

ITEM

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1000046 - Commercial Reverse Osmosis (RO) Water Purification System with Pre-Filtration



Quantity - 1

Sale price - \$

More photos here:

<https://drive.google.com/drive/u/4/folders/1h62krmf1BZ0yan2j1hA9kq-bwCme8USW>

Description:

This is an industrial/commercial-grade water purification and softening system, likely designed for Reverse Osmosis (RO) treatment, commonly used in industries like food and beverage production, pharmaceuticals, manufacturing, and large-scale commercial applications. The system features pre-filtration, pressure monitoring, and flow regulation.

System Components

1. Black Tanks with Valve Head

- ☐ **Brand** : Pentair
- ☐ **Control Valve Model** 9100 SXT
 - **Voltage**: 24V AC, 10W
 - Dual tank alternating softener or filter system controller.
- ☐ These are most likely **softener tanks or multimedia filters**.
- ☐ **Serial Number**: 8040337-062920-0005

2. **Metal Housing Cylinders (Stainless Steel):**
 - Likely **RO membrane housings** or **ultrafiltration cartridges**.
 - Visible warning stickers indicate pressurized operation – consistent with high-pressure filtration stages.
 3. **Blue Filter Housing (Bottom Left):**
 - Likely a **pre-filter** (sediment or carbon).
 4. **Pump and Motor Assembly:**
 - **Pump Model:** ULTRA-5200-B
 - **Serial Number:** 66273
 - **Voltage:** 120V / 60Hz / 1 Phase / 15A
 - Manufacturer: **Good Water Warehouse Inc.**, Calgary, Alberta
 - Mfg Date: July 30, 2020
 5. **Electric Motor (Centrifugal Pump Driver):**
 - **Brand:** Century®
 - **Model:** C48D48Z01
 - **Power:** 1.5 HP (implied by 14.8/7.4 amps at 115/230V)
 - **RPM:** 3450
 - **Rotation:** CCWPE (Counterclockwise facing pump end)
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Main Components:

1. Pre-Filter (Blue Housing):
 - Likely contains a sediment or carbon filter to remove particulates, chlorine, or other impurities before RO treatment.
 - Industrial 20" housing for high flow applications.
2. Stainless Steel Pressure Vessels (Right side, vertical):
 - Typically used to house RO membranes.
 - Ensures high-pressure tolerance for efficient RO filtration.
3. RO System Controller:
 - Controls operation, shutdown, flushing, and alarms.
 - Includes LED indicators for operational status.
4. Three Flow Meters:
 - Concentrate, Permeate, and Recycle/Compensate flow.
 - Allows real-time monitoring of water flows in and out of the system.
5. Three Pressure Gauges:
 - Labeled as Filter In, Filter Out, and Pump Pressure.
 - Monitor pressure differential to determine filter/membrane performance.
6. Tubing & Connectors:
 - Industrial-grade hoses and fittings for in/out water flow.

- Safety features for high-pressure operation.
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Typical Uses:

- Bottled water or beverage production
 - Food processing
 - Pharmaceutical-grade water preparation
 - Commercial laundries
 - Laboratories or cleanrooms
 - Hotels, hospitals, or resorts with high water demand
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