



Dayton HVAC Solutions and Highlights

This guide should help you understand your IAQ needs better. But you need more than knowledge; you need HVAC products you can count on to keep employees comfortable and productive.

It is important to have the right HVAC products on the job. From powerful exhaust ventilators and fans to portable electric unit heaters, Dayton has the product selection to fit whatever your application. Here are some HVAC product families to get you started. The complete range of Dayton products is available through the general Grainger catalog or online at grainger.com/dayton.

- **Centrifugal Belt-Drive Upblast Exhaust Ventilators**

Feature one-piece rolled aluminum outer construction fully welded to the base to create a virtually leak-proof seal between the ventilator and the mounting surface.

- **Standard-Duty Exhaust Wall Fans**

Heavy gauge galvanized steel construction for structural strength and deep rolled, streamlined venturi for efficient performance. Six-blade steel propeller creates high airflow with low noise.

- **Industrial Air Circulators**

Totally enclosed 2-speed motors have pull chain switch and automatic reset thermal protection. Circulator head secures to mounting bracket with two bolts (included), which provide a locking tilt adjustment system.

- **Portable Dust Collectors**

Single-stage design collects dust and other debris in a 5.5 cubic foot cloth bag. Adjustable support arm allows flexible intake position; intake may also be used for floor pick-up.

- **Tubular Gas-Fired Standard Heaters**

Power vented, propeller type unit heaters include the latest tubular heat exchanger and inshot burner technology. A state-of-the-art hot surface pilot ignition system assures positive and reliable burner ignition.

- **Electric Unit Heaters**

Advanced pull-through air flow design draws air across heating element for more even air distribution and cooler element operation. Specially designed venturi outlet with large dynamically balanced fan blade provides maximum air flow.

Contact your Grainger representative or visit your local Grainger branch for assistance in HVAC sizing and product selection.

A History of Performance, Quality and Reliability

For more than 70 years, Dayton has provided facility maintenance professionals with hardworking, quality products. Our broad selection of HVAC products, pumps and motors are built to exacting standards and feature heavy-duty construction to deliver reliability in every application. Whatever your need, there's a Dayton product fit for the task that will pay you back with unbeatable performance. And because Dayton is backed by Grainger, you can count on strong availability, service and technical support. There are many ways to get the Dayton products you need: visit your local Grainger branch, shop the Grainger catalog or go online to grainger.com/dayton.

Exclusively from Grainger®

Maintaining Clean Indoor Air Quality

How HVAC products can support comfortable work environments



Inside:

- Benefits of clean air
- How to analyze IAQ
- HVAC solutions and highlights

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An Unseen Advantage: How Clean, Comfortable Air Keeps Employees Productive

It may come as a surprise to learn that one of the biggest influences on the comfort and productivity of your employees is something you will never see: air.

Contaminants in your indoor air come from a wide variety of common sources, including: emissions from running equipment and machinery, fumes from loading docks, cleaning products and particulate matter from building-construction projects. These are just a small number of the possible pollutants to your facility's air quality.

So how can you protect against these dangers and keep employees comfortable and productive? One of the best defenses is having the right selection of HVAC products. This guide will introduce you to some of the benefits of maintaining clean indoor air quality, the dangers associated when indoor air quality is neglected and how Dayton products can support comfortable work environments.

Why is IAQ Important?

Indoor air quality (IAQ) describes the state of air inside a facility based on the presence of pollutants and the internal temperature. IAQ can impact the health, comfort, well-being and productivity of employees and is ranked by OSHA and the EPA as among the most serious environmental problems in the U.S. The EPA estimates that poor IAQ may cost the U.S. tens of billions of dollars each year in lost productivity and medical costs.

Changes in the state of your IAQ can be subtle and may often be the result of seemingly negligible factors. It is extremely important to monitor your IAQ closely and always have the right selection of HVAC products to keep air quality clean and comfortable.

Good IAQ Improves Employee Productivity

Increased productivity is among every facility's goals and is an ongoing challenge. Studies show that environmental and comfort factors in the workplace have a direct effect on employees and that IAQ improvements can lead to greater productivity. Good indoor air quality also contributes to employee and customer safety and satisfaction.

Poor IAQ Leads to Employee Discomfort

Poor IAQ has subtle but dangerous consequences. Often, the symptoms can be confused with those of other, more familiar illnesses and thus go untreated. IAQ issues may be to blame if, over long periods of time, employees experience symptoms such as:

- Fatigue
- Headaches
- Fits of sneezing or coughing
- Dizziness

Questions to Ask When Analyzing Your IAQ

There are many things to bear in mind when studying your facility's IAQ. A full inquiry comprises tests such as airflow diagrams and chemical measurements of air particles. However, there are a few basic questions you can ask to get an idea of what the IAQ is like in your facility.

1. Is this facility being used for what it was originally intended?

If your facility is being used in ways outside of its original design, your HVAC systems may not be adequate for your IAQ needs.

2. Has your facility undergone any significant layout changes?

If your facility has a new layout, your HVAC systems must be adjusted to take the new design into account. Wall placement, additional machines and even adding more employees can all have an impact on IAQ.

3. Are there reports of any health issues that are focused in one area of your facility?

If there is a pattern of illness in a concentrated area, it may be related to IAQ and merit further investigation.

4. During a walk-through of the facility, do you notice any unusual drafts, odors or other disturbances?

Sometimes the first alert to a possible IAQ problem is your own senses. If something seems odd, it may be worth investigating further. Be aware of situations where employees are compensating for inadequate HVAC, such as propped doors or blocked vents.



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