



# INVASAVE 300

## MOBILE BALLAST WATER DISCHARGE TECHNOLOGY

### 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 - 300m <sup>3</sup> /h
Technology	Filtration & Low Pressure High Intensity UV
Power consumption	400/440 V, max. 140 kW, 50/60 Hz
Maximum working pressure	10 bar
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 m <sup>3</sup>
Fresh water tank	1.50 m <sup>3</sup>
Silt tank	1.10 m <sup>3</sup>
Sludge tank	0.50 m <sup>3</sup>

### 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 m <sup>3</sup> /h @ 28 m freq. Controlled
Air compressor	8 bar
Cleaning system UV	CIP module
Freshwater pressure set	2 m <sup>3</sup> /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 kW <sub>e</sub> , 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

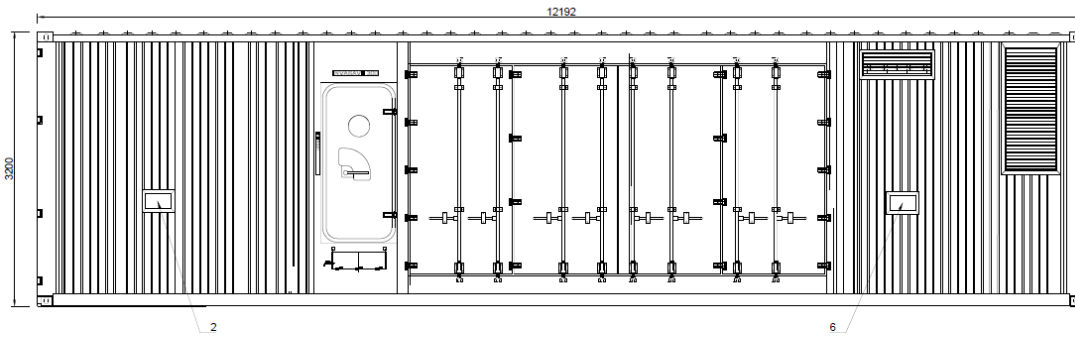
### PATENT

Patent	US Pat. No.10,464,821 EU Pat. No. 3145874 Australia Pat. No. 2015261833 Singapore Pat. No. 11201609444Q
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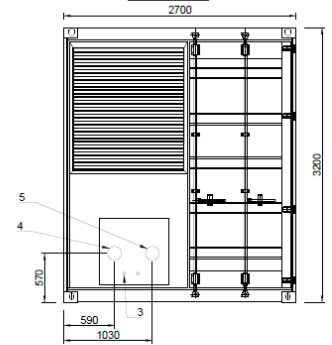
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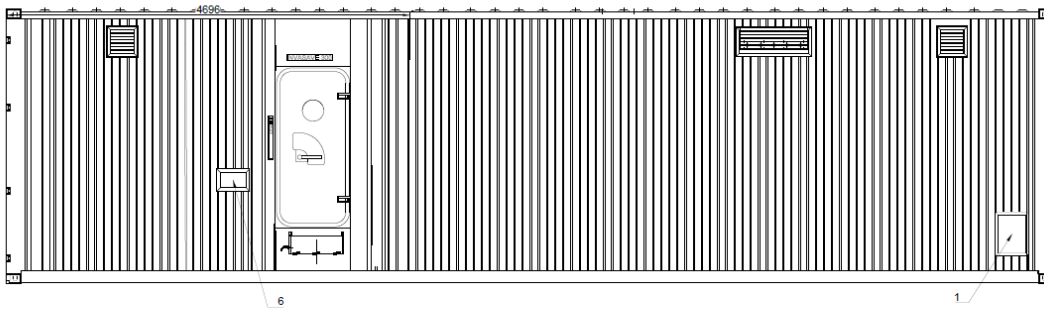
VIEW ON SB



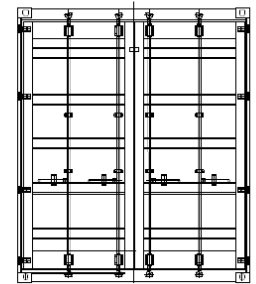
REAR SIDE



VIEW ON PS



FRONT SIDE



Connections		
POS	Name	Dimension
1	Sludge discharge	DN80
2	Power Supply 180 kVA	
3	Fresh water Supply	BSP 1"
4	Ballast water Intake	DIN DN150 PN10
5	Ballast water Discharge	DIN DN150 PN10
6	Power Supply (Hotel Load)	CEE5P 32A

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