

## 800 Series Blenders

These Racor 800 Series Blender units remove 99% of water and solid contamination that will clog your fuel system, but at the same time save you money by providing a steady supply of free diesel. How? These assemblies blend used engine oil at a 20:1 ratio (5%) with diesel fuel, they recycle and filter fuel while cleaning and removing particulates and other sediment accumulations. Fuel in your tanks may be filtered numerous times, depending on the severity of contamination.

### Below Ground Reservoirs:

Do not exceed 10 feet of lift or 10-12 inHg. of inlet piping restriction. Use the following formula to calculate restriction in inHg. (inches of mercury).

**Lift feet X 0.78 = Restriction in inHg.**

### Above Ground Reservoirs:

Up to 5 PSI of head pressure is acceptable for the 800D-20. Up to 10 PSI of head pressure is acceptable for the 800D-12. For head pressures greater than 10 PSI, but not more than 150 PSI, use the following formula to calculate head pressure.

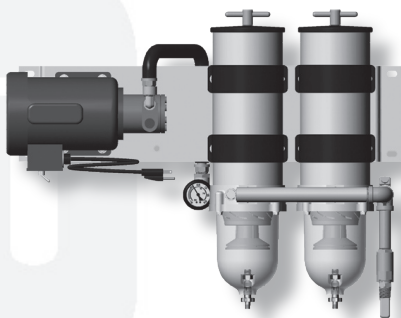
**Head feet X 0.38 = head pressure in PSI.**

### Environmental:

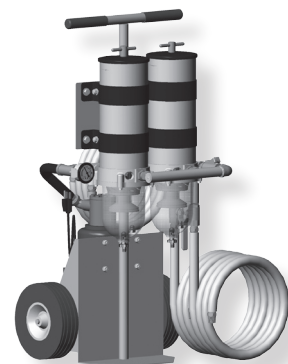
Every gallon of used engine oil now becomes a gallon of no-cost diesel fuel, and at the same time solves major environmental problems. "Did you know that 1 gallon of used engine oil can contaminate 1 million gallons of groundwater if dumped down a storm drain?" (EPA). You can recycle waste engine oil and turn it into usable fuel at little or no cost. These models will effectively blend oil-into-fuel automatically.

### Determine the fuel flow rate:

Selection should be made by considering the primary use for the unit. Recycling/filtering the fuel in storage tanks cleans the fuel while removing particulates and sediment accumulations. The fuel may be recycled numerous times, depending on the severity of contamination. Filter/recycling clock times can be reduced by selecting a larger capacity unit. Severely contaminated tanks may require more than one 'cycle' to clean them properly. For example, the 800D-OF3 filters up to 180 gallons per hour or 3 gallons per minute. It would take about 33 minutes to filter 100 gallons. To cycle the tank 3 times would take about 1.6 hours.



800D-OF3



800D-5D

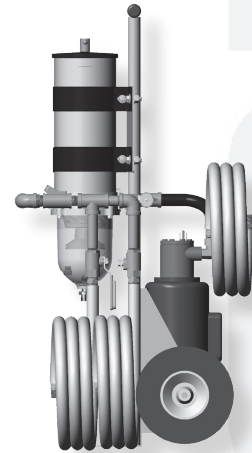
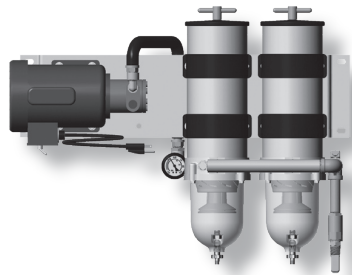
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# Mobile Fuel Filtration

## 800 Series Blenders



Specifications	800D-OF3	800D-5D
Application	Blender/Recycler	Blender Buggy
Motor Voltage	AC (100 volt 60Hz or 220 volt 50Hz)	110/220 Volt 60 Hz
Max. Flow Rate	180 GPH (681 LPH)	180 GPH (681 LPH)
Replacement Element (2 Elements)	2020TM-OR	2020TM-OR
Port Size	1/2" NPT	1/2" NPT
Height	46.0 in. (116.8 cm)	46.0 in. (116.8 cm)
Width	20.0 in. (50.8 cm)	20.0 in. (50.8 cm)
Depth	24.0 in. (61.0 cm)	24 in. (61 cm)
Weight (dry)	57.0 lb. (26 kg)	82 lbs (37 kg)
Clean Pressure Drop	1.2 PSI (8.5 kPa)	1.5 PSI (10.2 kPa)
Water Capacity	20.6 oz. (610 ml)	20.6 oz. (610 ml)
H <sub>2</sub> O Removal Efficiency	99%	99%
Operating Temperature	-10° to +180°F (-23° to +82°C)	

For vacuum or pressure side installations.

# Mobile Fuel Filtration

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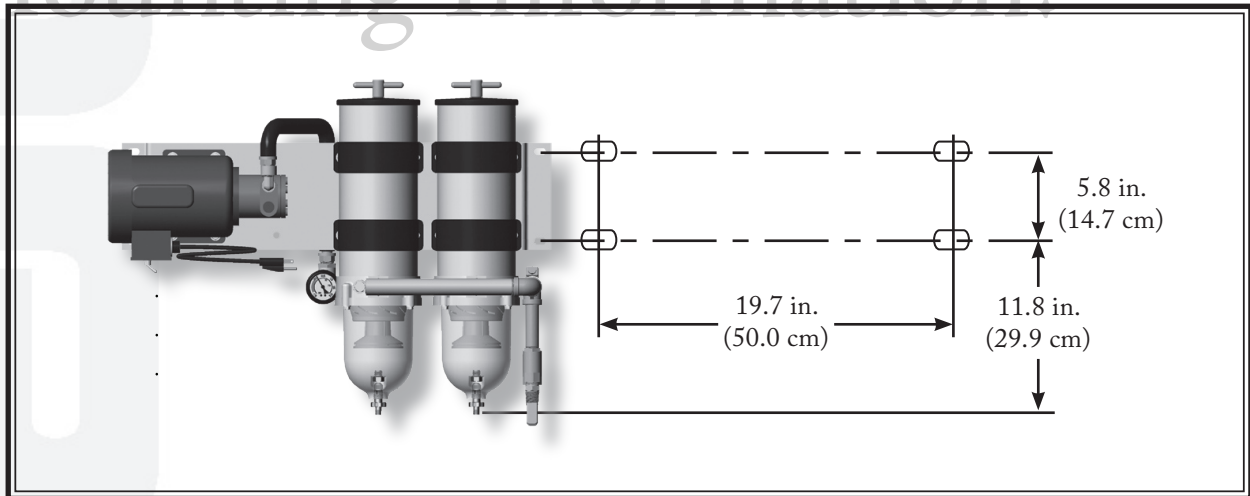
## 800 Series Blenders

### How to Order:

(The example below illustrates how the part numbers are constructed).

800D-OF3	D
Basic Model:	Specify: D = 100 volt AC 60Hz G = 220 volt AC 50Hz

### Mounting Information:



# Mobile Fuel Filtration

## 800 Series Blenders

# Replacement Parts

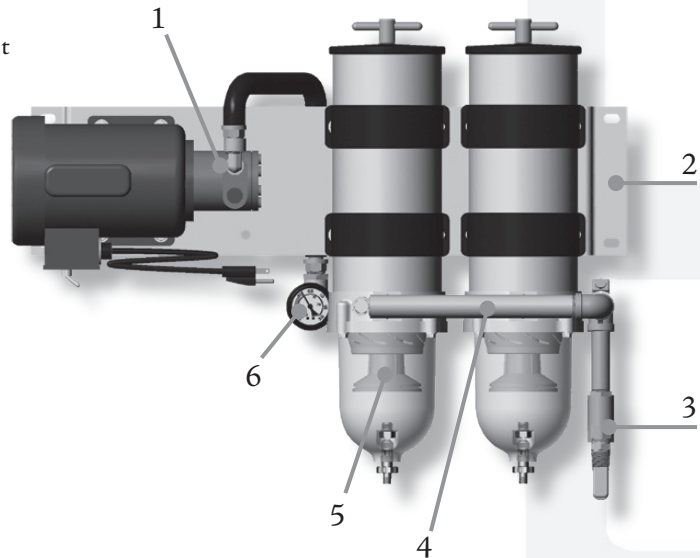
### 800D-OF3

<u>Part Number</u>	<u>Description</u>
1. RK11643	Pump Motor Coupling Kit
2. 18999	Main Mounting Bracket
3. RK18-1291	Mixer Valve Kit
4. RK11892	Double Manifold Kit
5. 1000FH10	Filter Assembly
6. RK18-1104	Compound Gauge Kit

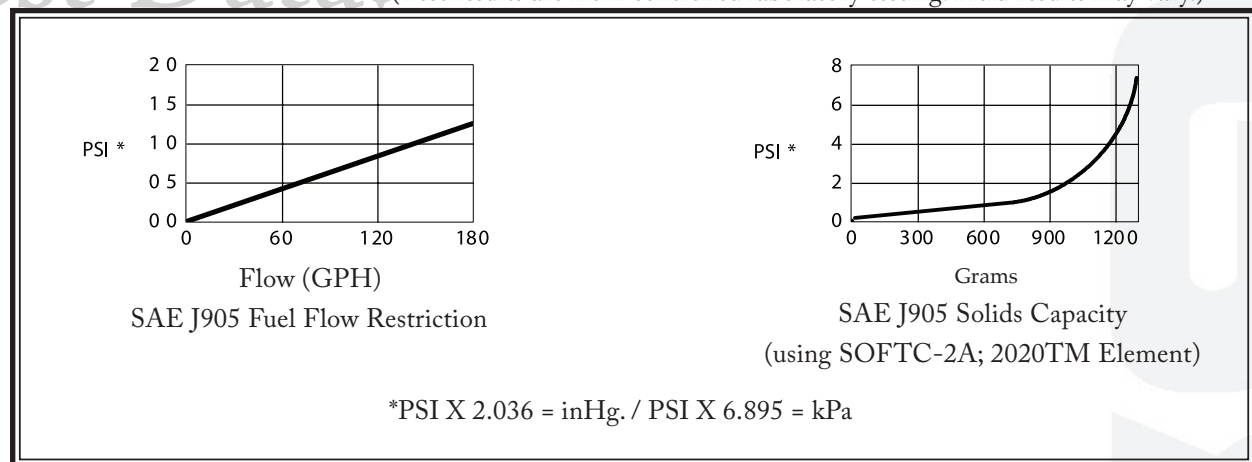
Additional Parts (not shown)

7245 Installation Instructions

\* See Turbine Series section for parts listing.



# Test Data: (Test results are from controlled laboratory testing. Field results may vary.)



## 800 Series Blenders

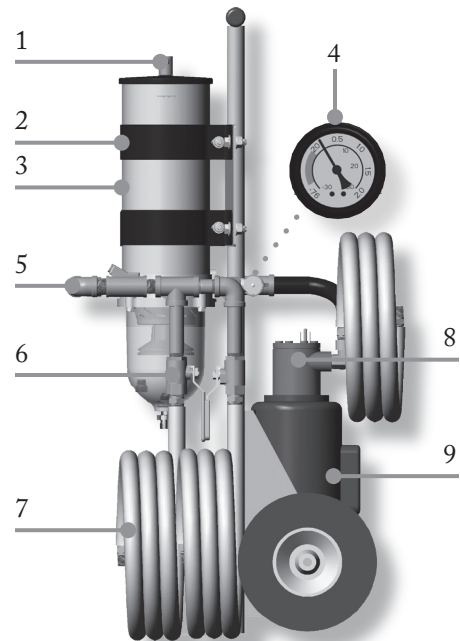
# Replacement Parts

### 800D-5D

Part Number	Description
1. <b>RK 11838</b>	Cap-Screw Carriage Kit 5/16" (18x3.2 in.)
2. <b>RK 11815-103</b>	Clamp Bracket Kit
3. <b>S1000FH</b>	Fuel Filter Shell (2)
<b>2020-10</b>	Replacement Element (2)
4. <b>RK 18-1104</b>	Compound Gauge Kit
5. <b>RK 11892</b>	Double Manifold Pipe Kit 3/4" NPT
6. <b>RK 18-1291</b>	Mixer Valve Kit
7. <b>RS6022</b>	STK Hose
8. <b>18-2328</b>	Motor/Pump Coupling Kit
9. <b>RK 18043</b>	110/220 Volt 60 Hz Motor Kit

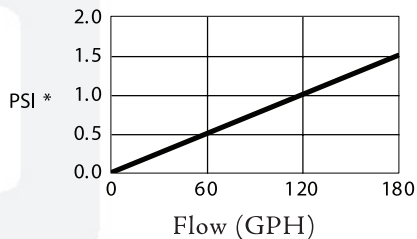
Additional Parts (not shown)

**7244** Installation Instructions

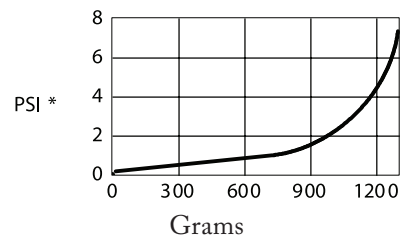


# Test Data:

(Test results are from controlled laboratory testing. Field results may vary.)



SAE J905 Fuel Flow Restriction



SAE J905 Solids Capacity  
(using SOFTC-2A; 2020TM Element)

\*PSI X 2.036 = inHg. / PSI X 6.895 = kPa

