

# Water-for-Injection Systems

## Mueller WFI Systems — Your Integrated Process Solution

When upgrading your water systems, consider the full range of products available from Mueller. We have partnered with a variety of end users to provide an integrated system approach to their water system including the multiple-effect stills, WFI storage tanks, closed loop cooling systems, and integrated control systems.

### Advantages

- Complete testing of all system components ensures system performance when the equipment arrives at site.
- An integrated control system reduces the number and complexity of control systems needed to operate your water systems.
- Equipment documentation is consistent and presented as an integrated system. All test documentation, including the functional requirements specification, software design specification, and factory acceptance test documents are written with a system approach.
- Control of schedule is improved since all major components are manufactured at Mueller.
- Reduced labor and site construction required at your site.
- In many instances facility construction can proceed simultaneously with the water system construction.



## Custom Skidded Systems

Paul Mueller Company custom skidded systems are designed to meet the specific requirements of your application. These systems can incorporate all of the monitoring equipment and control devices for the system into a compact skid which is assembled, integrated into a single PLC system, and tested at the Springfield, Missouri, factory. Documentation for all components are also incorporated into a comprehensive turnover package.

### Additional Skids Offered

- Custom Process Skids
- Alternative Fuel Skids
- Filter Carts
- Purewater Distiller
- Hotwater
- Pump Skids
- Pretreatment



## Components and Instrumentation

- WFI pump(s).
- Sanitary heat exchangers for trim heating or cooling as well as periodic sanitization.
- Conductivity analyzer for monitoring WFI quality.
- TOC analyzer for monitoring WFI quality.
- Level transmitters to monitor WFI tank level and activate still.
- Interconnecting piping valves and tubing between still, tank and WFI distribution skid.
- Flow and pressure instruments to monitor spray ball conditions and/or loop pressure.
- Steam in place (SIP) equipment to periodic sterilization cycle with temperature monitoring at all low point drains.

## Manufacturing and Test Facility Capabilities

- Seven test bays equipped with coolant, utility steam, DI water, compressed air, and ability to accommodate a variety of electrical configurations.
- Final assembly and test areas are climate controlled and isolated from welding and grinding areas.
- Carbon steel processing is not permitted in final assembly and test areas.