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## THE FUEL PURIFIER 800

### PRODUCT NUMBER:

TFP 800

### PRODUCT DESCRIPTION:

The patented fuel purifier is a one-step unit that removes up to 99.8% of free water and up to 95% of other heavy contaminants that are found in diesel fuel. Even today’s “clean” diesel fuel will easily become contaminated during transportation and storage. Unlike many other products on the market, the fuel purifier performs this function without the use of a replaceable, changeable, or cleanable filter element or cartridge. By removing contamination immediately before the fuel enters the engine’s filter system, you can keep your fuel clean, preserve fuel quality, and extend the life of your equipment.

The TFP 800 is designed for stationary pumps and marine equipment.

### PRODUCT FEATURES:

<b>Product</b>	The Fuel Purifier
<b>Model</b>	TFP 800
<b>Nominal Flow</b>	15 GPM (56.8 L/min)
<b>In &amp; Out Couplings</b>	1" NPT
<b>Top Port</b>	1/2" NPT
<b>Sensor Port</b>	1/2" – 20 Straight Thread
<b>Heater Port</b>	1/2" NPT
<b>Drain Port</b>	1/2" NPT
<b>Drain Valve</b>	1/2" M-F brass valve
<b>Height</b>	16" (406.4 mm)
<b>Width</b>	4 ½" (114.3 mm)
<b>Gross Weight</b>	11 lbs. (incl. mfg. hardware)
<b>Sump Capacity</b>	40 oz.
<b>Finish</b>	Polyester Black Powder Coat – 35 to 40 gloss
<b>Options</b>	Water Sensor Kit Heater Element





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## How Our Technology Works

The fuel purifier utilizes a three-stage purification process using two well-known fuel separation principles, centrifugal force and coalescence. By using these two principles, water and other heavy contaminants are separated from the fuel. This eliminates fuel filter clogging, related breakdowns, downtime, and frequent filter replacements. As the fuel enters the purifier, it flows downward in a circular movement through an internal baffle system, entering the lower chamber of the purifier.

### **Stage 1**

The velocity of the fuel slows down considerably, allowing any free water droplets and other contaminants to maintain their mass and not emulsify with the fuel. These impurities accumulate and remain at the bottom of the purifier until purged.

### **Stage 2**

The fuel migrates through three perforated baffle plates to stop any particulates and attract, by way of coalescence, any water droplets remaining.

### **Stage 3**

The fuel passes through our coalescence medium to ensure that any small water droplets or particulates will be coalesced out of the fuel stream. Only the clean fuel rises to the top, providing a cleaner-burning fuel for quicker ignition and better combustion. Keeping fuel clean helps to increase the engine's dependability, power, and efficiency. On the TFP 50, TFP 80, TFP 400 and TFP 700, a heating element is optional to preheat the fuel. This process helps liquefy the paraffin, providing better lubrication for the entire fuel system including the pump and injectors. This heating element eliminates any wax or gelling problems. The fuel purifier is simple to install and serves as a durable component to your fuel system. Skimoil also offers an optional water sensor kit, with an alarm signal, indicating purging is required.