

SCM-CARTRIDGE FILTER UNIT



The Cartridge Filtration Unit is the most commonly used cartridge filter unit in the oilfield industry. This offshore proof, skid-mounted filter unit is equipped with all necessary valves and safety features. The unit offers the most cost effective way to clean-up all possible oilfield fluids. It allows you to simultaneously filter with one vessel, and easily change out the used cartridges of the other vessel.

APPLICATIONS

- Completion fluids
- Water injection
- Produced water
- Seawater intake
- Oily water clean up
- Diesel
- Pre-filtration RO

FILTER UNIT RANGE

- SEI 610-50/40
- SEI 610-50/40-P
- SEI 610-50/40-4B
- SEI 610-4B
- SEI 510-30/40
- Other types, including single vessel units, upon request

FEATURES & BENEFITS

- Standard serial/parallel configuration
- Standard SEI 610 type: 50 cartridges per vessel
- Compact space saving design
- Innovative push lever and swing-away vessel lid, easy to operate
- Swing-bolts and nuts for quick opening
- Self-sealing, service friendly cover gasket
- All 4 inch valves easy to operate
- Certified hoisting slings lifting lugs and forklift pockets
- Safety valve set at 7 bar (105 psi)
- Offshore DNV 2.7.1frame

TREATMENT AND DISPOSAL

SPECIFICATIONS

General	
Model	SCM-Cartridge Filter Unit
Number of cartridges per vessel	50 cartridges
Maximum recommended flow	18 bbl/min (143 m3/hr)
Maximum working pressure	7 bar (105 Psi)
Maximum working temperature	158 °F (70 °C)
Vessel design	PED
Material wetted parts	SS 316 L
Cartridge diameter	2.5" (63.5 mm)
Cartridge length	40" (101.6 cm) plug in type
Vessel diameter	24" (610 mm)
Pipe size	4"
Pressure relief valve	1" bronze, set point 7 bar (105 psi)
Instruments	in/outlet pressure gauge (0-10 bar/0-150 psi)
Lid seal	NBR
Vessel lid	Lever operated swing away
Connections	
In-/ outlet	4" union fig.100 inch on 4" NPT-M / 4" camlock
Drain/ vent	1" SS 316 ball valve with 1"BSP-F
Main Valves	4" Butterfly valve, NBR seat, SS disc
Dimensions	
Length	7.38 ft (2.25 m)
Width	3.94 ft (1.20 m)
Height	7.22 ft (2.20 m)
Weight	
Net	3,085 lbs (1,400 kg)
Construction Frame	
Material frame	Carbon steel, powder coated
Design code frame	EN 12079/ DNV 2.7.1
Lifting	Hoisting slings (certified) and forklift pockets

OPTIONAL

- ASME VIII / DNV / TUV / Stoomwezen certified
- High pressure design
- Other Construction materials
- Other cartridge configurations
- Other manifold size and connection types
- Combination unit, integrated bag filter option
- Vessel linings: rubber, epoxy, glass flake, PU

