



5580 Enterprise Pkwy., Fort Myers, FL 33905
Office: (239) 694-0089 Fax: (239) 694-0031

Total Solution for all your Control Needs

Lexington Middle School

Fort Myers, Florida



Upgraded using Micro Control Systems. Where there is no preplanned obsolescence / abandonment of support.



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Site Location:

- Lexington Middle School, Fort Myers Fl.
- Upgraded 10/12

Concerns:

- Large number of nuisance trips
- A lot of man hours spent on sight visits
- Carrier control not user friendly
- Will the MCS Controls read motor temperature

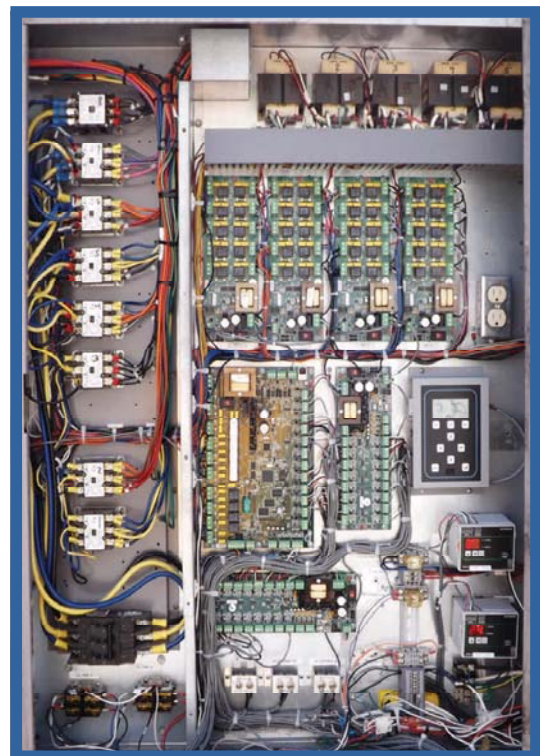


Equipment:

- One Carrier 30GXR301
- Nominal 301 ton Chiller
- Two (2) Refrigerant Circuits w/ Economizers
- One (2) Compressors per Circuit, Y-D start
- One (1) EXV's per Circuit
- Air Cooled Condenser

Steps Taken:

- Remove existing controls
- Install Sporlan standard EXV's
- Install MCS-Magnum Controls
- Install MCS-Carrier-5k (5.26k resistor)
- Install a 243 ohm resistor to VFD fan drives



Results:

Upgrade performed on three machines of the same model at this location. Two of the machines performed ice duty and were equipped with VFD's on the condenser fans for lower ambient operation. A 243ohm resistor is wired in to convert the drives 4-20ma to 0-10volt signal for the MCS-Magnum to control the VFD's on the condenser fans. The Carrier proprietary EXV's were replaced with standard Sporlan EXV's and were controlled by the MCS-Magnum on a 0-10volt signal.