



Ovivo  
Pharmaceutical  
Solutions

# Solutions for purified water and water for injection

Ovivo provides exceptionally high-quality water solutions for the pharmaceutical industry, ensuring precise flow rates and meeting industry standards.



Bringing water to life®



Ovivo is your partner in design, development, production and maintenance.

- 1 Installations for producing Purified Water (PW) and Water for Injection (WFI) that meet EP and USP standards
- 2 Storage and distribution systems for Purified Water (PW) and Water for Injection (WFI)

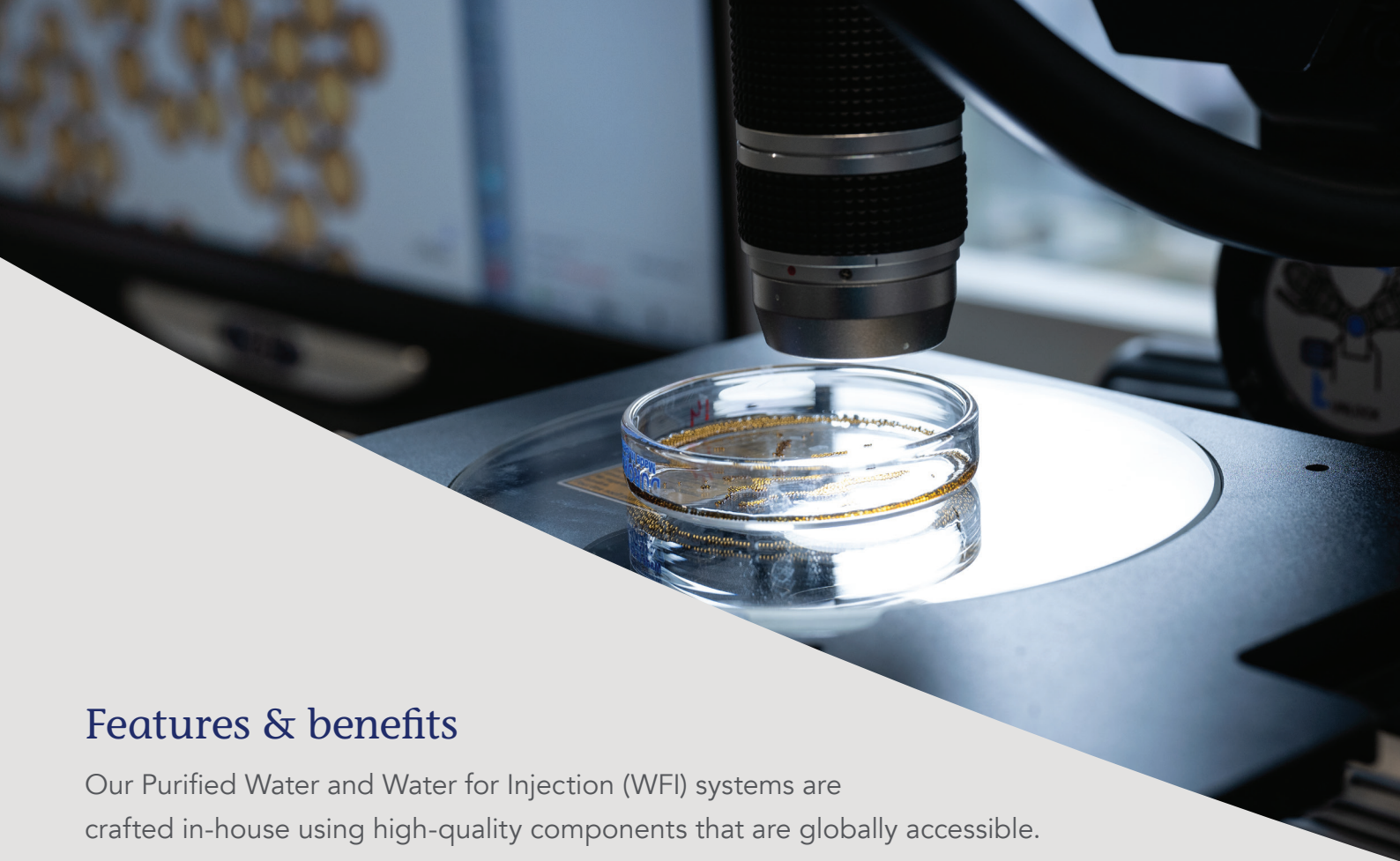
Ovivo is dedicated to understanding your needs and providing expert advice on the most suitable water treatment solutions for your application. We excel in delivering the necessary process water quantity and quality, ensuring a reliable, efficient, and energy-optimized installation.



#### Working with Ovivo means:

- The best solution based on customer needs
- Own design and manufacturing accommodates customer requirements and specifications
- High quality installation and service





## Features & benefits

Our Purified Water and Water for Injection (WFI) systems are crafted in-house using high-quality components that are globally accessible. Additionally, Ovivo guarantees the following for all our Purified Water and Water for Injection (WFI) systems:



**MANUFACTURED  
AND PREASSEMBLED**

All systems are produced and preassembled in our workshop.



**MODULAR CONSTRUCTION**

Constructed in pre-mounted sections. (Pretreatment, RO-EDI-UF, and Distribution)



**USER FRIENDLY**

Easy to operate, designed to facilitate servicing



**PLUG & PLAY  
READY FOR CONNECTION**

Tested, pre-qualified in our workshop and ready for connection at customer site.



**AVAILABLE IN DIFFERENT  
CAPACITIES**

Available in different capacities from 350 l/h up to 20 m³/h.



**AUTOMATION CONCEPT**

Based on Siemens PLC or Allen-Bradley (Rockwell)



**COST EFFECTIVE**

Based on standardized engineered concepts.



**ENERGY EFFICIENT**

All installed pumps are executed with Variable Speed Drive (VSD) to save energy.



**SANITIZATION**

Sanitization by hot water for PW and WFI generation units and Ozone or hot water for distribution systems.



## Pharmaceutical water

High purity water is vital for the pharmaceutical industry, laboratories and healthcare facilities. These organizations demand exceptional quality because the medications they produce, the services they provide, and ultimately the health of patients depend on it.

### OPTIMISED PURIFIED WATER SOLUTIONS

#### Purified water

Purified Water (PW) is the first grade of water quality in the pharmaceutical and healthcare industries.

It is used in the preparation of non-sterile products and as a base material in the preparation of Water for Injection and pharmaceutical-grade pure steam. It is also used for rinsing purposes (cleaning of containers) and in the preparation of cleaning solutions.



### THE PUREST PHARMACEUTICAL-GRADE WATER

#### Water for injection

WFI is used in the manufacture of parenteral and ophthalmic products. It is also used for final rinsing of pharmaceutical containers (e.g. primary packaging materials) and in the manufacture of these products. Ovivo provides the best systems for the production of WFI, ensuring that each solution is based on our customers' manufacturing needs, meets regulations and comes with all the related documentation for successful inspections and audits.







## Systems and turnkey solutions

Drinking water is mandatory and is used as the basis for the production of pharmaceutical water, but such water is not available everywhere in the necessary quality and quantity. The use of Ovivo ultrafiltration systems is a reliable method for the production of drinking water from raw water and as an optimal pre-treatment stage to protect downstream PW/WFI processes.

### Purified water and water for injection

PW and WFI are among the most critical raw materials for pharmaceutical water production and related industries. As such the qualities present at the point of use are regulated by the different international pharmacopoeias such as USP, EP, JP etc.

To safely achieve the defined qualities and maintain appropriate safety, alarm and action levels, it is important to deliver highest qualities to the storage and distribution systems.

All Ovivo PW/WFI installations are available with chemical sanitization and/or with hot water sanitation.

### Validation, qualification & documentation

Validation and documentation engineers accompany each project through all steps of the V-model, starting with the URS and ending with FAT, SAT/IQ, and OQ. Ovivo can also support the customer in the PQ phase.



Ovivo pre-validated and tested PW/WFI generation products are an optimal choice, and provide technology for any kind of PW/WFI generation need, project requirement and budget.





## Automation

The automation and control system is the brain and heart of every clean utility system. Ovivo automation products are available for all systems and provide high quality process control with validated open source software and interface graphics. Everything is based on the internationally recognized premium control products of Allen Bradley or Siemens and other brands on request of the customer.

### Optional features for enhanced system control and comfort:

- 1 Ovivo Data Export Ethernet connection with each of the individual systems and extract and monitor all available data.
- 2 The Ovivo Remote Operation allows for the complete replication of your HMI system to your office computer or remote tablet, and grants you easy access and information on the status of the system from any location.
- 3 Ovivo Remote Assistance allows skilled Ovivo engineers to support your operators via a secure VPN (Virtual Private Network) internet connection in case of emergency.

Executing projects according to cGAMP requirements is the basis for best performance and results.







## Customer service

Consistent performance in quality and quantity of the clean utility systems as well as maximum availability are critical to any pharmaceutical or related production process. To safely ensure the performance during the entire system life cycle regular and well documented maintenance as well as calibration of quality relevant process instrumentation is necessary.

### 24/7 service

Expertise combined with modern tools will provide support and service for your installation from anywhere around the globe. Our international team is available for you 365 days per year on a 24/7 basis and, with our Hotline, assisting you in all questions regarding your Ovivo installations.

Together with local critical spares Ovivo Parts department provides you with a central warehouse to supply validated high quality wear and spare parts for optimal system availability.

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