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 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 been refreshed.

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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