



Drake Refrigeration Inc. Warranty Activation Form

Issue Date
2014
Supersedes
8-1-00

File Name
Wa.form.
Rev.2

Schedule Type: Drake Chiller start-up & pm checklist

Page: 1 of 3

Start Up/PM Date:			
Site Name:		Site Contact:	
Address:		Phone Number:	
City:	State:	Zip:	Email Address:
Manufacturer:	Drake Refrigeration Inc	Service Company Name:	
Model #:		Service Company Phone:	
Serial #:		Startup Technician:	
Seg. # .			

Visual Inspection

- Inspect incoming voltage matches nameplate voltage, and chiller disconnect per local codes.**
- Inspect installation of equipment mounting, piping, and wiring for completion.
- Inspect chiller location is **free from overhangs and at least 3 feet from any wall or fence.**
- Inspect chiller fluid level is full and free of air.
- Inspect chiller piping and pump housing for any fluid leaks.
(Slight seal leak may occur until pump seal burn in time is complete.)
- Tighten all Rotolock Valves, Schrader valve cores, and Liquid line solenoid body.
- Backseat receiver rotolock valves to release the refrigerant into the system. (If applicable)
- Tighten receiver valve packing nut (if applicable)
- Leak check the refrigerant circuit with an electronic leak detector.
- Inspect chiller name plate voltage matches the voltage supplied to the chiller.
- Tighten all electrical connections in the control panel, microprocessor and other controls.
- Inspect that a filter or Y strainer is installed in the return line of the chiller. Note if not installed.
- Measure the glycol freeze point and log into the chart below. (If applicable)

Chiller Operation

- Refer to the chiller operation manual page 11 to start the chiller.
- Inspect compressor rotation.
- Inspect chiller pump rotation.
- Press the Sys pump button to turn on the system pump. (If applicable)
- Inspect system pump rotation. (If applicable)
- Inspect chiller pump overload setting. (This should match the SFA rating on the pump label)
- Inspect system pump overload setting. (This should match the SFA rating on the pump label)
- Inspect controller set points.
- Inspect and test Flow differential pressure switch for proper operation (adjust if necessary)
- Adjust flow of glycol loop using ball valve to verify a 10F delta "T" on microprocessor display.
- Inspect Condenser fan operation. (if applicable)
- Inspect Condenser water regulation valve operation. (if applicable)
- Inspect Fan Cycle setting at 70°F.
- Install service gauge set and inspect microprocessor pressure readings. (Microprocessor pressures reasonably match technicians gauge set)
- Inspect indoor remote display panel operation. (If applicable)

Motors, Elements

- Complete log sheet

Completion Date:	Service Provider: (1)	Material/tool reference
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Compressors

- Complete compressor log sheet

Microprocessor Setting

- Complete microprocessor table

Final checklist

- Remove all tools and debris from the equipment.
- Replace all service caps and tighten.
- Replace Receiver valve stem caps and tighten. (If applicable)
- Replace all chiller manuals and documentation into the electrical panel.
- Install & secure all access panels and hardware.
- Review start up documents with the customer
- Give a copy of the start up documents to the customer
- Fax or email a copy of the start up documents to Drake
(215) 638-5518 or tbartlett@drakechillers.com

Log Sheet (Motors, Elements, etc.)

ID Information		Amp Readings				Voltage Readings			
Motor/Element Name	HP	L1	L2	L3	*NP	L1	L2	L3	
Compressor									=To Ground
Condenser fan #1									=Between lines
Condenser Fan #2									
Chiller glycol pump									
Indoor water Pump									
Receiver Heater									
Liquid Solenoid									

*NP=Name Plate

Compressor Log Sheet

Comp #	Suct Press	Disch Press	Super Heat	Oil Level	Outdoor Ambient Temp F.	LWT. °F	EWT. °F	LP Cut	HP Cut
1									
2									
3									

LWT= Leaving Water temp / EWT= Entering
Heat Ops-Test crankcase heater operation LP-Test low pressure cutout HP-Test high pressure cutout
Unload Ops-Test unloader operation

Glycol Freeze Point :

Micro Flash Version : (this will be displayed at power up)

Microprocessor Table (for settings)

item	Setting	item	Setting
dEG		TC	

Completion Date:

Service Provider:

(1)

Material/tool reference



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CP			
SP1		SP2	
DF1		DF2	
HP1		HP2	
LP1		LP2	
HTA		LTA	
HR1		HR2	

Visit Notes

Completion Date:	Service Provider: (1)	Material/tool reference
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