

Portable Filtration Cart SPFC series Operating Instructions



Local solutions for individual customers worldwide

Congratulations on your purchase of a STAUFF Portable Filtration Cart

When used correctly this cart will deliver years of trouble free service with a minimum of maintenance. Please review the following information for safe and efficient operation of this cart.

Important Safety Information



Your SPFC cart has a dry weight of 53 Kg. If manual lifting is required this should always be performed by at least two people.

- The electrical motor and control switch are protected to minimum IP 54 rating and contain no user serviceable parts. If service is required this should only be attempted by trained personnel or returned to STAUFF Corporation for attention.
- This cart is fitted with an electrical lead and earthed plug. Connection to electrical supply should only be made through a properly earthed power outlet of 10 Amp rating, fuse or circuit breaker protected.



DO NOT ATTEMPT TO USE THE CART IF ANY OF THE ELECTRICAL COMPONENTS INCLUDING THE LEAD ARE WORN OR DAMAGED.

- This cart is intended to supply filtered oil into a non pressurized container. Ensure that the delivery hose is only connected to a non pressurized container. Failure to do this may result in damage to the delivery hose and may result in personal injury and will void warranty.
- Before routine maintenance is attempted ensure power switch is turned off and the electrical plug is disconnected from the power source.
- This cart is fitted with a standard IP 54 TEFC motor and is not safe for use in explosive environments. This cart should only be used in properly ventilated areas acceptable for the operation of standard electrical motors.



This cart is suitable for service with mineral based hydraulic oils within a viscosity range of 10 - 150mm2/sec. Consult STAUFF Corporation for service with other fluids.

Technical Specifications

Flow:	23 L/min. nominal			
Electrical motor:	1450 RPM 0.55 kW			
Voltage:	240 V 50 Hz			
Pump:	Gear type 23L/min. @1450 RPM			
Seals:	Buna N® rubber			
Filter:	Magnetic core (integral pre filter)			
Filter element:	10 micron absolute fibreglass			
Clogging indicator:	Visual indication at 1.3 Bar			
Suction / Delivery hoses:	34" I.D. x 3metre. Suction hose fitted with drum lance H = 900mm			
Start / Stop with 3 mtre. Cable.				
Heavy duty frame with pneumatic tyres (inflate to 350 kPa) (50 PSI)				
Weight dry:	53Kg			
Dimensions:	H= 1300mm, W= 620mm, D= 500mm			
Suitable for mineral oil service at:	10 – 150 mm2/sec.			

Ordering Codes

Complete filter + element:	SPFC-21-A-B/X-BVA
Replacement element:	1020026314

General operating instructions

This cart may be used for transfer, filling and / or draining of fluid containers / reservoirs. The following instructions are generic to all of these operations.

- 1. Position Filtration Cart close to work site within easy reach of electrical power source and both intended oil supply and oil delivery points.
- **2.** The Filtration Cart should be placed in a position that requires a minimum of suction lift. I.E: Filtration Cart on the same level as the oil supply or Filtration Cart below the oil supply is preferred. Placing the Filtration Cart above the oil supply should be avoided and may cause cavitation of the Filtration Cart pump.
- **3.** Insert the Filtration Cart suction hose drum lance into the oil supply point so that the lance suction opening is completely immersed in the oil supply.
- **4.** Insert the Filtration Cart delivery hose end into the desired oil delivery point ensuring that this is a non pressurized point.
- **5.** Connect the electrical plug to a properly earthed 10 Amp power supply and turn on the power outlet.
- **6.** Briefly depress the green "ON" switch on the Filtration Cart power switch. The electrical motor should rotate in a clockwise direction when viewed from the fan end and oil should be drawn through the unit and delivered in a filtered state to the desired oil delivery point. If oil is not observed to be drawn through the clear suction and delivery hoses check that the oil viscosity is within stated limits (refer technical specifications page 2), check also that the Filtration Cart is located level with or below the oil supply. If oil is still not observed flowing through the suction and delivery hoses contact STAUFF Corporation.
- 7. On completion of operation briefly depress the red "OFF" switch on the Filtration Cart power switch, turn off the power outlet and remove the electrical plug. Allow sufficient time for the suction and delivery hoses to drain any hydraulic oil and store hoses and lead on the carrier brackets supplied.

Maintenance

Your STAUFF Filtration Cart is designed to deliver satisfactory service with a minimum of regular maintenance.

However the condition of the filter element should be checked on a regular basis. The filter housing is fitted with a condition monitoring gauge located in the filter head. The face of the condition monitoring gauge is colour coded to show the condition of the element. A green indication means satisfactory element. A yellow indication means that the element condition is marginal. And a red indication means that the element is clogged and should be replaced.



NOTE: The condition monitoring gauge requires a flow of oil to cause indication and will only provide an indication of filter element condition when the Filtration Cart is in opertion. The gauge will not indicate when the Filtration Cart is turned off.

To change filter element proceed as follows;

- 1. Turn off the unit and isolate the Filtration Cart from electrical power.
- 2. Ensure Filtration Cart delivery line is vented to atmosphere.
- **3.** Loosen four restraining nuts (SW6) from the filter housing head cover and loosen filter housing head cover from filter housing head ensuring that no encapsulated pressure exists.
- **4.** Remove four restraining nuts and remove filter housing head cover taking element locating spring out of the housing at this time.
- **5.** Remove element and insert from the filter housing.
- **6.** Loosen and remove insert bypass spring by unscrewing bypass spring retaining nut (SW9).
- 7. Remove clogged filter element and discard in a responsible manner.
- 8. Install fresh filter element onto insert and replace bypass spring to "spanner tight" torque.
- **9.** Install filter element and insert into filter housing and replace locating spring at top of insert.
- **10.** Install filter housing head cover taking care not to damage seal and install four restraining nuts to "spanner tight" torque.

Optional Accessories



LASER PARTICLE COUNTER (LasPacII)

The STAUFF Laser Particle Counter LasPaC II-P is a laser based 8-channel particle counter designed for monitoring the degree of contamination of mineral based hydraulic fluids.

In contrast to other commercially available particle counters, the LasPaC II-P is characterized by a few particular features, just to mention only the large LCD display, a most comfortable QWERTY keyboard, the integrated printer and the powerful rechargeable battery, which enables on-the-spot measurements, even in cases where a direct connection to an external power supply is not available. Using the LasPaC II-P is fully intuitive, thus allowing easy and quick working with the unit.

LASER PARTICLE MONITOR (LPM II)

The LPM II automatically measures and displays particulate contamination, moisture and temperature levels in various hydraulic fluids. It is designed specifically to be mounted directly to systems, where ongoing measurement or analysis is required, and where space and costs are limited.

Features include; LED readout, Aux communications (comm) port, 8 channel contamination measuring channels, Channels >4,6,14,21,25,38,50,70 μ m (c), Switchable displays between contamination class ISO 4406:1999, NAS 1638, AS 4059E & ISO 11218 or only as particle count size.



OIL SAMPLING KIT

Fluid analysis is a crucial component of any oil management program. Early detection of potential problems can prevent costly repairs and downtime. STAUFF Check Oil Analysis Kits provide a complete laboratory report for your sample.

The STAUFF Check Fluid Analysis Kit includes complete laboratory analysis of your oil sample as part of the initial purchase price of the kit. Each kit includes an ultra-clean bottle with pre-addressed mailer and sample information sheet.



One Year Limited Warranty

STAUFF Corporation Pty Ltd warrants to the original purchaser, for the period of one year from the date of purchase, that the filter cart is free from defect in materials and workmanship.

This warranty does not cover any cart that has been damaged due to abuse or operation beyond the maximum specifications stated by STAUFF Corporation Pty Ltd. in the associated literature or by use on incompatible fluids.

STAUFF Corporation Pty Ltd sole obligation under the warranty is limited to the repair or the replacement of parts, at no charge, found to be defective after inspection by STAUFF Corporation Pty Ltd or one of its divisions. Repair or replacement of parts will be at STAUFF Corporation Pty Ltd discretion.

Written authorisation from STAUFFCorporation Pty Ltd is required before any filter cart can be returned under warranty. Cost of shipping is not covered by the warranty and is at purchasers cost.

STAUFF Corporation Pty Ltd is not liable for any consequential damages or any contingent liabilities arising out of the failure of any filter cart component part or accessory.

The above warranty is to be read in conjunction with our General Conditions of Sale and Contracts. No agent, representative or distributor has any authority to alter the terms of this warranty in any way.

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AUSTRALIA Stauff Corporation Pty Ltd

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