



## COMPACT DRINKING WATER PLANTS



### BLUE B SHELTER



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The BLUE B SHELTER water treatment unit is designed to produce drinking water from brackish water sources such as wells, rivers and lakes including in remote areas with limited water resources.

The BLUE B SHELTER is built inside a standard size container which has been modified and recertified for sea and road transport. The BLUE B SHELTER is easy to transport and position on site where the container can remain as the system's permanent housing.

These systems are ideal for use in temporary or permanent settlements including workers camps, temporary or mobile exploration camps, villages or missions.

#### **Water treatment through reverse osmosis (RO):**

- Corrosion resistant structure in stainless steel;
- Automatic backwashing system;
- Filtration pretreatments to protect the membranes and maximize the life of the system.

#### **Modularity:**

- The system can be made autonomous by adding a power generator and fuel store in another container;
- Drinking water storage possible in additional container;
- Drinking water distribution including network piping and fountains (street taps) can be easily added to the project.

#### HOW IT WORKS

The BLUE B SHELTER includes pretreatment through sand and cartridge filters.

The BLUE B SHELTER is robust and reliable and at the heart of the plant is a reverse osmosis (RO) system complete with pressure pumps and RO membranes specifically designed for brackish water.

The BLUE B SHELTER is controlled automatically through a dedicated electrical control panel.

#### **“Plug and play”:**

- Delivered ready for rapid installation onsite;
- The system configuration optimizes space which facilitates transport, on site movement and positioning and the final installation.

#### **Construction and materials:**

- All materials are corrosion resistant;
- All pumps are in stainless steel;
- Protected from the elements in containerized housing;
- Systems are factory tested before dispatch to site.



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#### TECHNICAL DATA

TECHNICAL DATA	BLUE B SHELTER
Raw (feed) water	Brackish water
Drinking water flow rate (depending on salinity)	2.5 ~ 15 m <sup>3</sup> /hr MAX (different models)
Ambient working temperature	5°C ~ 50°C
Installed power	4.5 ~ 12 kW 380 V 50 Hz
Dimensions	6100 x 2400 x 2500 h mm (minimum dimensions, different models available)

#### SPARE PARTS & ACCESSORIES

✓ Available

DESCRIPTION	BLUE B SHELTER
Spare parts and consumables kits (1, 2 or 3+ year's supply)	✓
Chemicals, cleaning and conservation products (kits)	✓
Raw and treated water storage tanks (various types)	✓
Photovoltaic system	✓
Power generator and fuel storage (in separate container)	✓
Drinking water distribution system	✓
Training on-site or in Idro Group facilities	✓
User and O&M manuals in languages other than English/Italian	✓

*Idro Group produces a wide range of water treatment plants which can be tailored to your needs.*