

## Case Study: York YCAS-200 to MCS Controls & (1) Hanbell

### Site Location:

- U of Tx Health Science Center, San Antonio
- Upgraded 9/08

### Concerns:

- Cost of York DXS-45 compressor
- Repeated compressor failures
- (1) year warranty on York compressor
- How would Hanbell fit in the YCAS 200 frame
- Integrating MCS Controls and a Hanbell compressor with the remaining York compressor

### Equipment:

- One York YCAS 200 ton Chiller
- Two (2) Refrigerant Circuits
- One (1) Compressors per Circuit
- One (1) EXV's per Circuit
- Air Cooled Condenser

### Steps Taken:

- Remove York DXS-45 Compressor
- Install steel plates to York frame
- Install (1) Hanbell RC2-320B Compressor
- Install Sporlan standard EXV's
- Remove York controls and install MCS-Magnum Controls

### Results:

The University has three of these chillers that have had numerous compressor failures during the warranty period. When another failed on chiller #3 now out of warranty, they asked TCS for other options. A Hanbell compressor was installed with piping taking four days. Upgrading to MCS-Magnum controls took 5 days. Controlling the remaining York compressor was performed with MCS User define logic because of its single analog control for loading and unloading the compressor. The Hanbell is controlled in a normal sequence. The University was shown the benefit of the reliability of the Hanbell compressor and the ease of software change should the second York compressor need replacement in the future.



Hanbell RC2B-320 Compressor replacing DXS-45 screw compressor on a York Chiller



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