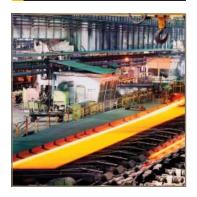




aerospace
climate control
electromechanical
filtration
fluid & gas handling
hydraulics
pneumatics
process control
sealing & shielding





# Oil Conditioning Unit





ENGINEERING YOUR SUCCESS.

### **Applications**

The Parker Oil Conditioning Units (OCU) are a family of off-line filtration packages designed to effectively remove water or particulate contamination from hydraulic and lube system fluids. The high performance, high capacity design enables the efficient removal of the very fine contaminants that cause premature wear in expensive hydraulic components. In addition, the precursors to varnish are also reduced or eliminated completely.

The compact, user-friendly OCUs are a cost effective method to reduce system contamination while helping to insure the reliability of your hydraulic or lube system.

#### Aviation

- ground support equipment
- simulators

#### Power Generation

 steam and gas turbine hydraulic and lubrication

#### Automotive

- presses
- stamping equipment

### Steel Mills

- rolling mills
- continuous casters
- sheet mills

### Injection Molding

- hydraulic circuits

### Railway

- car assembly
- wheel presses

### Pulp & Paper

- machine lubrication

### Construction

- timber harvesting
- aerial lifts
- excavators

### Wind Power

- turbine generators
- gear boxes

#### • Oil & Gas

- hydraulic equipment



Technology



 A card sleeve compresses the lower part of the element to increase the density and a non-woven cloth protects the base and stops particle migration.



The filter design allows the oil to flow under pressure through 114mm of engineered media with three distinct stages of filtration and water absorption.

The largest particles are retained in the top of the element (1), making for an excellent diagnostic tool. Smaller particles are trapped in the mid stage (2), and the smallest particles are trapped in the lower and most compressed part of the element (3).

The cellulose media allows water absorption of up to 200 milliliters within the filter, reducing the water concentration in oil to less than 100 parts per million.

Equally noteworthy is the efficiency of the media in removing resins, metals and oxidation products, all of which are extremely damaging to closetolerance components.

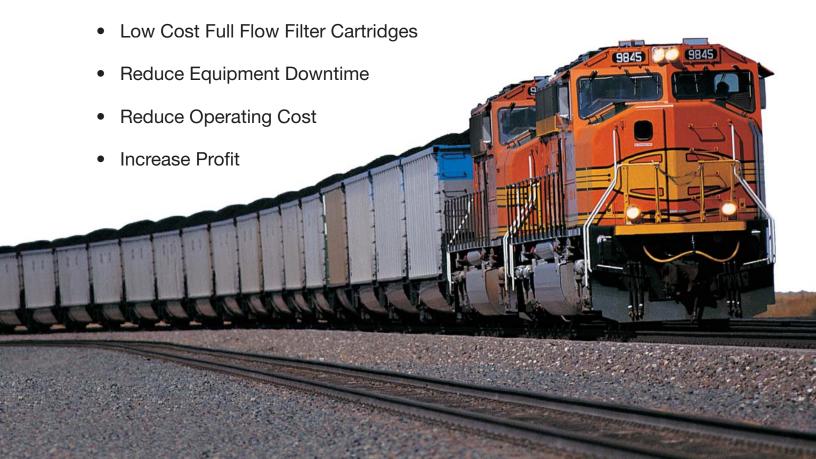
Manufactured from a specifically engineered cellulose material wound onto a central core, the OCU combines filtration principles to achieve effective filtration – low flow, low pressure and depth loading axial filtration – flow direction from the top to the bottom.

### Features and Benefits

- Solid Particle Filtration
- Water Absorption
- Sludge, Resin, and Oxidation Absorption

### The Parker OCU Benefit

- Removing up to 99% of all Solid Contaminates
- Reducing the Water Concentration to Less than 100 ppm
- Eliminating Resins and Oxidation Products
- Longer Life for Hydraulic Components
- Significant Reduction of Oil Consumption and Oil Disposal Cost



Features and Benefits



Tool-less access and easy service via the T-handle.

The combination of chemically treated cellulose and synthetic layers of media presents a massive surface area to remove solid contamination and emulsified water. The result is both exceptional dirt holding capacity and removal of water concentration to less than 100 ppm.

The engineered base design at the bottom of the housing supports the element under high pressure and provides a channeled migration path for clean fluid to flow back into the primary stream.

The Oil Conditioning Unit is designed as a top load filter, but can be mounted at any angle using the heavy-duty mounting bracket.



The intricately channeled base provides a large footprint to fully support the element under pressure, ensuring uniform loading of the element. Ultra-clean oil flows through the channels into the clean oil stream.

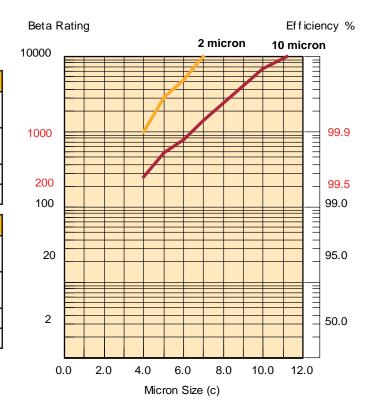
## **0C1 and 0C2**

### Element Performance

### Efficiency

		Model OC1	
Media Grade	Part Number		
		Capacity @ 25 PSID (1.7 Bar)	Capacity @ 50 PSID (3.5 Bar)
2 Micron	942650	16.2 grams	23.3 grams
10 Micron	942652	28 grams	44.3 grams

Model OC2			
Media Grade	Part Number		
		Capacity @ 25 PSID (1.7 Bar)	Capacity @ 50 PSID (3.5 Bar)
2 Micron	942654	22 grams	45.8 grams
10 Micron	942656	36.5 grams	61.6 grams



Results typical from Multi-pass tests run per modified test standard ISO 16889 to 50 psid terminal - 100 mg/L BUGL ISO Medium Test Dust was used per the standard - User results will vary based on system particle distribution.

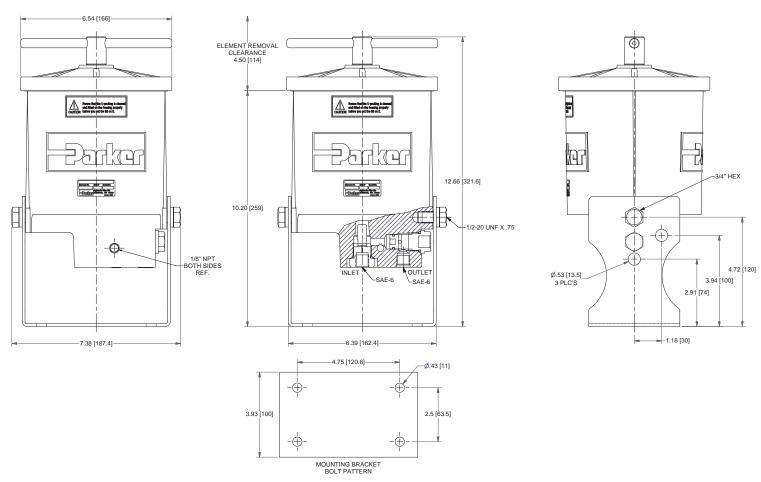
Dirt Holding Capacity results will typically improve with soft or submicron size particles due to reduced surface caking.



# **OC1** without Pump/Motor

## Specifications

Specifications	OC1
Maximum Pressure	180 PSI (12.4 bar)
Port Size (inlet/outlet)	SAE 6/SAE 6
Dimensions	W6.38 x D6.54 x H12.48 in. (W162 x D166 x H317 mm)
Weight	10 lbs (4.5 kg)
Flow Rate	0.4 GPM (1.5 L/min.)

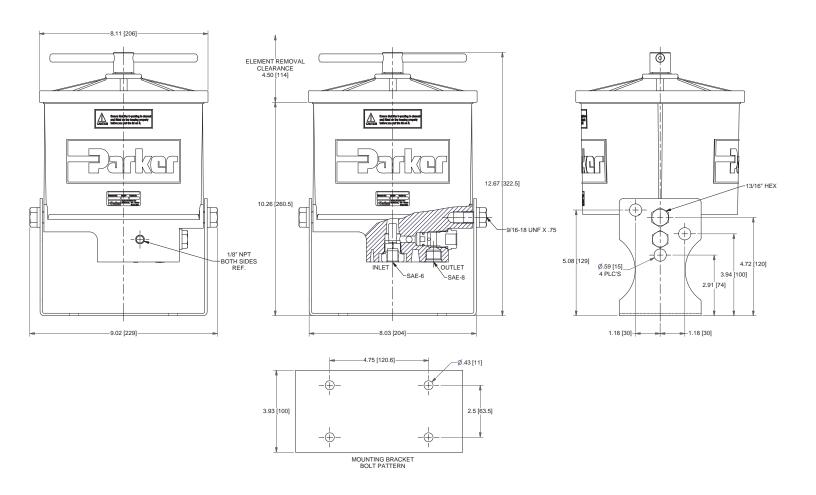


Drawings are for reference only. Contact factory for current version.

# **OC2 without Pump/Motor**

## Specifications

Specifications	OC2
Maximum Pressure	180 PSI (12.4 bar)
Port Size (inlet/outlet)	SAE 6/SAE 8
Dimensions	W8.03 x D8.11 x H12.64 in. (W204 x D206 x H321 mm)
Weight	15 lbs (6.8 kg)
Flow Rate	0.5 GPM (2 L/min.)

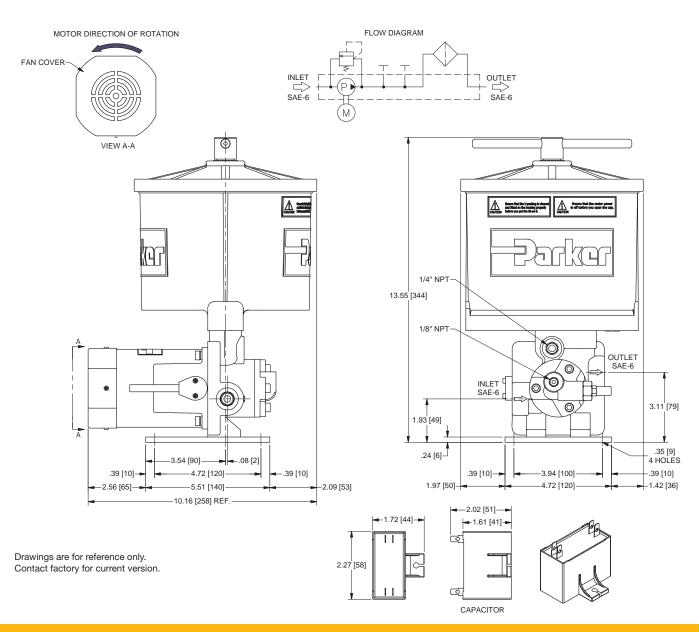


Drawings are for reference only. Contact factory for current version.

# **OC2 with Pump/Motor**

## Specifications

Specifications	OC2
Maximum Pressure	180 PSI (12.4 bar)
Port Size (inlet/outlet)	SAE 6/SAE 6
Dimensions	W8.03 x D8.11 x H12.64 in. (W204 x D206 x H321 mm)
Weight	15 lbs (6.8 kg)
Flow Rate	0.5 GPM (2 L/min.)
Voltage	120VAC or 220VAC



### Parts List

Replacement Parts List	
942673	Seal Service Kit (for OC1)
942683	Seal Service Kit (for OC2)











Replacement Elements OC1		
942650	2 micron (green)	
942652	10 micron (orange)	
OC2		
942654	2 micron filter (green)	
942656	10 micron filter (orange)	
942682	Water Removal	





### How to Order

Select the desired symbol (in the correct position) to construct a model code. Example:

BOX 1	BOX 2	BOX 3	BOX 4	BOX 5	BOX 6	BOX 7	BOX 8
OC2	120	10	V	Р	L	506	1

	Filter Series¹ Description
OC1	0.4 GPM (1.5 L/min.)
OC2	0.5 GPM (2.0 L/min.) <sup>1</sup>

BOX 4: Sea	als
Symbol	Description
V	Fluorocarbon (FKM)

BOX 7: Po	rts <sup>4</sup>
Symbol	Description
S06	SAE-6 Inlet/Outlet Ports
S08	SAE-6 Inlet Port/SAE-8
	Outlet Port <sup>4</sup>

BOX 2: Filter Model <sup>1,2</sup> Symbol Description	
120	120VAC/1Ph/60Hz Pump/Motor <sup>2</sup>
220	220VAC/1Ph/50/60Hz Pump/Motor <sup>2</sup>
Χ	No Pump/Motor <sup>1</sup>

BOX 5: Inc Symbol	licator Description
Р	Indicator Port Plugged
G	Pressure Gauge
S	Pressure Switch

BOX 8: Op Symbol	tions Description	
1	None	

BOX 3: Me Symbol	edia Code <sup>3</sup> Description
2	2 micron
10	10 micron
WR	Water Removal <sup>3</sup>

BOX 6: Bypass		
Symbol	Pressure Setting	
L	65 psid (4.5 bar) relief	

#### Notes:

- When selection from Box 1 is "OC2", and selection from Box 2 is "X", "S08" <u>must</u> be selected for Box 7.
- "120" and "220" are available only when "OC2" is selected in Box 1.
- 3. "WR" available for OC2 only.
- 4. "S08" is only used when "OC2" is selected in Box 1 and "X" is selected in Box 2

