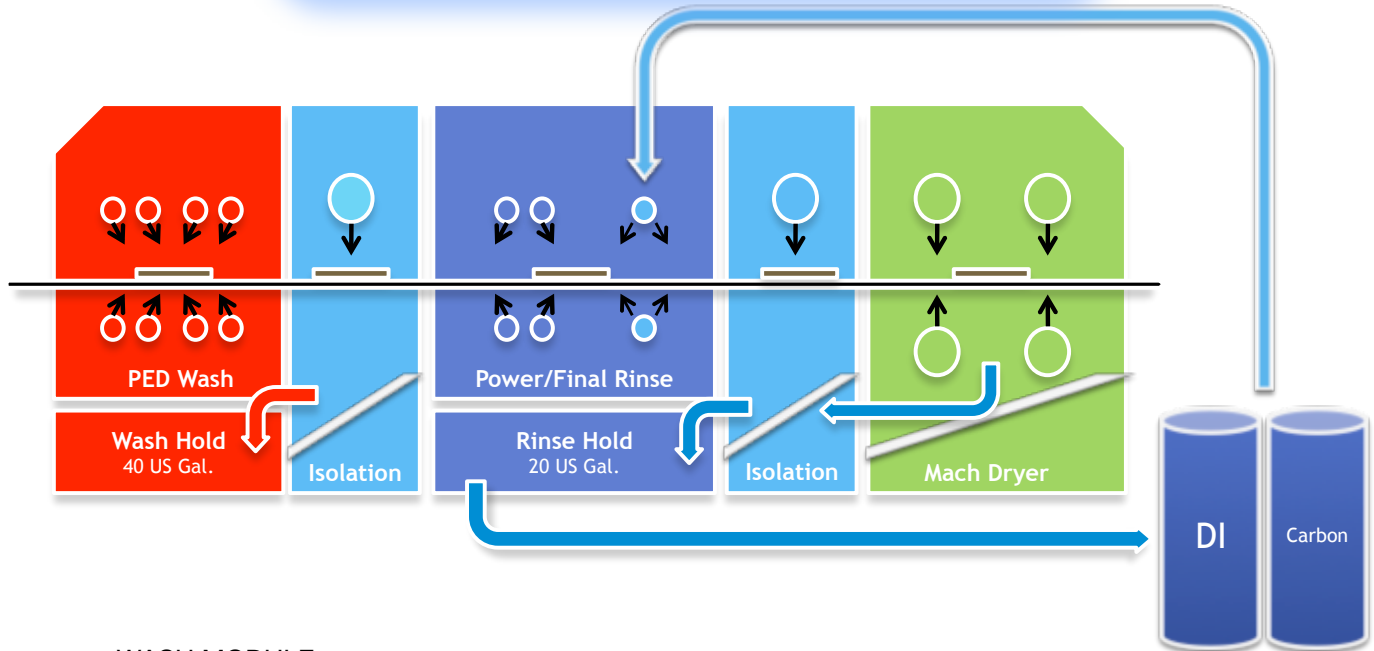
ENVIRONMENTAL BENEFITS

- CLOSED LOOP HEAT RECOVERY SAVES 50% OF HEATING COSTS
- INTEGRATED DI WATER SYSTEM SAVES OVER 90% OF WATER CONSUMPTION
- SHORTER RUN TIMES SAVE CLEANING FLUIDS AND POWER
- DISPLACEMENT DRYING TECHNOLOGY DRIES WITHOUT HEATERS
- UNIQUE JET ISOLATION TECHNOLOGY EXTENDS LIFE OF DI BEDS

VISIT US ONLINE!

FIND OUT MORE ABOUT THE NANOJET™ ON THE AUSTIN AMERICAN TECHNOLOGY WEBSITE AND LEARN MORE ABOUT THE AUSTIN AMERICAN DESIGN AND ADVANTAGE WHICH SET US APART FROM OTHERS.

- » www.aat-corp.com
- » www.aat-corp.com/products/nanojet
- » www.aat-corp.com/PED



WASH MODULE



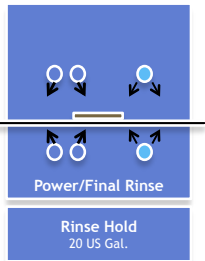
- PED (PROGRESSIVE ENERGY DYNAMICS) JETS ALLOW THE SYSTEM TO CLEAN PRECISION AND UNDER LOW-STANDOFF SMT COMPONENTS
- ONE PRESOAK AND THREE PROGRESSIVE ENERGY DYNAMICS SPRAY MANIFOLDS (TOP AND BOTTOM)
- HEATED 40 US GALLON HEATED HOLDING TANK, ALLOWS FOR 140°F WASH OPERATION
- HIGH EFFICIENCY CENTRIFUGAL WASH PUMP PROVIDES ADJUSTABLE SURFACE IMPINGEMENT PRESSURE UP TO 10PSI

ISOLATION MODULES (2X)



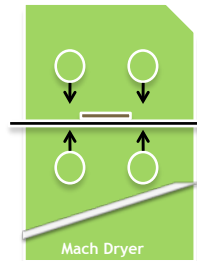
- REDUCES FLUID DRAG-OUT BY STRIPPING FLUIDS BACK TO THE APPROPRIATE HOLDING TANK
- HIGH PERFORMANCE JET MANIFOLDS ARE 300% MORE EFFICIENT THAN AIR KNIVES
- SECONDARY ISOLATION MODULE KEEPS RINSE FLUIDS FROM ENTERING DRYER CHAMBER

RINSE & FINAL RINSE MODULE



- TWO UPPER AND TWO LOWER PED RINSE MANIFOLDS PENETRATE AND FLUSH UNDER COMPONENTS AND INSIDE CONNECTORS
- FINAL DI RINSE POLISHES THE IONS FROM THE ASSEMBLY PRIOR TO ENTERING DRYER MODULE
- FINAL RINSE WATER

DRYING MODULE



- PATENTED HIGH ENERGY COHERENT JET MANIFOLDS
- HIGH VELOCITY DRYING AIR DISPLACES FLUID FROM THE BOARD SURFACE
- NO HEATING REQUIRED IN DRYING STAGE
- LOW POWER CONSUMPTION COMPARED TO OTHER DRYERS

Zero Discharge To Drain

Austin American Technology has been a pioneer in providing fully closed loop inline systems. First introduced in our MicroJet™ and HydroJet™ CL (Closed Loop) line of inline cleaning systems. The NanoJet™ system follows suit providing fully integrated DI system allowing the world's smallest inline to also have one of the world's smallest eco footprints, reducing both water and power consumption.

