



# RO Protect™

## RO Membrane Protection & Storage Solution

MSDS - [www.ipceagle.com/MSDS](http://www.ipceagle.com/MSDS)

### Ultra Pure series HydroTube™ system long term storage instructions

#### System Preparation:

1. Remove DI resin cartridge.
2. Stand unit upright allowing water to drain from unit and pure water discharge hose for 10 minutes.
3. Allow DI resin cartridge or sock to drain for an hour. Then wrap it securely in plastic to prevent it from drying out. Store indoors to protect from freezing.
4. Disconnect pure water discharge hose. Drain majority of water from hose.

#### RO Protect™ Solution preparation and application:

1. Pour entire package of RO Protect™ into 1 gallon of RO water or distilled water, mix thoroughly ensuring all powder has been dissolved. Note: RV antifreeze (propylene glycol) may be used if freeze protection for system is required. (see fig. B)
2. Use waste water hose to connect the inlet and waste outlet creating a closed loop. (see fig. C)
3. Slowly pour solution into the top of the open RO pressure vessel. (see fig. D)
4. Allow time for solution to settle into the membrane, top off as needed, reinstall all covers and store.

#### System Restart procedure:

1. Place unit in the upright position; disconnect waste water hose from inlet filling allowing RO Protect™ solution to drain out for 10 minutes.
2. Reinstall DI cartridge.
3. Replace carbon/sediment filter.
4. Connect water supply hose to inlet and turn on water supply and pump motor if applicable.
5. Allow system to run for 10 minutes. Check pure water flow rate and TDS level to ensure system is operating properly.
6. System is now ready for use.

### Ultra Pure series Hydro Cart & RODI cart system long term storage instructions

#### System Preparation:

1. Remove sediment filter and carbon filter, empty water. Reinstall empty housings.
2. Open drain/flush valve located at the bottom of the RO pressure vessel. (see fig. A)
3. Remove safety cap on top of RO pressure vessel.
4. Remove DI resin cartridge or DI sock. Reassemble empty DI pressure vessel.
5. Allow DI resin cartridge or sock to drain for an hour. Then wrap it securely in plastic to prevent it from drying out. Store indoors to protect from freezing.
6. Disconnect pure water discharge hose or hose reel. Drain majority of water from hose.

#### RO Protect Solution preparation and application:

1. Pour entire package of RO Protect™ into 1 gallon of pure water or distilled water, mix thoroughly ensuring all powder has been dissolved. Note: RV antifreeze (propylene glycol) may be used if freeze protection for system is required. (see fig. B)
2. Use waste water hose to connect the inlet and waste outlet creating a closed loop. (see fig. C)
3. Slowly pour solution into the top of the open RO pressure vessel(s). Close drain/flush valve when solution starts coming out, filling pressure vessel(s) to the top. (see fig. D)
4. Allow time for solution to settle into the membrane, top off as needed, reinstall all covers and store.

#### System Restart procedure:

1. Install new carbon and sediment filters.
2. Connect water supply hose to inlet, open drain/flush valve, turn on water (turn on pump motor if applicable).
3. Allow solution to flush for 10 minutes then close flush valve.
4. Allow system to run for 5-10 minutes. Check pure water flow rate and TDS level to ensure system is operating properly.
5. Shut down system.
6. Install DI resin cartridge or sock.
7. System is now ready for use.

# RO Protect™

## LONG TERM STORAGE INSTRUCTIONS

RO Membrane Protection & Storage Solution



# IPC Eagle

### A

Open drain/flush valve located at the bottom of the RO pressure vessel.

Note: not necessary on HydroTube™



### B

Pour entire package of RO Protect™ into 1gallon of pure water or distilled water, mix thoroughly ensuring all powder has been dissolved.

Note: RV antifreeze (propylene glycol) may be used if freeze protection for system is required.



### C

Hydro Cart & RODI Cart System



HydroTube™



Use waste water hose to connect the inlet and waste outlet creating a closed loop.

### D



Slowly pour solution into the top of the open RO pressure vessel(s). Close drain/flush valve when solution starts coming out, filling pressure vessel(s) to the top.