

CJC™ Desorber

Solutions for removal of water from low and high viscosity oils, even in stable emulsions













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Intended for: *Marine, Steel Works, Pulp & Paper, Mining, Power, Waste Oil Recovery Plants and Biodiesel Plants*

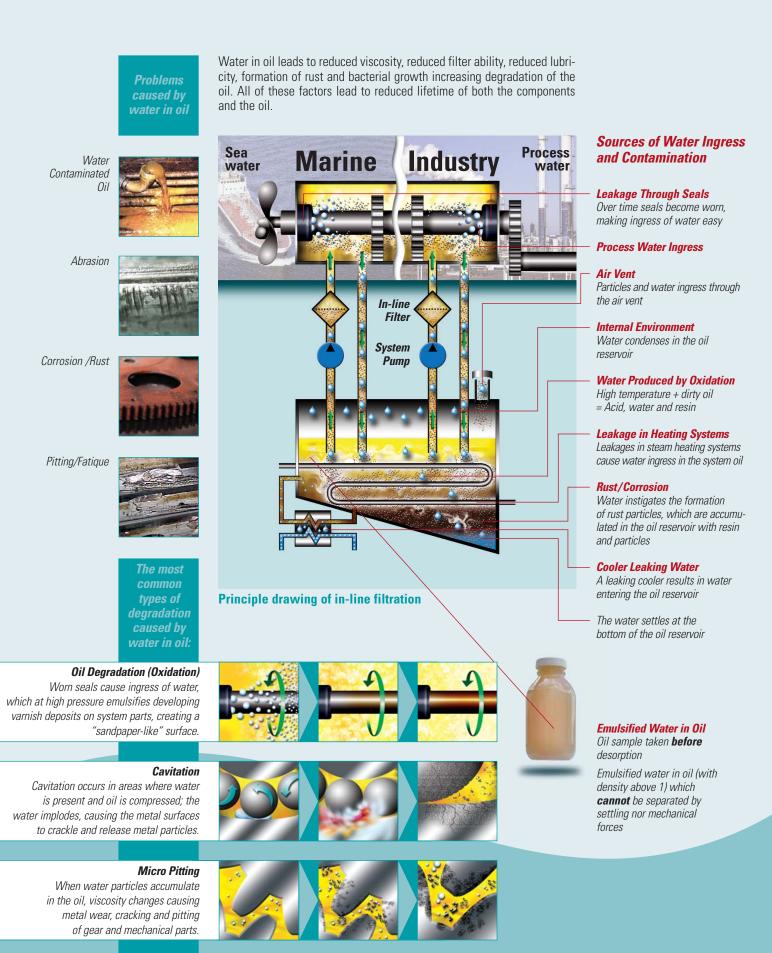
Desorption of water from oil - even in stable emulsions





The Problem

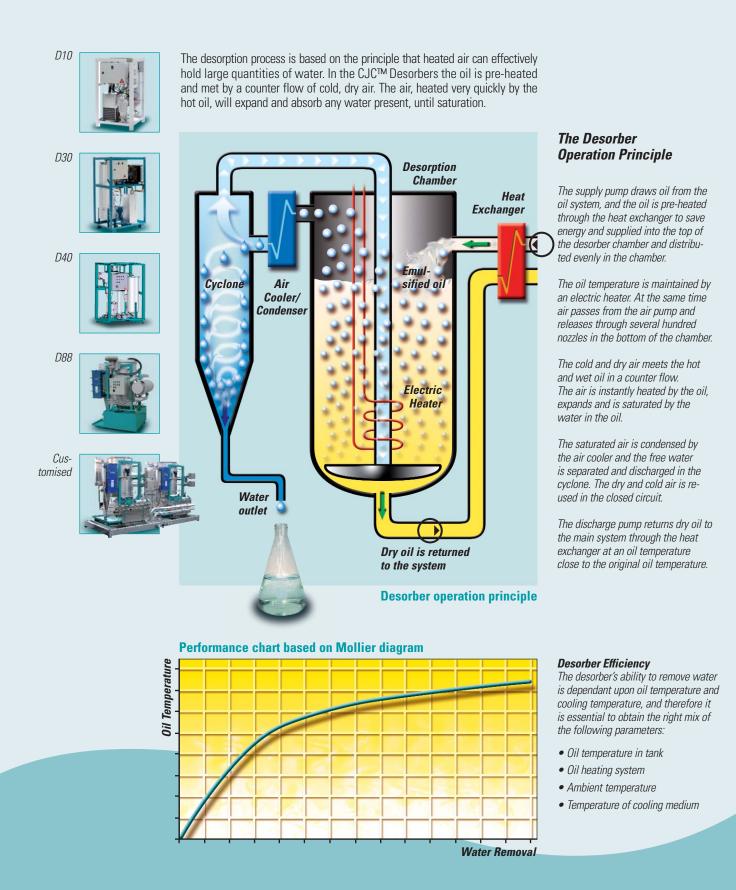
Water in oil causes oil degradation, micro pitting and cavitation or breakdown of mechanical parts





The Solution

Dry oil through the CJC[™] offline desorption process - even in systems with emulsified oil



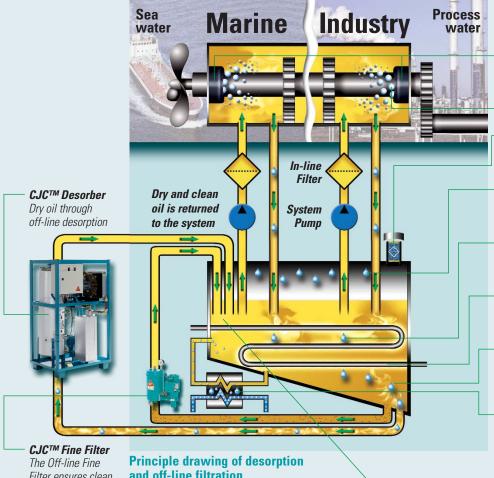


The Result

Continuous oil maintenance ensures high quality of oil throughout the entire lifetime of the equipment

Benefits and of using *СЈС*^{тм} Desorbers

The benefits obtained when installing a CJC[™] Desorber will have a positive effect on your maintenance budget as well as increase your productivity and reduce your energy consumption.



Filter ensures clean oil by removina particles and oil degradation byproducts

and off-line filtration

Less Maintenance

- Less wear and increased lifetime of components and oil
- Longer time between service intervals
- Enhanced operational precision

Increased Productivity

- Fewer unplanned breakdowns and improved reliability
- Leaking coolers can be repaired at scheduled overhauls

Lower Energy Consumption

- Lubricating capabilities remain intact and internal friction is lowered
- Reduced pressure drop over in-line filters
- Viscosity index is kept stable and efficiency is maintained

Sources of Water Ingress and Contamination Are Now Under Control

Leaking Through Seals Ingress of water remains but is now continuously desorbed

Process Water Ingress

Air Vent

Contamination can be reduced by adding an Air/Selica Gel filter

Internal Environment

Water still condensates in the oil reservoir - but will be desorbed

Water Produced by Oxidation Low risk of developing water, acids and resin

Leakage in Heating Systems Water is now removed before it reaches the oil system

Rust/Corrosion

Contamination is still being created but is removed by the CJC™ Fine Filter

Cooler Leaking Water

The leaking cooler can be repaired at scheduled overhauls as the CJC™ Desorber continuously removes the water



Clean Oil Oil sample taken after desorption and filtration



-all advantages to the total economy!



The CJC[™] Desorber

The CJC[™] Desorber is of uncomplicated design and almost maintenance free

Key features of the CJC™ Desorbers The CJCTM Desorbers provide solutions for removal of water in mineral, synthetic and high viscosity oils. Even in stable emulsions and in oils with a density above 1.



Desorber Chamber Process reaction chamber

Condenser

Releases water by cooling the air. Can be supplied with different cooling media as an option

Supply Pump

Discharge Pump



Main components (Desorber D30)

Add-on options

- On-line monitoring of water content
- Automatic temperature control and optimasation
- Remote alarms and control
- Desorber can be supplied as explosion proof version
- Oil absorb to guarantee oil free water outlet



Blower

Supplies dry air to the desorber chamber. As an option it can be modified for inert gas, when the risk of oil degradation is high

Cyclone

Water and air are separated in the cyclone and discharged

Heat Exchanger

Preheats the oil

Main Heater

Raises oil temperature to optimum. Variable heating capacities and media as an option



C.C.JENSEN all over the World

The CJC[™] off-line Filters are distributed through our own international sales organisation and designated distributors

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