

# Pumps

## Ultrapure Water Distribution

Pumps are used for high purity water distribution, recirculation or pressurization. Pumps are usually heavy duty rated for continuous use and models are available as horizontal shafts, impellers, rotating assemblies and casings are usually manufactured from stainless steel. Most NEMA standard motors are direct-coupled to the pump shaft for true alignment and variable frequency drives, or slow starts can be implemented depending upon application.

### Rotary Vane, Positive Displacement Pump

- Frame measures 18" w x 12" d x 12" h for easy placement in a laboratory
- Rotary vane pump, direct coupled to an open drip proof motor
- Epoxy coated aluminum frame for rust-resistance
- Vibration isolation mounts for quiet operation
- Non-contaminating, liquid filled, stainless steel pressure gauge on pump discharge for most accurate readings
- Adjustable pressure relief valve for precise pressure control
- On-off switch
- Operates on a standard 120v outlet



*Other pumps available based on specific engineering design*

The rotary vane, positive displacement pump was designed for quiet, non-pulsating flow of ultrapure water. Constructed of 304 stainless steel, these pumps are corrosion resistant. The internal bearings and vanes are made with a self-lubricating, heat resistant, graphite composite.

The pump is provided with a mechanical rotary seal compatible with ultrapure water and rugged external pre-lubricated ball bearings. An adjustable, internal pressure relief valve is provided to prevent excessive pressure.



## Multi-Stage Centrifugal Pump

- Pump stations are completely skid-mounted, pre-plumbed and pre-wired for easy installation
- Single or dual pump configurations based on your application
- Pump plumbing available in polypropylene or PVDF to prevent recontamination of water
- Pump control panels include safety switch and magnetic starter in a NEMA 12 enclosure

Hydro's multi-stage centrifugal pumps are designed for heavy-duty, continuous service. The casing and pump shaft are fabricated from 316 stainless steel to resist corrosion. The replaceable, rotating assembly is constructed of rugged, abrasion resistant glass-reinforced plastic for dimensional stability. A NEMA standard motor is direct-coupled to the pump shaft for true alignment. There is no risk of recontamination of the ultrapure water by the unique mechanical seal design.



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