

# OLTC series – Online Tap Changer Filters

# REDRAGON

Oil & Gas Systems International Inc.

When on-load tap-changers are operated in power transformers, the switching oil absorbs water. Additionally, arcing during switching operations inside the on-load tap-changer causes contamination. This can be extremely harmful to the reliability of tap-changer and transformer.

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.

## Typical specification

- 316L stainless steel enclosure is standard
- 316L suction and discharge flanges are standard, other connectors are available



- 3 USGPM and 5 USGPM flow rates are standard. Maximum flow rate of 10 USGPM is available
- The Allen-Bradley Pico controller performs simple logic, timing, counting, and real-time clock operations
- A positive displacement feed pump ensures reliable oil flow under all conditions



- High pressure switch and integral pressure relief valve protects the OLTC filter system against a clogged filter or closed valve on the downstream line
- An air bleed valve on the filter housing allows the OLTC filter system to be primed and bled easily



- 316L stainless steel pipe fitting used throughout ensure maximum oil cleanliness and system longevity
- Industry standard filter housing accepts a wide variety of filter elements from various cartridge manufacturers
- Easy-change filter housing allow for rapid filter cartridge change out
- Powder-coated internal control cabinet protects electrical and electronic components from accidental contact with oil or water
- Ventilation/extraction fan is provided as standard

## Dimensions

- 48" x 36" x 12" (1200mm x 900mm x 300mm)
- 200-lb (90kg)
- Flow rate 3, 5 or 10 USGPM (11 litres per minute, 19 litres per minute or 38 litres per minute)
- Operating pressure typical 25 psi (1.6 kg/cm<sup>2</sup>)



The OLTC filter is controlled by a micro PLC whose operation can be optimized by the user for individual tap changers.

For more information or to request a quotation, please contact Redragon

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