HOLMES MURPHY®

A/C START-UP CHECKLIST

Check out this list to help maximize reliability, economy, and fuel conservation over the summer! Many failures take place at the start-up or early on in the cooling season because of inoperative controls or safety devices. By readying your equiment you can prevent these accidents.

COMPRESSORS

✓Energize the crankcase heaters for at least eight hours before start-up and before taking insulation resistance reading of hermetic motor windings.
✓Test the lubricating oil for color and acidity, and check crankcase oil level

MOTORS

✓Check the air passages of open motors for cleanliness and obstructions.
✓Check the condition of and lubricate bearings.
✓Take insulation resistance readings. If the readings indicate less than one megohm resistance, don't start the motor. Check for the cause of the low resistance.

MOTOR CONTROLS

✓Inspect starter contacts for deterioration from short cycling, arcing, or corrosion.
✓Check terminal connections for tightness.
✓Examine the overload protection for defects, and for proper size.
✓Check mechanical linkages for binding and excessive looseness.
✓Check timing devices for correct operating sequence

OPERATING AND SAFETY CONTROLS

✓Determine that the controls are properly calibrated and in working order, particularly thermostatic controls, oil pressure safety switches, and flow switches.

REFRIGERANT CIRCUITS

✓Be sure the circuit is equipped with a moisture indicator and if moisture is indicated, install new liquid line filter/drier cores. Determine the source for moisture
✓Check the expansion valve for proper operation and superheat settings over the full range of operation.

CONDENSOR AND EVAPORATORS

✓Ensure the proper cleaning of heat transfer surfaces.
✓Cooling towers: Check the baffles for tightness and soundness. Clean the baffles, sump, and the spray nozzles.

PUMPS

✓Check the bearings, packings, shaft couplings, and seals. Lubricate bearings.

FANS

✓Check for broken, cracked, bent, or loose blades. Check hubs, fan shaft and bearings.
✓Check the belt condition and tension.
✓Replace air filters

PIPING

✓Check all piping supports for signs of distress.
✓Check for external damage and excessive vibration.

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