

Alfa Laval PureBallast 3 Ultra Skid

Skid-mounted solution for maximum performance in a minimized footprint

Introduction

Answering the demand for compact and easy installation, the Alfa Laval PureBallast 3 Ultra Skid delivers leading ballast water management technology as a turnkey solution. Available for ballast water flows up to 600 m³/h, it arrives assembled, tested and ready to connect. All core components and prefabricated piping are integrated within the frame, supported by a separately installed electrical cabinet.

Application

The PureBallast 3 Ultra Skid is a ready-to-install solution for ballast water management, incorporating a complete PureBallast 3 Ultra system.

PureBallast 3 Ultra treats ballast water without chemicals, using a combination of high-performance filtration and enhanced UV treatment. Type approved by IMO and the U.S. Coast Guard (USCG), it offers superior biological disinfection performance in fresh, brackish and marine waters – including low-clarity waters.

For more on PureBallast 3 Ultra technology and performance, please refer to the PureBallast 3 Ultra leaflet.

Benefits

- Simple installation – delivered assembled and ready to connect
- Minimal skid footprint for tight onboard spaces
- Flexible scope including all PureBallast 3 Ultra component options
- Superior performance in any waters – and challenging conditions
- Designed and supported for the whole vessel lifetime



Simplified installation - same treatment

The PureBallast 3 Ultra Skid reduces installation time and complexity without compromising on biological disinfection performance. Apart from the skid, the components and functions are the same as in other PureBallast 3 Ultra systems.

Alfa Laval handles everything from design to quality assurance, ensuring optimal flow distribution and compliant treatment of your ballast water – even in challenging conditions.

Simplicity combined with flexibility

Both the skid layout and the system configuration are flexible. All PureBallast 3 Ultra component options and add-ons are available for the PureBallast 3 Ultra Skid.

Skid-installed components

The following core components are seamlessly integrated into the PureBallast 3 Ultra Skid:

- **Filter**
Used during ballasting, the filter blocks the intake of larger organisms and reduces sediment in the ballast water tanks.
- **Reactor**
Built with long-lasting super duplex stainless steel, the reactor comprises the enhanced UV treatment stage responsible for biological disinfection.
- **Compact cleaning-in-place (CIP) unit**
UV lamp performance is safeguarded by an automatic CIP cycle that removes UV-impairing fouling and scaling.

Electrical cabinet

The electrical cabinet that powers the system is installed separately, within 100 m of the skid. It features a 10-inch graphical touchscreen interface for system operation.

Optional components

The following optional components can be delivered integrated into the skid:

- Backflush pump
- Check valve

All other PureBallast 3 Ultra component options can be installed outside the skid.

Physical data

Skid			
System capacity (m ³ /h)	Dimensions (L x W x H) (mm)	Dry weight (kg)*	Wet weight (kg)*
85	1344 x 1124 x 1652	790	876
135	1473 x 1188 x 1652	938	1075
170	1473 x 1188 x 1652	973	1110
300	1552 x 1208 x 1980	1250	1550
500	1795 x 1390 x 2097	1700	2230
600	1795 x 1390 x 2097	1710	2240

*Weight without backflush pump and check valve.

Electrical cabinet

System capacity (m ³ /h)	Dimensions (L x W x H) (mm)	Weight (kg)
Up to 300	1303 x 745 x 1590	270
500 - 600	1503 x 745 x 1790	335

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