



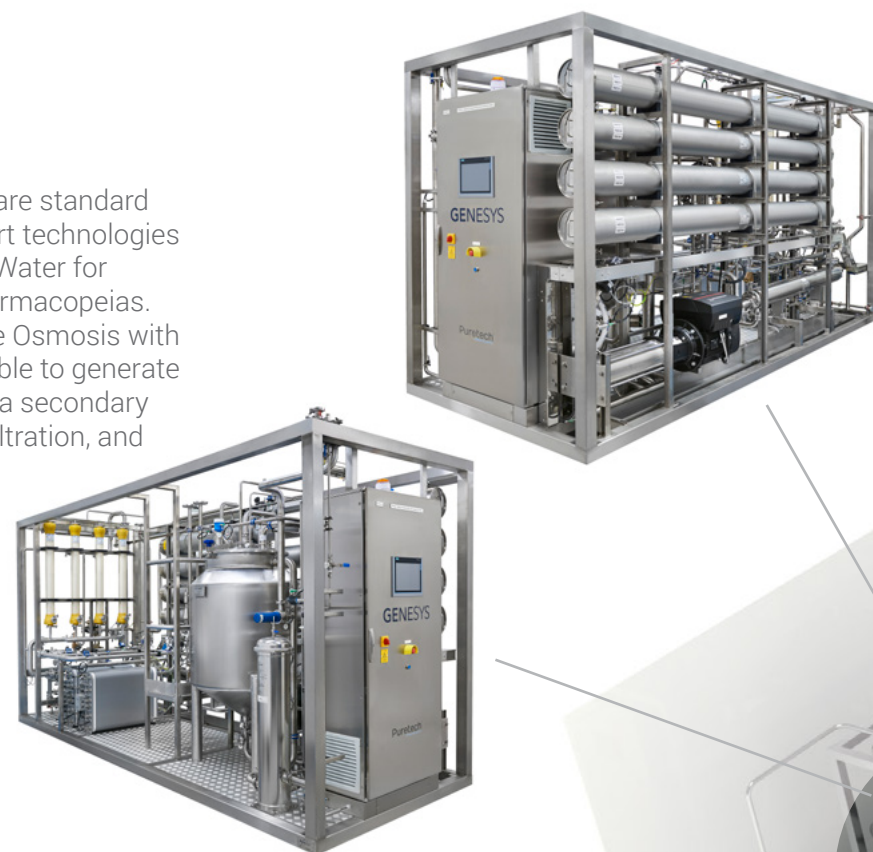
Puretech[™]
delivering purity

TOTAL SOLUTIONS

For Pharmaceutical Water Projects

Purified water and water for injection

Puretech's Genesys and Oasys systems are standard modular units with proven, state-of-the-art technologies that can produce Purified Water (PW) or Water for Injection (WFI) that complies with all pharmacopeias. Utilising the core technologies of Reverse Osmosis with Continuous Electrodeionization, we are able to generate PW or WFI. WFI is guaranteed by adding a secondary membrane system in the form of Ultra Filtration, and does not require a distillation process.



Pre-treatment units

Modular units, designed according to incoming water characteristics, robust designs to precondition water according to the needs of the final treatment. These compact modules are engineered based on equipment and performance robustness, allowing the maximum availability when working under the most demanding applications.



Compact modular storage & distribution skids

Delivering the required quality and quantity of pharmacopoeial water to the user, the standard distribution system achieves this within a single skid. Puretech distribution solutions minimise space requirements by integrating all of the technologies, instruments and controls within a single package. Puretech systems are designed and engineered to give reliable operation, ongoing monitoring, whilst maintaining optimal energy efficiency, lowering operating costs without compromising quality.



Water & steam distribution systems

Delivering the highest quality product water to the user, our distribution systems are tailored to meet each client's specific needs, whilst our installation strategies give optimal cost and energy savings. Puretech offers a complete range of solutions using traditional stainless steel or high performance plastic configurations, working with you to determine the correct solution for your facility. Delivering quality all the way to the point of use.



Multi-effect distillation

Puretech multiple effect stills are designed and constructed for the production of water for injections (pyrogen-free sterile water) in full compliance with cGMP guidelines, inline with FDA and EMEA expectations. A key driver in Puretech engineering efforts is energy efficiency, ensuring optimal use of energy resources without compromising quality.



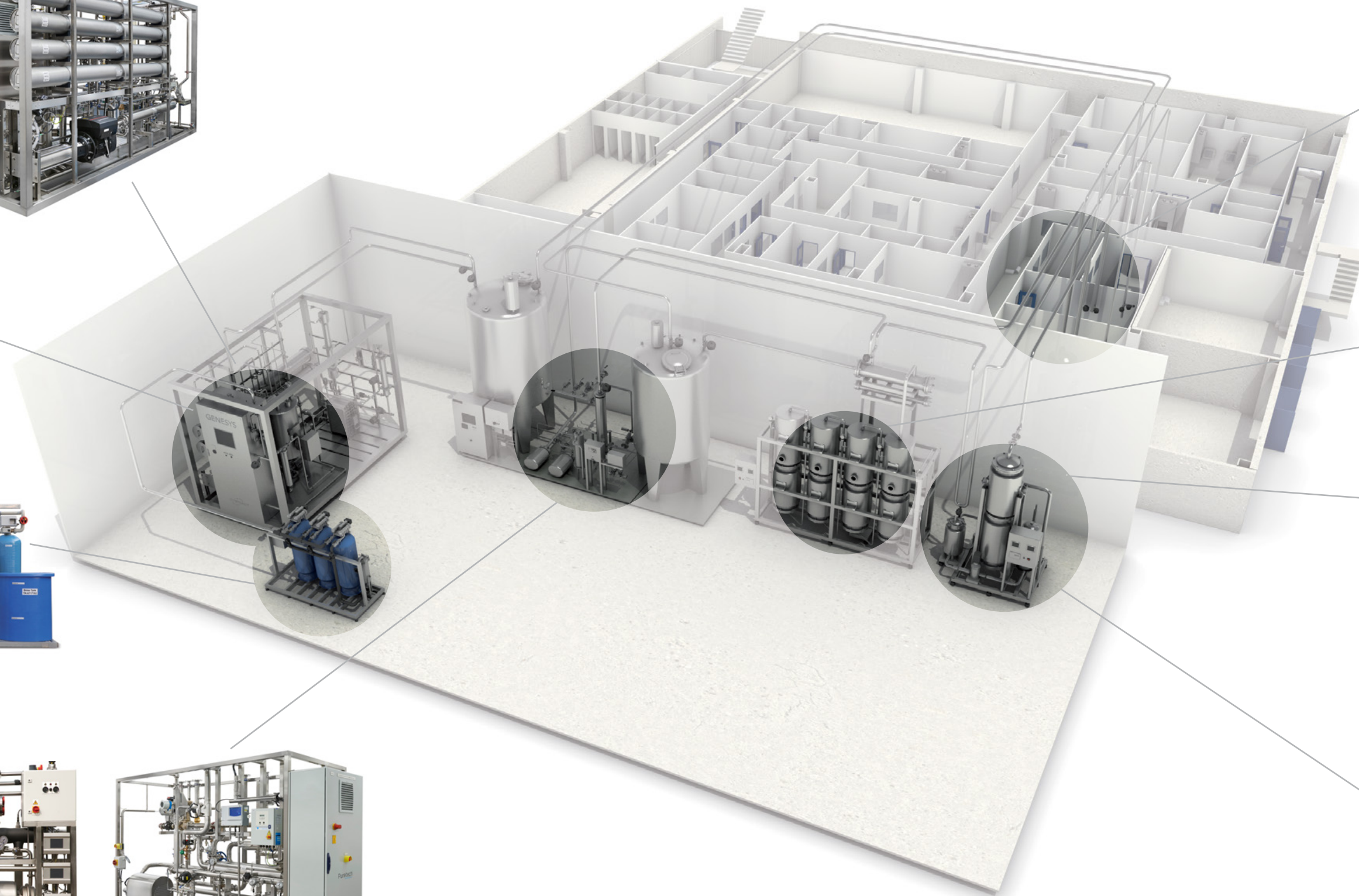
Pure steam generators

Puretech pure steam generators deliver dry saturated pyrogen free steam in compliance with pharmacopoeial specifications. The PSG is built to a vertical design with a DTS evaporator, a separator ensuring no droplets or impurities pass through to the product steam. The generators are designed with energy recovery and non-condensable gas evaporation systems to give a constant supply of high purity steam.



Integrated automation systems

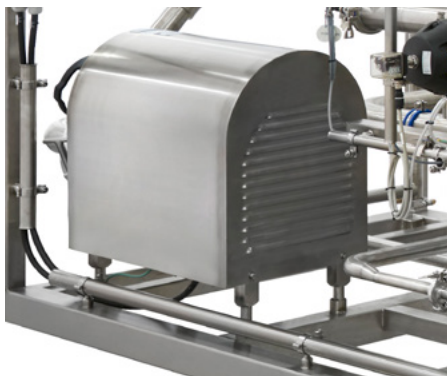
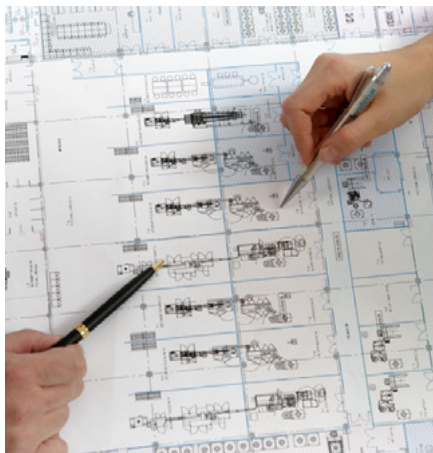
A fundamental requirement for a pharmaceutical water system is a reliable control system to ensure optimal performance and monitoring of critical parameters. With Puretech the control system is fully integrated within the systems to ensure that the user has information on performance at their fingertips. Puretech GAMP compliant control systems can be centralised into a dedicated SCADA system or integrated into your BMS.



Turnkey pharmaceutical water systems

Puretech offers world leading integrated solutions for pharmaceutical water systems.

Every bespoke solution is designed and engineered to ensure cost effectiveness and quality compliance, and each project is managed to deliver on time and to budget.



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