

PREVENTATIVE CARE TIPS FOR YOUR COOLING SYSTEM

Our preventative care tips are designed to be a quick reference tool and to address the most common causes of potential damage or loss of performance to your cooling system. To protect your investment and properly care for and maintain your system we strongly recommend you read the system's user manual. Reference our Technical Library on our website where you will find system user manuals and helpful maintenance and troubleshooting guides.

1) *Installation*

- **Positioning:** Systems with air cooled condensers must be located in a space where the ambient temperature is below the rated operating temperature listed in the specification section of user manual. Air cooled units require a minimum of three feet of free space on all four sides of unit to properly evacuate heat into the atmosphere.
- **Startup:** Before startup ensure proper facility water supply to the system is turned on to prevent overheating and possible damage.
- **Facility Water:** Lytron publishes a facility water cleanliness standard in the user manual. Failure to ensure facility water cleanliness is within acceptable limits can cause damage to the cooling system.
- **Electrical:** Connect your cooling system to the appropriate electrical configuration that corresponds with the information on the serial tag at the back of unit. Consult your user manual for proper electrical phasing instructions before turning the system on.
- **Plumbing:** To ensure proper flow, closely match the size of the systems input/output hoses to the system fittings. Insulate all secondary plumbing if needed. Ensure that the supply and return plumbing is of reasonable length.

2) *Operation*

- **Fluids:** Use only the process fluid specified for your cooling system.
- **DI Water:** Never introduce and then remotely control deionized water above 2.0 MegOhms in a system that is not designed for it. Serious damage to the refrigeration system will result.
- **Priming:** Consult the user manual and train all equipment users on proper priming during initial startup.
- **Filter System:** Use the appropriate filter system. If a filter system is not standard on your model please call Lytron at 1-781-933-7300 to see if an appropriate accessory filter kit is available.
- **Additives:** Adding automotive grade glycol as an inhibitor may damage the pump seal elastomers and soft hosing. Use the correct additives and inhibitors that are compatible with the wetted materials in your system. Consult a chemical additive specialist before introducing additives to your cooling fluid.
- **Condenser:** Clean your condenser to avoid loss of cooling performance and possible overheating. Refer to user manual for instructions on properly cleaning the condenser.

3) *Specialty Fluids (for systems using specialized heat transfer fluids)*

- **Filter Drier:** To prevent moisture from accumulating in the system's evaporator establish a preventative maintenance schedule to replace the filter drier. Relative humidity conditions will determine how often replacement is needed.
- **Contaminants:** Over time if fluid becomes contaminated contact a fluid manufacturer that can provide fluid reconditioning services to remove unwanted water and contaminants. Their cost is more economical than purchasing new fluid.
- **Fluid Mixture:** Always replace fluid with the correct mixture recommended in the user manual. Using the wrong mixture can result in loss of freeze protection at lower temperatures.

- **Reservoir:** Fluid reservoirs should be quickly filled at room temperature and closed before starting the cooling system to avoid atmospheric moisture gaining entry into specialty fluids.
- **Insulation:** Properly insulating the secondary hosing to your tool will provide optimum system performance.
- **Non-Conductive Hosing:** Specialty fluids can create an excessive static charge due to friction. To prevent static build up contact your Lytron sales representative to discuss non-conductive hosing.

4) *Shipping & Storage*

- **Draining:** Refer to your manual to properly drain system before storing it. Improper draining could result in a total loss of your investment.
- **Packaging:** Contact Lytron for OEM packaging to protect your investment for transportation or long term storage.
- **Safeguarding:** Compressors utilize shock mounts that can be tightened down against spacers to prevent rocking during shipment. Consult your user manual for proper installation and removal of spacers.
- **Shipping:** It is highly recommended that you use trucks equipped with air ride suspension when transporting your systems.

