

Filter Cart

The Donaldson Filter Cart provides a convenient portable mode of off-line/kidney loop filtration, flushing and fluid transfer. Use it with your in-plant machinery and hydraulic equipment to achieve and maintain proper ISO cleanliness levels.

Dual in-series HMK05 pressure filters can provide coarse/fine particle removal or, install a water absorbing filter to obtain particulate and water removal. A SP50/60 suction filter is required to protect the pump. The powerful one horsepower motor won't bog down and when coupled with a gear pump, it provides efficient fluid transfer and filtration. Convenient features include a rear mounted motor for better balance, a removable angled drip tray and clear braided hoses.

Notice

Donaldson Filter Carts include electric motors and indoor use 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 800-374-1374.

Applications

- Transferring New Oil
- Cleaning Stored Oil
- System Draining
- Line Flushing
- Hose Cleaning
- Kidney Loop Filtration

 Repairs & Equipment Rebuild Flushing

 Flushing During Equipment Commissioning



Features	Benefits		
Rugged and durable frame	Enables long service life		
High efficiency media	Cost effective filtration		
Two pressure filters	Two-stage filtration – coarse/fine or particulate/water		
Safety relief valve	Prevents over pressurizing and damage to pump, hoses and filters		
Overload protected switch	Prevents motor from overheating		

Applications				
Filter new fluid	New fluids are usually above the recommended ISO cleanliness levels			
Offline filtration	Filter cart can be used to supplement existing filtration			
Water removal	Using Donaldson water removal filters to remove free water from the system.			
Transferring fluid	Fluid is transferred from a storage container (tote, drum, tank, etc.) to a machine's reservoir			
Flushing	After repairs & builds machines need to be flushed thoroughly before returning to service. During equipment commissioning, new machines have original fabrication debris and dirt that has ingressed during transport and storage.			

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Filter Cart



Filter Cart Features

Stainless steel wands

 Will not break, corrosion resistant

Differential ______ pressure indicators

 Lets you know when to change filters

Two pressure filters mounted in series

 Allows for particulate/water removal or coarse/fine particle removal

Removable angled drip tray

 Easy clean up, fluid will not leak out when tipped back

Oil sampling valve

 Monitors filter performance and cleanliness of oil

Motor/Pump

Industrial brand
 10 gpm / 38 lpm flow

Motor mounted on back

- Better balance
- Fluid will not drip on motor when changing filters



Clear braided hoses

- · Visually shows fluid flowing
- 85 psi working pressure

Suction filter

· Protects pump



Overload protected switch

 Protects motor from overheating

Integrated safety relief valve

- Protects against over pressurizing
- Set at 150 psi

Foam filled tires

Tires will not go flat





Filter Cart 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)

	FAX				
Assembly Part No.	Low Viscosity Max Viscosity 500 SUS (108 cSt)* Filters ordered separately X011297*	High Viscosity Max Viscosity 8000 SUS (1700 cSt)* Filters ordered separately X011298 [±]			
Operating Temperature Range:	-10° F to 160° F (-23° C to 71° C)	-10° F to 160° F (-23° C to 71° C)			
Filter Bypass Valve Settings:	Suction – 5 psid/0.34 bar	Suction – Y strainer			
	Pressure – 25 psid/1.7 bar	Pressure – 25 psid/1.7 bar			
Electrical Service:	115 volts: 14 amp, single phase, 60 Hz	115 volts: 14 amp, single phase, 60 Hz			
Cord Length:	7 ft. /2.1m cord with storage for 50 ft./15m	7 ft. /2.1m cord with storage for 50 ft./15m			
Gear Pump Flow Rate*:	10.4 gpm/38 lpm	2 gpm/8 lpm			
TEFC** Motor:	1 hp, 1800 RPM	1 hp, 1200 RPM			
Fluid Compatibility:	Mineral-based fluids, water glycols, polyol esters				
Dry Weight:	Approximately 140 lbs. (63.5 kg) Approximately 175 lbs. (79.38 kg				
Dimensions:	Height: 47" (1194mm) Width: 24" (610mm) Length: 23" (585mm)				
	Hose/Wand assembly length: 10' (3.05m)				
Filter Notes:	Requires 3 filters: 2 pressure, 1 suction Requires 4 pressure filters				
470	TI 1' (1				

[‡]These part numbers now have relief valves in the pump. The relief valve setting is: 10.3 bar (150 PSI)

Pressure Filter Choices

Media Type	O(_{x(c)} = 1000	$\beta_{x(c)} = 2$	$\beta_{x(c)} = 2$ $\beta_{x(c)} = 1000$ Leng	Length			
	Rating based on ISO 23369	Rating based on ISO 16889		in	mm	Part No.	Comments
Synthetic Synthetic			<4 μm	14.2	361	P564468	
			6 µm	11.6	294	P165675	
			6 μm	11.6	294	P1712741	
		6 μm	14.2	361	P179763		
Alpha-Web	10 μm			14.2	361	DBH0949	
Synteq Synthetic			11 μm	7.6	193	P176207	
			11 µm	11.6	294	P165659	
			11 μm	11.6	294	P5739961	
			11 μm	14.2	361	P170949	
		23 μm	7.6	193	P176208		
			23 μm	11.6	294	P165569	
		23 μm	11.6	294	P1712761		
		23 μm	14.2	361	P173789		
			50 μm	11.6	294	P165672	
		50 μm	14.2	361	P573353		
Water Absorbing		10 µm		11.6	294	P179075	Absorbs 300 ml water

Fluorocarbon o-ring, epoxy

Suction Filter Choices

Modio Typo	$\beta_{x(c)} = 2$	Length		Part No.
Media Type	Rating based on ISO 16889	in	mm	Fait ivo.
Wire Mesh	150 μm	6.7	170	P550275
	150 μm	10.7	271	P550276

^{*}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 sizes are 1 3/4"-12 UNF-2B (HMK05) and 1 1/2"-16 UN-2B (suction filter). Filters with seals made of fluorocarbon are required when using diester, phosphate ester fluids, water glycol, water/oil emulsions, and HWCF (high water content fluids) over 150°F. Filters with seals made of nitrile are appropriate for most applications involving petroleum oil.