



# PARAFLOW START UP REPORT

**START UP REPORT**

Supersedes: 155.17-SU1 (693)

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Form 155.17-SU1

## ParaFlow™ Start Up Report—For York Internal Use Only

Job Name: _____	York Order No.: _____
Model No.: _____	Ser.No.: _____
Name of Service Engr: _____	Serv.Mgr Signature: _____
Start-Up Date: _____	

Completed Items to be initialed by Service Engineer Upon Completion

- \_\_\_\_\_ Submittal Dwgs, Factory Test Report, Burner Info (if Applicable) on site.
- \_\_\_\_\_ Unit arrived on site with Factory Nitrogen charge-(if not explain on page 2).
- \_\_\_\_\_ Unit Leveled within 1 inch in 1000 inches.
- \_\_\_\_\_ Rupture Disk correctly piped with CPVC, adequately supported, coated with Vac-Sealant,Torqued.
- \_\_\_\_\_ Vacuum Pump piped per York Service Bulletin 155.17 NM1 (SB9) with leak test kit fittings.
- \_\_\_\_\_ Unit Evacuated to \_\_\_\_\_ mm Hg absolute.
- \_\_\_\_\_ Refrigerant Charged with \_\_\_\_\_ gal of de-ionized water.
- \_\_\_\_\_ Solution Charged with \_\_\_\_\_ gal of \_\_\_\_\_% LiBr.
- \_\_\_\_\_ Pump Rotation Check (Vacuum, Solution(s), Refrigerant).
- \_\_\_\_\_ Burner Fan Rotation checked.
- \_\_\_\_\_ Vacuum Pump capable of attaining \_\_\_\_\_ mm Hg absolute with gas ballast full open.
- \_\_\_\_\_ Valve settings checked and confirmed per Factory Test Report.
- \_\_\_\_\_ Purge Check valve (Vp8) operation confirmed.
- \_\_\_\_\_ Permanent Valve Identification Tags installed.
- \_\_\_\_\_ Chilled Water Flow Switch and/or Differential Press. Switch operation confirmed.
- \_\_\_\_\_ Low Refrigerant Temperature Cut-Out Calibration and Operation Confirmed. \_\_\_\_\_ °F cut-out.
- \_\_\_\_\_ Low Refrigerant Temperature Cut-Out sensing bulb in well with heat conductive compound and insulated.
- \_\_\_\_\_ Refrigerant temperature thermister (Micro units only) in well with heat conductive compound and insulated.
- \_\_\_\_\_ High Pressure Cut-out(s) calibration confirmed. Switch operation confirmed. \_\_\_\_\_ psia cut-out
- \_\_\_\_\_ All other safety controls—calibration and operation confirmed.
- \_\_\_\_\_ All temperature sensing elements in correct wells with heat conductive compound.
- \_\_\_\_\_ High Stack Temp. Operation -Remove T/C+ wire from Term. Strip and confirm S/D(if applicable).
- \_\_\_\_\_ Unit Full Load Operation observed.
- \_\_\_\_\_ Refrigerant Charge adjusted (Design conditions and NO AIR):
  - G Series—so refrigerant just ready to spill at full load (design capacity).
  - S Series—so refrigerant level is in correct sight glass location.

- \_\_\_\_\_ Solution Charge adjusted (Design conditions and NO AIR):  
 G Series—so level is in top sight glass of solutin tank at full load (design capacity).  
 S Series—so solution level is in correct sight glass location.
- \_\_\_\_\_ Burner Heating Firing Rate adjusted to a Heat Input of \_\_\_\_\_ MBH (if applicable).
- \_\_\_\_\_ Burner Cooling Firing Rate adjusted to a Heat Input of \_\_\_\_\_ MBH (if applicable).
- \_\_\_\_\_ Burner Low Fire adjusted for minimum of 3:1 Turndown \_\_\_\_\_ MBH (if applicable).
- \_\_\_\_\_ Burner Combustion Set Up for Proper Air/Fuel Mix (if applicable)-Attach copy of Burner Report.
- \_\_\_\_\_ Steam Valve Minimum Opening confirmed same as Factory Test Report (if applicable).
- \_\_\_\_\_ Steam Condensate Back Pressure Valve (customer supplied) set at \_\_\_\_\_ psi at full load.
- \_\_\_\_\_ Steam Pressure/Temperature per Factory Test Report (if applicable).
- \_\_\_\_\_ Supply and By-Pass Damper Operation checked on Heat Recovery Units (if applicable).
- \_\_\_\_\_ Bubble Test (Leak Rate) performed after unit at Full Load \_\_\_\_\_ cc/min total based on \_\_\_\_\_ hrs.
- \_\_\_\_\_ Dilution Cycle confirmed. Dilution Time from full load: \_\_\_\_\_ minutes.
- \_\_\_\_\_ Customer personnel instructed in proper purging procedures.
- \_\_\_\_\_ Customer personnel instructed on proper Vacuum Pump care.
- \_\_\_\_\_ Customer personnel instructed in proper Refrigerant Blow down procedure and frequency.
- \_\_\_\_\_ Customer personnel instructed in Heating/Cooling changeover procedures (if applicable).
- \_\_\_\_\_ Programmable Setpoints logged and Placed in Panel Door (Units with Micro, see Form155.17-M2).
- \_\_\_\_\_ Solution Sample taken for analysis.
- \_\_\_\_\_ Unit Log Sheet (Form 155.17 LS1 or 155.19 LS1) attached with full set of log readings.

Unit Deficiencies due to Manufacturing: \_\_\_\_\_  
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COMMENTS: \_\_\_\_\_  
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