



# FCL Filter Cart

Flow rate up to 22 gpm (82 lpm)

Ideal for high viscosity Lubrication and hydraulic oils (ISOVG22 ~ ISOVG320)

Filter new fluids during transfer and replenishment (top-off)

Flush fluids already in service with high efficiency elements in addition to existing filtration (Reliability).

Remove particulate and water contaminant.

Condition bulk oil before use.

Large element yields extended life.

## Materials of Construction

Assembly Frame: Painted Steel  
 Wheels: Rubber (solid, non-shredding)  
 Filter Assembly: Epoxy coated steel  
     25 or 50 psid bypass available  
     True differential pressure indicator  
 Hoses: Reinforced synthetic  
 Wands: Steel

## Operating Temperature

Nitrile (Buna)	-40f to 150f
	-40c to 66c
Fluorocarbon (Viton)*	-15f to 200f
	-26c to 93c

\*High temperature / phosphate ester design

## Fluid Compatibility

Petroleum and mineral based fluids (standard).  
 For polyol ester, phosphate ester, and other specified synthetics use Viton seal option or contact factory.

## Weight

FCL1: 350 Lbs (159 kg) approximate  
 FCL2: 360Lbs (164 kg) approximate  
 FCL3: 430 Lbs (195 kg) approximate

## Electric Motor Specifications

TEFC 56C frame  
 FCL1: 1 HP, 115VAC, 60Hz, 1P, 1750 RPM  
 FCL2: 1 1/2 HP, 115VAC (FLA 16 Amps)  
     230VAC, 60Hz, 1P, 1750 RPM  
     or 440VAC, 60Hz, 3P, 1750 RPM  
 FCL3: 3HP, 230VAC, 60Hz, 1P, 1750 RPM  
     or 440VAC, 60Hz, 3P, 1750 RPM

## Recommended Viscosity Range\*

FCL1\*: 28 SSU ~ 4000 SSU, 6 cSt ~ 800 cSt  
 FCL2\*: 28 SSU ~ 4000 SSU, 6 cSt ~ 800 cSt  
 FCL3\*: 28 SSU ~ 2000 SSU, 6 cSt ~ 400 cSt

\*At maximum viscosity clean element pressure drop on 6M media code < 10 psid. Please check maximum viscosity of oil in coldest condition.

## Pump Specifications

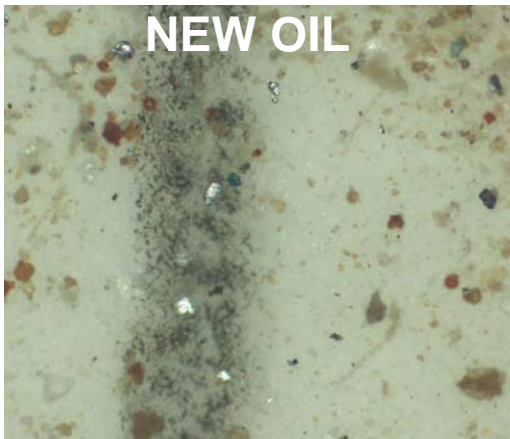
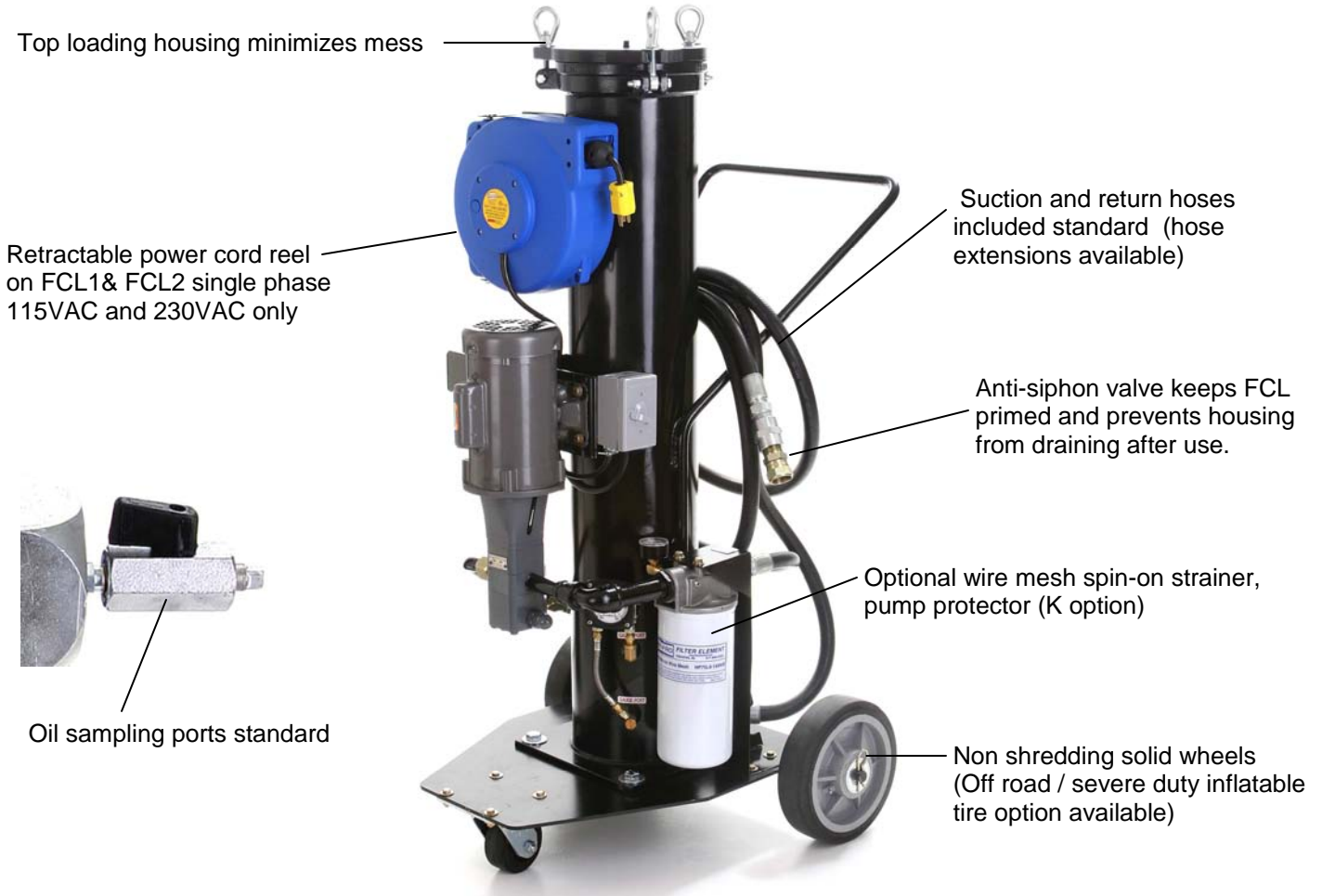
Gear pump  
 Internal relief full flow @ 100 psi standard.

## Explosion Proof Option

Class 1, Div 2 explosion option is available. Ask About our pneumatic powered carts.



## FCL1, FCL2, FCL3 FILTER CART APPLICATION INFO



### Filtering New Oil - Particulate and Water

New oil is typically not clean oil, and might not be suitable for use in hydraulic and lube systems. During the production and transportation process new oil collects high levels of solid contaminant and water. A common ISO code for new oil is 24/22/19. New oil is one of the worst sources of particulate contaminant system ingress.

The FCL will effectively remove free water while capturing particulate with high efficiency. Free and dissolved water in hydraulic and lube systems leads to accelerated abrasive wear, corrosion of metal surfaces, increased electrical conductivity, viscosity variance, loss of lubricity, fluid additive breakdown, bearing fatigue, and more. The FCL series filter cart includes a wide range of element combination options to tackle any challenge. The "A" media adsorbs water while controlling particles with absolute efficiency (beta ratio of  $\beta_X = 200$ ,  $\beta_{X_{[c]}} = 1000$ ).

### Flush and Condition Existing Systems

The FCL is also effective for conditioning fluids that are already in service. Equipping hose ends and reservoirs with quick disconnect fittings allows you to use the FCL as a portable side loop system that can service several machines.