**GENERAL**

**Basic functions**
- Receive and treat raw ballast water from ships according D2 standard
- Supply clean ballast water to ships according D2 standard

**Description**
- Mobile ballast water discharge technology. This solution is plug & play and suitable for external Ballast Water Treatment

**Treated rated capacity**
- 5 - 300 m³/h

**Technology**
- Filtration & Low Pressure High Intensity UV

**Power consumption**
- 400/440 V, max. 140 kW, 50/60 Hz

**Automation**
- Fully automated for one-man operation. Remote access and support

**APPROVALS AND CERTIFICATES**

- **InvaSave** IMO type approval issued at Rotterdam 4199/2017
- **Classification societies** BV and CE approved
- **Container** CSC approved

**DIMENSIONS**

- 40 feet high cube container (LxWxH) 40’x 8’x 8’
- Gross weight ± dry 24.000 kg ± wet 28.000 kg
- Color Pure white RAL 9010
- Lifting Container corners

**CONNECTIONS**

- Ballast connection Inlet/outlet DN 150 flange DIN
- Fresh Water DN 25
- CIP fluid DN 40
- Sludge DN 80

**TANK CAPACITIES**

- Fuel tank 1.50 m³
- Fresh water tank 1.50 m³
- Silt tank 1.10 m³
- Sludge tank 0.50 m³

**COMPONENTS**

- **Valves, operation** Electropneumatic
- **Main filter** Self-cleaning filter
- **UV reactor** UV Low Pressure High Intensity
- **Secondary filters** Dewatering of backflush from main filter
- **Separator** Dewatering of silt from secondary filters
- **Power cabinet** Power cabinet
- **Booster pump** 300 m³/h @ 28 m freq. Controlled
- **Air compressor** 8 bar
- **Cleaning system UV** CIP module
- **Freshwater pressure set** 2 m³/h
- **Control cabinet** CC with trackball 17” TFT color graphic screen
- **Regulating valve** 1x regulating valve
- **Flowmeter** 2x magnetic type
- **Fan** For 6 air changes
- **HVAC** Container is equipped with a heating and cooling system
- **Piping** PVC-C and stainless steel
- **Insulation** Minimum 50 mm
- **Interior lighting** 6 lamps (with emergency supply)
- **Door** Two entrance doors
- **Generator** Volvo, TAD752GE 149 kWe, Industrial engine US/EPA Tier 3 and EU Stage 3A
- **Smoke detector** Two smoke detectors

**AMBIENT CONDITIONS**

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

**PATENT**

- **Patent** US Pat. No.10,464,821
- EU Pat. No. 3145874
- Australia Pat. No. 2015261833
- Singapore Pat. No. 11201609444Q
INVASAVE 300
MOBILE BALLAST WATER DISCHARGE TECHNOLOGY

Connections

<table>
<thead>
<tr>
<th>POS</th>
<th>Name</th>
<th>Dimension</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Sludge discharge</td>
<td>DN100</td>
</tr>
<tr>
<td>2</td>
<td>Power Supply, 180 KVA</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Fresh water Supply</td>
<td>BSP 1”</td>
</tr>
<tr>
<td>4</td>
<td>Ballast water intake</td>
<td>DN DN150 PN10</td>
</tr>
<tr>
<td>5</td>
<td>Ballast water Discharge</td>
<td>DN DN150 PN10</td>
</tr>
<tr>
<td>6</td>
<td>Power Supply (Hold Loads)</td>
<td>CEILIP 50A</td>
</tr>
</tbody>
</table>

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