CENTRIFUGAL AIR CONDITIONING AND REFRIGERATION LOG

ADDITIONAL LOG(S) REQUEST TO: Engineering Department, The Hartford Steam Boiler, One State Street, Hartford, CT 06102-3001.
Please specify which log and how many copies per log.

MANUFACTURER	NUMBER	SIZE	LOCATION	REFRIGERANT "R"

LOG THIS INFORMATION HOURLY/DAILY

DATE OR TIME	OUT-SIDE TEMP.	COMPRESSOR							MOTOR		GEAR OIL		CHILLER					CONDENSER				PURGE		INITIAL
		Position Cap. Indicator	Bearing		Oil				Amps	Volts	Press.	Temp.	Refrigerant			Water Temp.		Refrigerant		Water Temp.		Frequency of Operation	Amt. Water Removed	
			Temp.	Temp.	Level	Temp. Reser-voir	Temp. Leaving Cooler	Press.					Level	Press.	Temp.	In	Out	Press.	Temp.	In	Out			

PERFORM THESE TESTS ANNUALLY

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

SETTING	CONDITION

DATE TESTED & INITIALS

LOW CHILLED WATER TEMPERATURE CONTROL

SETTING	CONDITION

DATE TESTED & INITIALS

FLOW/PRESSURE DIFFERENTIAL CONTROL

	CONDITION
Chilled Water	
Condenser Water	

DATE TESTED & INITIALS

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 non destructively tested. The main shaft, pinion and gears should be non destructively 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 shutdown on safety control