

THIS IS TRUE

1 What Alarm?

A new customer called in a panic that a large cold room had gone down over the weekend. The customer mentioned that the unit had always given him trouble, but had never given out an alarm.

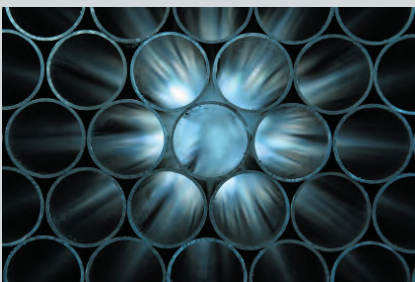
We made a few repairs and retested the unit's functionality in detail. Turns out the alarm wires were never connected since the install in 1996. No wonder it never alarmed...



2 Plugged Refrigerant Lines

On a large commissioning project, refrigerant lines came into question as compressors began failing almost immediately after start up-began. A number of the usual issues were diagnosed, from piping design to detailed system control, but none fully explained the failures.

Upon doing an autopsy on one of the large compressors, though, we found the culprit: rags from the installation had been left inside the suction lines. Wow, what a place to leave rags!



PRACTICAL PROCESS SOLUTIONS: by the go to guys

For many of our clients, mission-critical equipment and systems are the life blood of their companies. Systems must run efficiently and consistently, so whether they're relying on low-temperature chillers, lyophilizers for freeze drying, environmental rooms for critical storage, or clean room HVAC systems, proper maintenance and problem diagnosis is vital, because down time is not an option.

To put it bluntly, down time = BAD. It creates big, costly problems, and is usually an unavoidable last resort. With shrinking capital budgets, it is more important than ever to lessen system down time by fixing and maintaining what you have and replacing only what's necessary.

MSC has always taken an intensive hands-on approach when it comes to our clients' equipment and systems, placing utmost emphasis on closely-monitored preventive maintenance. We apply our vast field expertise to diagnosing our clients' systems, and recommending solid solutions to their problems. This combined approach saves our customers a lot more than it costs.

System Commissioning:

MSC works closely with building owners, users, construction managers and commissioning agents from the early construction documents all the way through installation, start-up and testing. We ensure through our plan of control that everything is working per the design intent and no other. Our hands-on approach is much more than a check list; it is a guarantee of success.



Retro commissioning systems:

Retro-commissioning is the process by which existing equipment and systems are tested to ensure they operate to the original design intent. Many systems are in need of the retro-commissioning process as they either have never been properly started and/or commissioned, or have had changes made over the years, for one reason or another, that effect operation efficiency. (It is often said within the industry that a system will be modified to the user's level of understanding). Many times we find that minor adjustments or repairs can be made during the retro process, rather than large capital expenditures.



GOING GREEN MEANS GREAT MAINTENANCE

THE MOVEMENT TO GREEN IS NOTHING NEW TO MSC...

Since 1976, MSC has been helping clients save energy, so as our nation moves toward a "Green" mentality, we are already on our industry's leading edge. But while experts are making great advances in alternative energy sources and super-efficient operating systems, many of these innovations are still a long way away from actual implementation.

The Green movement, coupled with our current economy woes, has businesses focusing on reducing energy consumption and costs. Until new technologies become widely available, their best approach is to focus on maximizing the efficiency of their existing equipment.

A recent study cited in the NY Times* showed that 20% of energy expended in residential and commercial buildings is lost, amounting to billions of dollars wasted each year. A large portion of this waste can be attributed to systems that are not running to their optimum design efficiency. Poor maintenance, "band-aid" fixes, and inexpert modifications are frequently to blame.



So, what is the key to maximizing a building's efficiency, conserving energy and saving money? It's simple: proper maintenance. Take care of what you have, fix what's broken, and replace what is irreparably inefficient. Which brings us to MSC...

MSC is the number one process cooling, automation and HVAC service contractor in our region. We are NEBB certified, and we are the only HVAC service company in our region to have 100% of our technicians with MSCA STAR certification. We are experts in Green system technologies and energy optimization.

At MSC we're known as "your HVAC & process go-to guys". Turns out we're also your "go-green" guys. Please call us to discuss how MSC can be of service to you.

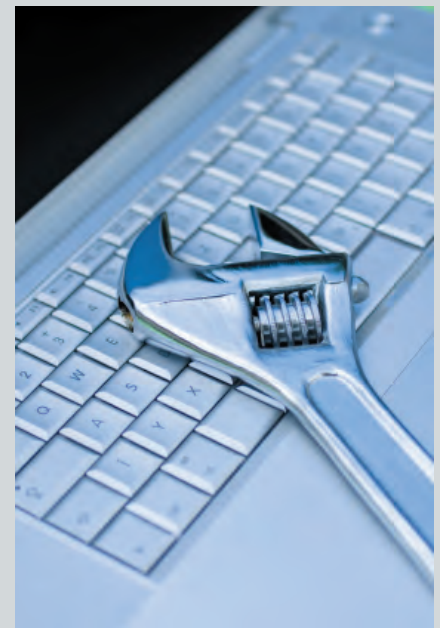
MSC 973-884-5000.

MSC WE FIX IT

HIRING A PROBLEM SOLVER

Problem solvers are a unique group of individuals. They have to have various experience, wisdom, proper training and an investment in the best diagnostic tools. They also need a Sherlock Holmes instinct on what to look for, what to test, and what questions to ask.

Problem solvers don't jump to conclusions or point fingers; they only state facts backed by physics. Lastly, problem solvers clearly deliver their findings in an easy-to-understand format that provides real answers to their clients' problems.



MSC CERTIFIED SINCE 2006 - Before the STAR is awarded, applicants must demonstrate that they uphold a strict code of business ethics; employ a highly trained and qualified workforce; maintain a superior safety record; and focus on continuing education for all employees. 107 stars now qualified!