

## Case Study: McQuay ALS185 to MCS Controls & Hanbells

### Site Location:

- Saint Paul, MN
- Upgraded 8/08

### Concerns:

- Cost of Mcquay SAL175 compressors
- Service history of the SAL 175 compressor
- (1) year warranty on McQuay compressor
- How would Hanbell fit in the ALS 185 frame
- What would be involved in making this upgrade to MCS Controls and Hanbell Compressors

### Equipment:

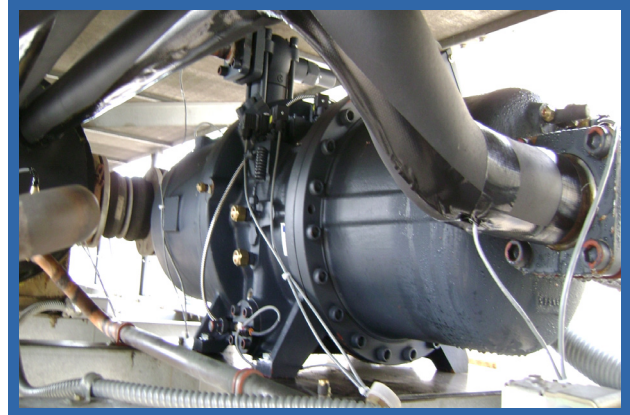
- One McQuay ALS 185 ton Chiller
- Two (2) Refrigerant Circuits
- One (1) Compressors per Circuit
- One (1) EXV's per Circuit
- Air Cooled Condenser

### Steps Taken:

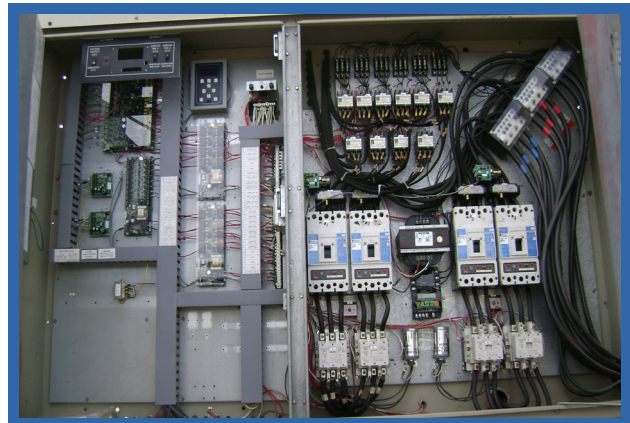
- Remove McQuay SAL-175 Compressors
- Install steel plates to McQuay frame
- Install (2) Hanbell RC2-300B Compressor
- Install Sporlan standard EXV's
- Remove McQuay controls and install MCS-Magnum Controls

### Results:

Compressor #2 had failed and compressor #1 was noisy. A decision was made to replace the compressors and upgrade the controls to the MCS-MAGNUM. Two days after the order for the compressors was placed, the 2nd McQuay compressor failed. The chiller was located on the roof of a 6 story building. A crane removed the 2 old compressors and set in place the new Hanbell compressors on a Wednesday. The compressors were set on an adapter plate, piping and wiring changes were completed for one circuit that was operating by Friday afternoon. The 2nd compressor was finished the next week. The job was performed in July of 2008, estimated 180 hrs total.



Hanbell RC2B-300 Compressor replacing SAL-175 screw compressor on a McQuay ALS Chiller



**NEW COMPRESSORS WITH 3 YEARS WARRANTY  
AT NO ADDITIONAL COST!**

**“HANBELL COMPRESSORS WERE MUCH QUIETER.”**  
Upgrade Performed By