

# 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.     |
| 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

Bulletin No:  
FCU-SF-0301-r1

All specifications subject to change  
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*AS9100/ISO9001 Certified Facility*  
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# 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

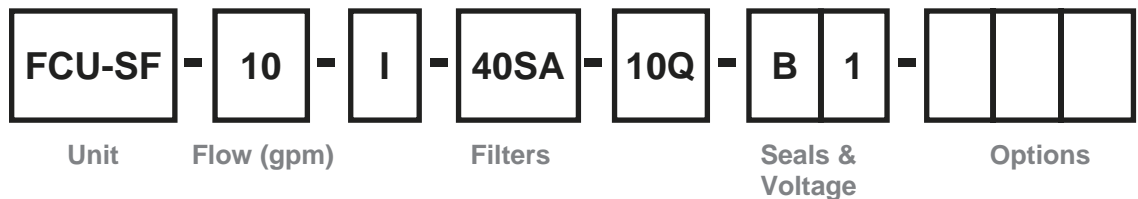
**Electrical Service:** 115 volts,  
Single Phase, 60 Cycles

**Power:** 10 Amps

**Other Flow Options Available  
Upon Request — Contact  
WilsonFPS for Quote**

## 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 | 10   | .75      | I = ILP     | 02Q          | 10C | 02Q           | 10C | B = BUNA         | 1 = 120/60     | OMIT = NONE  | OMIT = NONE | OMIT = NONE          |
|        |      |          | A = AT      | 10Q          | 20B | 10Q           | 20B | E = EPR          | 2 = 110/220/60 | C = CORDREEL | V = VFD     | P = PARTICLE COUNTER |
|        |      |          |             | 20Q          | 10B | 20Q           | 10B | V = FLOUROCARBON |                |              |             |                      |
|        |      |          |             | WR           | 03B | WR            | 03B |                  |                |              |             |                      |
|        |      |          |             | 05Q          |     | 05Q           |     |                  |                |              |             |                      |
|        |      |          |             | 40SA         |     |               |     |                  |                |              |             |                      |

## SUPPORT SERVICES AVAILABLE

Technical Support Installation and Setup Maintenance

Application Support Hardware Support Guaranteed Warranty

**Wilson Fluid Power Solutions**

**AS9100/ISO9001 Certified Facility**

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# 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                        |