

2ND GENERATION

Load Tap Changer Oil Filtration Systems

REDUCE OIL-RELATED MAINTENANCE COSTS AND IMPROVE RELIABILITY

Our second generation oil filtration systems are designed to be installed on most LTC models to remove carbon and metallic particles produced during normal LTC operation, keeping oil in peak condition with minimal maintenance.

For flexible operation, the system includes an adjustable timer which allows customers to configure the system to their specifications — daily, every other day, weekly or every other week in intervals of two, four, eight and 24 hours. Since filter replacement does not require pump reversal OR any disconnection of oil lines, the dirty oil stays in the filter while system oil stays clean and in peak condition (a convenient filter canister drain valve is included).

2ND GENERATION OIL FILTRATION SYSTEM: OF2 Easier to Install and Maintain

Our standard OF2 system's design allows for easy installation and is equipped with a swing-out filter canister that makes filter replacements a quicker task.

Unique High-Efficiency Filter Design with Tilt-Out Easy Filter Change System

Our depth-type filter uses a flow path parallel with the center tube instead of the conventional outside-to-inside flow. This flow path forces oil through a greater depth of filter material for more efficient filtration. See back side for more information on this unique filter design and photo to the right demonstrating easy filter change-out process.



Minimum Turbulence in Reservoir

Pump maintains a flow rate of 1.0 GPM to minimize turbulence in the tank.

Filter Adapter Kit Available for Alternate Style Manufacturer Cartridges

More Economical

High efficiency filter reduces LTC mechanical wear which can minimize equipment failure and downtime. Economical purchase price combined with less frequent filter replacement can save you money.*

* Actual filter life varies depending on transformer loading and frequency of LTC operations and tap changer model.



Customizable 2nd Generation Oil Filtration System: OF2

Customer Configurable

SEE BACK SIDE FOR PART NUMBER CONFIGURATION TOOL.

CUSTOMIZE YOUR OWN SYSTEM

The OF2 oil filtration system has been designed to meet the filtration demands of higher oil volume load tap changers while providing customization flexibility to meet individual customer specifications. The system is adaptable to a variety of industry standard filters and always ships complete with the following:

- 1/2 HP, fully enclosed, continuous run rated, auto-thermal, resetting motor
- High performance depth filter
- 5+ gallon leak-catch sump with sump alarm
- Low flow alarm
- High pressure alarm
- Anti-condensation cabinet heater
- Tilt-out, tool-free filter change system
- Visual flow indicator which can be monitored without opening the cabinet
- 0–160 psi, oil-filled pressure gage
- Customer selectable run-time and interval timer
- Run-time bypass switch
- Remote system shut down relay
- Heavy duty circuit breaker on incoming power
- 120 VAC operation

OPTIONAL FEATURES

- 240 VAC Operation
- Alternate Filter Selection
- Additional 4–20 mA Flow Transmitter
- Additional 4–20 mA Pressure Transmitter
- Filter Canister Heater System
- LTC Entrance Tube with or without Hose
- Stainless Steel Cabinet

Particle/Moisture removal performance is dependent on make/model of customer-specified oil filter cartridge.

With the appropriate filter installed, the OF2 system can remove dissolved water, extremely fine carbon and metallic particles to maintain peak performance of LTC oil, extend the life of your equipment and lengthen the period between maintenance intervals.

Build Your Own Part Number Using Configuration Below

Oil Filtration Systems

OF2-XXXXXX

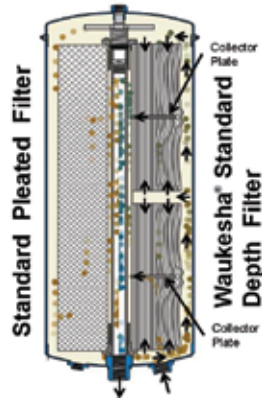
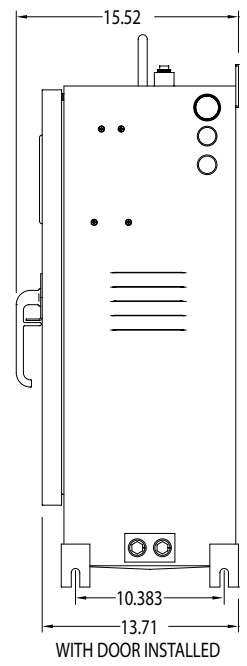
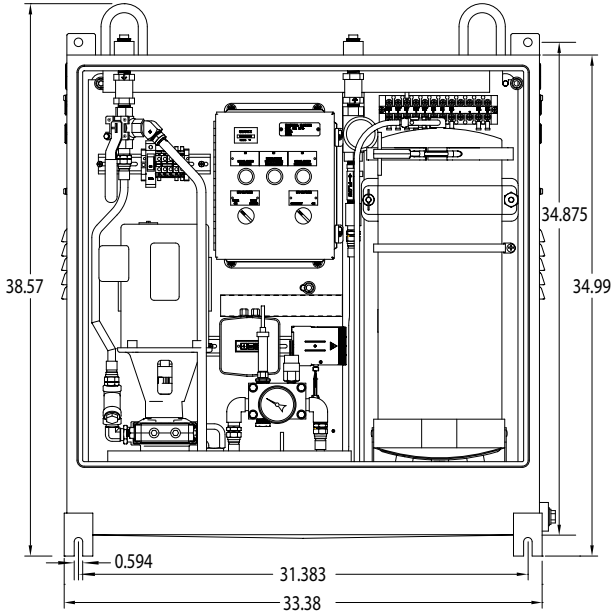
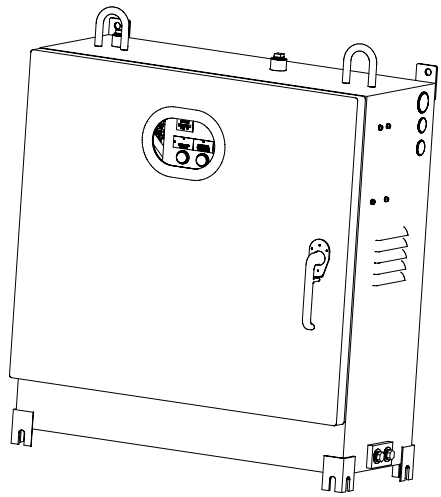
- A** STANDARD SYSTEM (120VAC) STEEL NEMA 3R CAB 1/2 HP MOTOR 5 GAL LEAK SUMP OIL LEAK DETECTION TILT OUT FILTER CANISTER VISUAL FLOW INDICATOR 0-100 PSI, OIL FILLED, GAGE RUN INTERVAL TIMER RUN-TIME BYPASS SWITCH RUN-TIME METER REMOTE SHUTDOWN AUTO RESTART WITH POWER FAILURE (1030-1393 CAB.)
- B** SAME AS OPTION "A" EXCEPT WITH STAINLESS STEEL CAB (1030-1656 CAB.)
- C** SAME AS OPTION "A" EXCEPT FOR 240VAC OPERATION 240VAC - 120VAC TRANSFORMER CONVERSION WIRING
- D** SAME AS OPTION "A" EXCEPT WITH STAINLESS STEEL CAB & 240VAC OPERATION 240VAC - 120VAC TRANSFORMER CONVERSION WIRING

- SYSTEM TYPE**
- PUMP CAPACITY**
1 GAL PER MIN. MECH. SEALS INTEGRAL BYPASS 0
- FILTER PACKAGE**
WAUKESHA STAN. 7 X 18 DEPTH COMO ELEMENT 1030-1508 0
7 X 18 DEPTH COMO ELEMENT -D 1030-1542 1
7 X 18 DEPTH FILMAX ELEMENT 1030-1385 2

- LOW FLOW / LEAK ALARMS**
STANDARD LOW FLOW & LEAK DETECTION WITH LOCAL LED INDICATOR AND ALARM CONTACTS 0
SAME AS OPTION "0" EXCEPT WITH FLOW TRANSMITTER (4-20 ma) 1030-1530 1
- HIGH PRESSURE ALARMS**
STANDARD HIGH PRESSURE DETECTION WITH LOCAL, WINDOW VISIBLE, LED INDICATOR SYSTEM SHUTDOWN, AND ALARM CONTACT 0
SAME AS OPTION "0" EXCEPT WITH PRESSURE TRANSMITTER (4-20 ma) 1

PIPING
-50° C TO 50° C AMBIENT HI-RECOVERY 200/400W ANTI-CONDENSATION HEATING 0

- PIPING**
NONE 0
ENTRANCE TUBE ONLY 1030-014K 1
ENTRANCE TUBE AND HOSE 1030-048K 2



WAUKESHA® STANDARD FILTER OFFERS LONG FILTER ELEMENT LIFE
SPX Transformer Solutions' depth-type filter element (in Standard OF2 System) features a unique fluid flow path: fluid runs parallel with the center tube (axial flow) rather than the conventional outside-to-inside flow (radial flow) of most pleated-type filters. The depth of fluid flow is optimized and provides the capability to filter more efficiently than pleated-type filters. Filter media is constructed as four rolls of filter paper. Oil flows between the layers of media until it reaches one of two collector plates. The collector plates route oil to the center of the element where it is discharged out of the element. The depth filter media has a much greater resistance to flow from outside to center (radial flow) than it does between the layers (axial flow) of filter material. Integrity of the filter element is maintained even as it accumulates contaminants and the Delta-p (pressure across the filter) goes up. Hydraulic pressure of the fluid compressing the layers of media together prevents a channel from forming that could allow oil to pass through the element unfiltered.

- REMOVES BOTH DIRT AND MOISTURE**
- Filter material is dried cellulose fiber
 - Optional -D filter can decrease water to under 5 PPM with multiple passes
 - Micron rating: 1.0
 - Rated for particles as well as free and emulsified water
 - Total water holding capacity: 0.5 kg
 - Beta X rating: >25 at 3 microns
 - High rate of absorption enables oil to be reduced from 200 to less than 25 PPM in one pass using the optional -D filter element



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To continually improve its products and services, SPX Transformer Solutions, Inc. reserves the right to change specifications and features without notice. Please contact us for certified dimensions and drawings.

Contact us for additional information or quotation on our extensive range of products and services:

CALL 800-338-5526

VISIT www.waukeshacomponents.com