

UHP-360

High Purity Deionization Unit for Point-Of-Use Applications



Figure 1: GE UHP-360

The GE Water & Process Technologies UHP-360 provides a reliable supply of high purity water in a small, efficient package. These systems meet the needs of customers requiring a small volume of deionized water. Since many small-volume water users also have critical space limitations, each GE UHP-360 system arrives pre-piped and pre-wired for easy installation. All major components of the system are mounted on a structural steel frame. Portable ion-exchange columns utilize hose connections that further ease installation and service of the UHP-360.

The UHP-360 has just three hard piping connections. Makeup and polish piping is constructed of solvent-welded, schedule 80 PVC and the unit's

electrical connection consists of 120-Volt power and signal from the storage tank. Standard configurations produce up to 12 gpm (57 lpm) of 18.2-megohm of ultra-high purity water with an option up to 24 gpm (90 lpm).

A warning light provides a visual indication of the makeup column effluent quality. A recirculating polishing loop, pressurized by a stainless steel centrifugal pump, provides a continuous supply of ultra-high purity water to the customer's in-house loop. An integral backpressure regulator maintains this supply at a constant pressure.

Bacteria is controlled by a 25nm UV disinfection unit. Bacteria and other particulates are then trapped in the polishing postfilter, a 0.2 micron absolute cartridge made of polypropylene media. System effluent quality is continuously monitored on a temperature compensated resistivity monitor which is rack-mounted. Stainless steel pressure gauges are provided throughout to monitor pressures at all points within the UHP-360.

GE UHP-360 is a robust system that can be customized to meet a wide variety of applications.

Whether you are struggling to find more water to hookup a new tool, or you simply need high purity water for a rinsing station, the UHP-360 is the perfect choice for hundreds of point-of-use applications.

Contact GE to see how an UHP-360 can be incorporated into your system.



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General Properties

Typical Applications

- Wafer cleaning
- Optical rinsing
- Media preparation
- Reagent grade water
- Chemical dilution
- Qualitative analysis
- Autoclaving
- Plating shops
- Feedwater to a still
- Temporary service

Features and Benefits

- Compact design
- Delivers high quality water
- Quick delivery
- Simple and quick installation
- Low maintenance requirements
- Expandable to meet the needs of multiple industries and applications
- Produces up to 18.2 megohm/cm electronic grade water
- Complete makeup or polish system with pre and post filtration and fully installed instrumentation
- PVC Piping
- Easy Serviceability

Options

- PP/PVDF/SS Piping
- PE / PVDF storage tanks
- Nitrogen blanketing
- System Redundancy
- 185 nm TOC Reduction UV

GE UHP Skids provide clear solutions for demanding industrial applications that require consistent water quality and performance. Each skid can be configured to incorporate:

- Increased capacity up to 24 gpm (90 lpm)
- RO makeup
- Membrane degasification
- Sanitary design
- Ultrafiltration

Installation

Installing the UHP-360 is simple and fast. Units are shipped pre-assembled, plumbed and wired to expedite installation. The portable ion exchange bottles even incorporate quick disconnects to speed routine maintenance of the system. Every aspect of the UHP-360 has been well thought-out to maximize system uptime.

System Design

City water is purified by the UHP-360's makeup system through activated carbon, filtration and mixed bed deionization columns. A stainless steel pump provides a continuous supply of water at a constant pressure of 50 psi. To help ensure a continuous supply of bacteria free water, a 254 nm ultraviolet disinfection unit and sub-micron absolute filters are utilized. Water quality is then monitored by online resistivity instrumentation to guarantee point-of-use quality.

System measures: W 32" D 36" H 72"