

Mobile Combination Trailer

Prefiltration and Reverse Osmosis for Low Flow Applications

Description and Use

The GE Combination mobile unit provides prefiltration (activated carbon) and reverse osmosis (RO) all in one container. The units are designed to produce water at flow rates up to 260 GPM (60m³/hr) in single pass mode and up to 150 GPM (34 m³/hr) in double pass mode. Optional features include a plug in silica analyzer and inlet pressure control valve.



Standard Features

- Two filtration vessels including activated carbon media for free chlorine removal
- Three injection ports for chemical addition
- 1-micron cartridge filtration for superior protection of reverse osmosis elements
- RO configurable process flow to meet various water demands; two pass or two train operability in a single system
- Able to combine with other GE Mobile units to enhance system capability

Table 1. Operating Parameters

Single Pass Product Flow	260 gpm (60 m ³ /hr)
Two Pass Product Flow	150 gpm (34 m ³ /hr)
Recovery	60-75%
Design temp.	50°F (10°C)
Operating temp. range	50-85 °F (10-30°C)
Operating pH range	4-9
Minimum inlet pressure	60 PSIG (4 bar)
Nominal rejection	95-99%

Table 2. Raw feed water quality requirements

Total dissolved solids	5,000mg/l
Chlorine (continuous feed)	0mg/l
Iron	<0.1mg/l
LSI	=+1.0
Turbidity	=1.0
Silt density index (SDI) ₁₅	<5

Table 2. Connections and Dimensions

Power	480, 60Hz/400, 50Hz, 3-phase
Connection Type	PVC, 150# ANSI Flange
Inlet	4-inch (10 cm)
Permeate	4-inch (10 cm)
Concentrate	2-inch (5 cm)
CIP Inlet	4-inch (10 cm)
Permeate CIP Outlet	3-inch (7.6 cm)
Conc. CIP Outlet	2-inch (5 cm)
Container Length	40 ft (12.2 m)
Container Height	9.5 ft (2.9 m)
Container Width	8 ft (2.4 m)
Dry (Shipping) weight	20,713Kg (45,664LBS)
Operating weight	26,932Kg (59,374LBS)



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