

GENESYS





GENESYS A new chapter

For two decades Puretech have built a reputation for design and installation of Pharmaceutical water systems, taking responsibility for integrating standard equipment from various suppliers to deliver turnkey solutions to our customers.

In the search to improve our service we introduce the 'Genesys', opening a new chapter in pure water delivery.

From raw water to point of use, the 'Genesys' enables us to offer a true single source for the complete water purification cycle.







The production of purified water never seems to be easy, however in reality the processes required to produce purified water can be simple.

A purified water system can be broken down into three key processes or steps.

Pretreatment - Uses technologies such as ion exchange, filtration, and adsorption to prepare the water for the purification stage and prevent damage to the membrane technologies used.

Purification - Reduces the levels of contaminants to produce Purified water with the Pharmacopoeial specifications required.

Storage and Distribution - Delivering the required volumes and quality of water to the user points.

The greatest difficulty with producing Purified water is that the feed source changes both due to geography and the seasons. There is no standard raw water so water purification isn't standard. When things go wrong it is predominantly due to inadequate pre-treatment, therefore it is not possible to buy a box off the shelf for all needs and feed sources.

The Genesys has been developed to allow customers to have a Water purification system that fits in with their needs.

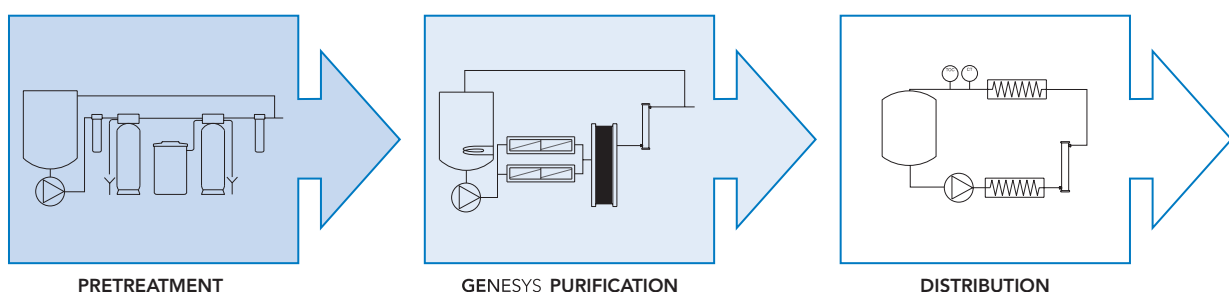
If you take the 3 steps to purified water the Purification stage is the only constant.

- The pre-treatment is site specific.
- The distribution needs to be tailored to meet your unique production requirements.

The Genesys has been designed to generate purified water, allowing us to develop a pre-treatment strategy, then a storage and distribution system that meets your needs.

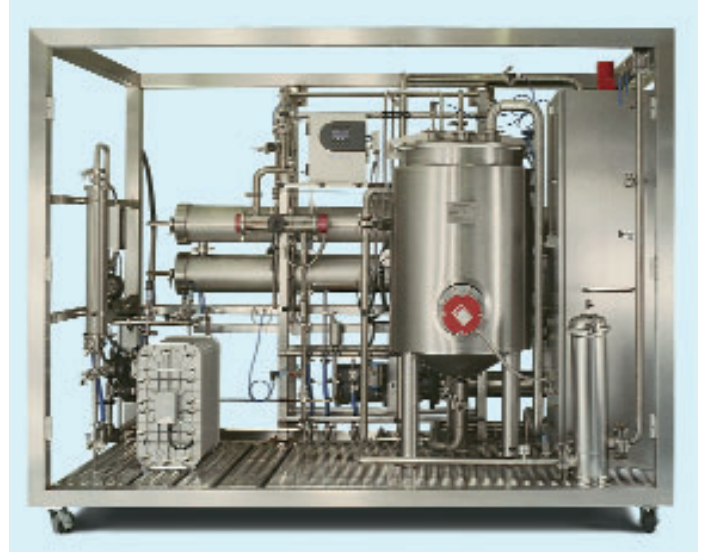
At Puretech we take one step at a time, making sure that the pre-treatment selected is right for the Genesys, producing the required water quality, then ensuring the storage and distribution gives you the volumes of purified water when and where you need it.

Three steps to Purified Water



GENESYS Water System

- Purified water to USP, EP and JP
- Automatic hot water sanitisation
- Flexible outputs from 100 to 10,000 l/hr
- Condensed footprint with optimal accessibility
- Flexible installation options
- Constructed from 316L stainless steel, internal surface finish 0.5 Ra.
- GAMP and 21 CFR part 11 compliant
- 100% weld inspection
- Validation to regulatory and client standards
- Minimises waste water
- Flexible system integration with proven technological options
- Designed for robust and safe operation



System Control

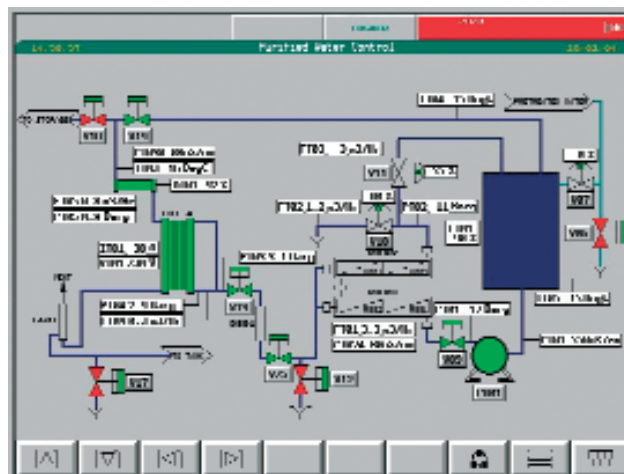
- The Genesys utilises the latest programmable controller technology with touch screen HMI to allow ease of operation and monitoring
- The Genesys allows control and monitoring from a single interface with data logging facilities and links to user BMS systems
- The Genesys control system has the flexibility to operate complete turnkey packages allowing customers to reduce costs and simplify operation using a single access interface for pre-treatment, purification, storage and distribution.

UV Irradiation

The use of an optional UV irradiation unit gives increased microbial control

Electrodeionisation

State of the art EDI technology using ion selective membranes, ion exchange resin and a small electrical current to polish the RO permeate



Storage & CIP

Stainless steel storage vessel allows control of feed pressure, a source for hot water sanitisation and membrane cleaning

Reverse Osmosis

The main purification technology uses polyamide membranes to remove the vast majority of inorganic, organic and microbial contaminants



Certificate No. FM 13098
BS EN ISO 9001 : 2000



Certificate No. EMS75162
BS EN ISO 14001 : 1996

Puretech Process Systems Ltd

Aztec House, Perrywood Business Park, Salfords,
Redhill, Surrey, England RH1 5DZ

Tel: +44 (0)1737 378000 Fax: +44 (0)1737 378055

email: sales@puretech.uk.com website: www.puretech.uk.com

