

FCLCOT

Turbine Oil Conditioning Filter Cart

A mobile solution that maintains turbine lube oil by removing water and particulate contamination that can cause corrosion, fluid breakdown, abrasive wear on components, additive precipitation, reduced lubricity, and dielectric strength loss.

Ideal for turbine lube oil, boiler feed pumps, compressors and others R&O applications.



Donaldson.
HY-PRO™

hyprofiltration.com/

Filtration starts with the filter(s).

FCLCOT combines high efficiency single pass particulate and water removal to ensure that your turbine oil is always in spec, eliminating premature component failures and downtime. With particulate media options down to $\beta_{3_{(C)}} > 4000$ and 100% synthetic coalesce/separator elements that remove all free and emulsified water down to 50 ppm, your turbines will be protected and running more efficiently than ever.

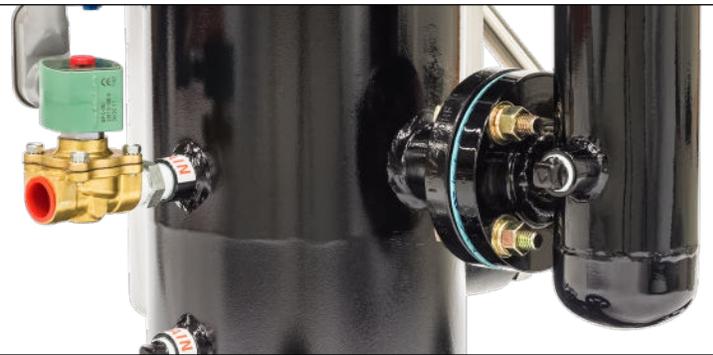


Cleaner fluids: greater efficiency.

Water and particulate contamination in turbine oils can lead to decreased output efficiency, metal etching, fluid breakdown, and abrasive wear in hydraulic components among many other costly issues. With a single pass through the FCLCOT, you'll not only remove harmful contaminants but increase your uptime and promote the best environment for your turbine to operate efficiently.

Never stops working.

Designed for 24/7 unattended operation, FCLCOTs with auto water drain technologies provide you with the safety and security to know your turbine oil is clean and dry even when you're off the clock.



Unmatched on the move.

Non-shredding, never flat wheels and easy to maneuver cart design with ergonomic handle mean you get powerful filtration exactly when and where you need it.

Setting the new standard.

Sampling and preventative maintenance are no longer optional, they're a necessity. That's why every FCLCOT comes standard with properly positioned sample ports to arm you with access to consistently accurate system conditions and letting you know exactly how well your filtration is performing.



Completely customizable.

Whether you need the heavy duty off-road tires for greater mobility or add one of several inlet strainer options, each and every FCLCOT can be built specifically to suit your needs. And with options for both convenience and tailoring for specific applications, you'll be sure to get the perfect solution for all your contamination problems.

FCLCOT Specifications

Dimensions¹	Height 62" (158 cm)	Width 30.5" (77 cm)	Depth 29" (74 cm)	Weight 379 lbs (172 kg)
Connections	Inlet 1" male JIC	Outlet 1" male JIC	Hoses 1" x 10 ft (2.4 m)	
Element Configuration	Particulate filter HP110NL11-3MV		Coalesce/Separator Filter HP538L38-CS3MV	
Seals	Fluorocarbon			
Operating Temperature	Fluid Temperature 80°F to 250°F (27°C to 121°C)		Ambient Temperature 40°F to 104°F (4°C to 40°C)	
Materials of Construction	Housings Carbon steel with industrial coating	Hoses Reinforced synthetic	Wands Stainless steel	
Electric Motor	TEFC, 56-145 frame 0.5 hp, 1450-1750 RPM			
Motor Starter	MSP (motor starter/protector) in an IP55, aluminum enclosure with short circuit and overload protection.			
Electric Connection	Voltages 230 V ac and under, single phase: 35' (11 m) retractable cord reel included. Power Option 12 includes NEMA 5-15 plug. Voltages over 230 V ac: 35' (11 m) power cord included.			
Pump	Cast iron, positive displacement gear pump with internal relief. Maximum pressure on pump inlet 15 psi (1 bar). Consult factory for higher pressures.			
Pump Bypass	Full bypass at 150 psi (10 bar)			
Pneumatic Option Air Consumption	~40 cfm @ 80 psi ² 35' (11 m) retractable air hose included when pneumatic option selected. Replaces 35' (11m) electric cord reel.			
Media Description	M G8 Dualglass, our latest generation of DFE rated, high performance glass media for all hydraulic & lubrication fluids. $\beta_{x_{Cl}}$ ≥ 4000		Coalesce/Separator Coalesce: 100% synthetic fiber media Separator: TEFLON [®] coated screen (water barrier)	
Fluid Compatibility	Mineral based turbine oil, call factory for synthetic. Cannot be used with AW hydraulic oils or phosphate esters. For water removal in AW hydraulic oils and phosphate esters, see VUD page.			
Hazardous Environment Options	Select pneumatic powered unit (Power Option 00) or explosion proof NEC Article 501, Class 1, Division 1, Group C+D. Call for IEC, Atex or other requirements. If Power Option X selected, no electrical cord or cord reel will be included.			

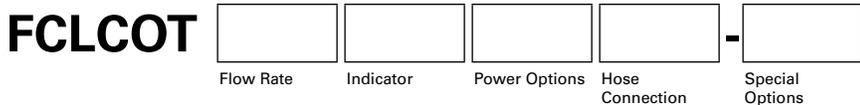
¹Dimensions are approximations taken from base model and will vary according to options chosen.

²Air consumption values are estimated maximums and will vary with regulator setting.

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FCLCOT Part Number Builder



Flow Rate¹

05	0.5 gpm (1.7 lpm)
1	1 gpm (3.7 lpm)
2	2 gpm (7.5 lpm)

ΔP Indicator²

D	22 psid visual gauge + electric switch
E	22 psid visual gauge

Power Options Contact factory for options not listed	60 Hz, 1750 RPM	50 Hz, 1450 RPM	Pneumatic
	12 120 V ac, 1P	11 110 V ac, 1P	00 Pneumatically driven air motor & PD pump. FRL & flow meter included.
	22 208-230 V ac, 1P	21 220 V ac, 1P	
	23 208-230 V ac, 3P	40 380-440 V ac, 3P	
	46 460-480 V ac, 3P	52 525 V ac, 3P	
	57 575 V ac, 3P		

Explosion proof - Class 1, Division 1, Group C+D per NEC 501 – Ready for outdoor use
X__ Add X prefix to power option listed above. Not available with (00) Pneumatic Option.

Hose Connection

G	Female BSPP swivel hose ends, no wands
S	Female JIC swivel hose ends, no wands
W	Female JIC swivel hose ends, with wands

Special Options

A1	Electrically powered automatic water drain
B	Complete filter bypass line
C	CE marked for machinery safety directive 2006/42/EC
D	High filter ΔP auto shutdown
E	100 mesh cast iron basket strainer
F	Filter element ΔP gauge with tattle tale follower needle
G	Spill retention pan with fork guides (industrial coated steel)
H1	10 ft (3 m) return line hose extension
H2	20 ft (6 m) return line hose extension
J	Add pressure gauge between pump & filter assembly
K	HP75L8-149W Spin-On suction strainer
L	High filter element ΔP indicator light
M	Total system flow meter (120 cSt max)
N	PM-1 ready (plumbing only)
O³	On-board PM-1 particle monitor & clean oil indicator light
R	Spill retention pan with wheels (industrial coated steel)
S⁴	All wetted components 304 or higher stainless steel
T	Foam filled off-road tires for rugged environment
U	CUL and/or CSA marked starter enclosure for Canada
W	Automatic air bleed valve
Z	On site start-up training

¹Nominal flow rates at 60 Hz motor speeds.

²Particulate filter only. Coalesce housing is equipped with sliding differential indicator.

³PM-1 will not function properly in the presence of free or emulsified water at or above saturation point. If selected, PM-1 is installed downstream of the filtration.

⁴With exception to cast iron gear pump.

For all up to date option details and compatibilities, please reference our Contamination Solutions Price List or contact customer service.

Want to find out more? Get in touch.

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