

Simplex Oil Dryer

General description

- Oil dewatering unit for aft seal lubrication oil
- Keeping the aft seal lube oil virtually free from contaminant water
- Delivered as a complete system with oil circulating pump and filter
- Available for new-builds and retrofits
- Dewatering rate up to 1,5 liters per day

Advantages

Design

Space-saving compact system with aft seal tank, pump, filter and control box already piped and wired on a frame

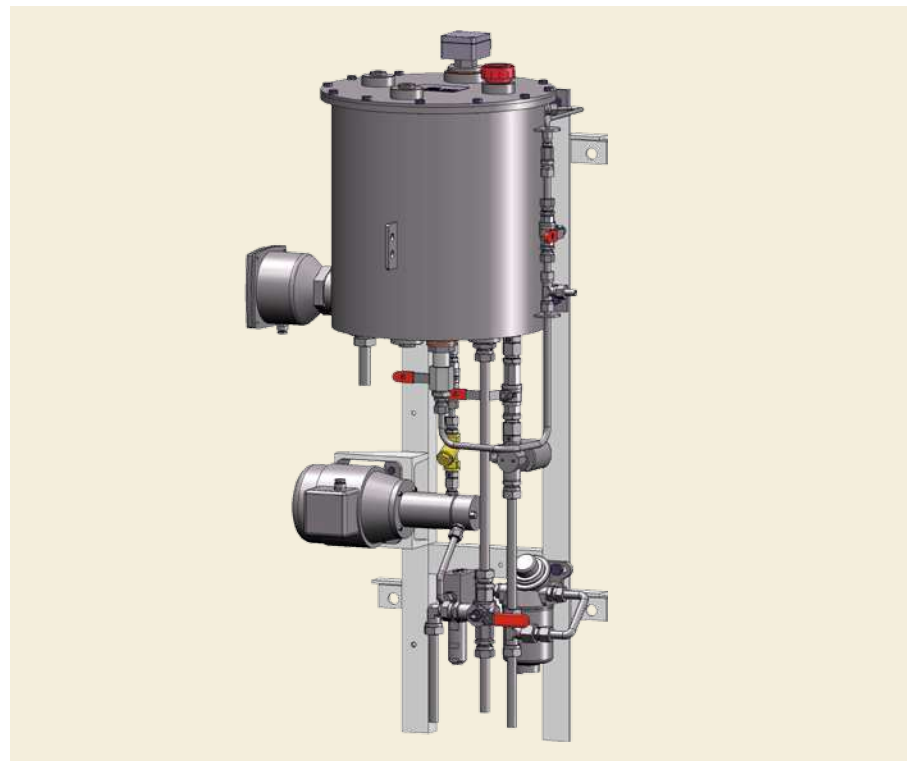
Efficient water separation by evaporation → keeping the oil quality at a high level

Active transport of vapour out of the tank through the overflow pipe

Extracts free, emulsified or dissolved water

Installation

Plug and play solution delivered fully assembled and tested → quick and easy installation (by the shipyard)



Only requirements: Seal chamber with oil inlet and outlet line (flushable), air and power supply on board

Operation

Self-explanatory control unit → easy handling of water evaporation and oil circulation

Fail-safe system → stable oil supply to seal in case of an electrical break-down on board

Service

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

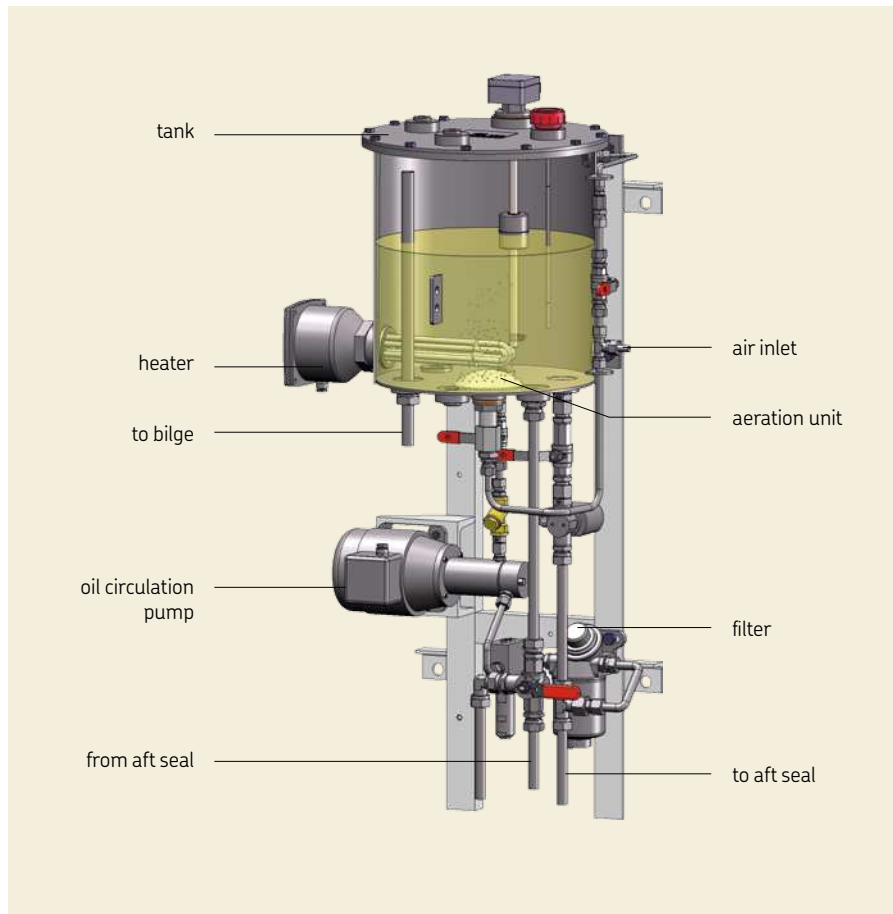
Worldwide service network and availability of spares



The Original

Function

- A pump generates continuous oil circulation between the aft seal chamber and the aft seal tank.
- The lubrication oil in the aft seal tank is moderately heated.
- The inlet air is divided into two different airflows, providing an effective removal of the water.
- One air flow is lead through the oil producing fine air bubbles that trap the water in the form of vapour.
- Once the water enters the plenum chamber above the oil, the second airflow forces the vapour to overflow through a tube towards the bilge.
- The dewatered lubrication oil is circulated back to the aft seal chamber.



Applications

- Especially recommended for operation with ester-based oils such as environmentally acceptable lubricants (EAL)
- Recommended as retrofit in case of increased water ingress into the stern tube aft seal

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