

A new vantage point

For the last 50 years, I have been fascinated by business — what drives success, leadership, culture, best practices and, most of all, the responsibility to do right by those associated with your company or institution.

When you visit another company's plant, you learn a lot about how it works and how its people care. You look in the eyes of the associates and you can see passion and commitment — or discontent and boredom. These visits can ensure you are choosing the right partner for your future.

Over the years, Air Enterprises has been fortunate to work with facilities directors at major hospitals, universities and corporations across the country. Our client relationships — some lasting over 40 years — have given us a unique perspective into the market, which organizations are gaining momentum and what solutions they are using.

We have always been a manufacturer that is driven by what is right for our clients and figuring out how we can make the air handling and air delivery portion of a particular business better. And although the things that our clients are concerned about are all over the map, we've found that they all have at least one thing in common: They all want to do the right thing.

To help, we decided to share our unique market perspective and in-depth industry knowledge through the pages of this magazine.

Welcome to our introductory issue of *In the Air*, a publication that provides advice, best practices and industry examples to help facilities directors make better decisions. The magazine will showcase the best practices driving successful outcomes for businesses, while providing insightful articles about trends and issues in the air handling industry.

In this issue, we feature Teerachai Srisirikul, facilities director for Massachusetts General Hospital in Boston, America's No. 1 ranked hospital on the 2012-13 *U.S. News & World Report's* America's Best Hospitals list. We spoke with him about his approach to his job and best practices. We also highlight best practices, trends and

advice that other facilities directors are using to drive their organizations to success.

This publication is ultimately dedicated to our clients in the hope it will move all of us closer to excellence. Our goal is to provide not only the highest-quality equipment but to partner with you in your journey to excellence so you can do what's right for you and your own facilities. We hope that *In the Air*—as its name implies—will help propel your organization to new heights, while offering a glimpse into what's ahead. Sincerely,

Win le Wile

Bill Weber, Chairman, Air Enterprises



SAVING ENERGY, SAVING MONEY

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BRIEFS





How to reduce energy consumption in data centers

Worldwide, data centers use about 30 billion watts of electricity each year, roughly equivalent to the output of 30 nuclear power plants, according to industry expert estimates in The New York Times.

Here are some ways to reduce this consumption.

- Optimize your central cooling plant. Use a variable-speed chiller, highefficiency air handlers, low-pressure drop components and an integrated control system that minimizes unnecessary dehumidification and simultaneous heating and cooling.
- **Select the right size cooling system.** Data center cooling systems are often oversized, using more energy than needed. Install fixed elements such as ducts and pipes, but design for growth of the cooling system as your data center grows. Include variable speed fans, pumps and compressors.
- Use a Thermowheel® for better cooling efficiency. Thermowheels® utilize outside air to cool servers in the data center. The inside heat is removed via the wheel, but there is minimal air transfer between the outside and the computer room, reducing contaminants and humidity introduced into the server room while dramatically increasing cooling efficiency.

Understand the dangers of rust in HVAC systems

As part of their normal operation, over time, steel HVAC systems exposed to oxygen and water will begin to rust, posing a danger to the building's inhabitants. In addition to causing lung irritation and coughing, inhaling rust can cause siderosis, an inflammatory disease caused by iron deposits in the lungs. Rust also contributes to the growth of the organism responsible for Legionnaires' disease.

The presence of rust can also indicate excess water in the HVAC system, which could promote the growth of mold, which also causes respiratory irritation and illness. If left untreated, rust can also speed up the deterioration of the entire system.

Finally, systems contaminated with excessive rust and mold also use more energy while

subsequently distributing poorly conditioned air. When cleaning or replacing a component of the system, consider cleaning or replacing the entire system, as well, as new components can disturb particulates in older portions of the system, releasing contaminants into the environment.



Are you ready for the new building requirements?



The 2012 code requires more insulation, a tighter envelope, tighter ducts, better windows and more efficient lighting.

In new buildings, the code requires that 75 percent of lighting fixtures be high-efficacy, up from 50 percent in the previous code. In addition, it increases the stringency of duct leakage threshold, includes provisions for improving the air tightness of new homes and outlines new requirements for R-3 or better pipe insulation on most types of hot water pipes. Wall insulation requirements have also become more stringent.

California, Washington, Illinois and Maryland have adopted the 2012 IECC, and other states are expected to follow suit.

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LONG-TERM SAVINGS



big concern for companies making large purchases is usually cost. But it isn't always the initial cost that is the greatest concern; instead, companies today are often more worried about return on investment and future energy savings.

When evaluating the cost savings of air handling units, one of the major points to consider is aluminum versus steel. While aluminum initially costs more, it lasts longer because it does not rust, rot or corrode, says John Kolar, vice president of business development at Air Enterprises.

"With steel units, within about five years, the unit starts to degrade, and after 15 or 20 years, you have to replace the unit," he says. "But you don't need to replace aluminum units, as they'll often outlast the life of the building."

An aluminum base is also important because it ensures the foundation of the unit doesn't rust, rot or corrode, either. In addition, welding the base versus caulking and screwing — which creates holes — prevents moisture from getting underneath the unit.

Seals should also be considered when evaluating cost savings. Traditionally, air-handling units are sealed with caulk, which shrinks, dries and cracks. These seals typically allow leakage of about 3 to 6 percent. Seals that don't use caulk, such as double-knife-edge seals that are custom designed into the unit, are much more effective, resulting in leakage of less than 0.5 percent during the life of the equipment.

Companies can also save money in the transportation of air handling units. Units that are prebuilt and transported to a site often require costly cranes to lift them or that walls be torn down and replaced. To save on these costs, businesses should find a company that will work with them to either build the unit onsite or transport it in crates that will easily fit in elevators and construction spaces.

Another cost-saving measure is utilizing a Thermowheel®, often called a rotary heat exchanger, heat wheel or energy recovery wheel. The wheel uses existing air streams to either preheat or precool the air that cycles though the unit. These wheels can create a high amount of energy recovery, up to

90 percent, says Krister Eriksson, president of Thermotech Enterprises, a sister company of Air Enterprises.

"Savings are approximately \$1 to \$1.50 per CFM per year, which is about the same as the cost of a unit, i.e., a 40,000 CFM wheel costs about \$40,000 installed and will average about \$40,000 in energy savings per year," he says. "Mechanical reliability that eliminates costly breakdowns and repairs during the wheel's useful life cycle produces continuous savings. This is especially important in critical applications such as laboratories and hospitals, where any interruption in the air supply can be costly or even life threatening." A

COST-SAVING SUMMARY

While aluminum air handling units are typically more expensive than steel units, the additional cost pays off in the end.

Custom all-aluminum unit: \$180,000
Typical custom steel unit: \$150,000

Difference: \$30,000

The units provide immense energy savings that result in a substantial annual return on investment.

Custom fan design efficiencies: \$1,253
Air leakage savings: \$11,282

Total energy savings: \$12,535

An investment of \$30,000 that returns \$12,535 in total energy savings per year takes 2.4 years to fully return your investment.

After that initial ROI, total energy savings of \$12,535 per year continues. Over 40 years, that translates to:

Energy savings: \$470,062 No replacement cost savings: \$420,000 **Total 40-year savings:** \$890,062*

Air Enterprises' Thermowheel also provides significant energy savings.

Annual energy cost without Thermowheel: \$30,511
Annual energy cost with Thermowheel: \$9,996
Annual energy savings: \$20,515

Typical wheel cost for 10,000 CFM of OA: \$15,000

Typical wheel 603(10) 10,000 01 W 01 07(. \$\pi13,000

An investment of \$15,000 returns \$20,515 annual energy savings, taking 9.5 months to fully return your investment.

*(All figures based on a typical 30,000 CFM air handling unit)

TESTING HIS

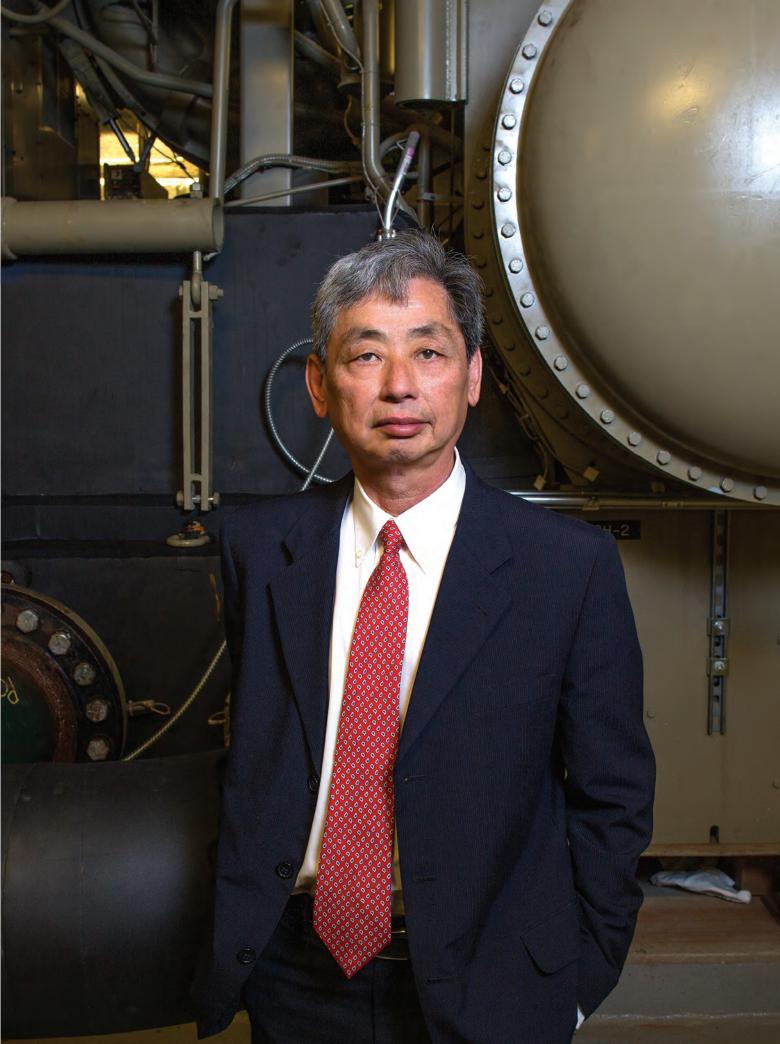
METAL

MASSACHUSETTS GENERAL HOSPITAL HAS SWITCHED TO ALUMINUM AIR HANDLING UNITS FOR ALL OF ITS PROJECTS. DIRECTOR OF UTILITIES AND ENGINEERING TEERACHAI "CHAI" SRISIRIKUL EXPLAINS WHY. BY ERIK CASSANO

teel and water are not a good combination, as any facilities manager who has dealt with steel air-handling units knows. In the summer, the units draw in warm air from the outside. The warm air is passed through cooling coils, which drop the air's temperature to very near its saturation point -the dew point. That's because, much like morning dew on grass, the saturated air leaves a layer of condensation on the internal mechanisms of the air-handling unit. If the unit is made of a metal that oxidizes, such as steel, rust will eat away at it over time, shortening its usable life. In northern climates, during winter, snow and wind batter external portions of the units, causing the same long-term rusting problems.

That's what Teerachai "Chai" Srisirikul, director of utilities and engineering, faced at Partners HealthCare — a Boston-based health care system founded, in part, by Brigham and Women's Hospital and Massachusetts General Hospital. The massive health care system has approximately 450 air handlers providing conditioned air 24 hours a day, every day of the year, to all of the system's buildings. In some cases, replacing a unit can cost well over \$1 million, so Srisirikul is invested in installing units that have a long usable life and a minimal need to be shut down for repair.

"As far as we're concerned, we're in health care, so we're a 24/7 operation," Srisirikul says. "We can't afford to have any equipment shut down for repair. That's why we started taking a look at









other equipment that would provide a longer-term solution. Steel components will typically start to rot out within seven to 10 years, and the unit's usable life is 10 to 15 years."

The advantages of aluminum

Srisirikul had a background in consulting before moving to facility oversight, so when he took over facilities management at Partners, he was aware of the cost savings that come with aluminum air-handling units. And because aluminum doesn't rust, the usable life of an aluminum unit can be more than double that of a steel unit. Srisirikul projects the life of an aluminum unit at 30 to 40 years.

"Any new project that we start, we're putting in aluminum equipment," he says. "Each of our campuses has a different percentage of aluminum units, but overall, I'd say about 40 to 50 percent of our units are now aluminum. We've been installing aluminum units for 17 or 18 years."

Galvanized steel units are what Srisirikul terms commercial grade. They come in assorted predesigned models, and a facility manager must purchase the steel model that best fits the facility's needs — whether it's an exact fit or not.

The aluminum units that Srisirikul purchases are custom built, fitting the space available in the building. For buildings with tight spaces, odd angles or support beams in the way, custom solutions are a must. "When the units can be customized, you can do a lot more things with them," Srisirikul says. "You can have them designed to fit the length of the space where they need to go. If you have a column in the way, you can have them designed to go around the column. The commercial-grade units generally have fixed dimensions, and they might not completely fit your needs in terms of space.

"Basically, you know the space you have to work with and the maximum size of the equipment that can go in the space, and then you go back and work with your manufacturer. It can come up with a solution instead of just selling a product."

Working with your CFO

Custom aluminum units generally cost more than mass-produced steel units, and that price difference has historically been the attraction to steel units. They might not last as long, but the savings look better on the balance sheet in the short term.

When Srisirikul wanted to make the move to aluminum units, he was frank with the system's financial managers about the increased upfront investment but emphasized the long-term cost savings of making the switch.

"You tell the CFO it will cost up to 5 percent more to make the initial purchase, but in the long run, instead of

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"WE'VE BEEN USING AIR
ENTERPRISES FOR MORE THAN
20 YEARS ALREADY, AND THEY
ARE A GOOD COMPANY. THEY
PUT OUT A GOOD PRODUCT, THEY
STAND BEHIND THEIR PRODUCT
AND THEY ASSIST YOU IN THE
TECHNICAL MATTERS."

Chai Srisirikul,
 Director of utilities and engineering,
 Partners HealthCare

having to replace the equipment in 15 years, you'll replace it in 30 years," he says. "The total cost of replacing the equipment can vary, but it usually averages around \$1.5 million including temporary work. So, per unit, you might spend an extra \$50,000 to \$70,000 to make the initial purchase on an aluminum unit, but in the long run, you're saving over \$1 million during the life of the equipment. It's really a no-brainer."

Businesses that opt for steel over aluminum often do so because they feel they can't justify the cost of aluminum units up front and there are too many other things that can be done with that \$50,000 to \$70,000 instead of improving the quality of the air handling units. But if you consider the cost savings of replacing a unit in 30 years instead of 15, aluminum pays for itself several times over during the life of the product.

"If you explain it in those terms, any CFO should get it," Srisirikul says. "They're money people. In the past, you just wanted to stay within the projected budget. Anyone who was consulting a business owner might not explain the benefits of spending the extra short-term money to go a step higher and save more money in the long run."

The savings that result from aluminum units aren't confined to decreased repair and replacement costs. Because the units are custom built and the pieces are made to fit

together within the space allotted, the units are also more airtight than their steel counterparts.

"Because custom aluminum manufacturers can do a better job of the details on a fitting, you see less air leakage than with galvanized steel units," Srisirikul says. "If there is a leak with an air unit, you're losing half a percent to 1 percent of the air volume. With commercial-grade steel, it's more like 1 to 2 percent of air leaking out. For us, that's quite a bit because we're paying for that 24/7 over the life of the equipment."

Improved service and safety

For Srisirikul, deterioration of air-handling equipment isn't primarily an issue of monetary cost, it's an issue of down time. If a unit is down for repair and buildings aren't properly ventilated or kept at a comfortable temperature, patient care can be compromised. That is compounded by the fact that the rust on steel units can serve as a breeding ground for bacteria and other contaminants, which can find their way into the building and increase the risk of infection among the hospital's patient population, some of whom have weakened immune systems.

"When units deteriorate and start leaking, you lose a lot of capacity," Srisirikul says. "That's why down time costs a lot more than the cost of fixing a leak. If the air in a building isn't heated, cooled or conditioned properly, it can compromise patient care. In order to meet code, you have to provide a certain amount of ventilation to a space."

The threat of nonfunctioning units, and the effect that could have on patients, was the primary motivator for Srisirikul to recommend the move to custom-made aluminum units. The initial cost is minimal compared to the long-term savings, and the ability of the health system to provide excellent care to its patients is improved.

"When I first came over to operations, we had a lot of equipment that wasn't in good working condition," he says. "We knew we had the opportunity to do better. That's why we started looking into aluminum units, and ultimately decided to start using them. The equipment costs a bit more, but when you factor in replacement costs and potential down time, the cost is actually minimal." ^



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ALUMINUM VS. STEEL

ALUMINUM AIR ENTERPRISES UNITS:

- The life expectancy of aluminum units is up to 50 years.
- The light weight of aluminum can decrease installation and rigging costs.
- A unit made of aluminum won't oxidize, significantly extending the life of the unit.
- Because units don't rust, there are no contaminants to infiltrate the air system.
- While aluminum units cost more upfront, the life of the unit will provide a significant return on investment, and lower the total of cost of ownership.
- Repairs are needed less often, resulting in less down time.

The heavier weight of steel can increase installation and rigging costs. If the unit is made of a metal that oxidizes, such as steel,

STEEL AIR HANDLING UNITS:

rust will eat away at it over time, shortening its usable life. (Saturated air leaves a layer of condensation on the internal mechanisms of the air-handling unit.)

Steel components will typically begin to rot out in seven to 10 years, with a usable life of 10 to 15 years.

- Rust on steel units can serve as a breeding ground for bacteria and other contaminants, which find their way into the building's air.
- While steel units are typically less expensive, their shorter lifespans and the need for replacement can be a drain on the budget.
- Repairs are needed more often, resulting in extended down time and additional costs.





Aluminum units (left) provide a long life and high return on investment; steel units (right) are short lived and must be replaced more often.

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Heavy duty

ALUMINUM EQUIPMENT CAN WITHSTAND SEVERE OPERATING CONDITIONS

acilities managers whose buildings are subject to harsh environmental conditions face a complicated set of issues when it comes to choosing air handling equipment. Areas such as coastlines, areas of extreme humidity and places where abrasive chemicals are present in the air all create conditions that tend to corrode galvanized steel equipment. In such severe environments, aluminumhoused units can provide the answer.

"From an environmental standpoint, the coastal environment is among the most aggressive that we see and the one that presents the greatest challenges for those dealing with air handling units," says Glenn Swartz, vice president for Air Enterprises. "However, chemical-





laden environments, such as chemical manufacturing facilities where gases and chemicals may be corrosive, also present difficult situations."

The durability and projected lifespan of air handling equipment are important factors to consider for facilities managers whose buildings are subject to harsh conditions. The answer can often be found in buying aluminum equipment instead of steel. Aluminum provides better longevity and, ideally, should be able to last for the lifetime of the building. Units can be designed with the proper configuration to be serviced and maintained by the owner's facilities group.

A few years ago, Air Enterprises worked with Morton's Steakhouse in San Juan, Puerto Rico. The restaurant is located in a beachfront luxury hotel, and the surrounding sea air created a hostile environment for its air handling equipment. The owner had to replace his units, on average, every six years because the environment caused his units to corrode so badly.

"This had a direct negative impact on his customers," says Swartz. "They weren't comfortable in the building because the moisture level was too high."

Downtime was another obstacle the building owner had to consider, as replacing the units disrupted the "THE COASTAL
ENVIRONMENT IS AMONG
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FOR THOSE DEALING WITH
AIR HANDLING UNITS."

 Glenn Swartz, vice president for Air Enterprises

flow of business and the restaurant's revenue stream.

The owner decided to buy a more expensive aluminum unit that would last much longer, as it would not rust in San Juan's salty sea air. Six years later, the unit still looks like it did new, and the owner is no longer experiencing issues.

"It's one less thing he has to worry about, and he's not going to have to replace it again," says Swartz. "That experience is typical of the company's clients."

He says the company has units in Puerto Rico that have been functioning for nearly 30 years, and they are still running.

"It's a tough environment down there, but this equipment is made to handle it," he says.



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Making it work

AIR HANDLING RETROFITS ARE POSSIBLE EVEN ON DIFFICULT SITES

ot all air handling unit installation sites are uniform; some require access to interstitial space, while others require elevator access. Some are rectangular, while others are polygons. Still others need to be built around existing walls, pipes or columns.

However, replacing an air handling unit in what may seem like a difficult or even impossible space is now easier than ever. For example, the University of Texas at Austin Main Building, also known as The Tower, is a 28-story structure with an air handling unit on the 25th floor, immediately below the university president's office. The unit was built on a difficult site behind the clock on the tower, says John Kolar, vice president of business development at Air Enterprises, which installed the unit.

"The Tower is the namesake of the university and is what everyone looks to as the symbol of UT, so the university wanted to make sure the unit was installed without damaging the structure," Kolar says. "There was a 3-by-3-foot elevator to get something the size of a school bus up there. And it's also a main pathway of the campus, so we couldn't have large rigging because of the risk of dropping something on the students below."

The unit was constructed on site with simple rigging and elevator access during the campus's two-week holiday break and was installed by the start of classes.

This example illustrates many of the essential points of retrofitting, Kolar

says. Keep these tips in mind when considering or engaging in retrofitting.

- important for a retrofit because it eliminates costly, disruptive demolition and logistical headaches due to expensive crane or helicopter permits when bringing an alreadybuilt unit to the site. Make sure the unit has the same quality and warranty as a factory-built unit. "It is important that you don't factory build something, take it apart, then put it back together," Kolar says. "When you do that, it is never as good as when it was built the first time, no matter who designed it or put it together."
- **Install a quality product.** A quality unit that is made of aluminum won't rust, rot or corrode. The result is less maintenance, which is especially important on a site with difficult access. Ideally, the unit should last the life of the building; the life expectancy of a modular steel unit is 15 to 20 years, while a custom steel unit is 25 years. An aluminum unit, however, has a life expectancy of 50 years. In addition, ask what kind of seals the company uses and what percentage of leakage it achieves. The industry standard for on-site leakage is 3 to 6 percent, but some companies can achieve 0.5 percent.



- Employ creative solutions. Your air handling unit provider should be able to design for difficult situations, such as the University of Texas tower, with unique processes and creative engineering. There is always a solution, and you shouldn't have to dismantle the building to find it. "When most people think of air handling units, they think of a rectangular box, but it doesn't have to be that way," Kolar says. "Units can be built to fit the space."
- Look at the cost. An aluminum unit may cost more up front, but when compared to energy savings and repair or replacement costs, it saves money in the long run. Also make sure the unit has a lasting warranty.
- Have a single point of contact.
 Choose a company that takes responsibility for the entire project.
 Having multiple contracting entities can result in a blame game when problems arise on site. The company should also have a representative on site supervising the installation.





SEE WHAT UT IS SAYING; VISIT AIRENTERPRISES.COM/UT TO VIEW THEIR VIDEO.



BUILDING THE BEST

DEDICATED EMPLOYEES
ARE THE KEY TO CREATING
QUALITY PRODUCTS

evin Jackson has only been with Air Enterprises for two years, but he envisions a long-term career with the company. He has risen through the ranks to become secondshift shipping lead, in charge of the shipping department during that shift. The department handles all of the company's shipping needs, including ensuring that deliveries are scheduled and ready on time.

We spoke with Jackson about what it's like to work at Air Enterprises and how the dedication of the company's employees helps ensure quality products.

Why did you want to work at Air Enterprises?

It's a good company and provided a good opportunity. It has also been around a long time, for 48 years, and many of the employees have been here 20 and even 30-some years. I think that dedication says a lot about the company.

What do you like most about your job?

I really like the people at Air Enterprises. There isn't anyone here I don't get along with. Everyone has a good work ethic and is always ready to get the job done. There is no naysaying or complaining. Everybody does what they need to do to get the job done and create a quality product. "AIR ENTERPRISES ALWAYS ASKS FOR OUR IDEAS AND SOLUTIONS. WE CALL IT BOTTOM-UP THINKING."

- Kevin Jackson



What do you think sets Air Enterprises apart from other companies?

The way they treat their employees is definitely new to me, and something I hadn't seen at other companies I worked for. At Air Enterprises, if you show hard work and diligence, they will recognize it. There is opportunity for advancement, and they offer paid time off when you need it.

They are also upfront, honest and open. They encourage us to ask questions, and if they don't know the answer, they'll get it for us. They keep us informed. We have monthly company meetings to go over the company's finances, including losses and gains. We also have weekly meetings where we go over safety goals and daily meetings where we think of ways we can improve. Air Enterprises always asks for our ideas and solutions. We call it bottom-up thinking.

What is the workplace atmosphere like at Air Enterprises?

Everybody is dedicated to working together to get the job done. Nobody holds up the process. If I tell my

employees to get something done, they do it immediately. If we need help from another department, people often drop what they're doing to help, even the guys who have been here for 20 or 30 years.

Communication is big on the shop floor. If there's a problem within a department, we work together to fix it. If the problem involves multiple departments, we get together to discuss it and set up a game plan.

How do you think the employee dedication you described translates to a better quality product?

First of all, Air Enterprises employees are proud of the way the company treats us. Even though the company went through hard times during the recession, it kept as many employees as possible. And when Bill Weber took over, he brought a lot of employees back.

We're also proud of our product. It's No. 1. We know we produce a quality product, and we want to ensure that we continue to produce a quality product. When you have a group working the best it is able, the product will definitely be the best it can be.

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SMART INVESTMENT



hen facility managers are considering the purchase of air handling equipment, they face the choice of a modular unit versus a custom-designed unit. And when making that decision, there are several factors to weigh, including serviceability, durability and cost.

"With custom designs, the unit is designed specifically to fit the space and the application requirements of a particular business," says Val Fenti, northeast regional sales manager for Air Enterprises. "A modular unit typically requires the customer to modify the space where the unit will be located in order to suit the equipment and serve the application."

Space to service air handling parts such as motors, fans and coils is also required, so when making choices, the facilities manager must assess how much room will be available to work in the area in which the unit will be housed.

Fenti cites a recent client example. About a year ago, Air Enterprises sold a custom unit to a company that had also considered a modular unit. The modular unit it was considering was 12 feet wide and 7½ feet high, dimensions that would have left very little space in the room to service the unit. But the room had a high ceiling, so Air Enterprises offered to create a custom unit that was 8 feet wide and 11 feet high, gaining the company 4 feet of space to service the equipment. But there was an additional complication in that the equipment would have to be brought in through an 8-foot-tall doorway. Air Enterprises overcame this impediment by bringing in the unit in 3-foot sections and field-building it.

Because the custom price was close to the price of the modular unit, the owner agreed to the purchase.

"He said, 'If I can gain 4 feet in service space, I'll pay the extra 10 percent," Fenti says.

When making a purchase, facilities managers must also consider the durability of an air handling unit. Modular units are typically made of galvanized steel and last an average of 20 years before rust starts to take its toll. Custom units made of aluminum, which is more durable and lasts 40 to 50 years, mitigate the need for replacement.

"I'm working on a job right now where the equipment is going to be buried in the center of the building," Fenti says. "The passageways to get it in are narrow; the doors are 3 to 4 feet wide and $7\frac{1}{2}$ feet high. To install equipment in there and then have to replace it in 20 years would be very disruptive, and the owner would basically have to shut down the facility just to change out the air handling equipment."

While custom units are typically priced higher than modular units, they often are able to make up the difference within a few years because they are more energy efficient. Fenti says that Air Enterprises was contacted about a year and a half ago by a large manufacturer that had been leaning toward going the less-expensive route and installing a modular unit. However, it was willing to consider a custom unit.

"We showed them that, even though our price was 40 percent higher, their payback would be less than three years because they would save 20 percent in energy costs compared to the modular unit, and they would be getting a unit that was all aluminum, versus galvanized steel."

In the end, it was an easy choice, and Air Enterprises landed the order. \wedge



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