

# FC

## Filter Cart

A fully self-contained mobile solution for bulk oil handling, fluid transfer and reservoir or gearbox conditioning.

Ideal for lower viscosity hydraulic oil, lube oil and diesel fuel.

Donaldson  
HY-PRO™

[hyprofiltration.com/](http://hyprofiltration.com/)



## Engineered for industrial use.

Rugged construction and attention to the smallest of details come together remarkably so that nothing holds you or your equipment back. The easy to maneuver hand-truck style design with never-flat pneumatic tires and cast iron gear pump with internal relief mean you get powerful filtration exactly when and where you need it.



## Set the stage for your success.

Staged filtration allows a range of media selections for particulate and water removal to deliver ISO Codes right on target. Choose between dual MF110 cartridge (standard) or up to four Spin-On elements to tackle the most viscous fluids and achieve unimaginably low ISO Codes in a single pass.



## Media matters.

DFE rated filter elements stay true to efficiency ratings and ensure the highest level of particulate capture and retention capabilities. And with media options down to  $\beta_{3(C)} \geq 4000$ , you can be sure contamination stays exactly where you want it: out of your systems.



## Your standard Filter Cart, reimagined.

Sample ports in the right locations arm you with access to consistently accurate system conditions which is why every FC comes standard with up- and downstream sample ports in their proper positions. And with the 35' (11m) retractable cord reel or 35' air hose for pneumatic models, it's easy to see why the standard FC isn't so standard after all.



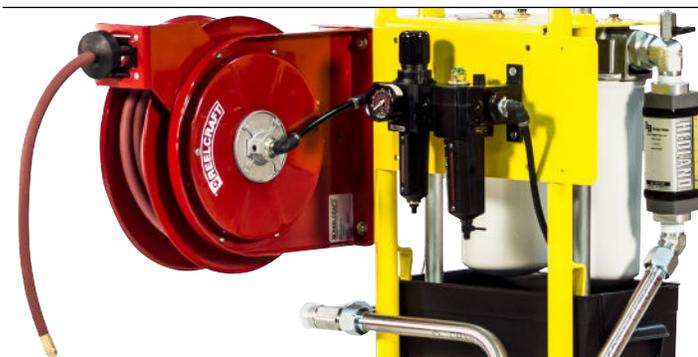
## With options to make your job easier.

With the optional filter bypass line, cold starts, gearbox pump-outs, and even element change outs become easier than ever. Add the optional PM-1 particle monitor for real time cleanliness data and know exactly how your filtration is performing without the need for a bottle.



## Completely customizable.

The FC comes in a variety of flow rates and with electric options that range from 120 to 575V ac, single or three phase. Or choose the pneumatic and explosion proof models to take your filtration into hazardous zones like you never thought possible. Even color coordinate each FC to your existing safety standards. With thousands of combinations to choose from, the possibilities are endless for what you can do with the FC.



# FC Specifications

<b>Dimensions<sup>1</sup></b>	<b>Height</b> 45" (114 cm)	<b>Width</b> 20" (50 cm)	<b>Depth</b> 23" (58 cm)	<b>Approximate Weight</b> 125 lbs (57 kg)	
<b>Connections</b>	<b>Inlet</b> FC05-FC5: 1" male JIC (37° flare) FC10: 1.25" male JIC (37° flare) FC20: 1.5" male JIC (37° flare)	<b>Outlet</b> FC05-FC10 1" male JIC (37° flare) FC20: 1.25" male JIC (37° flare)	<b>Hoses</b> FC05-FC5: 1" x 10 ft (2.4 m) FC10: 1.25" x 10 ft (2.4 m) suction 1" x 10 ft (2.4 m) discharge FC20: 1.5" x 10 ft (2.4 m) suction		
<b>Operating Temperature</b>	<b>Fluid Temperature</b> 30°F to 225°F (0°C to 105°C)	<b>Ambient Temperature</b> -4°F to 104°F (-20C to 40C)			
<b>ΔP Indicator Trigger</b>	22 psi (1.5 bar). Consult factory for other options.				
<b>Filter Assembly Bypass</b>	25 psid (1.7 bard). Consult factory for other options.				
<b>Materials of Construction</b>	<b>Frame</b> Industrial coated steel	<b>Filter Assembly</b> Aluminum head & canister	<b>Hoses</b> Reinforced synthetic	<b>Wands</b> Stainless Steel	<b>Element Bypass Valve</b> Nylon
<b>Electric Motor</b>	TEFC, 56-215 frame 0.5-7.5 hp, 900-1750 RPM				
<b>Motor Starter</b>	MSP (motor starter/protector) in an IP55, aluminum enclosure with short circuit and overload protection.				
<b>Electric Connection</b>	Voltages 230 V ac and under, single phase: 35' (11 m) retractable cord reel included. NEMA 5-15 plug installed on Power Option 12. Voltages over 230 V ac: 35' (11 m) power cord included.				
<b>Pump</b>	Cast iron, positive displacement gear pump with internal relief. Maximum pressure on pump inlet 15 psi (1 bar). Consult factory for higher pressures.				
<b>Pump Bypass</b>	Full bypass at 150 psi (10 bar) <sup>2</sup>				
<b>Pneumatic Option Air Consumption</b>	~40 cfm @ 80 psi <sup>3</sup> 35' (11 m) retractable air hose included when pneumatic option selected (replaces electric cord reel).				
<b>Media Description</b>	<b>M</b> G8 Dualglass, our latest generation of DFE rated, high performance glass media for all hydraulic & lubrication fluids. $\beta_{x(c)} \geq 4000$ ( $\beta_x \geq 200$ )	<b>A</b> G8 Dualglass high performance media combined with water removal scrim. $\beta_{x(c)} \geq 4000$ ( $\beta_x \geq 200$ )	<b>W</b> Stainless steel wire mesh media $\beta_{x(c)} \geq 2$ ( $\beta_x \geq 2$ )		
<b>Replacement Elements</b>	<b>To determine replacement elements, use corresponding codes from your equipment part number:</b>				
	<b>Model</b> Standard FC (2x MF110 11" bowls) Special Option D1	<b>Filter Element Part Number</b> HP110NL11 – [Media Selection Code] [Seal Code] HP75L8 – [Media Selection Code] [Seal Code]	<b>Example</b> HP110NL11-12MV HP75L8-25MB		
<b>Viscosity</b>	2-5000 cSt <sup>4</sup>				
<b>Fluid Compatibility</b>	Petroleum and mineral based fluids, #2 diesel fuels (standard). For specified synthetics contact factory for compatibility with fluorocarbon seal option. For phosphate ester (P9) or skydrol fluid (S9) compatibility select fluid compatibility from special options.				
<b>Hazardous Environment Options</b>	Select pneumatic powered unit (Power Option 00) or explosion proof NEC Article 501, Class 1, Division 1, Group D. Call for IEC, Atex or other requirements. If Explosion Proof option (X-) selected, no electrical cord will be included.				

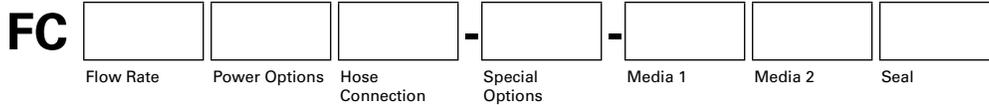
<sup>1</sup>Dimensions & weights are approximations taken from base model and will vary according to options chosen.

<sup>2</sup>10 GPM pump is rated for intermittent duty only at pressures above 100 psi. Continual operation with dual clogged filters resulting in operating pressures over 100 psi will reduce pump life and/or cause premature pump failure.

<sup>3</sup>Air consumption values are estimated maximums and will vary with regulator setting.

<sup>4</sup>When sized and installed appropriately. Contact factory for applications above 800 cSt for sizing requirements.

# FC Part Number Builder



Flow Rate <sup>1</sup>	Options	Flow Rate	Options
<b>05</b>	0.5 gpm (1.7 lpm)	900 RPM (50Hz) / 1200 RPM (60Hz)	
<b>1</b>	1 gpm (3.7 lpm)	1450 RPM (50Hz)/ 1750 RPM (60Hz)	
<b>2</b>	2 gpm (7.5 lpm)	1450 RPM (50Hz)/ 1750 RPM (60Hz)	
<b>5</b>	5 gpm (18.9 lpm)	1450 RPM (50Hz)/ 1750 RPM (60Hz)	
<b>10<sup>2</sup></b>	10 gpm (37.9 lpm)	1450 RPM (50Hz)/ 1750 RPM (60Hz)	
<b>20<sup>3</sup></b>	20 gpm (75.7 lpm)	1450 RPM (50Hz)/ 1750 RPM (60Hz)	

Power Options	60 Hz	50 Hz	Pneumatic
<b>12</b>	120 V ac, 1P	<b>11</b> 110 V ac, 1P	<b>00</b> Pneumatically driven air motor & PD pump. FRL & flow meter included.
<b>22</b>	208-230 V ac, 1P	<b>21</b> 220 V ac, 1P	
<b>23</b>	208-230 V ac, 3P	<b>40</b> 380-440 V ac, 3P	
<b>46</b>	460-480 V ac, 3P	<b>52</b> 525 V ac, 3P	
<b>57</b>	575 V ac, 3P		

## Explosion proof - Class 1, Division 1, Group 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	Options
<b>G</b>	Female BSPP swivel hose ends, no wands
<b>S</b>	Female JIC swivel hose ends, no wands
<b>W</b>	Female JIC swivel hose ends, with wands

Special Options	Options	Options
<b>B</b>	Complete filter bypass line	<b>K</b> HP75L8-149W Spin-On suction strainer (Can't be paired with K option)
<b>C</b>	CE marked for machinery safety directive 2006/42/EC	<b>M</b> Total system flow meter (120 cSt max)
<b>D1<sup>4</sup></b>	2 x S75DL8 filter assemblies in series	<b>O<sup>5</sup></b> On-board PM-1 particle monitor & clean oil indicator light
<b>D3</b>	True differential pressure gauge, visual green to red	<b>P9<sup>6</sup></b> Phosphate ester fluid compatibility modification
<b>E</b>	100 mesh cast iron basket strainer (Can't be paired with K option)	<b>S9<sup>7</sup></b> Skydrol fluid compatibility modification
<b>H1</b>	10' (3 m) return line hose extension	<b>U</b> CUL and/or CSA marked starter enclosure for Canada
<b>H2</b>	20' (6 m) return line hose extension	<b>Z</b> On site start-up training
<b>J</b>	Add pressure gauge between pump & filter assembly	

Media Selection	G8 Dualglass	G8 Dualglass + water removal	Stainless wire mesh
<b>1M</b>	$\beta_{3(c)} \geq 4000$	<b>3A</b> $\beta_{4(c)} \geq 4000$	<b>25W</b> 25 $\mu$ nominal
<b>3M</b>	$\beta_{4(c)} \geq 4000$	<b>6A</b> $\beta_{6(c)} \geq 4000$	<b>40W</b> 40 $\mu$ nominal
<b>6M</b>	$\beta_{6(c)} \geq 4000$	<b>10A</b> $\beta_{11(c)} \geq 4000$	<b>74W</b> 74 $\mu$ nominal
<b>10M</b>	$\beta_{11(c)} \geq 4000$	<b>25A</b> $\beta_{22(c)} \geq 4000$	<b>149W</b> 149 $\mu$ nominal
<b>16M</b>	$\beta_{16(c)} \geq 4000$		
<b>25M</b>	$\beta_{22(c)} \geq 4000$		

Seals	Options
<b>B</b>	Nitrile (Buna)
<b>V</b>	Fluorocarbon
<b>E-WS<sup>8</sup></b>	EPR seals + stainless steel support mesh

<sup>1</sup>Nominal flow rates at 60 Hz motor speeds.

<sup>2</sup>Has a max viscosity 200cSt limitation with 1P electrical option, and not available with "O" special option.

<sup>3</sup>Contact factory for sizing assistance on all viscosities.

<sup>4</sup>Replaces standard MF110 housings.

<sup>5</sup>"O" option includes "J" option, do not have to add to part number. "O" option not available with "X\_\_" options.

<sup>6</sup>When selected, must be paired with Seal option "V." Contact factory for more information or assistance in fluid compatibility.

<sup>7</sup>When selected, must be paired with Seal option "E-WS." Contact factory for more information or assistance in fluid compatibility.

<sup>8</sup>Only available in 3M media for HP75L8 series elements.

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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