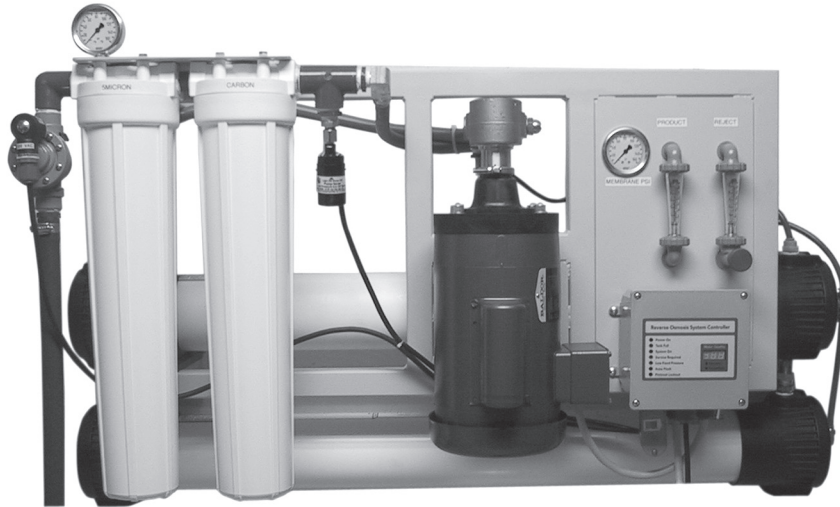




PRECISION ABRASIVE WATERJET SYSTEMS



OMAX® Reverse Osmosis System

Why would your facility consider using a reverse osmosis system?

Water quality varies depending on location. In some areas, total dissolved solids can be sustained at or below 250 ppm, eliminating pre-treatment measures for effective waterjet operation. However, in areas where the total dissolved solids (TDS) rise in excess of 250 ppm, an OMAX Pressure Reverse Osmosis System can be just the assurance you need to provide clean, pure water to your equipment.

RO

Accessory Specifications

RO

What is Reverse Osmosis?

To understand reverse osmosis, you must first understand osmosis. During natural osmosis, water flows from a less concentrated solution through a semipermeable membrane to a more concentrated saline solution until concentrations on both sides of the membrane are equal.

Reverse Osmosis

Reverse osmosis requires external pressure to reverse natural osmotic flow. As pressure is applied to the saline solution, water flows from a more concentrated saline solution through the semipermeable membrane.

Reverse Osmosis Membrane

A reverse osmosis membrane has a thin microporous surface that rejects impurities, but allows water to pass through. The membrane rejects 85%-95% of inorganic solids. Reverse osmosis is a percent rejection technology. The purity of the product water depends on the purity of the inlet water. The purity of reverse osmosis product water is much higher than the purity of the feedwater.

Reject Water

A large percentage (50%-75%) of the feedwater does not pass through the membrane but flows across the membrane surface, constantly cleaning it and carrying the inorganic and organic solids to drain. This water is called "reject."

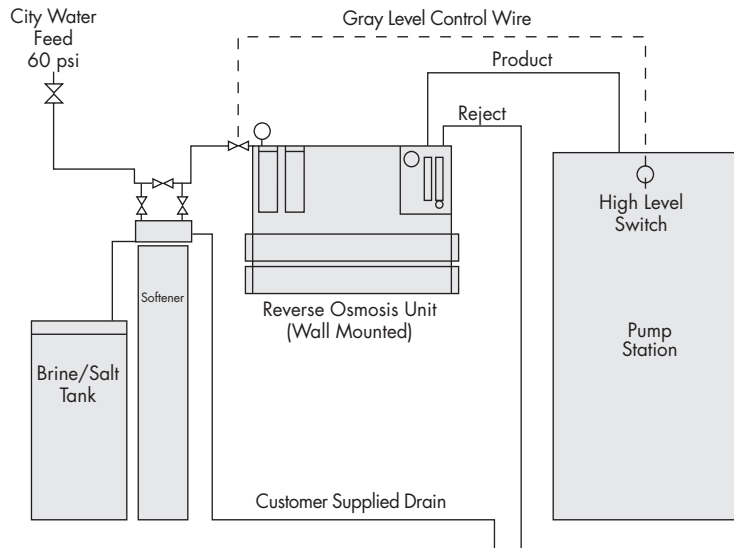
When to consider a water softener?

In some locations you will find the hardness (calcium and magnesium) in your water to be high but the TDS to be below 250. In situations like this a water softener is recommended. You will gain many of the same benefits that a reverse osmosis system would give you but at a lower cost.

The OMAX Technology Guarantee entitles you, as the original owner, to free OMAX software upgrades for the life of the machine.



OMAX Pressure Reverse Osmosis System



Benefits

- A reverse osmosis system removes 90% to 95% of the total dissolved solids in your water. Dissolved particles are the primary source of damage to OMAX waterjet equipment.
- A reverse osmosis system protects your waterjet equipment so you don't have to replace your expendables nearly as often.
- Virtually hands-free operation.
- Pure water can be used for other equipment in shop (EDM, etc.).
- More hours of running time between maintenance.
- Inexpensive filter changes on reverse osmosis once per month.
- Most cities only charge \$2.50 per 1000 gallons making the cost for water minimal.

Power Requirements

110V, 60 Cycle, 10AMP

Quality Monitor

Digital Total Dissolved Solids Meter

Pre-Treatment

5 Micron Filter	20"
Carbon Block Filter	20"

Membranes

Membranes (2)	4" x 40"
Max. Operating Pressure	125 psi
Feed Temperature	95° F
Recommended pH	6 to 12
Free Chlorine Tolerance	<0.1 ppm
Average Rejection	96%
Gallons per Day	2500 at 77 psi

Membrane Vessels

Number of Vessels	2
Vessel Rating	240 psi
Vessel Construction	PVC
Max. Temperature	130° F

Frame

Construction	Powder-coated steel
Dimensions	18"H x 38"W x 6"D
Mounting	Wall

Water Softener

Type	Time clock initiated
Grains Removed	45,000
Flow Rate	10 gpm
Resin	1.5 cubic feet total
Pipe Size	3/4"
Resin Tank Dimensions	10" x 54"
Brine Tank Dimensions	18" x 30"

Note: Specifications subject to change without notice.

About OMAX

OMAX has the industry leading patented abrasivejet controller with a built-in expert system. The OMAX Software makes it easy to machine precision parts as fast as possible at the lowest cost.

JetMachining is ideal for short-run part production, just-in-time manufacturing, tooling, and prototype part development. It requires no tool changes or complex fixturing, so you can reduce setup times by at least 50%.

For more information on what other OMAX products and accessories can do for you, call us today at 800-838-0343 or visit our website at www.omax.com.



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