



RECOMMENDED CHILLER MAINTENANCE

This is a list of basic preventative maintenance items for your Dimplex Thermal Solutions liquid chiller. The interval for this maintenance should be determined by the duty cycle of the chiller and the environmental conditions in which it operates. Contact a DTS service technician for further assistance.

1. Inspect and clean air filters

The air filters should be clean to allow for proper air flow through the chillers condenser coil. When cleaning the filters, use low pressure air or water in the opposite direction of air flow. Allow to dry thoroughly before reinstallation.

2. Inspect and clean condenser

Air Cooled Condenser-

Light should be visible through the condenser coil. If it needs to be cleaned, remove the back cover of the chiller and use compressed air to blow back through the coil in the opposite direction of air flow.

Water Cooled Condenser-

Check inlet and outlet water pressure and temperature. Water supplied to the unit should have a minimum differential pressure of 15 PSI at the chiller. Low outlet pressure or a high differential may indicate a dirty or clogged condenser which will require cleaning.

3. Check water quality / test glycol mixture

System water should be clean and free of contaminants. If the chiller has a reservoir, check for debris or contaminants which could reduce the efficiency of your chiller. If the chiller has a flow-through heat exchanger, check for normal inlet and outlet fluid pressure. A large pressure differential could indicate plugged up heat exchanger passages.

When using glycol, the mixture should be 30 / 70 (Glycol to Water) for indoor applications and 50 / 50 (Glycol to Water) for outdoor applications. Use only inhibited industrial glycols to maintain your water system.

4. Inspect fluid filters

Fluid filters should be clear enough to allow for proper flow and pressure in the system. An increased fluid pressure on the system may indicate a dirty filter.

5. Inspect fluid system for leaks or loose connections

Visually check for fluid leaks throughout system. Physically check for loose pipe fittings or hoses. Ensure that no plumbing parts are wearing, cracking, or chaffing.

6. Check amp draws on all motor loads (compressor, pumps, fans, etc...)

Use an amp-meter to check for proper current draws on all motors and heaters. Refer to the chillers electrical schematics or the motor nameplate for proper amp draws.

7. Check all wiring for loose connections, chaffing, or damage

Disconnect power to the chiller. Check the electrical box and all junction boxes for any loose or damaged wiring. Replace any wiring that could cause problems with shorting or unintentional grounds.

8. Inspect and test refrigeration system for leaks.

Have a certified refrigeration technician check the refrigeration system for proper operation. Leak check the unit, monitor operating pressures, and adjust as needed.

For more information or questions regarding chiller maintenance and repairs, contact the DTS Service Department 24 hours a day.

To purchase regular maintenance items for your chiller (filters, glycol, etc.), contact our Parts Department.

DIMPLEX THERMAL SOLUTIONS 1800-YOU-KOOL