

FBWC 12000 Tank Container for Transport and Distribution of Potable Water



- capacity: 12 000 litres
- insulation and heating system preventing the water and water system from freezing at the ambient temperature of down to -32°C
- insulation and cooling system preventing water temperature from rising above $+15^{\circ}\text{C}$
- safe water storage time: up to 3 months
- materials certified for contact with potable water



Application

- firing ground and training centres
- logistic units
- Peace Keeping Missions
- Rapid Reaction Forces

Designation

The tank container of 12 000 litres capacity is designed for transport, storage and distribution of potable water.

Materials

Each element of the tank is made of materials certified for contact with potable water (austenitic steel or Duplex steel).

The tank is installed into a 20' 1 CX type container frame.

The container frame is equipped with a hook lift system made of high quality steel (S355J2G3).

Basic equipment

The tank container is equipped with:

- three-phase generator set
- water pump
- pipe and hoses system on reels (equipped with filling guns)
- water cooling system (water storage temperature range: from $+13^{\circ}\text{C}$ to $+15^{\circ}\text{C}$)
- water conservation system (safe storage time: up to 3 months)
- control and measurement system indicating current system parameters
- generator set and pump control system
- anti-freezing system

The tank container and each pipe installation is equipped with an insulation and heating system preventing water and the water system from freezing at temperatures down to -32°C .

CENZIN sp. z o.o.
81/83 Czerniakowska Street
00-957 Warsaw - POLAND

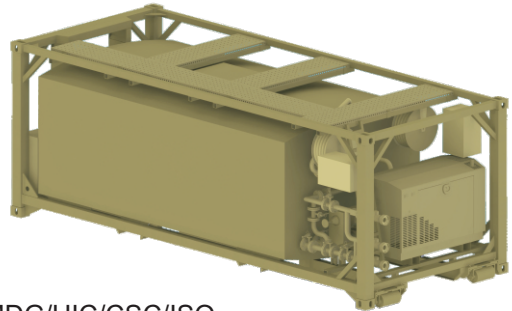
phone: +48 22 43 44 133
fax: +48 22 43 44 163
cenzin@cenzin.com.pl
www.cenzin.eu

FBWC 12000 Tank Container for Transport and Distribution of Potable Water

TECHNICAL CHARACTERISTICS

Typical Design Specification

■ tank container type	1CX
■ capacity	12 000 l nominal
■ number of compartments	single (4 baffles)
■ tare weight	4 500 kg
■ maximum gross weight	16 500 kg
■ maximum working pressure	110 kPa
■ hydraulic test pressure	400 kPa
■ ADR calculation pressure	400 kPa
■ vacuum pressure	40 kPa
■ temperature range	-32 °C to +70 °C
■ design code approval	PRS/ADR/RID/IMDG/UIC/CSC/ISO



Tank Container Details

■ tank material	Duplex steel LDX 2101
■ baffle material	Duplex steel LDX 2101

Framework Details

■ frame size (L x W x H)	6058 mm x 2438 mm x 2170 mm
■ frame material	mild steel (S355J2G3)
■ frame with integrated hook lift system	mild steel (S355J2G3)

Equipment Details

■ FORT VALVE safety relief valve	1 of 1.5" BSP relief valve with burst disc
■ hatch	stainless steel 500 mm
■ valves	10 of 2" stainless steel butterfly valve with 3" cam lock couplings
■ drainage taps	2 of 3/4" ball valves with cam lock couplings
■ fire extinguishers 12 kg	2
■ pump unit with filters	Mono Pumps Ltd. SB04KAC1R5/G, 312 l/min
■ automatic hose reels with hoses	2 (one on left side and one on right side):
and filling guns	1 x flow control 0/150 l/min, 1 x flow control 0/60 l/min
■ generator set	caterpillar Olympian GEP 13.5
■ electrical heating system	heating rod 3 x 1000 W and heating trace on pipe system of 3000 W
■ water cooling system	water storage temperature range: from +13°C to +15°C
■ water conservation system	safe water storage time: up to 3 months
■ control panel	power supply 12 V or 24 V

Insulation Details

■ material	rockwool 50 mm thickness
■ insulation support	stainless steel plates 1 mm thickness