



Introducing the World's Most
COMPREHENSIVE
BWTS Monitoring Platform



Ballast Water Management Technology

A CALGON CARBON COMPANY

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hydmarine.com

Hyde GUARDIAN-US (Universal Service) is the next revolutionary step across the ballast water treatment industry – effectively changing the range and ease by which shipowners and operators may combat the spread of aquatic invasive species.

Remaining dedicated to the needs of our modern equipment users, Hyde Marine has again raised the bar with its interlocking suite of support services, IoT technologies, and indicative compliance offerings.



Data Log Analysis Utility (DLAU): Strong Performance Empowered by Strong Data

DLAU is a cloud-based, data analytics solution empowering continual GUARDIAN BWTS performance monitoring, standardized reporting and options for enhanced, fleet-wide vessel/operator compliance management.

With DLAU, GUARDIAN BWTS owners may easily track system performance and proactively identify necessary maintenance tasks before problems arise. Additionally, analysis performed by DLAU is automatically forwarded to Hyde Marine Technical Support staff for review. If recommendations and/or corrective actions are advised, these will be proactively communicated to the vessel and/or remotely implemented via Remote Access technologies. This forms a complete and close-looped support system.

With each submission of data, a performance report comprising thirty (30) days of GUARDIAN BWTS operational history is supplied to the vessel. Each report contains summaries of performance analysis, a list of dates for when compliance deviations may have occurred, a comprehensive list of any/all alarm events which may have occurred, and plots for all GUARDIAN process parameters important to proper system operation. This is the future of BWTS equipment support.

Access to DLAU technology is free during the GUARDIAN BWTS warranty period following vessel registration.

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DLAU

Detected Alarms:

- System Bypass Valve NOT Closed while Ballast Treatment Alarm
- Detailast Valve Failed to Open
- Negative Filter Inlet Pressure
- Low Control Air Pressure / Loss of Air Pressure
- Filter Inlet Pressure Loss of Signal
- Cooling Valve Failed to Open

Performance Plots:

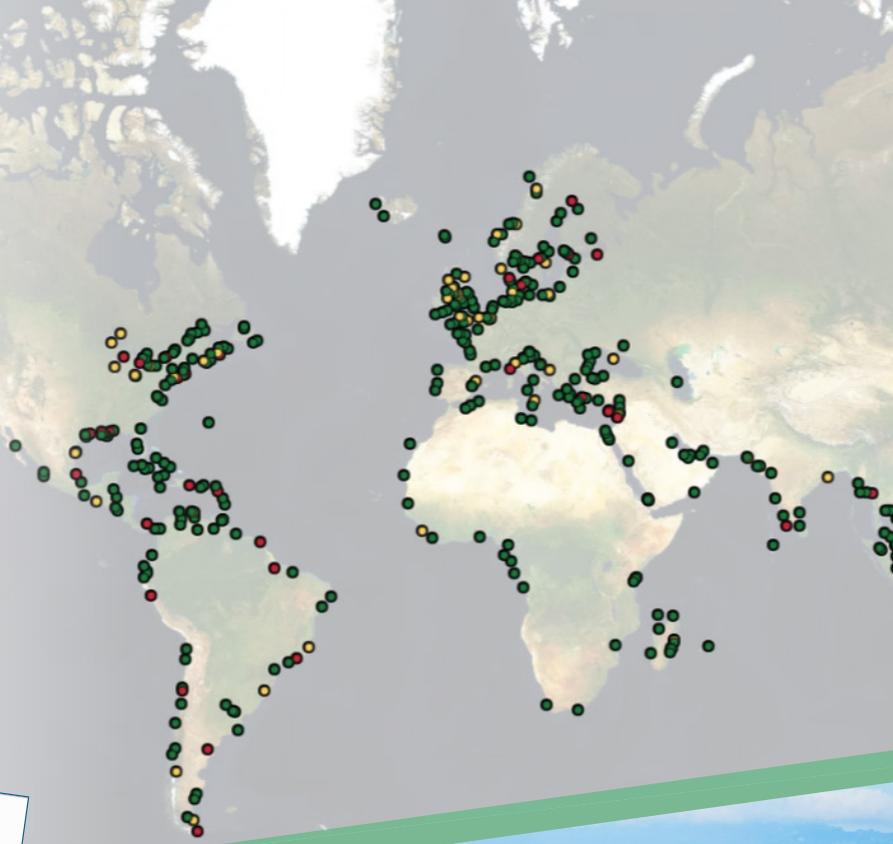
GUARDIAN BWTS Filter Performance

GUARDIAN BWTS UV Chamber Performance

GUARDIAN BWTS UV Treatment

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The GUARDIAN Objective:

To be a pioneering, world-class BWTS solution and service provider known for our excellence and vision - building upon our long history and the natural creativity between people and technology - working together to be a reliable, responsible, and compassionate leader to our collective cause.