

Reverse Osmosis Systems Pilot/Rental Unit

System Number R209

WesTech reverse osmosis membranes provide reliable, high-quality solutions for potable and process water treatment that is targeted to your needs. Our pilot plant is used to demonstrate performance, test specific criteria, and verify design parameters for full-scale systems. Additionally, the system can be rented for temporary use.



Pilot Specifications

Flow range	< 20 gpm feed, application dependent
Anticipated recovery	50 to 75%
Array	2:2:1:1 3M (represents 2:1 6M)
Element size	4" diameter, 40" long
Panel power supply	480V/60Hz/3ph
Operational control	Automatic with optional semi-automatic CIP
Shipping weight	1,500 lbs
RO skid dimensions	11'-10" L x 2'-5 1/4" W x 6'-4 5/8" H
CIP tank dimensions	1'-11" L x 1'-11" W x 3'-6" H

Features / Components

High pressure pump	3 HP
Transfer / flush pump	1 HP

Connection Sizes

Feed/flush	2" female camlock
Permeate	1" male camlock
Concentrate	3/4" hose barb
CIP feed	1.5" male camlock
CIP concentrate return	3/4" male camlock
CIP permeate return	1" male camlock
Air supply	1/4" FNTF
CIP drain	1" camlock

The R209 Pilot Plant Includes:

- Feed and permeate supply tanks
- 5- μ m pre-strainer
- Membrane elements
- Chemical injection pumps (2)
- Instrumentation:
 - Flowsensors - Stage 1 permeate, total permeate, recycle, concentrate
 - Conductivity meter - feed, permeate, concentrate
 - Feed ORP transmitter
 - Feed pH transmitter
 - Feed temperature transmitter
 - Pressure gauges and transmitters
- Air compressor
- Remote monitoring/data acquisition
- Optional CIP components:
 - CIP pump
 - 65 gallon tank
 - 5 kW heater

Contact WesTech today to learn more about our capabilities or to implement a pilot test at your facility. Our responsive engineering team will help facilitate scheduling and pilot setup of the reverse osmosis membrane system.