

# Transportation Filtration

GreenMAX™ Fuel Filter Water Separator  
4400R10 for Transit Bus

## Market Application Publication



### The Challenge

The warranty manager of the Transit company was experiencing plugged filters.

### Why Racor was Chosen as the Solution

The GreenMAX meets the engine requirements, fits current package space held by competitor and was easily installed. It is 4 lbs lighter than the competitor's product. Additional features offered included, a hand primer pump which allowed to prime the fuel system quickly. The manager also saw huge value in GreenMAX because of the ability to see water in the fuel.



### Contact Information

Parker Hannifin Corporation  
**Racor Division**  
P.O. Box 3208  
3400 Finch Road  
Modesto, CA 95353

phone 800 344 3286  
209 521 7860  
fax 209 529 3278  
racor@parker.com

[www.parker.com/racor](http://www.parker.com/racor)

### Racor's Solution

Racor's solution was the GreenMAX fuel filter water separator with primer pump. The GreenMAX series fuel filter / water separators remove water and dirt to protect and extend the life of final high efficiency fuel filters. Engines will also benefit from the best water separation and contaminant removal with Racor's proprietary Aquabloc® media.

### Product Features

- Dual inlet / outlet ports
- Large clear bowl for instant visual fuel quality checks
- Aquabloc media cartridges
- Hand priming pump
- 4 lbs lighter than other fuel filter water separator modules



ENGINEERING YOUR SUCCESS.

## How the Solution Works

Diesel flows into the GreenMAX inlet ports from the fuel tank and passes through the Aquabloc cartridge element. Contaminants and free water are separated from the diesel fuel.

Clean dry diesel is then delivered to the engine. Know when to service the GreenMAX by installing an optional WIF sensor and restriction indicator.

The GreenMAX can easily be primed after service with the hand primer pump.



## GreenMAX Specifications

GreenMAX™ Fuel Filter/Water Separator	
Rated Flow Rate	150 GPH (568 LPH)
No. of Ports	Inlet Ports: 2, Outlet Ports: 2
Port Size	-10 SAE (7/8-14 UNF)
Hand Primer Pump	Optional
Micron Rating Available	2, 10, 30
Particulate Removal Efficiency (SAE J1985)	Min 98% (R61691T)
Water Removal Efficiency (SAE J1839)	Min 99% (R61691T)
Return Fuel Heat Valve (Thermostatically Controlled)	Optional: -8 SAE 45° Flare (3/4-16)
Electrical Heater 12 or 24 vdc	Optional (300W/200W)
Water Sensor	Optional (1/2-20 SAE port)
Vacuum (Maximum)	20" Hg
Ambient Temperature Range	-30° to +100° C
Maximum Fuel Temperature	85° C
Fuel Compatibility	Diesel fuel per ASTM D975 and Biodiesel blends up to B20 per ASTM D7467
Fuel Filter Change Indicator	Vacuum Gauge/Filter Minder/Vacuum Switch

## GreenMAX Part Numbers

FIRST FIT	DESCRIPTION
4400R02	GreenMAX FF/WS, W/Hand Primer Pump, 2 Micron
4400R10	GreenMAX FF/WS, W/Hand Primer Pump, 10 Micron
4400R30	GreenMAX FF/WS, W/Hand Primer Pump, 30 Micron
4400R1202	GreenMAX FF/WS, 12VDC in bowl heater, W/Hand Primer Pump, 2 Micron
4400R1210	GreenMAX FF/WS, 12VDC in bowl heater, W/Hand Primer Pump, 10 Micron
4400R1230	GreenMAX FF/WS, 12VDC in bowl heater, W/Hand Primer Pump, 30 Micron
4400R2402	GreenMAX FF/WS, 24VDC in bowl heater, W/Hand Primer Pump, 2 Micron
4400R2410	GreenMAX FF/WS, 24VDC in bowl heater, W/Hand Primer Pump, 10 Micron
4400R2430	GreenMAX FF/WS, 24VDC in bowl heater, W/Hand Primer Pump, 30 Micron
4400R1210-01	GreenMAX FF/WS, W/Hand Primer Pump, 12VDC Bowl Heater, 10 Micron, Return Fuel Heat
4400R2410-01	GreenMAX FF/WS, W/Hand Primer Pump, 24VDC Bowl Heater, 10 Micron, Return Fuel Heat
6600R02	GreenMAX FF/WS, 2 Micron
6600R10	GreenMAX FF/WS, 10 Micron
6600R30	GreenMAX FF/WS, 30 Micron
6600R1202	GreenMAX FF/WS, 12VDC in bowl heater, 2 Micron
6600R1210	GreenMAX FF/WS, 12VDC in bowl heater, 10 Micron
6600R1230	GreenMAX FF/WS, 12VDC in bowl heater, 30 Micron
6600R2402	GreenMAX FF/WS, 24VDC in bowl heater, 2 Micron
6600R2410	GreenMAX FF/WS, 24VDC in bowl heater, 10 Micron
6600R2430	GreenMAX FF/WS, 24VDC in bowl heater, 30 Micron
6600R1210-01	GreenMAX FF/WS, 12VDC Bowl Heater, 10 Micron, Return Fuel Heat
6600R2410-01	GreenMAX FF/WS, 24VDC Bowl Heater, 10 Micron, Return Fuel Heat
SERVICE	DESCRIPTION
R61691S	Element Assembly, GreenMAX 2 Micron
R61691T	Element Assembly, GreenMAX 10 Micron
R61691P	Element Assembly, GreenMAX 30 Micron
RK6166301	Clear Bowl Kit, No Heater
RK6166312	Clear Bowl Kit, 12VDC Heater
RK6166324	Clear Bowl Kit, 24VDC Heater
RK6165804	Engine Return Fuel Heat Kit
RK61713	Fuel Port Plug Replacement Kit
PFRK61730	Bowl Wrench
RK 30876	Heater Connector Kit
RK2012601	WIF Plug Kit
RK22100	Fill Port Plug Kit (6600 Only)