



WTP

Potable Water Treatment for Military Applications



DEVISE Packaged/Containerized Mobile Water Treatment Plant with Ultra-Filtration (UF) Technology

DEVISE ENGINEERING is an experienced Packaged Plant Manufacturer providing effective solutions in the field of Water & Wastewater Treatment. DEVISE's technical approach includes the incorporation of well proven treatment processes as well as innovative high-end technologies so to provide smart and effective solutions that are implemented using compact, prefabricated and modular units. DEVISE Packaged Plants for the Water- Wastewater Treatment are of the highest quality and performance.



Technologies/Processes

DEVISE Containerized/Packaged Plants for Potable Water Treatment are based on the ultrafiltration (UF) technology using low-fouling hollow fiber membranes and can produce high quality potable water. This technology has been proved effective in numerous potable water installations worldwide and is considered the most up-to-date technology in water treatment. The resulting filtered water quality is characterized by low turbidity, absence of viruses and bacteriological contaminants and low SDI values. The filtered water can be safely used as potable water as well as a feed to other desalination applications.

Characteristics and Capacities of DEVISE Packaged WTP for Military Applications

DEVISE Water Treatment Plants (W.T.P.) using UF technology can treat raw water from all kinds of surface water sources (rivers, lakes, etc) as well as underground water as long as the salt content, expressed in (TDS), is not more than 1000 ppm. The DEVISE Containerised WTP can provide safe and palatable drinking water with quality higher than the WHO guidelines, for all Military Applications. The Treatment Units are Modular and fully Mobile and are characterised by their compactness, heavy duty design and construction, suitable for all terrains. DEVISE Containerized Plants are operating in high temperature environments (Gulf countries) as well as in climates with freezing conditions (North Europe, Eurasia). The units incorporate robust design and innovative engineering for minimum maintenance and reduced supervision. The units are integrated inside specially modified ISO freight containers for easy deployment and are built with high quality materials, equipment and instrumentation while the incorporate a fully automatic operation with PLC and long distance monitoring system if required.

Treatment capacities of Mobile Units

DEVISE Containerized WTP can be designed to suite client's particular requirements and incorporate special features so to cope with harsh operating environments.

The Units are primarily designed to cater for standard drinking water productions capacities of 100, 500, 1000, 2000 and 4000 m³/day. Multiple containers or skid-mounted units can produce Water Treatment facilities of much higher capacity.

DEVISE Expertise – Specialized Services

Consultation Services

- Identification of requirements
- Determination of Specifications
- Testing & Quality control of equipment and installations

Design & Construction Services

- Design of specialized systems
- Installation of plants and equipment
- Plant start-up, commissioning and performance monitoring
- Troubleshooting & repair
- Supervision and Distance Monitoring of Plants
- Operation & Maintenance and after sales services

Customer Staff Training

Main Advantages

Smart Design

- Pre-engineered & prefabricated plants
- Modular design
- Compact and high-rate performance
- Fully tested before dispatch
- Ready to plug & play
- Space saving - Small foot print

Easy & Reliable Operation

- Fully automatic – PLC controlled system
- User friendly interface (touch screen HMI)
- Remote monitoring
- Low maintenance requirements
- Self-cleaning mechanisms incorporated

