

# Accumulator/Pulsation Dampener Tank

## Installation & Maintenance Manual

Part Number-RACT820-NPT, RACT820-JG

The REMCO Accumulator/Pulsation Dampener Tank is a bladder type pressure storage vessel device designed to hold water under pressure. The tank provides additional water storage to assist a pump in meeting total demands of the system. It extends pressure switch-controlled pump life by reducing pump on/off pulsation known as pump cycling.

Note: This product is not for use with REMCO AQUAJET variable speed pumps. It will cause the AQUAJET to continue to run after the water flow is turned off and build extreme pressures that could cause leaks or broken water pipes.

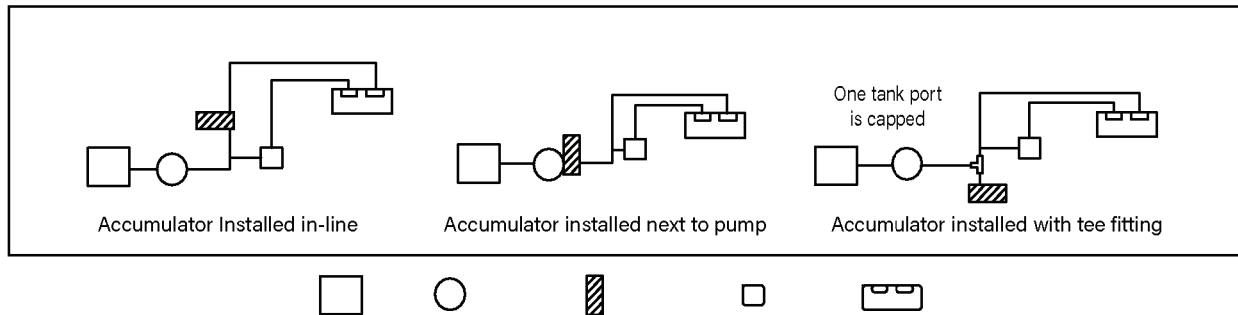
The Accumulator/Pulsation Dampener Tank is factory set at 20 psi for long term storage, shipping or during non-system use.

## Installation Procedure

The Accumulator/Pulsation Dampener Tank can be mounted in any position. For complete sanitizing or winterizing, the recommended mounting position is with the pre-charge valve stem up. The hard rubber mounting bracket has 2 holes for mounting to a hard surface with #10 screws or bolts. Do not freeze or mount near a heat source.

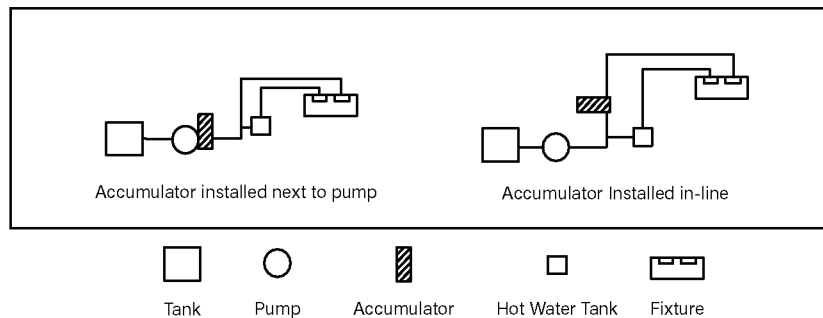
The RACT820-NPT has two ½" MNPT fittings. It is recommended that the connections are high pressure braided or flexible hose to minimize vibration and noise. The tank can be plumbed with a single line capping the opposite connection or through mounted in the plumbing system. See mounting diagrams in figure 1.

Figure 1:



The RACT820-JG has 2 John Guest 3/8" push connect fittings. This tank can only be mounted with through connections. See diagrams in figure 2.

Figure 2:



It is recommended the pre-charge be checked annually or anytime the accumulator does not appear to be functioning properly. Temperature and altitude changes can affect the accumulator pressure and performance. Use any standard tire pressure gauge to check pressure.

The most efficient way to use the accumulator occurs with the pre-charge set at the same pressure as the pumps pressure switch turn on pressure. Typically a 45 PSI pump will turn on at 30 psi therefore the pre-charge should be at 30 psi. The pre-charge must be set in a static condition (pump off and one fixture open) and pressure adjusted to the correct pump turn on pressure.

## Winterizing

To winterize, drain all water from the system. Blow the system out with low air pressure or add potable water anti-freeze.

**Warning! Never use automotive antifreeze. Death or severe injury can occur.**

## Testing

Check air pressure with pump off and one or more faucets open (no water in system) and adjust pressure as needed. If the accumulator leaks water from the air valve or does not hold pressure, unit must be replaced.

Note: There are no replacement parts or kits for this accumulator. If it is not working it must be removed or replaced.

## Troubleshooting Guidelines

### DOES NOT FUNCTION PUMP CYCLES RAPIDLY:

- Check air pressure, add or remove air as necessary

### WATER LEAKS FROM VALVE:

- Internal diaphragm is torn or has a hole in it, replace accumulator.

### DOES NOT HOLD AIR PRESSURE:

- Air Valve loose, Screws loose, internal diaphragm is torn or has a hole in it, replace accumulator

### LEAKS FROM FITTINGS OR PORTS:

- Check to be sure fitting connections are tight.

## Specifications

**Maximum Working Pressure:** 125 psi

**Factory Pre-charge Pressure:** 20 psi

**Total liquid volume:** 20 fluid oz.

**Diameter:** 4-1/8"

**Length:** 8-7/8"

**Listings:** NSF, CSA

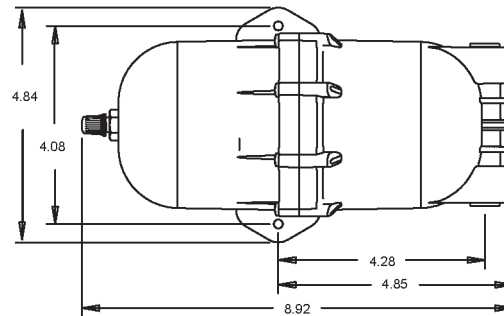
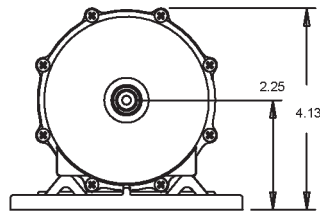
**Housing Material:** Nylon

**Bladder Material:** Butyl

**Ports:** 1/2" MNPT or 3/8" John Guest female push connectors

**Mounting Bracket:** 2 holes 3/16" diameter, 4-1/8" center to center apart

## Dimensional Drawings (inches)



## Warranty

Remco warrants its products to be free from material and workmanship defects (under normal use and service) for a period of one (1) year from the date of manufacture, or one (1) year use with proof of purchase, not to exceed two (2) years in any event. The limited warranty will not apply to pumps that were improperly installed, mis-applied, or incompatible with fluids or components not manufactured by REMCO. REMCO will not warrant any pump which is damaged or modified outside the REMCO factory.

All pumps/products must be flushed of any chemicals before shipping. All warranty considerations are governed by Remco's written Return Policy.

Returns are to be shipped postage prepaid to our service center in Osakis, MN. REMCO shall not be liable for freight damage incurred during shipping. Package returns carefully and include the RMA number on the packaging. REMCO INDUSTRIES, 10425 Wildlife Loop SE, Osakis, MN 56360.

Upon receiving a pump, it will be tested per REMCO's test criteria. REMCO's obligation under this warranty policy is limited to the repair or replacement of the unit. Pumps found not defective (under the terms of this limited warranty) are subject to charges to be paid by the returnee for the testing and packaging of "tested good" units. No credit or labor allowances will be given to the returnee for pumps returned as defective. Warranty replacements will be shipped on a freight allowance basis. REMCO reserves the right to choose the method of transportation.

This limited warranty is in lieu of all other warranties, expressed or implied, and no other person is authorized to give any other warranty or assume obligation or liability on REMCO's behalf. REMCO shall not be liable for any labor, damage, or other expenses, nor shall REMCO be liable for any indirect, incidental, or consequential damages of any kind incurred by the reason of the use or sale of any defective product or part. This limited warranty covers pumps distributed within the United States of America. Other world market areas should consult with the distributor for any deviation from this document.

**⚠ WARNING:**  
Cancer and Reproductive Harm  
[WWW.P65WARNINGS.CA.GOV](http://WWW.P65WARNINGS.CA.GOV)