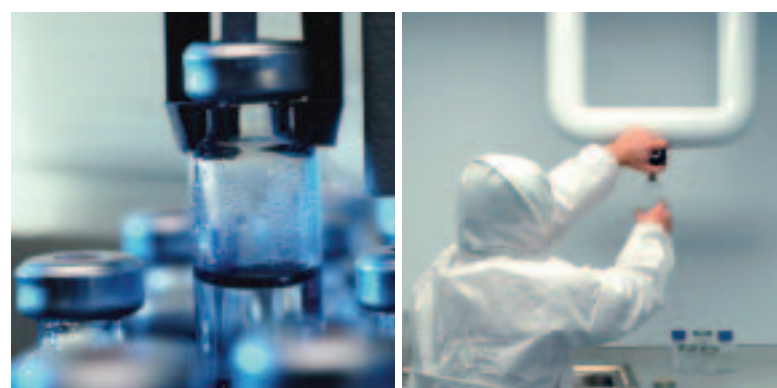
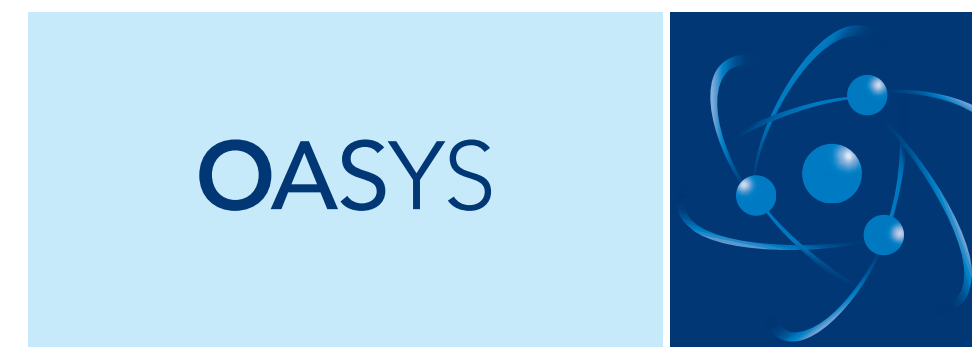


## OASYS Critical Water Purification System

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 'Oasys', the latest in modular pure water systems.

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



Certificate No. FM 13098  
BS EN ISO 9001 : 2000



Certificate No. EMS75162  
BS EN ISO 14001 : 1996

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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.

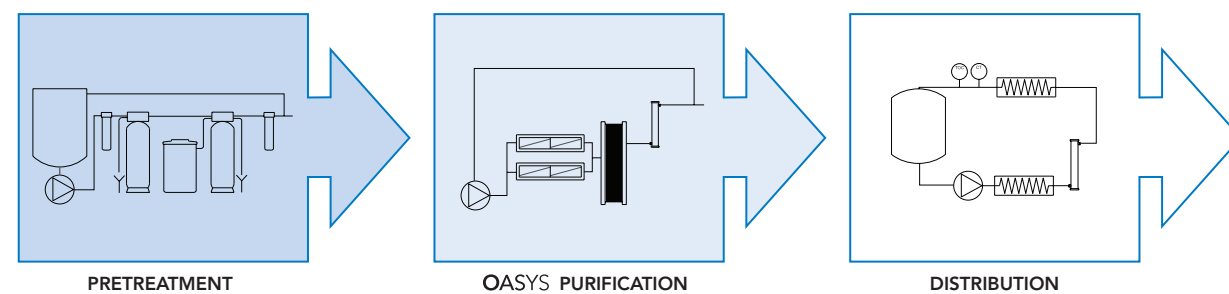
**Pretreatment** - Uses technologies such as ion exchange, filtration, and adsorption to prepare the water for the purification stage and prevent damage to the membrane technologies used.

**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.

### Three steps to Purified Water



The Oasys 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 Oasys 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 Oasys, producing the required water quality, then ensuring the storage and distribution gives you the volumes of purified water when and where you need it.

### OASYS Water System

- Purified water to USP, EP and JP
- PLC controlled with touch screen HMI
- Flexible outputs from 100 to 10,000 l/hr
- Condensed footprint with optimal accessibility
- 316L stainless steel pipework to ASME BPE 2002 post EDI.
- GAMP compliant
- Validation to regulatory and client standards
- Minimises waste water
- Designed for robust and safe operation
- Flexible system integration with proven technological options, including
  - UV sanitization
  - Ultra filtration
  - TOC Monitor
  - Degasser membrane



### System Control

- The Oasys utilises the latest programmable controller technology with touch screen HMI to allow ease of operation and monitoring
- The Oasys allows control and monitoring from a single interface with critical data displayed and links to user systems eg. BMS, DCS or SCADA
- For a fully automated system with large 12" plus touchscreen HMI, comprehensive diagnostics and trending facilities coupled with hot water sanitization - view our Genesys range: [www.puretech.uk.com/genesys](http://www.puretech.uk.com/genesys)



### 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



### Sanitization & CIP

Designed for easy sanitization & CIP, utilising optional mobile skid connected to strategic CIP points.

### Reverse Osmosis

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