

The Control Zone

Total Solution for all your Control Needs



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From the Desk of the President:

Support from MCS is what we are about. You can rely on our experts to provide excellent hands-on support for your complex installations and upgrades.

Lasting Support – Previously released MCS products (hardware & software) remain supported.

Training – Classroom instruction available in our world-class Fort Myers headquarters facility or, if you prefer, we can go to your site. Call MCS for details.



Support is an important part of our business!

MCS worked with EMTech Energy Management Technologies at GE Schenectady, NY, upgrading a Smartd Water Cooled Chiller to the latest control technology.

Concern:

- Old controls failed
- Wanted controls that were easier to understand and more reliable, plus displayed more information



Equipment:

- Smartd Water Cooled Chillers
- Two (2) Turbocor Compressors
- Two (2) EXV's controlling condenser level
- Load balancing EXV control
- Modulating condenser water valve

Steps Taken:

- Remove existing controls
- Installed MCS controls
- Reprogram Turbocor boards for communication
- Provided on-site training and support for contractor to better understand MCS controls.

HVAC Chiller Upgrades help make existing chillers better



New Controls installed at GE

Supplying and working with contractors and OEM's, we can adapt older chillers to changing operating conditions, or enhance the reliability of the chiller by installing the latest and most reliable products offered.

We retrofit customer's old and outdated controls with new more precise MCS controls.

Below is an unsolicited testimonial from EMTech on how they viewed the support from MCS.

"I just wanted to let you know that things went great last week with the panel retrofit. I'm extremely impressed with the vast improvement MCS offers compared to the existing controls on the chiller.

I also wanted to compliment Daniel; he is a true professional who knows his stuff. I look forward to working with you again soon."



Sincerely
JB
Service Manager
EMTech

In this Issue . . .

- Support important part of MCS
- HVAC Upgrades
- Hanbell Compressors
- Firmware and Software
- MCS Family

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Upgrade to a more efficient compressor



A new, more energy efficient Hanbell compressor can be installed when converting some of the older units that are installed in a hard to access location for a new chiller or an upgrade.

Add a Variable Frequency Drive which will vary the frequency and voltage of its power supply. The VFD also has the capacity to control ramp-up and ramp-down of the motor during startups or stops.

When Upgrading!!

Take a look at the newer and updated Temperature Sensors and Pressure Transducers available from MCS.



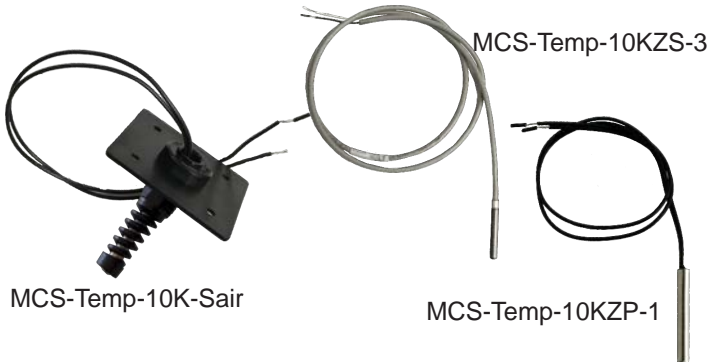
MCS-T100



MCS-PRESSURE TRANSDUCERS



MCS-T100-DUCT



MCS-Temp-10K-Sair

MCS-Temp-10KZP-1

New at MCS

Firmware and Software, Under Development

Since many centrifugal compressors operate in a vacuum, there is an opportunity for contaminants to get into the system from small leaks or minor servicing errors. These contaminants are classified as non-condensable requiring a method of disposal, known as purging.

A purge system is externally mounted on the chiller and its purpose is to remove the non-condensable. The external purge system has two main subsystems: refrigeration circuit and purge tank. The function of refrigeration circuit is to collect the non-condensable into the purge tank. The function of the purge tank is to exhaust the non-condensable.

Examples of external purge systems are the Redi-Purge®, Trane Purifier® or EarthWise®.

MCS is developing firmware which will control the purging.

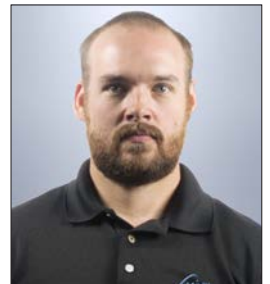
Another new feature in development: Purge Regeneration Carbon Heater.

We will notify OEM's and contractors as soon as we have tested this firmware update.

MCS Family

Our employees are one of the greatest assets we have.

Daniel Chapman,
Application Engineer, MCS



Danny (better known as D2), joined MCS in 2016 after completing HVAC courses at Fort Myers Technical College.

He started working in our Support Group and moved to Application Engineer / Sales support after a short time.

"Working at Micro Control Systems has given me the opportunity to expand my knowledge of our products. Working in the field, supporting contractors and installing equipment has furthered my education."

Since moving to Application Engineer, MCS has given me the opportunity to travel to different parts of the world while helping contractors understand the many benefits of MCS CONTROLS."



**MCS Energy Efficient
and RoHS Compliant**

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