Purified Water (PW) and Water for Injection (WFI) Storage and Distribution Skids
Product Portfolio
Suncombe have been producing Purified Water (PW) and Water for Injection (WFI) Storage and Distribution Skids for over 30 years and supplying them to the worldwide BioPharm and Healthcare sectors.

The skids ensure the quality of water is maintained throughout the storage and distribution process by minimising microbial growth and preventing any contamination.

**Custom Design**

The skids are designed to ensure that adequate media is available for all of your requirements. In order to do this we offer a large range of different storage vessels sizes and media flowrates.

**Skid Components**

- Pipework designed to ASME BPE with no deadlegs, fully drainable, enclosed head orbitally welded, full hydroscopic examination
- Large range of standard volumes or custom size Pressure Vessel 316L Stainless Steel storage pressure vessel designed to PED/PD5500/ASME BPE (other codes available). Built with NAl-connects to minimise inlet/outlet dead space
- Variable Speed single or duty and standby ASME BPE sanitary centrifugal pumps with flowrates from 1,000 to 30,000 litres per hour and greater
- ASME BPE shell and tube heaters and coolers, steam, hot/cold water or electrical
- Biopharma specification straight through, tandem and zero dead leg diaphragm valves
- Instrumentation for monitoring and control of level, pressure, temperature, conductivity and flow rate (TDC optional).
- High quality analytical and process instrumentation.
- Process Valves
  - Sanitary and sterile process routing valves providing mixproof, dead leg free routing.
- Filter Housings
  - Single or multi-element sanitary housings with heaters and 0.2 µm filters from 316L stainless steel
- Sanitary Pump
  - Sanitary Centrifugal Variable Speed Pumps
- ASME BPE Pipework and Triclamp Fittings
  - SFO to SF5 standards with minimal joints with bolted clamps

**Automation System**

The Integrated Suite3™ automation packages are designed to be operator friendly and simple to use whilst providing flexibility and optimisation. Reliable and robust, they have been developed over the last 20 years in co-ordination with clients operations staff, engineers and validation staff. They encompass all elements required to provide a controllable, repeatable automatic system.

Incorporating alarms, trends and reporting, 21CFR11 compliance standard on the Suite3™ packages. Based on Siemens hardware, the control systems are developed, designed and configured by in-house per-

- ASME BPE standard Pipework
- 316L Stainless Steel with Guaranteed surface finishes
- Fully drainable construction
- Project Management and experienced project team
- Equipment Design and development to GAMP development lifecycle procedures to biopharma standards
- Autocad Drawings and 3D Models
- Functional Design Specification, schedules and calculations
- Control panels designed to EN60204
- Material traceability with 3.1 Material certificates
- Orbital Welding with weld tables and weld maps
- Coded/certified welders, welding procedures, welding machines
- 100% Boroscopic Inspection and CD Record
- Hydrostatic pressure testing and certification
- Instrument calibration and certification
- Generation of FAT protocol and pre-FAT Testing
- FAT testing
- Validation information and manuals.
- Instruction and Operational Manuals
- CE Marking and PED Certification

**Pressure Vessel**

Sanitary designed 316L stainless steel pressure vessel. Typically described to PED5500, BS EN 13445 or ASME VIII

**Features**

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Storage and Distribution Skids with singlex distribution.

Skid Layout

Skid Dimensions

Standard or Custom Configurations

Standard packages as detailed in the above tables or custom designed modules to suit site specific requirements.

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