

Approved by:



Envirocleanse inTank™ Ballast Water Treatment System

INTRODUCING A SIMPLE, ROBUST AND RELIABLE BWTS SOLUTION – INTANK

NO INTERRUPTIONS AT PORT • NO FILTER • LOWER POWER DEMAND

Why should I choose inTank?

The inTank™ BWTS only operates during the voyage. All port based ballasting and de-ballasting activities are completed as normal - no filtration, no increase in power demand, no concern of ballast water quality. Treatment and neutralization are confirmed and recorded before de-ballasting starts.

How it Works

During the voyage, an electrochlorination cell uses clean seawater to create sodium hypochlorite. At the same time, ballast water is circulated and the newly-created disinfectant is injected into the circulation loop. The mixture is then returned to the ballast tank through the in-tank mixing nozzles which rapidly diffuse the biocide in the tank. Oxidant level is monitored via a TRO meter on the circulation line. TRO measurements confirm the required Concentration Time (CT) dosing.

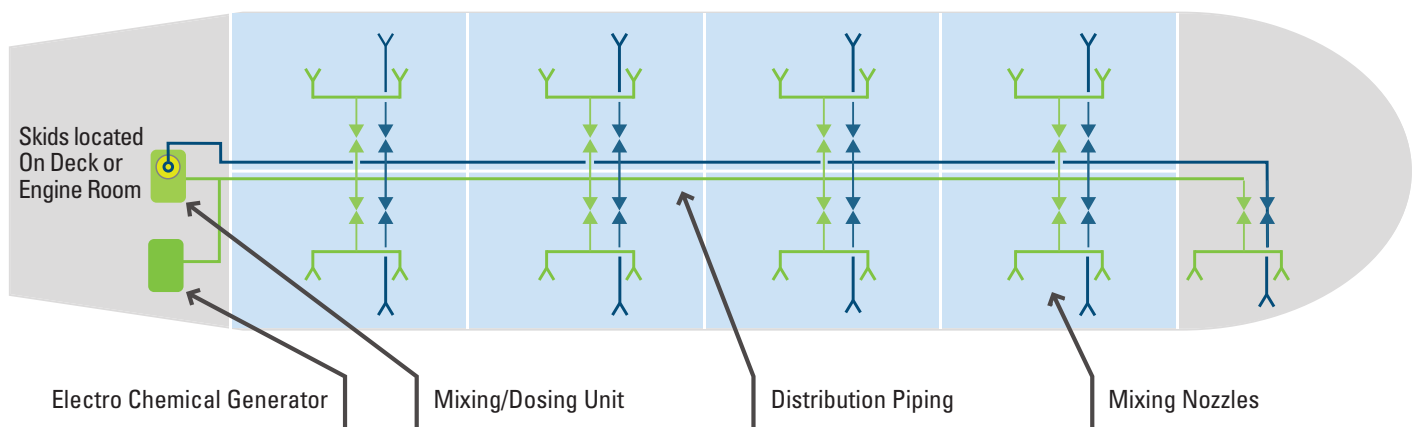


FIGURE 1: Basic set-up of an inTank ballast water treatment system.

Existing ballast piping system

inTank components



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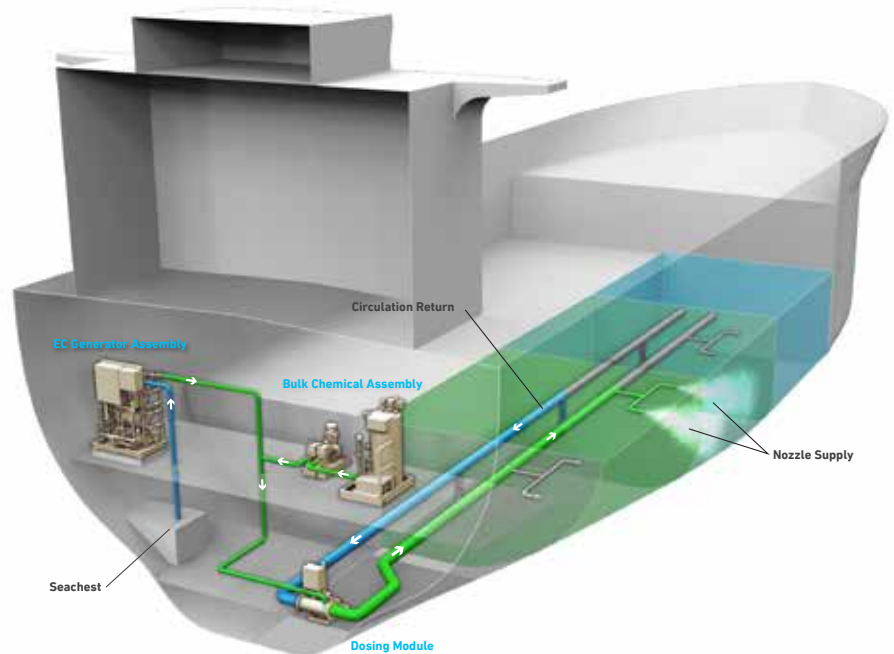


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ADVANTAGES OF IN-TANK BALLAST WATER TREATMENT

In Port:

- Cargo and ballasting operations are not impacted
- Your ballasting plan, sequences and pumps are not impacted
- No filters, no backwash, no flow losses and no downtime
- Crew-time remains dedicated to vital cargo operations
- Power loads and balance is not impacted
- Gravity discharge is COMPLETED AS NORMAL



At Sea:

- Not dependent on salinity at port
- Sufficient available power
- Sufficient crew-time and resources available
- Flexibility on timing to start ballast water treatment
- Flexibility for bulk-dosage or electro-chemical generator (or both)
- Fully automated concentration-time DOSING and TRO measurement
- No HAZARDOUS CHEMICAL Storage
- Active regrowth suppression during entire voyage - weeks or months

Installation, Maintenance and OPEX:

- Small footprint of system components and dedicated distribution pipe work
- Easy integration into dedicated machinery spaces
- Reliable inTank distribution and mixing nozzle design for optimal diffusion
- Robust and proven hypochlorite generator
- Low maintenance
- No FILTRATION equipment, lamps and/or vibration prone components
- Lower power demand



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