

Filter Panels

Fixed-Mounted Off-Line Filtration

Donaldson Filter Panels provide fixed-mount offline filtration and a turnkey approach to supplemental filtration for your in-plant machinery and hydraulic equipment – helping to reduce costs and achieve and maintain proper ISO cleanliness levels.

Donaldson filter panels are offered with 4 different pump flow rates. Reservoir size, fluid viscosity and fluid temperature will help determine the correct flow rate. Filter panels feature dual HMK05 filtration utilizing Donaldson's exclusive high efficiency Synteq™ media. The filters are plumbed in series giving you the option of coarse/fine particle removal or install a water absorbing filter for water/particle removal.



Notice

Donaldson Filter Panels include electric motors and indoor installation is recommended. Exposure to rain, snow and other elements may cause electric motors to fail. Failures that result from misapplication, improper use or storage are not covered by the Donaldson warranty.

Reference the aftermarket warranty: document no. F110064.

Fluid Compatibility

Not for use with diesel fuel or gasoline. For fuel solutions, please contact the Donaldson Clean Solutions team at clean.solutions@donaldson.com or 800-518-7784.

Applications

- Transferring New Oil
- Cleaning Stored Oil

Features	Benefits
High efficiency media grades	Cost effective filtration
Dual-stage filtration	Coarse/Fine or Water/Particulate removal
Differential pressure indicators	Alerts you when to change filters
Optional overload protected switch	Prevents motor from overheating
Sample port	Enables system cleanliness measurements
Applications	
Offline filtration	Supplement existing filtration to achieve target ISO cleanliness levels.
Water removal	Using Donaldson water removal filters to remove free water from the system.
Filter new fluid	Clean up new fluids because they are usually highly contaminated. Don't contaminate your equipment with new fluids. Protect your equipment with proper filtration.

Filter Panel Assembly Choices

NOTE: FILTERS ORDERED SEPARATELY

The Importance of Temperature When Selecting a Filter Cart

Consider operating temperature ranges when determining the proper viscosity filtration solution. It's crucial to select the proper viscosity option to maintain adequate flow and avoid restriction. Refer to the oil viscosity with temperature chart located on the front cover of the catalog.

Example: ISO Grade 32 Hydraulic Oil @ 68°F = 86.7 (cSt)

Assembly Part No.	Low Viscosity Max Viscosity 500 SUS (108 cSt)* Filters ordered separately			High Viscosity Max Viscosity 8000 SUS (1700 cSt)* Filters ordered separately
	X011299	X011300	X011301	X011302
Operating Temperature:	----- -10° F to 160° F (-23° C to 71° C) -----			
Gear Pump Flow Rate*:	3 gpm (11.4 lpm)	5 gpm (18.9 lpm)	10 gpm (37.9 lpm)	2 gpm (7.57 lpm)
TEFC** Motor:	----- 60 Hz: 1 hp -----			
Fluid Compatibility:	----- Mineral-based fluids, water glycols, polyol esters -----			
Connections	Inlet (pump) : SAE 12 O-Ring Outlet: SAE 20 O-Ring			Inlet (pump) : SAE 12 O-Ring Outlet: SAE 20 O-Ring
Electrical Service: 115 volts	8.4 amp	14 amp	14 amp	14 amp
Dry Weight:	Approx. 95 lbs. (43 kg)			Approx. 120 lbs. (54 kg)
Dimensions:	Height: 20" (508 mm)		Width: 36" (915 mm)	Depth: 8" (203 mm)
Filter Notes:	Requires 2 Filters			Requires 4 Filters

Filter Choices

Media Type	$\beta_{x(c)} = 2$ Rating based on ISO 16889	$\beta_{x(c)} = 1000$	Length in mm	Donaldson Part No.
Synteq Synthetic	<4 μ m	14.2	361	P564468
	7 μ m	11.6	294	P170906
	7 μ m	11.6	294	P171273 1
	7 μ m	11.6	294	P165675
	7 μ m	11.6	294	P171274 1
	7 μ m	14.2	361	P179763
	9 μ m	7.6	193	P176207
	9 μ m	11.6	294	P176567
	9 μ m	14.2	361	P170949
	9 μ m	11.6	294	P165659
	9 μ m	11.6	294	P1712751
	23 μ m	7.6	193	P176208
	23 μ m	11.6	294	P165569
	23 μ m	11.6	294	P171276 1
	25 μ m	14.2	361	P173789
	50 μ m	11.6	294	P165672
50 μ m	14.2	361	P170546	
Water Absorbing	10 μ m	11.6	294	P179075

¹Viton® O-ring, Epoxy

*Contact Donaldson for special order options

**Totally Enclosed Fan-Cooled

Filter Notes

- Refer to table in the Technical Reference Guide for fluid compatibility with our filter media.
- Thread size is 1 3/4"-12 UNF-2B (HMK05)
- Some part numbers are offered with the same beta ratings to maintain customer ordering patterns.
- Filters with seals made of Buna-N® are appropriate for most applications involving petroleum oil. Filters with seals made of Viton® (a fluorocopolymer) are required when using diester, phosphate ester fluids, water glycol, water/oil emulsions, and HWCF (high water content fluids) over 150°F. Donaldson offers both types, as shown in the table above. Filters with seals made of Buna-N are appropriate for most applications involving petroleum oil.
- Viton® and Buna-N® are registered trademarks of E. I. DuPont de Nemours and Co.