



BY JOHNSON CONTROLS

YT CENTRIFUGAL

LIQUID CHILLER LOG SHEETS

**...an Energy-Saving
approach to your
Service needs...**

Issue Date:
June 30, 2011

Form 160.55-MR1 (611)
Supersedes 160.55-MR1 (801)



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MAINTENANCE REQUIREMENTS FOR YORK YT CHILLERS

Procedure	Daily	Weekly	Monthly	Yearly	Other
Record operating conditions (on Chiller Log Sheet)	X				
Check oil levels	X				
Check refrigerant levels		X			
Check oil return system operation			X		
Check operation of motor starter			X		
Check sump heater and thermostat operation			X		
Check three-phase voltage and current balance			X		
Verify proper operation/setting/calibration of safety controls ¹			X		
Verify condenser and evaporator water flows			X		
Leak check and repair leaks as needed ¹			X		
Check and tighten all electrical connections				X	
Megohm motor windings				X	
Replace oil filter and oil return filter/driers				X	
Clean or backflush heat exchanger (VSD, SSS Applications)				X	
Replace starter coolant (VSD, SSS Applications)				X	
Replace or clean starter air filters if applicable				X ²	
Perform oil analysis on compressor lube oil ¹				X	
Perform refrigeration analysis ¹				X	
Perform vibration analysis				X	
Clean tubes				X ²	
Perform Eddy current testing and inspect tubes					2-5 Years
Lubricate motor	Refer to motor manufacturer's recommendations				

For operating and maintenance requirements listed above, refer to appropriate service literature, or contact your local Johnson Controls Service Office. A record of all procedures being successfully carried out (as well as operating logs) must be maintained on file by the equipment owner should proof of adequate maintenance be required at a later date for warranty validation purposes.

¹ This procedure must be performed at the specified time interval by an Industry Certified Technician who has been trained and qualified to work on this type of YORK equipment.

² More frequent service may be required depending on local operating conditions.



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	Oil Pressure										
	Oil Temperature										
	Oil Pump Motor Speed (If applicable)										
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	PRV % Open										
Motor	Volts										
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Condenser	Refrigerant	Discharge Pressure									
		Corresponding Temperature									
		Subcooler Liquid Temperature									
		Small Temperature Difference									
		Refrigerant Level									
	Liquid	Supply Temperature									
		Supply Pressure									
		Return Temperature									
		Return Pressure									
		Flow Rate - GPM (If equipped)									

Remarks: _____



BY JOHNSON CONTROLS

CENTRIFUGAL LIQUID CHILLER LOG SHEET

Chiller Location _____

System No. _____

Date											
Time											
Hour Meter Reading											
O.A. Temperature Dry Bulb / Wet Bulb		/	/	/	/	/	/	/	/	/	/
Compressor	Oil Level										
	Oil Pressure										
	Oil Temperature										
	Oil Pump Motor Speed (If applicable)										
	Discharge Temperature										
	PRV % Open										
Motor	Volts										
	Amps										
Evaporator	Refrigerant	Suction Pressure									
		Corresponding Temperature									
		Small Temperature Difference									
	Liquid	Supply Temperature									
		Supply Pressure									
		Return Temperature									
		Return Pressure									
		Flow Rate - GPM (If equipped)									
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		Corresponding Temperature									
		Subcooler Liquid Temperature									
		Small Temperature Difference									
		Refrigerant Level									
	Liquid	Supply Temperature									
		Supply Pressure									
		Return Temperature									
		Return Pressure									
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BY JOHNSON CONTROLS

CENTRIFUGAL LIQUID CHILLER LOG SHEET

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O.A. Temperature Dry Bulb / Wet Bulb		/	/	/	/	/	/	/	/	/	/
Compressor	Oil Level										
	Oil Pressure										
	Oil Temperature										
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	PRV % Open										
Motor	Volts										
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Date											
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O.A. Temperature Dry Bulb / Wet Bulb		/	/	/	/	/	/	/	/	/	/
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		Refrigerant Level									
	Liquid	Supply Temperature									
		Supply Pressure									
		Return Temperature									
		Return Pressure									
		Flow Rate - GPM (If equipped)									

Remarks: _____



BY JOHNSON CONTROLS

CENTRIFUGAL LIQUID CHILLER LOG SHEET

Chiller Location _____

System No. _____

Date											
Time											
Hour Meter Reading											
O.A. Temperature Dry Bulb / Wet Bulb		/	/	/	/	/	/	/	/	/	/
Compressor	Oil Level										
	Oil Pressure										
	Oil Temperature										
	Oil Pump Motor Speed (If applicable)										
	Discharge Temperature										
	PRV % Open										
Motor	Volts										
	Amps										
Evaporator	Refrigerant	Suction Pressure									
		Corresponding Temperature									
		Small Temperature Difference									
	Liquid	Supply Temperature									
		Supply Pressure									
		Return Temperature									
		Return Pressure									
		Flow Rate - GPM (If equipped)									
Condenser	Refrigerant	Discharge Pressure									
		Corresponding Temperature									
		Subcooler Liquid Temperature									
		Small Temperature Difference									
		Refrigerant Level									
	Liquid	Supply Temperature									
		Supply Pressure									
		Return Temperature									
		Return Pressure									
		Flow Rate - GPM (If equipped)									

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	Oil Pressure										
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