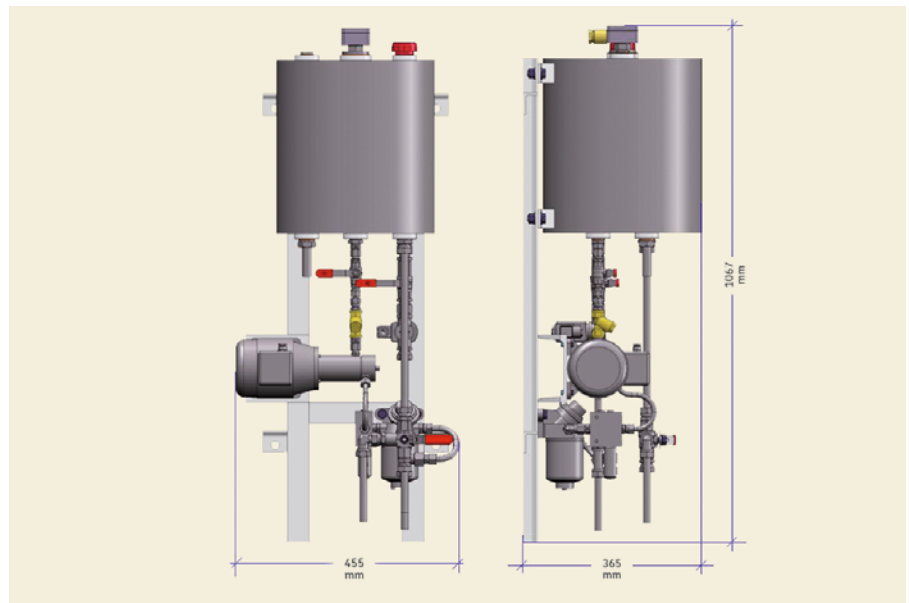


Simplex Active circulation unit

General description

- Continuous lubrication and venting of the aft seal oil chamber
- Permanent monitoring of the lubrication oil by control unit
- Optimized lubrication of the sealing rings with refreshed oil
- 100 % air free oil system in the aft seal oil chamber
- Simple and safe initial filling of oil pipes and the aft seal oil chamber



Advantages

Design

Perfect venting → avoids air pockets even if the pipe layout is challenging due to the ship's design → reduced risk of damage at the sealing lip

Reliable lubrication by oil circulation
→ increased lifetime of sealing rings and liner

Installation

Delivered fully assembled and tested
→ immediate and easy installation by the shipyard

Operation

Permanent condition monitoring of oil quality, oil flow and additional water content for mineral oil

Comfortable and easy operation by control unit (optional connection to the Airspace touch panel) → reduced risk of operating failure

Services

Designed for in-situ overhaul as per certified and approved Simplex repair standards

Worldwide service network and availability of spares



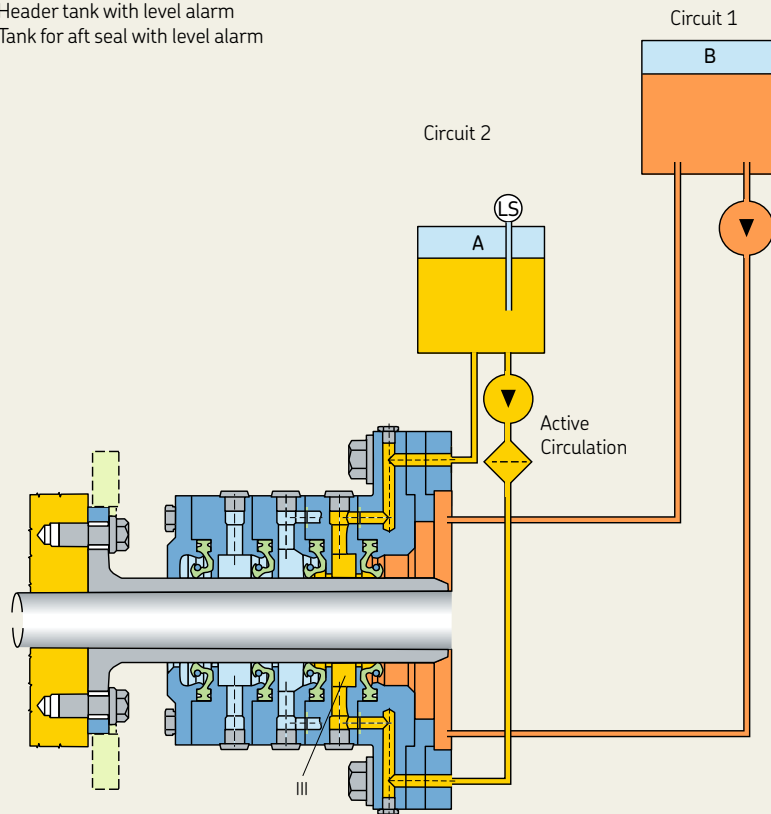
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Function

- Aft seal oil is continuously circulated through the aft seal oil chamber III and returns via the ventline into the aft seal tank (B).
- Two separate oil systems for aft seal and sterntube lubrication ensure an effective barrier between sterntube oil and seawater.
- Aft seal oil and sterntube oil are treated separately.
- Control unit monitors all system components.
- Oil condition from the aft seal can be monitored.
- Lube oil from the aft seal chamber III can easily be refreshed.

Functional principle

A = Header tank with level alarm
B = Tank for aft seal with level alarm



Applications

- Perfect oil supply to the aft seal in case of long and/or insufficiently vented pipe lines
- Suitable for all vessels with Simplex seals having two pipes connected to the oil chamber

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