

## THIS IS TRUE

### 1 Running Backwards

During a recent emergency service call to a pharm/bio client, the airflow in the building was hardly working. Temperature was way off and many systems were running, but in alarm.

After looking into airflow and water circulation a bit further, we discovered that just about everything in the building was running backwards, the result of an accidental phase change to an auto transfer switch.



### 2 Humidity Under Control

MSC was recently called upon to get an environmental room temperature and humidity system under control.

As it turned out, there was nothing wrong with the equipment at all. The problem was with the integral control of the face and bypass dampers, and control of heat on the desiccant wheel and process air fans. Once the proportional integral control algorithm was tuned properly, the room maintained perfectly.



## MSC PROVIDES PROFESSIONAL DUCT CLEANING

### The simple fact is, interior air can be dirty – very dirty.

Particulates, microbes, mold, chemicals, and infiltrating outdoor pollutants abound in our buildings. They accumulate in our ventilation systems, and, unless the ductwork and filters are cleaned periodically, they are continuously recirculated in our indoor air.

### Existing Systems

The benefits of clean duct work, air handlers and filters are obvious for clients wishing to eliminate the pollutants that affect the overall health and comfort of employees. Clean breathing air and increased fresh air intake are important to improving working conditions and increasing a business's productivity.

### New Buildings and Ductwork

HVAC systems are often used to temper a building during construction, both for the comfort of the workers and to help finishes (cement, adhesives, etc.) to dry. The large volume of dirt and dust (think sanding) that is created during the project is then circulated through the ventilation system, lining the ductwork and fittings, and creating a particularly dirty and unhealthy system.

### Cleanroom Facilities

For many companies, particularly pharmaceuticals and microchip manufacturers, controlling clean room and laboratory air quality is critical. Pollutants and particulates must be kept to absolute minimums, so it is crucial that ductwork, air handlers and coils be properly and regularly maintained. Holiday shutdowns are coming up for many companies; duct and HVAC cleaning should be on the shutdown itinerary.



MSC can send in our HVAC video camera to inspect your system, and our technicians can evaluate your specific needs and suggest clean energy saving advice to help improve your indoor air quality. MSC is the only true service company in New Jersey, and no one does it better. Contact Steve Meigh at (973) 884-5000, ext. 116. to discuss our duct cleaning service.

## TRUE SERVICE IS THE BEST ROI

### True Service Is The Best Return On Investment (ROI)

In tough economic times, people are looking to lower their energy costs, keep what they have running, and repair only what is broken, so it pays to know a true HVAC & process service company.

**Many of our clients come to us with systems that were never commissioned and started properly, and never really worked right from the beginning.** Very often, the basic design is sound, but the system is doomed by poor installation and systems control. These clients have typically wasted precious time and money on band-aid fixes and replacing systems in whole before coming to us because other HVAC companies were unable to diagnose, fix or control their existing system. Quite simply, they didn't know where to look or what to measure.



Sure, there are many HVAC companies out there, but besides MSC, no true HVAC service companies really exist. But as we all know, many new projects are priced and installed not by the best company, but by the lowest bidder. This can't be changed; what we can change is how these systems are started and commissioned and maintained, saving our clients hundreds of millions of dollars in performance problems and excessive energy consumption.

Don't look to companies who provide checklists as their main commissioning plan. Instead, look to a company that rolls up their sleeves with a plan of control, and executes that plan with documented proof. MSC has been that knowledgeable, hands-on company for over 30 years. So, where is your money best spent? We say, fix it, clean it, and maintain it with MSC service.

## BACK TO SCHOOL

### Commissioning By The Book

MSC was recently hired to perform the HVAC, mechanical and controls system commissioning for a major university in New Jersey.

The project involves a new building at the university, and expectations are high. The university doesn't want to take any chances and needs to have all systems running properly, tested and documented; that is our mission.

MSC was chosen for this project because of our reputation, expertise and hands-on approach. We are fully committed to our clients and their projects, and we fill every gap to make sure nothing is left to chance. MSC includes clients in the commissioning process so that they fully understand their building systems. This approach makes training and turnover a snap.

We will keep you posted on this exciting new project in our next MSC Tech.



**Interesting statistics** - Out of 1,000 people in America today 750 of them have cars...Did you know that the United States uses 25% of the worlds oil consumption.... OR that we import 70% of our oil at a cost of \$700 billion a year? So how can we reduce our dependency on foreign oil? Check out the Pickens Plan at <http://www.pickensplan.com>