

# Mobile Multi-Media Filtration Trailer

## Pretreatment for RO System

### Description and Use



GE's Multimedia Filtration (MMF) Trailer can be used to feed a Reverse Osmosis (RO) unit where the raw water has high turbidity or is of such quality that could foul an RO. The units are designed to produce water at flow rates up to 800 GPM (204 m<sup>3</sup>/hr.). The unit can remove significant turbidity with appropriate use of a coagulant.

### General Properties

#### Features

- Up to 800 GPM (204 m<sup>3</sup>/hr) flow rate from five media vessels
- Able to combine with other GE Mobile units to enhance system capability

Table1: Trailer Specifications

<b>Dimensions</b>	
Trailer Length	48 ft (14.6 m)
Trailer Height	13 ft, 6 in. (4.1 m)
Trailer Width	8 ft, 6 in. (2.6 m)
Shipping Wt.	@ 60,000 lb (27,215kg)
<b>Systems on Board</b>	
Up to 800 gpm (204 m <sup>3</sup> /hr)	
Five 60" (1.5m) diameter multimedia vessels (anthracite, sand, garnet)	
100 micron screen filter	
Three chemical injects with in-line static mixer	
<b>Pretreatment for RO System</b>	
Max. Water Temp.	100° F (38° C)
Min. Water Temp.	40° F (4.4° C)
Nom. Water Temp.	40°-75°F (4.4°-24°C)
Max. Inlet Pressure	80 psig (5.5 bar)
Min. Inlet Pressure	40 psig (2.8 bar)
TSS (maximum)	<50
<b>Connections (PVC)</b>	
Connection Type	Victaulic/150# ANSI flange adaptor
Inlet/outlet	6-in. (152 mm)
Drain	3-in. (76 mm)
<b>Electrical</b>	
Power	One drop of 80 amp 3-phase power (460 VAC), 60 Hz
Breaker Size	100Amp 3-phase (min.)
Installed KVA	63 KVA
<b>Instrumentation</b>	
PLC	GE Fanuc PLC
Customer tie-in	Discrete signal from RO unit for automatic shut down.



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**Table1: Trailer Specifications (continued)**

<b>Parameters</b>	<b>Inlet (raw water)</b>	<b>Outlet (filtrate)</b>
Pressure	X	X
Flow	X	
Turbidity	X	X
<b>HVAC</b>		
The MMF unit is climate controlled with an electric HVAC unit.		
<b>Chemicals</b>		
All chemicals (coagulants, etc.) to operate the unit will be provided by GE.		

## **Safety Precautions**

A Material Safety Data Sheet containing detailed information about this product is available on request.