



Filtration made easy...



Portable Filtration

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

Applications	
Filter new fluid	New fluids are usually above the recommended ISO cleanliness level
Off-line filtration	Filter cart can be used to supplement existing filtration
Transferring fluid	Fluid is transferred from a storage container (tote, drum, tank etc) to a machines reservoir
Water removal	Using Donaldson water removal elements can help remove free water from the system
Flushing after repairs & rebuilds	After machines are serviced or repaired they need to be flushed thoroughly before they are returned to service
Flushing during equipment commissioning	New machines have original fabrication debris and dirt that has ingressed during transport and storage



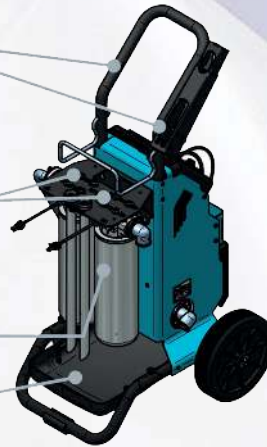
Donaldson - X77 0816 - Filter Cart

Stainless steel wands
 • Will not break or corrode

Differential pressure indicators
 • Lets you know when to change elements

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

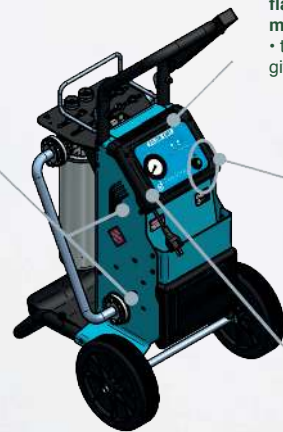


Dual electrical indicators with flashing on dashboard & manometer for pump
 • to monitor filter performance & give servicing instructions

Motor mounted on back
 • better balance
 • fluid will not drip on motor when changing filters
 • main pump protected by a cover

Overload protected switch
 • protects motor & pump from overheating

Optional
 • nozzle header
 • bottom valve
 • self 3000 nozzle



Integrated safety relief valve
 • protects against over pressurizing

The Donaldson filter cart provides a convenient portable mode of offline filtration, flushing and fluid transfer. Use it with your in-plant machinery and mobile hydraulic equipment to achieve and maintain proper ISO cleanliness levels.

In-series pressure filter can provide fine particle removal and a water absorbing element to obtain particulate and water removal. The powerful 50lpm pump provides efficient fluid transfer and filtration.

The Donaldson filter cart is designed with performance, convenience and safety in mind. It's value added features make it the best choice to protect your machinery and equipment from breakdowns caused by contamination.

Supply	220 V @ 50/60 Hz
Electric motor	Built-in thermal lockout
Electric cable	5 m
Maximum fluid viscosity	150 cSt
Flow rate	50 lpm
Maximum pressure	5 bar (internal pass)
Indicators	Dual electrical indicators with flashing on the dashboard & manometer for pump pressure
Suction hose	3 m
Discharge hose	4 m
Dirt filtration	P568666
Water adsorption	P570248
Optional	Suction anti-drain valve, discharge nozzle, quick couplings

Using the Donaldson Filter Cart

The filter cart system is able to perform the cleansing of tanks up to 1200 liters.

To calculate the time (t) needed to clean a reservoir or volume (V), use the following formula:

$$t(\text{min}) = V(\text{liter})/5 *$$



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Specifications

Part Number	X011407	X011408	X011431
Replacement Filter Elements	DBB8666 Fuel Filter & DBB0248 Water Absorbing Filter		
Target ISO Cleanliness	14/13/11 or better		
Fluid Compatibility	All diesel fuels & up to B20 bio-diesel blends		
Efficiency	4 micron @ Beta 2000		
Water Absorbing Filter	Stops all free & emulsified water		
Service Interval	25 psi service indicator moves from green to red		
Pump Model	Piusi® Panther 56	Piusi® Panther DC 12V	Piusi® Panther DC 24/12V
Power Consumption	420 Watts (35 amps @ 12V)	420 Watts (35 amps @ 12V)	600 Watts (25 amps @ 24V) 192 Watts (16 amps @ 12V)
Working Pressure	23psi/160kPa/1.6bar	22psi/150kPa/1.5bar	
Relief	Internal bypass valve		
Max Flow Range	15gpm/56lpm	15gpm/56lpm	18gpm/70lpm@24V 9gpm/35lpm@12V
Duty Cycle	Continuous	30 minutes	30 minutes

Features

- High efficiency fuel filter meets target cleanliness in a single pass
- Water absorber removes free water (separated and emulsified)
- Rugged steel frame with stands heavy duty use
- Electrodeposited zinc, power top coat and stainless fasteners provide ultimate corrosion protection
- Convenient holes and slots allow frame to be easily hung or secured
- Removable drip tray allows easy clean-up
- Internal 100 micron pump filter keeps debris out of pump for increased reliability
- All units are leak tested during manufacturing

FindYourFilter...



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