

# Fluid Conditioning Unit Standard Filter Cart

## Simple Pre-filter and Fluid Transfer system



*“Your one stop for hydraulic filtration systems”*

- Uses a wide variety of elements so as to get to a desired cleanliness level.
- Rugged and durable heavy duty frame.
- Lightweight and portable for one man operation.
- Can be customized for varying requirements.

The Wilson Systems Filter carts are the ideal way to pre-filter and transfer fluids into reservoirs or to clean up existing systems.

Fluid should always be filtered before being put into use. New fluid is not necessarily clean fluid. Most new fluids (right out of the drum) are unfit for use due to high initial contamination levels.

Contamination, both particulate and water, may be added to a new fluid during processing, mixing, handling and storage.

The Wilson Systems filter cart uses two high capacity filters for long element life and better system protection.

Special features designed into the Filter Cart include a heavy duty 4 wheel hand cart with a 400 pound rating, a rugged industrial gear pump and eleven foot hoses with stainless steel wands.

Using a Wilson Systems portable filter cart is the easiest and most economical way to protect your system from harm that can be caused by contamination.

Features	Advantages	Benefits
Two filters instead of one.	Pump protection and long element life.	Element cost savings and trouble-free service.
Wide variety of particulate elements available.	Capable of getting a fluid to a desired cleanliness level.	Avoids excess costs due to filter over or under filtration.
Water removal elements available.	Removes “free water” from a system.	Gets dirt and water out of the system with one process.
Six flow rates available (5, 10, 15, 20, 30 and 40 gpm).	Enables use in low or high viscosity applications.	Matched to your needs.
Eleven-foot hose and wand assemblies included.	Additional hardware not necessary.	Ready to use as received.

### Industry Involvement

- Oil & Gas
- Aerospace
- Space
- Marine
- Nuclear
- Construction
- Government
- Power Gen/Energy
- Primary Metals
- Scrap
- Mining
- Forestry
- Process Industry
- Food & Beverage
- Chemical
- Waste Water
- Packaging Machinery
- Transportation
- Pulp & Paper
- Medical & Life Sciences
- Airport Equipment
- Municipal Equipment
- Agricultural Equipment
- Textile & Extrusion
- Amusement

# Standard Filter Cart

## Wilson Systems

4501 Ratliff Lane  
Addison, TX 75001  
800-580-1212

## Distribution/Retail Centers

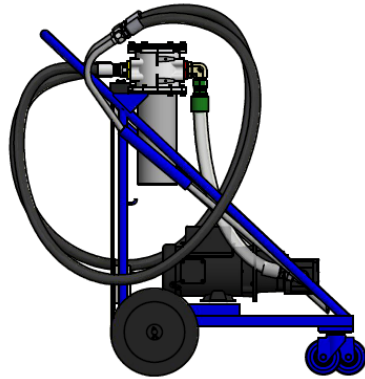
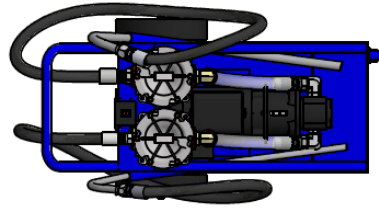
Austin, Texas  
8606 Wall St.,  
Ste 1700  
Austin, TX 78754  
800-407-6076

Houston, Texas  
7330 W. Sam Houston  
Pkwy N.  
Houston, TX 77040  
877-580-6815

San Antonio, Texas  
7806 Fortune Dr.  
San Antonio, TX 78250  
800-580-3322

Fort Worth, Texas  
2205 Moneda Street  
Holtom City, TX 76117  
800-580-8605

Texarkana, Arkansas  
3200 E. 19th Street  
Texarkana, AR 71854  
800-545-9598



## Filter Cart Applications

- Filtering new fluid before putting into service
- Transferring fluid from drums or storage tanks to system reservoirs
- Conditioning fluid that is already in use
- Complimenting existing system filtration
- Removing free water from a system
- For use with fluids such as hydraulic, gear and lube oils

## Specifications

**Weight:** 160 pounds

**Dimensions:** H: 41" W: 19" D: 34 (not including hoses and wands)

**Maximum Recommended Fluid Viscosity:** 2000 SUS (.85 specific gravity)

**Filter Bypass Valve Settings:** Inlet 3 psid  
Outlet 35 psid

**Outlet Filters:** Visual Indicator on Outlet Filter

## System Requirements

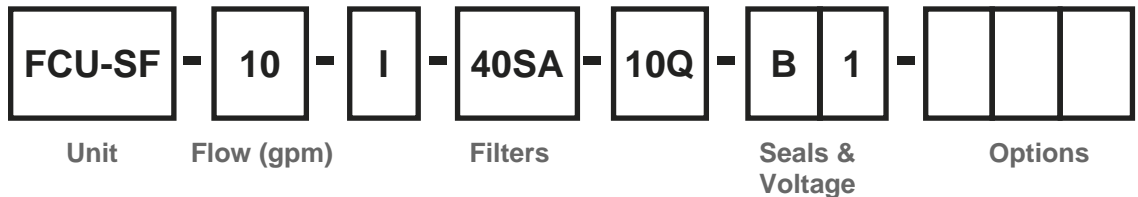
**Electrical Service:** 115 volts,  
Single Phase, 60 Cycles

**Power:** 10 Amps

Other Options Available

## How to Order

Standard Stock Unit: FCU-SF-10-I-40SA-10Q-B1



UNIT	FLOW		FILTER TYPE	INLET FILTER		OUTLET FILTER		SEALS	VOLTAGE	CORD REEL	VFD	PARTICLE COUNTER
	gpm	hp (ref)		ILP	AT	ILP	AT					
FCU-SF	5	.5	I = ILP	02Q	10C	02Q	10C	B = BUNA	1 = 120/60	OMIT = NONE	OMIT = NONE	OMIT = NONE
	10	.75	A = AT	10Q	20B	10Q	20B	E = EPR	2 = 110/220/60	C = CORDREEL	V = VFD	P = PARTICLE COUNTER
	15	1		20Q	10B	20Q	10B	V = FLOUROCARBON				
	20	1.5		WR	03B	WR	03B					
	30	2		05Q		05Q						
	40	3		40SA								

## SUPPORT SERVICES AVAILABLE

Technical Support Installation and Setup Maintenance

Application Support Hardware Support Guaranteed Warranty



# Standard Filter Cart Features

## Service Cover

- ◆ Top-accessible for easy changing of elements

## Dual Filters

- ◆ Two-stage filtration for long element life and pump protection

## Motor

- ◆ Industrial brand name

## Gear Pump

- ◆ Industrial quality
- ◆ Quiet operation
- ◆ Dependable, long life

## Drip Pan

- ◆ Helps keep the work area safe

## Elements

- ◆ Available for both particulate and water removal

## Electrical Cord

- ◆ 8ft with on/off switch
- ◆ Optional 20ft cord with reel

## Visual Indicator

- ◆ Tells you when to change elements

## Hose & Wand Assembly

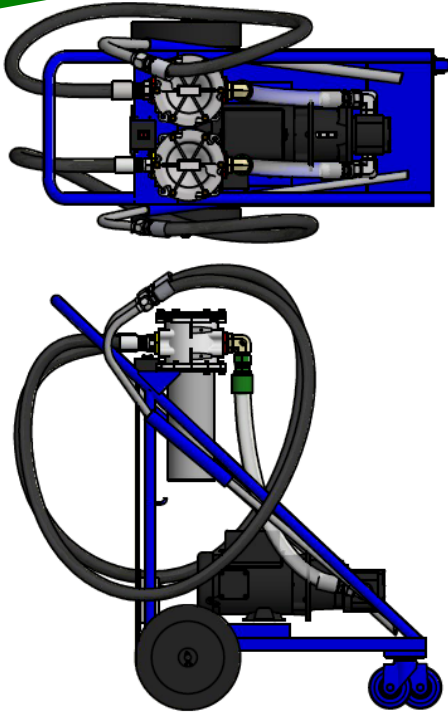
- ◆ Ready to use; no additional hardware needed
- ◆ Flexible hoses for tight spots
- ◆ Kink-resistant hose prevents pump cavitation
- ◆ Hoses Swivel

## Heavy Duty Frame

- ◆ Rugged and built to last



# Standard Filter Cart Replacements and Information



## Replacement Parts (for Standard Filter Cart)

Part No	Description	Qty	Part No	Description	Qty
FCUP001	Wheels Front	2	FCUP010	Shaft Coupler Insert	1
FCUP002	Wheels Rear	2	FCUP011	Inlet Wand/Hose Assembly	1
FCUP003	Hydraulic Pump	1	FCUP012	Outlet Wand/Hose Assembly	1
FCUP004	Electric Motor 3/4hp	1	FCUP013	Electric Motor Mount Pad	1
FCUP006	On/Off Switch	1	FCUP014	Filter Cover/Bowl O-Ring	2
FCUP007	Circuit Breaker	1	FCUP015	Power Cord	1
FCUP008	Motor Shaft Coupler	1	FCUP016	Outlet Filter 35psi Indicator	1
FCUP009	Pump Shaft Coupler	1	FCUP017	Filter Cover/Bowl Bolts	24
			FCUP18	Rear Axle Cotter Pin	2

## Replacement Element Part Numbers (ILP)

Media Code	Inlet Filters	Outlet Filters
02Q	FCUE011	FCUE002
05Q	FCUE010	FCUE003
10Q **	FCUE007	FCUE001
20Q	FCUE008	FCUE004
WR	FCUE009	FCUE005
40SA **	FCUE006	

## Replacement Element Part Numbers (AT)

Media Code	Spin-On Filters
10C	FCUE020
20B	FCUE021
10B	FCUE022
03B	FCUE023

\*\* Standard Elements

## Typical Fluid Requirements

Component	ISO Cleanliness Level
Servo Control Valves	16/14/11
Proportional Valves	17/15/12
Vane and Piston Pumps/Motors	18/16/13
Directional & Pressure Control Valves	18/16/13
Gear Pumps/Motors	19/17/14
Flow Control Valves, Cylinders	20/18/15
New Fluid	20/18/15

## FCU-SF-10 Fluid Conditioning/Filtering Performance

Reservoir Capacity Gallons	Required Operating Time In Hours	Projected Cleanliness Level ISO
50	0.5	20/18/15
50	1.0	17/15/12
50	2.5	16/14/11
100	1.5	18/16/13
100	2.5	17/15/12
100	4.0	16/14/11
200	2.5	19/17/14
200	3.5	18/16/13
200	5.0	17/15/12