



PROJECT: McQuay Chiller review

Location: Hyvee Conference Center West Des Moines Iowa

Party requesting inspection: Scott Keith @ KIG INC

Scott,

I reviewed the used 70 ton McQuay air cooled chiller for you per our conversation and these are my findings:

- 1) Microtech controls and sensors are operational and functioning properly
- 2) There is a BacNet IP card installed and operational
- 3) All compressors operate properly
- 4) Compressor crankcase heaters were functioning properly
- 5) Compressors had a level of oil in there sight glasses
- 6) All contactors function properly and look clean
- 7) Refrigerant charge is present in both circuits. 100 psi low pressure and 132 High pressure. With liquid refrigerant present in both circuit liquid lines.
- 8) All condenser fans operate properly
- 9) All sight glasses show **no** signs of moisture
- 10) The controls indicate that there is 2185 operating hours on each circuit with 2575 starts
- 11) Condenser coils appear to be in good condition with no evidence of leaks
- 12) Liquid line driers have some oil on them so should be review for small leaks.
- 13) There is some moderate rust bubbling the paint on the front panels
- 14) Plate and frame evaporator has good insulation with no evidence of leaks
- 15) Chiller has a mixture of glycol in the chilled water loop
- 16) Loop pumps were off line but loop is still full
- 17) Alarms in the alarm log were all PHASE VOLTAGE trips.

The equipment appears to be in good condition.

I left the chiller controls in the test mode so that nothing could be turned on inadvertently.

If you have any questions please call.

Thanks,

Don Shumaker
515-829-7538