BYPASS PROCEDURES

1. Shut off the RO unit
2. Shut off the recirculation pump
3. Close BPV 2, BPV 3
4. Open BPV 1

Booster pump 3/4 hp
120 VAC 20 amp 24 VAC contactor
Controlled by RO unit
(Thermal overload disconnect by others)

Reverse Osmosis
Unit 23G 5hp 208/60/3
Three phase
Dedicated 208
Control voltage

Our Promise to You
The success of Total Water Treatment Systems, as well as the success of our customers, has been based upon the principle of providing reliable service. Applications range from basic water softening to custom designed ultrapure water treatment systems.

Total Water knows that the product we provide is only as good as the quality of service after the sale. Our state of the art regeneration facility provides you with the highest quality water attainable. Our unique process provides a computer record and complete traceability of all regenerated resins.

Our corporate office is located in Madison, WI with satellite offices in Milwaukee, WI, and Manchester, IA.

We welcome the opportunity to meet your toughest demands while continuing to provide outstanding customer service.

Total Water Treatment Employees

We provide service to many manufacturers, hospitals, and laboratories throughout the Midwest. References are available upon request.
About Total Water Treatment Systems

Total Water Treatment Systems Inc. was founded in 1943 as an authorized dealer of Culligan water treatment equipment. Total Water Treatment Systems specializes in high-purity water applications. These applications are quite varied and can range from highly purified water for invitro fertilization, biotech, dialysis and microchip applications to specialized water for boiler feed and parts rinsing. With over 150 years of combined company experience we are ideally suited to lead the way in the filtration, water, and disinfection technology marketplace.

On September 1, 2003, 100% of the company's stock was sold to an ESOP (Employee Stock Ownership Plan). We are members of the Water Quality Association of Wisconsin, the National Center for Employee Ownership, and the Greater Madison Area Chamber of Commerce.

Health Care Applications—Dialysis

What is Hemodialysis? During hemodialysis, the blood from the dialysis patient flows through one compartment of an artificial kidney (dialyser), while an isotonic salt solution (dialysate) flows in a countercurrent manner through another compartment. A thin semi-permeable membrane separates the two compartments, allowing metabolic waste products in the patient's blood to diffuse across the membrane into the dialysate and to be discarded with the dialysate to drain.

Why do we need purified water for dialysis? Because only a thin semi-permeable membrane separates the patient’s blood and dialysate, the quality of dialysis water and the dialysate is very important. Water is one of the critical components necessary in dialysis treatment.

Laboratory Systems

Over the years, Total Water Treatment Systems has installed hundreds of purified water systems. We supply central distribution systems as well as point of use polishing equipment.

Our central systems supply water for many different production processes and lab uses. Our systems incorporate such technologies as reverse osmosis, deionization, ultrafiltration, ultraviolet systems and absolute cartridge filtration.

Areas of Expertise

Industrial Water Applications

Total Water Treatment Systems is a leading provider of water treatment systems and services. For more than 65 years we have been providing high-purity water solutions to the industrial marketplace. We help companies maintain profits by meeting water production requirements and by controlling capital and operating expenses. From the incoming water to the final product, Total Water Treatment Systems can handle today’s process challenges by using proven technology that saves time and reduces costs. Our team of experts will evaluate your unique requirements and provide a customized solution that meets your needs.

Whether you are the end user or an engineering firm, we will help develop the specifications and select the appropriate equipment for your application. Total Water Treatment will help you develop innovative solutions to meet all your needs.

Our Commitment

Total Water Treatment Systems is an employee owned company that consistently delivers innovative solutions to customers in various settings. Total Water has grown to become a leading supplier of high purity water to dialysis clinics, biotech companies, laboratories, manufacturing and food processing plants in the Upper Midwest.

The focus of Total Water Treatment Systems is providing reliable customer service and applications that are unsurpassed in the industry. As a regional Midwest company, we are committed to serving the needs of our customers in Wisconsin, Illinois, Iowa, and Minnesota.

Our customers include individuals and organizations needing highly purified water treatment systems in residential, commercial, laboratory, medical and industrial environments. Our goal is constant improvement of our services and products. This requires measurement of our customer service performance and regular feedback to all members of the Total Water Treatment Systems’ team.