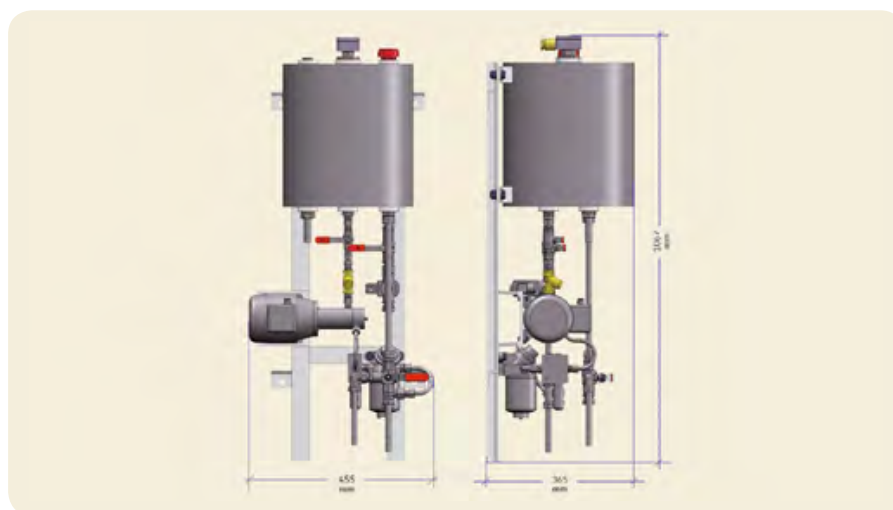


# Simplex Active circulation unit

## 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

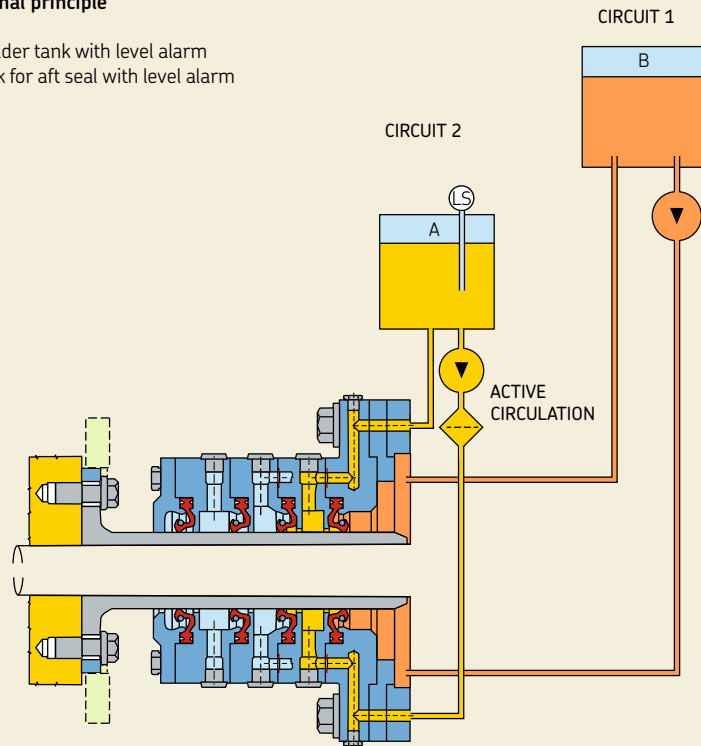
Worldwide service network and availability of spares

## Function

- Aft seal oil is continuously circulated through the aft seal oil chamber II or 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 II or 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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