

Technical Details

Purified Water Distribution Systems

Heat Sanitizable

| Model | Max Flowrate m3/hr (1) | Instantaneous Demand m3/hr (2) | Loop Connections (Triclamp) | Dimensions cm (Length x width x height) |
|--------------|------------------------|--------------------------------|-----------------------------|---|
| PWD - H - 4 | 4,000 | 2,800 | 1" | 200 x 100 x 190 |
| PWD - H - 10 | 10,000 | 6,890 | 1 1/2" | 200 x 100 x 190 |
| PWD - H - 20 | 20,000 | 12,816 | 2" | 220 x 120 x 210 |
| PWD - H - 30 | 30,000 | 20,564 | 2 1/2" | 220 x 120 x 210 |
| PWD - H - 45 | 45,000 | 30,140 | 3" | 240 x 120 x 220 |

Ozone

| Model | Max Flowrate m3/hr (1) | Instantaneous Demand m3/hr (2) | Loop Connections (Triclamp) | Dimensions cm (Length x width x height) |
|--------------|------------------------|--------------------------------|-----------------------------|---|
| PWD - O - 4 | 4,000 | 2,800 | 1" | 220 x 100 x 190 |
| PWD - O - 10 | 10,000 | 6,890 | 1 1/2" | 220 x 100 x 190 |
| PWD - O - 20 | 20,000 | 12,816 | 2" | 240 x 120 x 210 |
| PWD - O - 30 | 30,000 | 20,564 | 2 1/2" | 240 x 120 x 210 |
| PWD - O - 45 | 45,000 | 30,140 | 3" | 260 x 120 x 220 |

WFI Distribution Systems

| Model | Max Flowrate m3/hr (1) | Instantaneous Demand m3/hr (2) | Loop Connections (Triclamp) | Dimensions cm (Length x width x height) |
|---------------|------------------------|--------------------------------|-----------------------------|---|
| WFID - H - 4 | 4,000 | 2,800 | 1" | 200 x 100 x 190 |
| WFID - H - 10 | 10,000 | 6,890 | 1 1/2" | 200 x 100 x 190 |
| WFID - H - 20 | 20,000 | 12,816 | 2" | 220 x 120 x 210 |
| WFID - H - 30 | 30,000 | 20,564 | 2 1/2" | 220 x 120 x 210 |
| WFID - H - 45 | 45,000 | 30,140 | 3" | 240 x 120 x 220 |

(1) - Flowrate equates to approx 3m/sec.

(2) - This figure is the difference between 1m/sec and 3m/sec (generally accepted as the min flowrate on the return loop and the maximum to optimise system pressure drops respectively). This represents the usable flowrate for process applications.

| Material/Equipment Specifications | Heat Sanitizable | Ozone | WFI |
|-----------------------------------|---|--|--|
| Pipework and Fittings | 316l st/stl ASME BPE <0.5um max to SFT1 | | |
| Pump | 316l Sanitary centrifugal pump @ 6barg with close coupled drain valve | | |
| Trim Cooler Heat exchanger | 316l st/stl Double tube sheet shell & tube - internal finish <0.5um max to SFT1 | | - |
| Heat Exchanger | 316l st/stl Double tube sheet shell & tube - internal finish <0.5um max to SFT1 | | - |
| UV | 316l St/stl Sanitary with UV intensity monitor | | |
| Valves | 316l Sanitary PTFE Diaphragm with internal finish <0.5um max to SFV1 | | |
| Flowmeter | 316l Endress & Hauser Promass E Coriolis mass flowmeter (Option-Promass P) | | |
| Vent Filter (3) | 316l st/stl 0.2um filter c/w heater jacket | 316l st/stl 0.2um filter c/w Ozone catalytic converter | 316l st/stl 0.2um filter c/w heater jacket |
| Pressure/Level Transmitters (3) | 316l Endress & Hauser Cerabar M | | |
| Conductivity sensor | 316l Endress & Hauser Condumax | | |
| Bursting Disc (3) | 316l st/stl Santrix Burst Disc with Indicator Alarm Strip | | |
| Temperature sensors | 316l Endress & Hauser Omnigrad M | | |
| Cabinet | IP55 Epoxy mild coated steel or 304 st/stl (Option) | | |
| Frame | 304 st/stl | | |
| Insulation (4) | Plant steam/Chilled water | Chiled water | Plant Steam |

| Services Required | Heat Sanitizable | Ozone | WFI |
|--------------------|---|-------|--------|
| Feed Water Quality | Purified Water | | WFI |
| Compressed Air | Instrument grade oil free @ 6barg | | |
| Cooling Water | Chilled water 6 degC - flowrate TBA | | - |
| Plant Steam | 6 barg | | 6 barg |
| Power Supply | 380/480V 3 Phase 50/60Hz | | |
| Drains | Triclamp - common connection on skid to feed to gravity | | |

(3) Free issued items if Puretech are not supplying the tank.

(4) As standard we insulate the utility services, however we can supply the skids fully insulate to clients requirements as an option.

Puretech

As a company who work to supply water purification solutions only within the Pharmaceutical Industry we offer comprehensive support to customers including system design, project management, validation, installation, commissioning and on-site maintenance. For further information contact your nearest sales office.

Flexibility

The Skids are manufactured to meet the stringest standards, however we understand clients may have specific needs and budgets to meet and we adopt a flexible approach to ensure the client gets what they want.

Pharmaceutical Water Storage Tanks

Puretech are able to supply the highest quality tanks for pharmaceutical water systems. We strongly recommend using design coded 3barg to full vacuum rated tanks with Novaseptic connections and ASME BPE compliant.



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