The Culligan® H3
REVERSE OSMOSIS SYSTEM

Effective water treatment that is easy to manage.

Culligan® makes it simple to manage your water for drinking and industrial processes. The H-3 Reverse Osmosis system is designed to help meet your most demanding and exacting consumption needs. The reverse osmosis system has an easy-to-reach electronic controller that automates the quantity and quality of water based on your specific requirements. Low-pressure membrane technology can remove over 99% of contaminants such as dissolved minerals, bacteria, and other impurities; producing water suitable for high-purity applications like boiler feed and ingredient water for food and beverage production.

All units are assembled and tested in Culligan's Commercial & Industrial facility in Libertyville, Illinois and shipped skid-mounted for simple installation and easy start-up.

The H-3 RO is part of the Culligan® Commercial and Industrial Solutions that combine durable and efficient equipment, systems experience, and technical experts who understand your unique requirements. From planning your system to installing your water treatment equipment, Culligan® Commercial and Industrial Solutions offer options that help deliver the quality of water to meet your needs. Consult with a Culligan® representative to create your solution.

Markets Served:

Agriculture
Assisted Living
Automotive
Bio-Pharmaceutical
Botanicals
Bottled Water Plants
Casinos
Chemical Processing
Commercial Buildings
Dairies
Educational Facilities
Energy / Power / Cogeneration
Electronics
Government
Grocery
Food / Beverage
Health Clubs
Hotels / Lodging
Hospitals / Healthcare
Ink / Dye Production
Laboratories
Laundry
Manufacturing
Marine
Military
Multi-Unit Housing
Municipalities
Plating / Coating
Printing
Pulp / Paper
Oil / Petroleum / Gas
Textile
Theme Parks
Universities
Vehicle Wash

CULLIGAN® COMMERCIAL & INDUSTRIAL SOLUTIONS ADVANTAGES:

- Simple System Integration
- Global Product Platform
- Quick Delivery / Easy Installation
- Exclusive Culligan Advanced Electronics
  - Historical Operating Data
  - Alarm Recognitions
  - US Standard and Metric Readings
  - Remote Monitoring Options
  - Telemetry Options

SYSTEM SPECIFICATIONS

Specification	US
Inlet Pressure (dynamic)	20-50 psig
Max. Operating Pressure	100–140 psig
Power Voltage Frequency Phase	 460 60 Hz 3
Feed Water Temperature	33–100° F
Turbidity, max.	< 1 NTU
pH Range	3 – 11
Chlorine, max.: 0 mg/l	0 mg/l
Total Dissolved Solids, max.	2500 mg/l
Silt Density Index Well Water Surface Water	 < 3 < 5
Iron, max.	< 0.1 mg/l
Salt Rejection, nominal	> 98 %
Product Water Hardness	< 1% Raw Hardness

Examples of RO Applications

- Ice Production / Drinking Water (Reduces scaling, improves taste and clarity)
- Steam Production (Reduces scaling and maintenance)
- Humidification (Reduces scaling and dusting)
- Misting (Reduces scaling, improves taste and clarity)
- Pretreatment for High Purity Systems (Reduces regeneration requirements)
- Reclaim / Recycling (Water conservation)
- Boiler and Cooling Towers (Improves energy, reduces chemical consumption)
- Washing and Rinsing (Improves performance, spot-free rinses)
- Brackish Water Potabilization

Standard Features

- Painted Steel Frame Design
- Energy Efficient Multi-stage Stainless Steel Pump
- FRP Membrane Housings
- Inlet Solenoid Valve
- Pretreatment Sediment Filter
- Concentrate and Recirculation Throttling Valves
- Pressure Gauge
- Electronic Turbine Style Flow Meters
- Stainless Steel Pump throttling Valve
- Electronic Pressure Transducers
- Stainless Steel 316L Concentrate and Recirculation Valves
- CIP Connections
- Forklift Accessible
- Culligan® Electronic Control Panel
- Telemetric Capability
- Comprehensive System Monitoring
- Lighted Alphanumeric Display
- TDS monitoring of Water Quality and Rejection
- Low Pressure Switch & Auto Restart
- Connection of Pretreatment Signal Switch and Level Control
- Elapsed Run Time Monitor
- Visual Alarms
- Remote Alarm Output Connection
- System Flow Rate Monitoring

Optional Features & Accessories

- Multi-Stage Pretreatment Filters
- Stainless Steel Frame Design
- Polypropylene, PVDF or SS Plumbing
- Wireless Remote Digital Display
- Leak Sensor
- RS232, RS485 Output
- Storage Tanks
- Level Controls
- Distribution Pump Skids
- Post Treatment Polishing Skids
- Chemical Feed Pumps
- Ultraviolet Sterilization
- Pressurized Storage System
- Global Power Platforms
- Additional Customization Available on Request

H3 Reverse Osmosis System - High Efficiency

Model	Nominal Capacity* (gpm)	Peak Capacity* (gpm)	Module Qty & Size	Approx. System Recovery (%)	Motor (HP)	Electric Power Required (VAC)	Dimension L x W x H (in)
H-3	15	17.5	(3), 8"x 40"	75	5	460V/3/60 Hz	75 x 32 x 55

*__CAUTION__: It is highly recommended that you have a projection run by the Applications Engineering group before quoting. Actual permeate capacity determined by water source conditions and pretreatment. TDS, SDI, Hardness, Pressure and Temperature will affect permeate capacity ratings. Not all water sources and conditions will be able to achieve peak capacity. Units are capable of lower minimum flowrates.

Culligan®

www.culligan.com • 866-787-4293

For over 85 years, Culligan® has made better water. Our global network, comprised of 800+ dealers and international licensees in over 90 countries, is dedicated to addressing your water-related problems. As a worldwide leader in water treatment, our sales representatives and service technicians are familiar with the local water conditions in your area. Being global and local position us to deliver customized solutions to commercial and industrial water issues that affect your business and your bottom line.

Part No. 34989