



Technical Bulletin

GLF/GLI

Startup Supplemental

Procedure outline: This Supplemental Service Bulletin has been published to address startup and commissioning tasks specific to Greenline Fabrications (GLF) and Greenline Industries (GLI) custom OEM systems. The following items are designed to supplement generic startup tasks listed in the Legacy Installation Operations Manual (IOM) shipped with each chiller.

<input checked="" type="checkbox"/>	Applies to	Task Description
	ALL	1. BEFORE turning chiller power on, check ALL electrical connections in the chiller and external tank section if so equipped. Check ALL control wiring connections on the back of the micro-processor controller. Special attention to detail in this area is VERY important.
	ALL	2. If chiller is being operated from a generator, contact Legacy Factory Engineering immediately.
	ALL	3. If chiller is equipped with a refrigerant receiver(s), remove dust caps, fully back seat all stem valves, tighten stem valve packing and replace valve dust covers. Once receiver valve changes are made, remove all factory tags.
	ALL	4. Make sure to check pump(s) for proper rotation. Pump overload(s), located in the chillers electrical compartment, must be set to pump "SF amps". SF amp rating can be found on pump motor nomenclature sticker.
	ALL	5. Before commissioning of system is completed, ALL refrigeration braze joints should be checked for leaks with and electronic leak detector. Possible leaks must be confirmed with soap bubbles. REPLACE AND TIGHTEN ALL REGRIGERATION SERVICE PORTS AND DUST COVERS BEFORE LEAVING SITE.
	PAC500D PAC800D	6. Oil pressure safety trips on semi-hermetic compressors should be set for 10PSI. After approximately 20 minutes of loaded run time, oil sight glass should be half full.
	PAC500D PAC800D PAC1200D	7. Condenser fan cycle controllers. Stage settings should start at 60F and drop the next fan out on 10F increments. Differentials should be set for 5F on all controllers. Example: If unit is equipped with three stage controllers, the first fan should drop out at 55F second at 45F and third 35F. The fourth fan will remain running constant.
	PAC500D PAC800D	8. Black sheet metal shipping clips must be removed from each leg of compressor. There will be four clips on each compressor. You can dispose of clips after removal.
	PAC500D PAC800D	9. Check micro-processor sensor insulation at barrel connections. Insulation must be secure preventing sensor exposure to ambient air.
	PAC240D PAC500D PAC800D	10. Confirm tank freeze point with an optical glycol refractometer. Freeze point of water/propylene glycol mix should range from minus 10F to minus 15F.
	PAC240D PAC500D PAC800D	11. Hot gas bypass systems must be adjusted to feed at or below 37 PSI or approximately +4 F suction (404A). Over feeding HGBP will impact compressor oil return and overall system performance.
	PAC240D PAC500D PAC800D	12. Micro-processor settings: DEG- F , TC- IN , SP1- 14F , SP2- 19F , DIF1- 5 , DIF2- 5 , HP1 - 400 , HP2 - 400 , LP1- 27 , LP2- 27 , HTA- 39 , LTA - 10 . NOTES: 1. On PAC500D systems use SP1- 20F , SP2- 25F . All other settings are the same. 2. DO NOT program SP1 & SP2 settings lower then 45F until freeze point has been verified.

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