



CENTRIFUGAL AIR CONDITIONING AND REFRIGERATION LOG

The Hartford Steam Boiler Inspection and Insurance Company, One State Street, P.O. Box 5024, Hartford, CT 06102-5024.

Think Ahead™

MANUFACTURER				NUMBER				SIZE				LOCATION				REFRIGERANT "R"																																										
DATE OR TIME	OUT-SIDE TEMP.	COMPRESSOR							MOTOR		GEAR OIL		CHILLER			CONDENSER				PURGE		INITIAL																																				
		Bearing		Level	Oil		Press.	Amps	Volts	Press.	Temp.	Refrigerant			Water Temp.		Refrigerant		Water Temp.		Frequency of Operation		Anti-Water Removed																																			
Position Cap. Indicator	Temp.	Temp.	Temp. Reser-voir		Temp. Leaving Cooler	Level						Press.	Level	Press.	Temp.	In	Out	Press.	Temp.	In		Out		Press.	Temp.	In	Out																															
LOG THIS INFORMATION HOURLY/DAILY																					TUBES				DATE CLEANED																																	
																					DATE OF EDDY CURRENT TEST																	Operating & Safety Control Tests																				
																					OIL PRESSURE SAFETY CONTROL																	SETTING				CONDITION																
																					DATE TESTED & INITIALS																	LOW REFRIG. PRES./TEMP. SAFETY CONTROL																				
																					DATE TESTED & INITIALS																	SETTING				CONDITION																
																					DATE TESTED & INITIALS																	LOW CHILLED WATER TEMPERATURE CONTROL																				
																					DATE TESTED & INITIALS																	SETTING				CONDITION																
																					DATE TESTED & INITIALS																	FLOW PRESSURE DIFFERENTIAL CONTROL																				
																					DATE TESTED & INITIALS																	Chilled Water				CONDITION																
																					DATE TESTED & INITIALS																	Condenser Water				CONDITION																
																					DATE TESTED & INITIALS																	Water				CONDITION																
																					DATE TESTED & INITIALS																	Water				CONDITION																

PERFORM THESE TESTS ANNUALLY

IMPORTANT

For reliable and uninterrupted service, the following maintenance items should be given attention as indicated.

Compressor:

After 40,000 operating hours or 5 years, whichever comes first, the compressor should be disassembled. Impeller(s) should be examined for rubbing, grooves and cracks – cleaned, non destructively tested and balanced. Guide vanes, linkage and bushings examined for lost motion, wear, sticking stems and nondestructively tested. The main shaft, pinion, and gears should be nondestructively tested.

Tubes:

1. The water side surfaces should be cleaned **annually**
2. Eddy current analysis should be performed on condenser tubes within 3 to 5 years of service, and on evaporator tubes within 5 to 7 years of service. The detection of any wear, corrosion, or deterioration of tubes will determine when subsequent testing of the tubes should be performed.

Controls:

All safety and operating controls should be tested annually, calibrated to design conditions and their set points recorded. Defective safety devices and controls should be replaced.

Oil/Refrigerant:

When oil or refrigerant is added, record date and amount. Also indicate leak tests, repairs and adjustments. Oil samples should be taken and tested for physical and chemical properties.

Purge Unit:

When provided, should be overhauled at least once a year with interim service checks performed as recommended by the manufacturer.

Use reverse side to record all service calls including:

1. Service Company/Name & Tel. No.
2. Date of service call
3. Work performed
4. Date and time machine shut down on safety control