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## Reject Capture Systems

RCS-20, RCS-40, RCS-60, RCS-90

# MANUAL



017RCS-14-1M



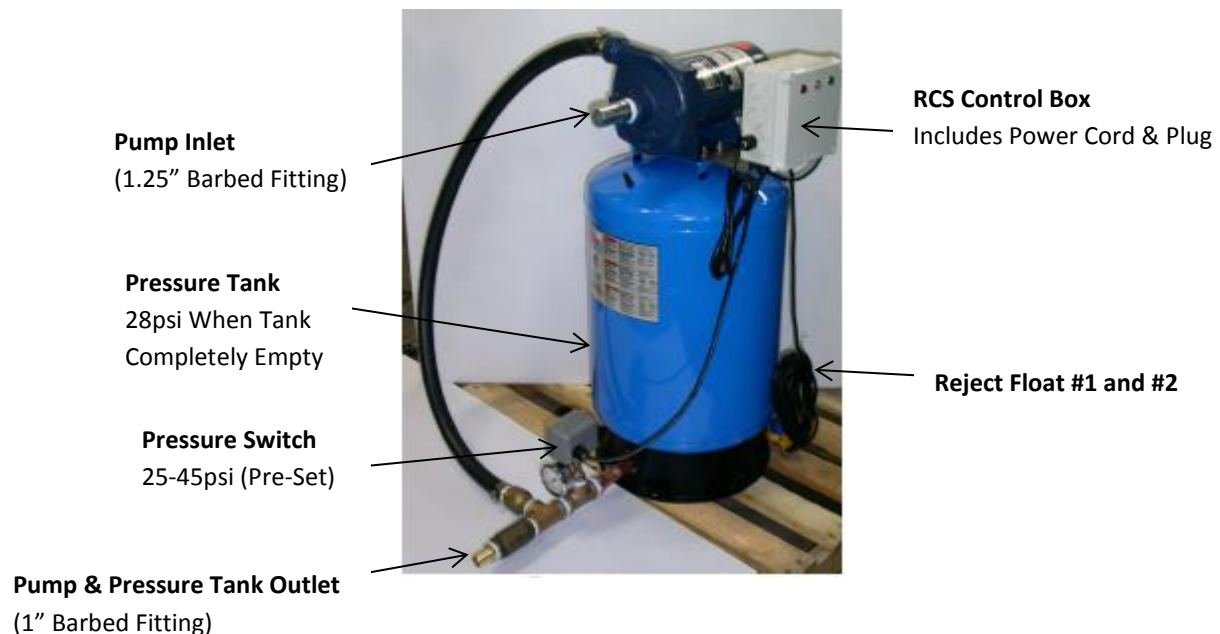
## RCS-40 Reject Capture System

The Diamond H2O RCS-40 is a reject capture system designed to re-pressurize the reject water from a reverse osmosis (RO) system. In cases where a RO system is pretreated with a water softener, the concentrate from the RO will be soft water (although high in TDS). This soft water can be reused for a number of different purposes.

This system is designed to be used with a holding tank which is filled with reject water and a secondary water supply. The flow of water into the holding tank is controlled by reject floats #1 and #2. This is shown on the diagram on page 2. Installation instructions are also included in the installation diagram.

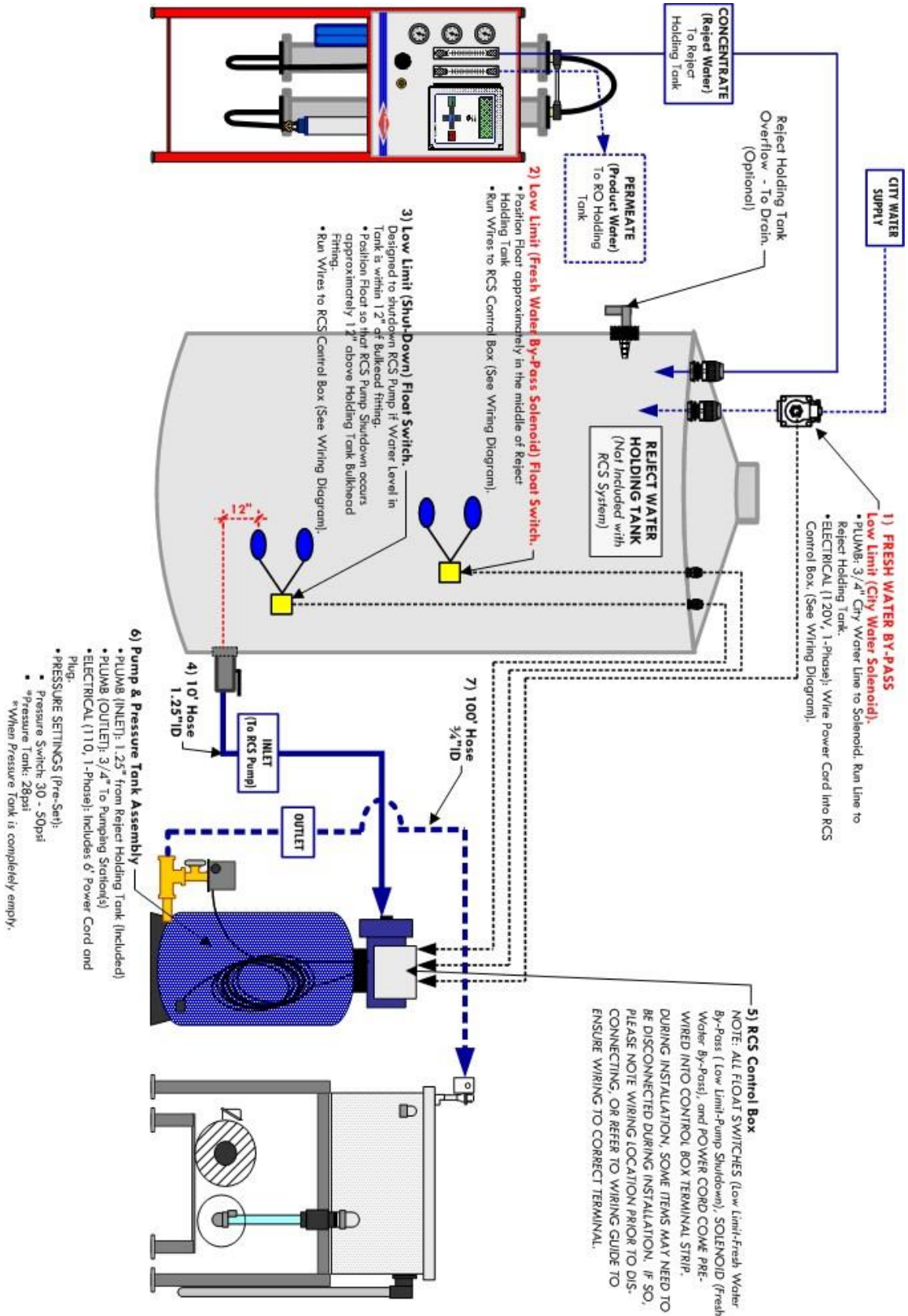
### Installation Instructions

1. Install Fresh Water By-Pass (Low Limit City Water Solenoid).
  - a. PLUMB: 3/4" City Water Line to Solenoid. Run Line to Reject Holding Tank.
  - b. ELECTRICAL (120V, 1-Phase): Wire Power Cord into RCS Control Box. (See Wiring Diagram).
2. Install Low Limit (Fresh Water By-Pass Solenoid) Float Switch.
  - a. Position Float approximately in the middle of Reject Holding Tank
  - b. Run Wires to RCS Control Box (See Wiring Diagram)
3. Install Low Limit (Shut-Down) Float Switch
  - a. Designed to shutdown RCS Pump if Water Level in Tank is within 12" of Bulkhead fitting.
  - b. Position Float so that RCS Pump Shutdown occurs approximately 12" above Holding Tank Bulkhead Fitting.
  - c. Run Wires to RCS Control Box (See Wiring Diagram).
4. Connect 1.25" hose from outlet of pressure tank to inlet Pump Inlet.
5. All wiring to the control (reject floats, fresh water by-pass solenoid, and power cords) are Pre-Wired
  - a. DURING INSTALLATION, SOME ITEMS MAY NEED TO BE DISCONNECTED DURING INSTALLATION. IF SO, PLEASE NOTE WIRING LOCATION PRIOR TO DIS-CONNECTING, OR REFER TO WIRING GUIDE TO ENSURE WIRING TO CORRECT TERMINAL.
6. Pump and Pressure Tank Assembly
  - a. PLUMB (INLET): 1.25" from Reject Holding Tank (Included)
  - b. PLUMB (OUTLET): 3/4" To Pumping Station(s)
  - c. ELECTRICAL (110, 1-Phase): Includes 6' Power Cord and Plug.
  - d. PRESSURE SETTINGS (Pre-Set):
7. Connect 3/4" Outlet to Desired Location





Installation Diagram





### Wiring Diagram

Everything is pre-wired. You will need to disconnect the float switches to install them in the holding tank. Follow the diagram when rewiring them in the control box.

