GENERAL
Basic functions
Ballast Water Treatment
Description
The container is a fully automatic treatment system with a type approved Alfa Laval PureBallast system. This solution is plug & play and suitable for on-board Ballast Water Treatment.

BWT System
Treated rated capacity
1000 m³/h
Technology
Filtration & Medium Pressure High Intensity UV Cleaning system UV
Cleaning system filter
Automatic backwash system
Power consumption
400/440 V, 113 kW, 50/60 Hz

POSITION ON THE VESSEL
Hazardous area
Can be placed in hazardous area 1 Up to and including upperdeck of Aframax class vessels
Avoiding bow impact area
Mounting on deck
By means of welding

DIMENSIONS
Deckhouse
(LxWxH) 5767 x 2305 x 2565
Gross weight
± dry 12.400 kg ± wet 14.410 kg
Wall thickness
8 mm thick steel
Top and bottom of Corrosion protection
5 mm thick steel IP Intershield 3 layers
Color
Pure white RAL 9010
Lifting
At top lifting eyes

SHIP CONNECTIONS
Power connection
Roxtec cable entry
Ballast connection
Intell' outlet DN 350
Backflush
DN 150
Flushing, Fresh Water
DN 32
Coring water
DN 50
Drain reactor
DN 32
Drain CIP fluid
DN 32
Cable penetration
RGS-4
Air connection
DN 25
Flanges
DIN EN 1092-1

COMPONENTS
Valves, operation
Electropneumatic EX
Filter
Self-cleaning filter EX
UV reactor
Power cabinet
Control cabinet
Regulating valve
Flowmeter
Booster pump
Fan
Heater
HVA power cabinet
Piping
Insulation
Interior lighting
Door
Ladder
Bilge
Detection system

AMBIENT CONDITIONS
Sea water temperature
Max. 35°C
Ambient temperature
Max. 45°C
Min. -5°C optional -20 °C

APPROVALS AND CERTIFICATES
Alfa Laval PureBallast
The PureBallast system is IMO and USCG type approved
Classification societies
Deckhouse is designed for all Major class societies

EX
EX Rating
All components, wiring, inside the deck house are classified for use in hazardous areas in accordance to the IEC 60079 series of standards: Zone 1, explosion group IIB and temperature class T4 (135°C)
BALCON BWT SYSTEM EX
DAMEN ‘BALCON 1000’, outfitted with PureBallast Alfa Laval, designed for wave impact