

Chlorine Manufacturing Facility

Geismar, Louisiana

Date of Service: March 2017

Equipment Serviced

GEA

Model #

1025GL

Problem:

Customer owns and operates a GEA refrigeration skid containing 20,000 lbs. of R-507 used to liquefy chlorine as of their manufacturing process. The machine was experiencing internal icing issues due to leak and excess water in refrigerant.

Recommendation:

Troubleshooting revealed that the charge of R-507 was severely water logged with most of the ice trapped in the evaporator. As part of planned outage, it was ChillCo's recommendation that entire charge be removed and dehydrated to an acceptable standard.

Project notes:

ChillCo's recovery & recycling equipment (The Ox) was delivered to the site and set up for operation. As part of planned outage for repair of system leaks, refrigerant was removed from the owner's system and put into an ISO tank. Refrigerant was then dehydrated through The Ox and placed into a second (clean) ISO tank for onsite storage, until repairs of unit were completed.

Results:

The dehydrated refrigerant was transferred back into the owner's system and the equipment was put back into service. Subsequent refrigerant analysis showed moisture content to be at an acceptable level and ice buildup in evaporator was no longer an issue.

