

RSW SYSTEM WINTERIZATION PROCEDURE

Follow this procedure whenever your system will be shut down for over two weeks.

- 1) Fill the fish hold with enough clean, fresh water to circulate through the system.
- 2) Start the refrigeration system and allow to run for several minutes.
- 3) With the system running in "Auto" and "Run" mode, close the King valve (located at the outlet of the condenser).
 - a. Allow the compressor to shut down on Low-Pressure cut out.
 - b. Observe the Low-Pressure. If it climbs above approximately 15 psi, run the compressor again by momentarily switching to "MANUAL" until the system stabilizes at 10-15 psi on the low side. Do not pull the low side into a vacuum.
 - c. Switch "RUN/PUMP DOWN" to "PUMP DOWN" and "AUTO/OFF/MANUAL" to "OFF". Switch control power off.
- 4) Isolate refrigerant
 - a. Close the Queen valve. Close compressor suction and discharge valves. Tag valves as closed.
 - b. Lubricate the valve stems and valve stem caps with refrigeration compressor oil or mineral oil before replacing the caps.
- 5) Align circulation valves for chiller backflush (reverse flow). Circulate water for 15 minutes.
- 6) Pump off all excess water and drain all water systems. This includes all piping, condenser, circulation pump, condenser pump, and chiller.
- 7) Remove zincs from condenser, chiller, and oil cooler (where applicable).
- 8) Remove condenser inlet or outlet piping to inspect condenser tubes for fouling. If needed, clean condenser tubes. Follow manufacturer recommendations.
- 9) Protect the system from moisture and the elements.
- 10) Order any spare parts to have on hand next season.

NOTE: Leaving chillers closed with static water during lay-up can cause sulfide contamination and corrosion, which can result in chiller failure.

Leaving water in any closed system may result in damage during freezing conditions.