Filtertechnik

SFC-4000 Mobile Single Pass Filtration Unit



The SFC-4000 is a mobile filtration unit designed to provide single pass filtration on hydraulic and lubrication oils. A variable speed drive ensures smooth operation over a large range of viscosities and applications.

Suitable for industrial applications such as:

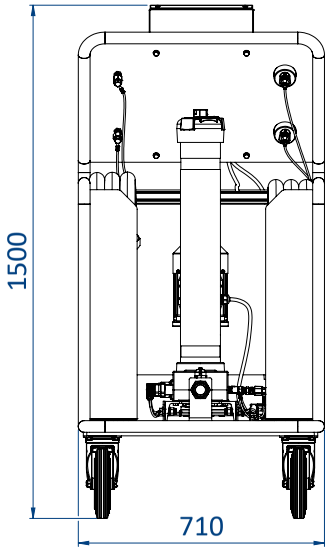
- **Mobile Plant**
- **Power Generation**
- **Automotive**
- **Aerospace**
- **Pulp and Paper**

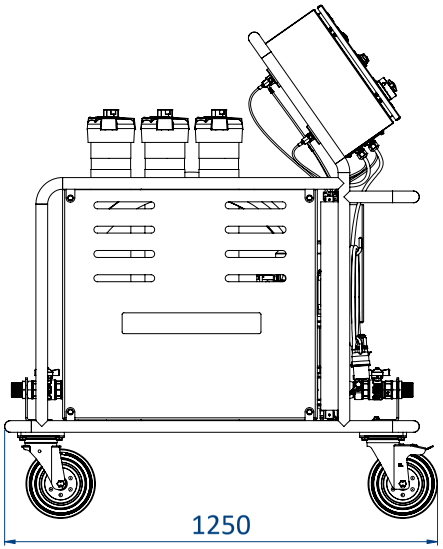
Introduction

The SFC-4000 mobile filtration unit is designed for continuous use or transfer duties on hydraulic and lubrication oils. A rugged self-priming internal gear pump, fitted with an inverter controlled variable speed drive, provides filtration flow rates up to 120 L/min, making this unit suitable for all applications from mobile plant up to large volume tanks and gear boxes. 3 stages of filtration using 27" K-series elements from Schroeder Industries allows for single pass use with a dirt holding capacity of over 1Kg.

Features & Benefits

- Variable speed pump up to 120 L/min
- Ideal for use with high viscosity oils
- 3 stage filtration for single pass use
- Absolute rated filter elements down to 1 micron
- Massive 1Kg dirt holding capacity
- Simple controls with push button START/STOP, speed control and E-Stop
- LED indication of blocked filter
- Hose storage incorporated into the frame
- Oil sample points pre and post filtration
- Easy connection to the Particle Pal series of condition monitoring equipment
- Gauges for vacuum and pump pressure
- Compact mobile design that will fit through a standard doorway

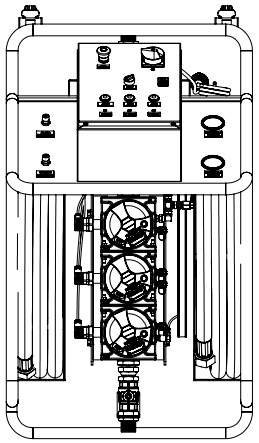




SPECIFICATION

- 415 VAC 3 PHASE
- 40 UR GEAR PUMP C/W INTEGRATED PRV(7BAR)
  CLOSE COUPLED TO A 2.2kW MOTOR
- 3 STAGE SINGLE PASS 27" FILTER SYSTEM
- INVEROR DRIVEN VARIABLE SPEED DRIVE
- RUGGED PUSH BUTTON START/STOP/RESET CONTROLS
  C/W E-STOP AND MAINS ISOLATOR
- 2 X 5M WEAR RESISTANT HOSES
- MINIMESS 1620 SAMPLE POINTS FOR PRE/POST FILTRATION







FEATURES

- 1 1/4" BSPMALE INLET & OUTLET PORTS
  C/W BALL VALVE
- VACUUM & SYSTEM PRESSURE GAUGE
- RUGGED FRAME WITH SWIVEL LOCKABLE REAR WHEELS
- USER FRIENDLY CONTROL PANEL C/W VARIABLE SPEED DRIVE CONTROLLER
- 2 X REMOVABLE HOSE STOW
- 3 STAGE,SINGLE PASS FILTER SYSTEM WITH FRONT PANEL INDICATION WHEN BLOCKED



GENERAL TOLERANCES UNLESS OTHERWISE STATED - TO COMPLY WITH BS EN 22768:1993 - DO NOT SCALE DRAWING - IF IN DOUBT ASK

GEOMETRIC TOLERANCES

	MACHINED	FABRICATED
TOTAL RUNOUT	0.2mm	
SYMMETRY	0.2mm	1.0mm
FLATNESS		
0mm > x ≤ 1000mm	0.2mm	2.0mm
1000mm > x ≤ 6000mm	0.4mm	4.0mm
PERPENDICULARITY		
0mm > x ≤ 1000mm	0.2mm	1.0mm
1000mm > x ≤ 3000mm	0.4mm	4.0mm

FABRICATION FEATURES - Class c

0mm > x ≤ 500mm	± 1mm
500mm > x ≤ 1000mm	± 2mm
1000mm > x ≤ 2000mm	± 3mm
2000mm > x ≤ 3000mm	± 4mm
3000mm > x ≤ 5000mm	± 5mm

0mm > x ≤ 6mm	± 0.1mm
6mm > x ≤ 30mm	± 0.2mm
30mm > x ≤ 120mm	± 0.3mm
120mm > x ≤ 400mm	± 0.5mm
400mm > x ≤ 1000mm	± 0.8mm
1000mm > x ≤ 2000mm	± 1.2mm
2000mm > x ≤ 4000mm	± 2.0mm

MACHINED FEATURES - Class m

HOLE CENTRES ± 0.4mm
ANGULAR TOLERANCE ± 1°
SURFACE TO BE MACHINED 1.6µm
ALL THREADS TO BE COARSE - 6H / 6g
SURFACE TEXTURE WHERE SPECIFIED IS IN µm
UNLESS STATED DIMENSIONS IN MILLIMETRES
REMOVE ALL BURRS AND SHARP EDGES

THIRD ANGLE PROJECTION

Filtertechnik
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WWW.FILTERTECHNIK.CO.UK

	NAME	DATE
DRAWN	IL	16/06/2022
CHK'D	DW	16/06/2022

MATERIAL: PLAIN CARBON STEEL FRAME
FINISH: POWDER OATED: RAL 5004 BLUE BLACK
MASS: 264031.50 GRAMS

DRAWING TITLE: MOBILE OIL FILTRATION UNIT- 415 VAC
PART NO.: FRB-81921
REVISION: 001
SCALE:1:20 | SHEET 1 OF 1 | A2

Oil Analysis and Polishing Equipment

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Technical Specifications

Model	SFC-4000-415-AA*-BB**-CC***
Width	710mm
Depth	1250mm
Height	1500mm
Weight	Approx 120Kg
Frame	Mild Steel
Finish	Powder coat
Wheels	200mm dia solid tyres
	x2 swivel / x2 swivel+lock
Voltage	415VAC / 50/60Hz / 3P+N+E
Current	6A
Power	2.2kW
Pump	Self priming internal gear
Duty Cycle	Continuous
Filtration	x3 27" Schroeder K series "Single Pass"
Internal Bypass (filter)	40 psi (2.8 Bar) cracking pressure.
Filter Indicator	Electrical with LED panel indication.
Pressure	100 psi (7 Bar) max pressure (pump relief)
Temperature	-10….+100°C
Flow	20-120 L/min with variable speed drive
Viscosity	1000cst max
Environment	IP54
Connections	1.25" BSP (M)
Inlet Hose	1.25" 3m
Outlet Hose	1.25" 3m
Extension Lances	1.25" 1m
Additional	Hose / lance storage on the frame
	Vacuum and pump pressure gauges.
	Oil sample points pre and post filtration.

FILTER ELEMENT OPTIONS			
	Micron	**Part Code**	**Dirt Hold Capacity (g)**
AA*	25	27KGZ25	279
	10	27KGZ10	324
	5	27KGZ5	357
	3	27KGZ3	345
	1	27KGZ1	336
	WATER REMOVAL	27KGW	
BB**	25	27KGZ25	279
	10	27KGZ10	324
	5	27KGZ5	357
	3	27KGZ3	345
	1	27KGZ1	336
	WATER REMOVAL	27KGW	
CC***	25	27KGZ25	279
	10	27KGZ10	324
	5	27KGZ5	357
	3	27KGZ3	345
	1	27KGZ1	336
	WATER REMOVAL	27KGW	
All elements are absolute rated.			

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