PRODUCT GUIDE

REDRAGON
Oil & Gas Systems International Inc.

Transformer Oil Level Monitoring Systems (TOLMS)

A PLC-based system that can be purchased as a stand-alone unit to simplify the operation of degasifiers on energised transformers. It allows easy bypassing of the transformer, topping up oil levels in the transformer and automatic monitoring of oil levels in the transformer during oil processing.

Reduces the need for an operator to constantly monitor the transformer and connecting hoses. The TOLMS will isolate the transformer in the event of a hose break, preventing the oil draining in an uncontrolled manner.

Oil Pumping Unit (OPU-series)

OPU pump units are designed to operate as either standalone units (manual or PLC controlled from local station) or integrated into sophisticated SCADA systems sitting on top of Allen-Bradley or Siemens PLCs that can be remotely controlled via Ethernet/Devicenet or wireless networks.

- Integrated oil drip pan
- Flow rates to 50,000 litres per hour
- Elevated base for ease of movement
- Choice of wetted materials
- Aluminum frames for weight reduction

FOR MORE INFORMATION OR TO REQUEST A QUOTATION, PLEASE CONTACT REDRAGON OIL & GAS SYSTEMS INTERNATIONAL INC. OR AN AUTHORISED DISTRIBUTOR.

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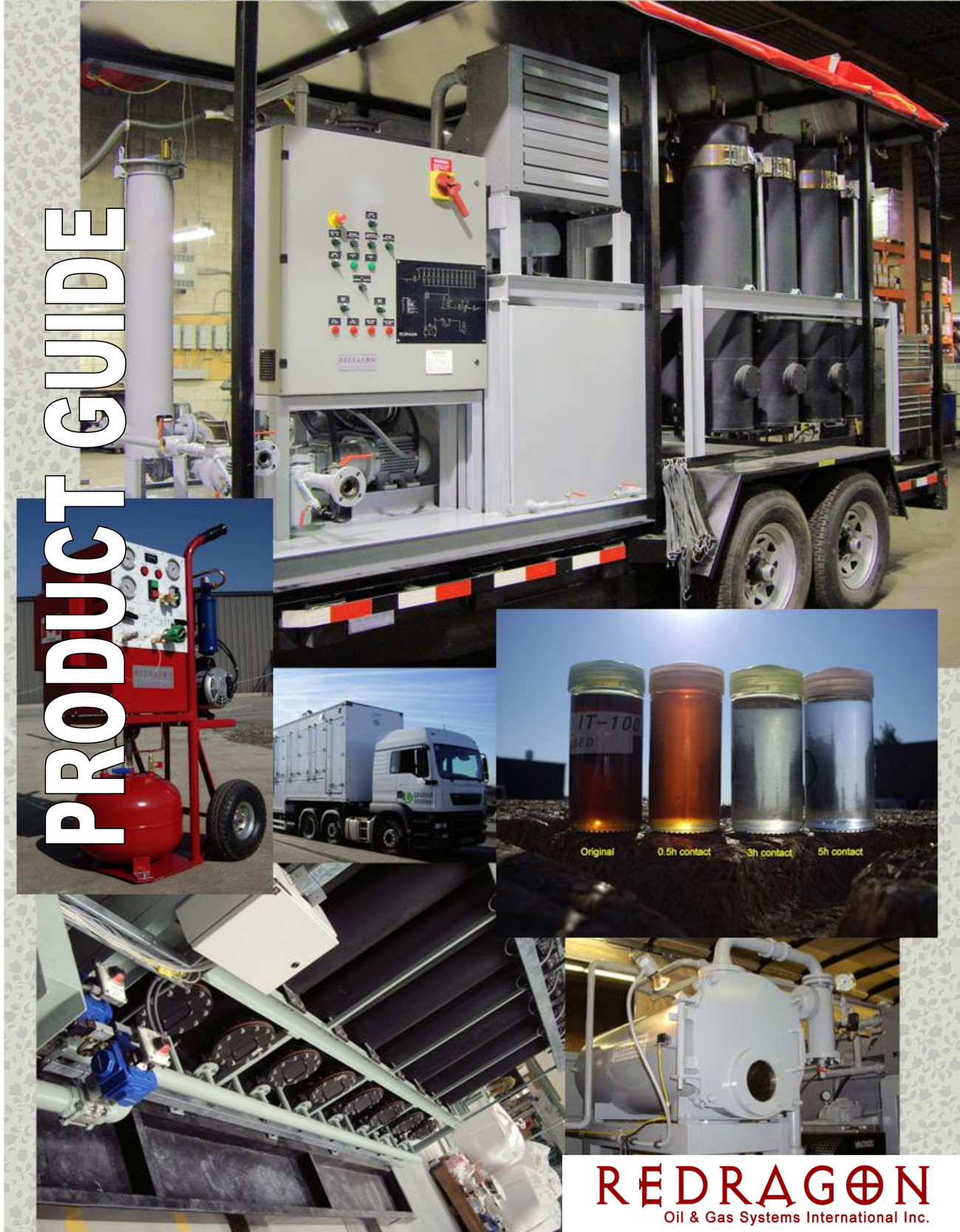
ISO 9001: 2008 Reg. No: 682374



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Transformer Oil Regeneration System (TORS-series)

Regeneration systems typically remove the by-products of aging from used transformer oil. By-products that are known as secondary contamination are created as a result of natural aging of a transformer in service coupled with inadequate maintenance regimens. There are traditionally two approaches to the removal of these contaminants, either approach will result in the used oil being restored to 'as new'.

Flow rates from 200 litres per hour to 10,000 litres per hour in mobile mode, for use on energized or offline transformers and oil tank farms.

High Vacuum Degasifier (HVD-series)

Designed to remove primary contaminants from transformers operating online or offline, these high vacuum oil purification units are available in flow rates from 50 litres per hour to over 10,000 litres per hour.

- Water removal down to 3 PPM or less
- Particulate removal to less than 1µ
- Gas content to less than 0.1%

Systems are available as skid-mounted, caster-mounted for in-plant mobility and trailer-mounted for highway travel.

SF_6 Recovery Unit (SHX-series)

The SHX-series of SF_6 recovery units is designed to minimise the impact of SF_6 on the environment. Greenhouse gas reduction, by-product removal from arced gas and cost reduction by recycling SF_6 gas are achieved by use of SHF range of gas recovery units. Gas storage capacities from 40-lb to 2,000-lb are available. Units can be hand-cart mounted, caster-mounted or installed in trailer.

Typical specification

- Water removal down to 10 PPM or less
- Particulate removal to less than 0.1µ
- Equipment vacuum to below 1 Torr

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Clay Polishing System (CPS-series)

The series is designed to act as a final stage for a wipe-film evaporator or other oil re-refinery. It uses a regenerable clay, good for several hundred reactivations, to remove odour and improve the colour of 100N – 300N and 300N – 500N product streams. The CPS-system will consist of as many as 1000 columns to produce a water-white and odour-free oil from used lube oil.

Flow rates from 500 litres per hour, 24-hour per day operation.

Online Tap Changer Filter (OLTC-series)

The OLTC series of online tap changer filters is used to remove particulate and water from insulating or dielectric oils in a load tap changer. It is designed to be permanently attached to an oil filled electrical device such as tap changers, transformers, or circuit breakers. With the use of a suitable cartridge acids can also be removed from the oil.

Options include full stainless steel components and case for durability.

PCB Dechlorination System (PCB-series)

Polychlorinated biphenyls (PCBs) are man-made chemicals that were first synthesized in the 1880s. Generically known as Askarel, they were found to be toxic and their by-products can be fatal. Many countries have a maximum allowable limit of 50 PPM for equipment to be classified as 'non-PCB'. It is possible to recover low level PCB contaminated oil and restore it to use by essentially reversing the process that created the PCB originally by means of a chemical reaction.