

## 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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