

# The Control Zone

Total Solution for all your Control Needs



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## From the Desk of the President:

### UPGRADE OR NOT?

MCS works with OEMs and contractors helping design system upgrades to help their customers increase performance from older chillers. **Call our sales department to see what new programs are available this year.**



## UPGRADE OR NOT?

OEMs and contractors are under daily pressure to keep their customers facilities up and running, do more with less, and maximize the return on their commercial HVAC assets. You need to minimize issues and quickly get things back in order when something is disrupted.

HVAC chiller upgrades keep your chiller system running at maximum efficiency, minimize service calls, eliminate surprises, and controls your total cost of operation. HVAC chiller upgrades help make your existing chiller better. MCS can supply the necessary parts which can adept to existing chillers making them more reliable and efficient.

system can take advantage of the latest high efficiency technology in the market. Upgrading old systems with the latest compressor technology is now commonplace.

## Variable Frequency Drive Upgrades

VFD drives improve your compressor performance by providing safe, efficient compressor motor speed control combinations. Adding VFD controls on HVAC fans help contribute to better performance for the chiller. These HVAC upgrades ensure the most efficient part load operation possible.



Building owners and facility managers are often confronted by a difficult choice when it comes to their HVAC systems: Do I continue to absorb recurring high maintenance costs on my chillers and A/C units, or do I buy an entirely new HVAC system?

The decision is easy if the equipment is old and inefficient, as new chillers and roof-top units (RTUs) are so efficient today, a reasonable payback period is the norm.

An alternative to replacing the entire chiller or HVAC unit is upgrading those system components that are causing the most downtime and consuming the most power.



Compressors, pumps and fan motors are mechanical devices and, therefore, susceptible to failure over time.

Among these, compressors consume the most energy. By replacing a failed compressor with a new Hanbell compressor, coupled with a VFD, the

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- Live Graphs

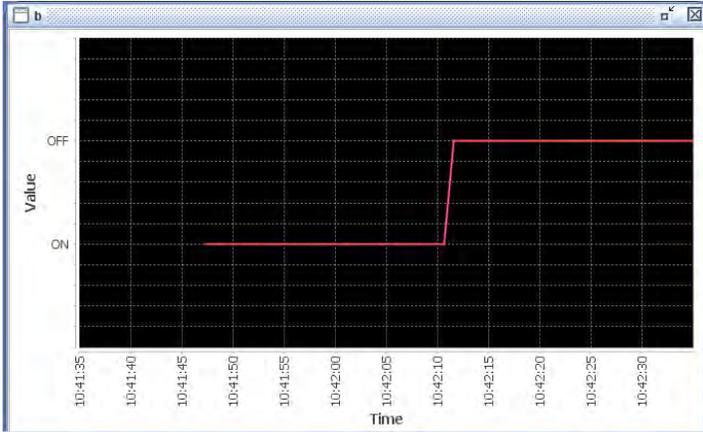
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## Product Update Announcement

**With the latest version of MCS-CONNECT (Ver. 18.04.07 and later) you have the ability to create**

# 'LIVE GRAPHS'



The user can connect to a controller and setup a **'LIVE GRAPH'** for:

**1 to 6 Analogs and 1 to 4 digitals is the min and max in the newest version**

'LIVE GRAPH' will plot a **'REAL TIME' GRAPH**, and you have the ability to save different graph setups to your computer or Touchscreen for viewing later in **'REAL TIME'**.

The technician can setup different 'LIVE GRAPHS' to monitor different sensors, save each 'LIVE GRAPH SETUP' and then save them in a 'GROUP' file and load them into your work space each time you view the controller you are connected to.

With MCS-CONNECT, the ability to move and size different windows in your work space, makes viewing these graphs easy.

### **Inspiration for today . . .**

*The ultimate measure of a man is not where he stands in moments of comfort and convenience, but where he stands at times of challenge and controversy.*

Martin Luther King, Jr.



**MCS Energy Efficient and RoHS Compliant**

## New Product release . . .

### **Carbon Dioxide Wall Mount Transmitter with LCD readout**

The MCS-CO2-W is a CO2 sensor designed to mount on a wall. The MCS-CO2-W measures the CO2 in a range of 0 to 2,000 ppm with an output of 0-5 VDC. The MCS-CO2-W utilizes a gold-plated infrared (NDIR) waveguide technology for enhanced stability, accuracy and reliability.



The sensor contains complete self-diagnostic procedures that are executed automatically when the sensor is in operation. The sensor's accuracy is determined as the sensor is in continuous operation at least for three weeks after installation.

This sensor allows the MCS-Magnum controller to make smart decisions therefore decreasing energy consumption while creating a healthier indoor environment.

## MCS Family

**Our employees are one of the greatest assets we have.**

**Carmen Velez,**  
Assistant Plant Manager

Years at MCS: 5 ½ YEARS



Carmen graduated from Pennsauken, New Jersey Vocational and Technical High School, with training in the welding field. She performed at the top of her class while there.

She later moved to Florida to enjoy the sunshine.

Her many tasks at MCS are, Quality Control, pulling and fulfilling orders, using inventory software to check parts including all of Hanbell Compressor parts and assigning daily task to other MCS employees in the plant.

When not at work, she enjoys relaxing at home with her family.

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