



A **NIBE** GROUP MEMBER



# A WORLDWIDE STUDY IN SUCCESSFUL FAN COIL SOLUTIONS

IEC is the industry leader in hydronic fan coil solutions. In addition to the most comprehensive standard product offering available, we have the ability to adapt our design and manufacturing processes to deliver the perfect solution to your specific needs. Put your project into our hands, and build your reputation on ours.

### IEC... A Worldwide Study in Successful Fan Coil Solutions



Twelve Atlanta Station,  
Atlanta, GA



Trump International,  
New York City, NY



Statue of Liberty,  
New York City, NY



Bellagio,  
Las Vegas, NV

Each IEC product is designed and manufactured to deliver precise comfort, efficiency and, perhaps most important, peace of mind.

IEC is a highly flexible company where innovative ideas and out-of-the-box thinking flourish. As an IEC client, you will have the distinct advantage of working with highly skilled, team-oriented professionals with clear and concise direction. IEC is focused on meeting your project's needs, and is supported by continual investment in the most advanced manufacturing technologies.

#### Focused On Your Needs

For over half a century, IEC has successfully designed and provided systems for thousands of the most highly recognized projects in the world. From hotels, office towers and hi-rise condominiums, to schools, universities and medical facilities, IEC has provided solutions for virtually every building-type imaginable, for both new construction and renovation.

IEC has attained the position of industry leader by understanding the technical, physical and diverse environmental needs of living and working spaces. We know that each building and the areas designed within are unique and require specific comfort solutions.

This knowledge drives the entire IEC organization, from engineering and design through manufacturing, to provide an efficient and competitive platform to consistently deliver the types of solutions that are custom-tailored to your specific application.

#### IEC takes a team approach to develop your fan coil, cabinet heater and terminal unit solutions.



Higher Education



K-12 Education



Hospitality



Multi-family Residential



Office



Government



Healthcare

### Commercial Fan Coil Applications



**Working Environments.** For office, educational, healthcare or hospitality environments, IEC products and solutions deliver peace-of-mind features such as ease of installation and startup; quiet and dependable comfort; high efficiency; and simple maintenance.

We realize that our reputation is based on our commitment to continuously improve our products and customer service.

### Residential Fan Coil Applications



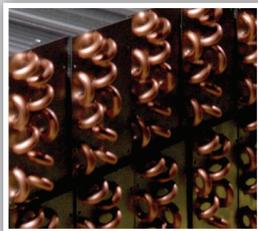
**Living Environments.** As architects and interior designers continue to push the aesthetic envelope within high-end residential spaces, the desire for precise and reliable comfort becomes more important. And in most, if not all these dynamic environments, the preference is to have that comfort felt, not seen or heard.

This is what drives the design and manufacturing engineers at IEC. We ensure that each product adheres to stringent sound and energy efficiency criteria.

### Your Designs are Only the Beginning...



Roll of Steel



Coils



Blower Wheels



Motors

When you choose IEC to design and produce your fan coil solutions, you get more than just a supplier. Much more. You get a synchronized team of industry experts focused on you ... creating job-specific products that will successfully meet all your application's criteria. This direct access to the industry's leading design, engineering and manufacturing professionals ensures that every step of the process, from initial concept through installation and commissioning, goes smoothly and effortlessly. Our attention to detail allows you to focus on other aspects of your project with the security of knowing you've partnered with the best possible climate control specialist ... IEC.

### Engineering Expertise

By assembling the industry's most knowledgeable HVAC designers, system sales experts and manufacturing engineers, IEC is perfectly positioned to take your project from initial concept through installation and startup. Our approach begins by working with you to define your fan coil's physical and operational requirements specific to each space. From there, we address each unit's aesthetic elements such as materials and finish. Once your units are manufactured, tested and packaged for shipment, we coordinate delivery with your project's on-site field personnel.

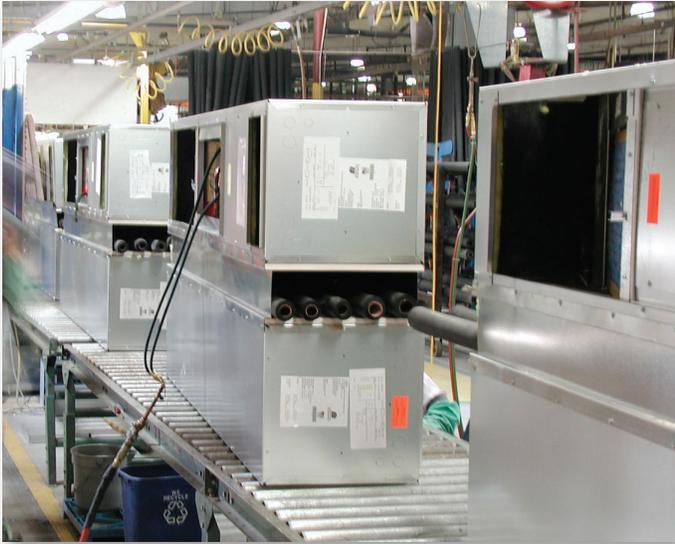
Having this 360° view and knowing precisely how and when IEC's products will arrive at your project's location, gives you the peace of mind and security that comes from selecting a world-class organization that keeps your project's needs the number one priority.

At IEC, you're always in control... from design through commissioning.



IEC's state-of-the-art engineering facilities in Oklahoma City, OK, are designed to efficiently produce the entire breadth of our product line.

### Manufacturing Excellence



IEC's manufacturing process actually starts with state-of-the-art computer aided design (CAD) of units and component parts. Our manufacturing facility contains advanced CNC equipment featuring punch/shear technology, as well as the latest in fiber laser and CO2 technology. This ensures we deliver precision, speed and agility in completing your orders on time, with the highest quality possible. Our lean manufacturing processes and PPS (practical problem solving) ensure we provide quick, reliable and sustainable solutions in response to your specific needs. IEC prides itself on its abilities to custom fabricate units that will meet our customer's unique applications. Our team-based quality initiatives and continuous design and process improvements ensure that you will receive exceptional products and unparalleled customer service.

### Support Tools



In addition to our in-house application team, IEC offers you a complete family of advanced support tools created to easily select and configure your units. Our website, [www.iec-okc.com](http://www.iec-okc.com), contains a wealth of real time product updates and application information specific to your needs. Our comprehensive technical literature covers our entire product line. User-friendly fan coil rating configuration software, along with IEC's local representative expertise help to make your design and selection process go smoothly and efficiently.

### IEC Fan Coils... Perfect for Commercial Applications



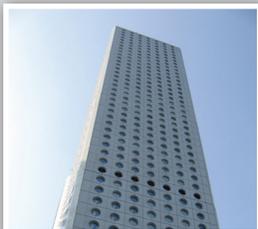
Tribune Tower,  
Chicago, IL



Eisenhower Executive  
Office Building,  
Washington DC



United Nations  
Headquarters,  
New York City, NY



Jardine House,  
Hong Kong

### Creating Precise and Efficient Comfort

Although today's commercial environments are as varied as the tenants and markets they serve, the common denominators that define a building's long-term success are comfort and efficiency. Recent studies have shown that lack of personal comfort is the number one reason for tenants to seek alternative space. IEC products provide individual comfort through quiet operation, and zoned temperature and humidity control. Our attention to indoor air quality offers multiple features including filtration options and outside air ventilation. As today's energy climate grows more uncertain, hydronic fan coils remain one of the most efficient operating system on the market and IEC fan coil products address energy usage and many other concerns for building developers, owners and managers.

### Design Flexibility

To meet the specific needs of both new construction and retrofit projects, IEC offers the most comprehensive range of hydronic-based fan coil, cabinet heater and controls solutions. This is why architects, consulting/specifying engineers, design/build contractors, as well as building owners and managers rely on IEC to deliver the most advanced fan coil systems available.

Because each commercial space is unique, our products are custom designed and engineered to solve critical issues such as comfort, precise space control, operating efficiency, acoustics, aesthetics and space constraints. Regardless of the size of space or project, IEC will deliver the best solution.

### IEC products help create productive commercial environments.



MPY

**IEC offers you the industry's most advanced fan coil, cabinet heater and controls solutions designed to meet the unique application needs found within commercial buildings.**

### Indoor Air Quality



It's well documented that improving the indoor air quality (IAQ) of a building will contribute to improved health, increased productivity and wellbeing. Precise occupant comfort and enhanced indoor air quality can be controlled with IEC's Fan Powered Terminal Unit: When indoor air CO2 levels reach a specified level, demand calls for preconditioned outdoor air to be mixed with the return air to obtain the desired comfort level required.



Bipolar Ionizer - promoting IAQ

### Efficiency x 3



Efficiency has three meanings at IEC. First, IEC's products are designed to be one of the most energy efficient available today.

Second is our installation efficiency. Our products are specifically designed to save time during installation and startup, which directly translates into cost savings for customers.

Finally is our product's maintenance efficiency. IEC fan coils are engineered and manufactured to ensure that each installation has minimal servicing requirements.



CPY Removable Drain Pan

### IEC Fan Coils... Perfect for Hospitality, Condominiums and Hi-Rise Apartment Applications



Hyatt Regency,  
Long Beach, CA



Westin Rio Mar,  
Puerto Rico



The Skirvin Hotel,  
Oklahoma City, OK



Cristalla,  
Seattle, WA

Luxury hotel guests and condominium owners around the world expect precise and silent year round temperature and humidity control. Hotel and building owners and managers simply cannot compromise when it comes to sound or comfort. That's why high-end hotel rooms and condominiums on nearly every continent are currently cooled and/or heated by IEC fan coils.

#### Multiple Concerns, One Solution

The fan coil products that we manufacture for hi-rise applications are designed to address many issues beyond sound and comfort.

Installation costs of our Modular Fan Coil Series can be significantly less than competing systems due to the advanced technology IEC uses to customize the unit for your application, customize the packaging for your job site conditions, and individualize the shipping schedule.

Aesthetics play an important role in the appearance of any room. For this reason, IEC fan coils come in a variety of attractive and minimally-invasive configurations designed to blend seamlessly into a variety of architectural styles.

IEC is a partner in your building project. Leverage our experience and expertise to improve your bottom line.



MRY

MIY

Luxury living is enhanced with the precise comfort control of IEC fan coils.



IEC products can be configured to your exact specifications with the highest quality materials, components and finishes.

### Performance and Reliability



All IEC products are designed, manufactured and tested to deliver consistent, efficient and reliable comfort year after year. Regardless of your application requirements, IEC will deliver the best solution backed by the highest level of customer service and support.

### Living in Comfort



Internationally-recognized luxury hotel and residential developers continue to rely on IEC to design and deliver innovative fan coil products for their installations. This is a responsibility that all of us at IEC take very seriously. No matter the project size, all our customers enjoy the same level of commitment and service.



MXV



CHV

### IEC Fan Coils... Perfect for Educational Applications



Our experience with educational buildings runs the full gamut of classroom settings. From pre-school through elementary, middle through high school, and university campus settings, IEC products are optimum. Our fan coils and cabinet heaters are specified because of their reliable performance, low sound and operating efficiency, year after year. Students working in poorly ventilated or uncomfortable buildings tend to have shorter attention spans, lower productivity levels and increased health issues. IEC products are designed to help optimize the learning experience by contributing to a clean, climate-controlled environment.



LXA

### No Two Classrooms are Alike

For educational environments throughout the world, school systems rely on IEC products to provide healthy, quiet and comfortable conditions.



GSY

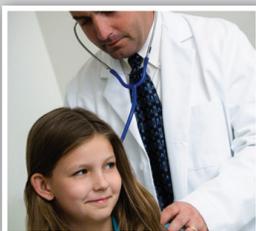
We know the last thing students, teachers and staff need to worry about is the comfort of their learning environments. The function of any room can affect its comfort level, from a computer lab generating heat, to the science lab's humidity and IAQ issues. Our engineering and design group will analyze the specific requirements for each need and make efficient and precise equipment recommendations.

### IEC products can help provide a positive classroom environment.



Performance characteristics such as sound attenuation, precise comfort control and energy efficiency make IEC fan coils the perfect choice for educational environments.

## IEC Fan Coils... Perfect for Healthcare Applications



Nowhere is the requirement for precise temperature and humidity control, energy efficiency and quiet operation more important than in today's medical complexes, assisted living facilities and long-term care settings. The design engineers at IEC fully understand the unique characteristics found in such varied environments and we offer a comprehensive product line ideal for these applications.

With features such as sound-attenuating insulation panels, powder-coated and baked exterior panels, and easily accessible components, IEC fan coil products provide the solutions ideally suited to these facilities.

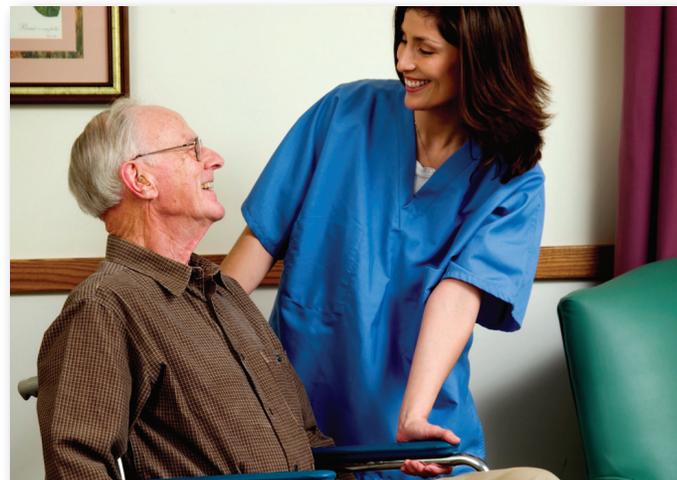
### IEC... the Right Prescription for Comfort

When you partner with IEC for your next fan coil project, you will have the advantage of the industry's most experienced professionals making the best equipment recommendations. First, we analyze each room's specific comfort and operating requirements, and then we engineer the system to best meet those precise needs.

Whether your project calls for concealed or minimal footprint in-room units, IEC fan coils provide reduced installation and related materials costs, high performance comfort and energy efficient operation.

For the level of comfort, operating efficiency and reliability that are required for these unique settings, contact IEC.

Let the IEC professionals help you select the perfect product and features..



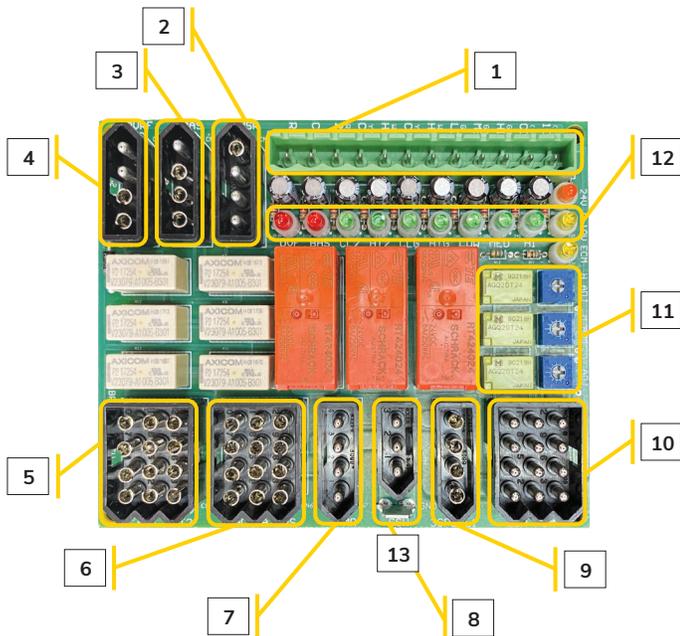
**A broad range of healthcare-oriented fan coil products makes IEC the perfect choice for today's in-room and medical facility applications.**

### Controls Solutions

IEC offers a full range of controls solutions for fan coils, cabinet heaters and terminal units.

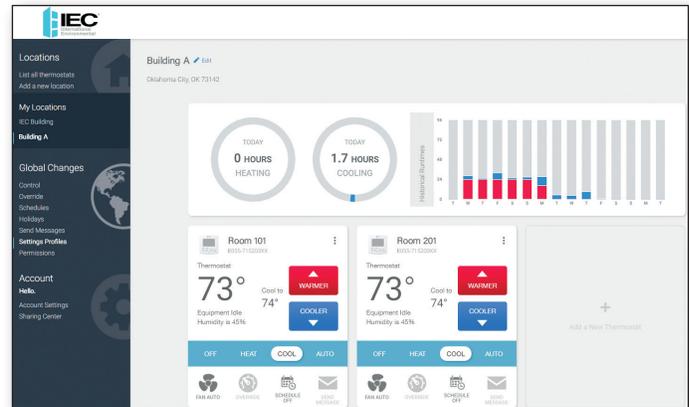
The 85 Control Board provides simplified install and service with its plug-in connections and QR code for quick wiring diagram reference and after market parts.

The board also offers LED diagnostics and built-in design flexibility for added features such as staged cooling or BAS signal input. The 85 Control Board is available with most controls schemes.



1	Pluggable T-Stat Connector
2	Changeover/Return Air Sensor (CN2)
3	Remote Shutdown Input (CN3)
4	Overflow Switch (CN4)
5	Two Stage Cooling (CN5)
6	Actuator & Aquastat (CN6)
7	Transformer (CN7)
8	Line Service Voltage (CN8)
9	PSC Motor Connection (CN9)
10	ECM Connection (CN10)
11	ECM Fan Speed Adjustment
12	LED Indication(s)
13	Ground Connection

### Connected and Communicating



Our advanced controls solutions offer our customers the ability to connect and remotely control IEC products. The 85 Control Board allows seamless connection to existing Building Management systems through the BAS input.

IEC offers a wide range of thermostat controls. Building owners, facilities management, contractors and end users have the ability to remotely control a single or group of IEC products through Wi-Fi with the Venture Wi-Fi Programmable Thermostat.



## Aftermarket Parts

IEC's units are carefully engineered with precise component combinations to optimize unit performance and ensure the best comfort, energy efficiency and indoor air quality with the lowest sound levels.

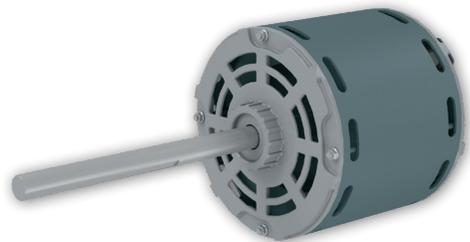
When there is a need for a routine unit maintenance or part replacement, genuine OEM parts from IEC are the only authorized-by-IEC source to fulfill most customer demands.

Why use genuine IEC OEM fan coil parts?

- Ease of installation - exact drop-in replacement
- Guaranteed reliability and exceptional factory support
- Safe system operation
- Retain published system efficiencies and AHRI ratings and certification
- Preserve critical sound level and sound quality requirements
- Re-establish unit's original performance
- Maintain ETL certification

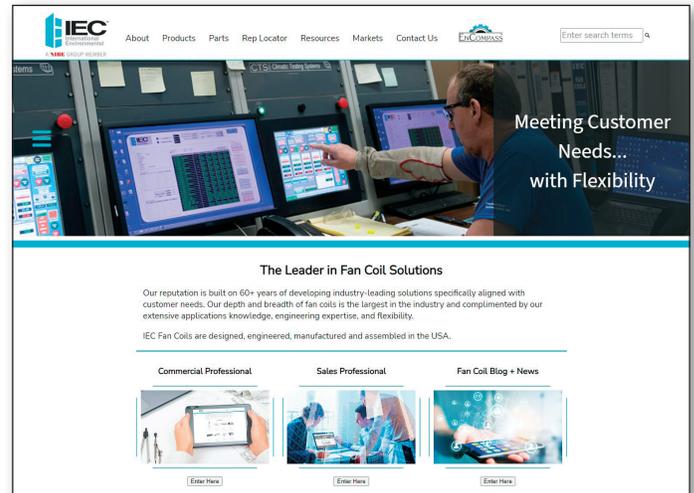


Taco Control Valve & Actuator



EC Motor

## IEC Website



IEC now provides Reps with complete technical information and customer support teams. Visit [www.iec-okc.com](http://www.iec-okc.com) for upcoming events, new product releases, literature and aftermarket parts.



DBY



FHA

## IEC Fan Coils... Perfect for Your Applications

### Modular Hi-Rise Series

- Six basic models with multiple configurations for concealed or exposed applications
- Sizes from 300 – 2000 CFM
- Single and DITTO® units



MPY  
Modular Concealed Series  
300 CFM to 1200 CFM



MUJ  
Universal Modular Series  
300 CFM to 1200 CFM



MXY  
Modular Cabinet Series  
300 CFM to 1200 CFM



MGY  
Mega Modular Series  
1400 CFM to 2000 CFM



MAY/MBY - Fire Rated  
DITTO® Modular  
Concealed Series  
300 CFM to 1200 CFM



MRY  
*ReStorAMOD*® Series  
300 CFM to 1200 CFM



MMY/MSY  
Primary/Secondary  
Modular Cabinet Series  
300 CFM to 1200 CFM



MIY  
*MINI ReStorAMOD*® Series  
380 CFM

### Vertical Series

- Floor mounted for concealed or exposed applications
- Seven sizes from 200 – 1200 CFM
- Lowboy Units: Four sizes from 200 – 600 CFM
- Wall Recessed Units: STY/130 CFM, STW/275 CFM



FXA  
Vertical Cabinet  
Series



LXA/LXW  
Vertical Lowboy  
Cabinet Series



FSA  
Vertical Slope-Top  
Cabinet Series



LHA/LHW  
Vertical Lowboy  
Hideaway Series



FHA  
Vertical Hideaway  
Series



STY/STW  
Vertical Recessed  
Cabinet Series

Most IEC products shown here can be configured in any of the following:

- 2-pipe Cooling
- 2-pipe Heating
- 2-pipe Cooling with Electric Heat
- 4-pipe Cooling and Heating
- SureFlow®

For detailed performance, technical and installation information for any of our products, contact your IEC sales representative today.

With the industry's widest range of fan coil and cabinet heater products containing the most popular features and the ability to customize for your specific needs, IEC is the perfect choice for your next project.

### Horizontal Series

- Four styles for concealed or exposed ceiling applications
- Seven sizes from 200 – 1200 CFM
- With and without return-air plenums



CHY  
Horizontal Hideaway  
Series



CPY  
Horizontal Hideaway  
with Plenum Series



CXB  
Horizontal Cabinet  
Series



CBY  
Horizontal Telescoping  
Hideaway Series

### Hi-Performance Series

- For concealed or exposed applications
- Eight sizes from 600 – 2000 CFM
- Horizontal and Vertical configurations



HHY  
Hi-Performance  
Hideaway Series



HPY  
Hi-Performance  
Hideaway with  
Plenum Series



HLY  
Hi-Performance Cabinet  
Series, Low Static



HXY  
Hi-Performance  
Horizontal Cased Series,  
High Static



VEY  
Hi-Performance  
Vertical Cased Series

### Belt Drive Series

- Eight sizes from 600 – 4000 CFM
- Horizontal and Vertical configurations
- Single and Double Wall Construction



VBA  
Belt Drive  
Vertical Series



HBD  
Belt Drive  
Horizontal Series

### Direct Drive Series

- Eight sizes from 600 – 3000 CFM
- Horizontal configurations
- Standard EC motor
- Single and Double Wall Construction



HDY  
Direct Drive  
Horizontal Series



VDY  
Direct Drive  
Vertical Series

### Cabinet Heater Series

- For Horizontal or Vertical Exposed or Recessed applications
- Seven sizes from 200 – 1200 CFM
- Hydronic Heat or Electric Heat Only applications



GHY  
Vertical Hideaway  
Series



GSY  
Vertical Slope Top  
Exposed Series



DXY  
Horizontal Exposed  
Cabinet Series



GXY  
Vertical Flat Top  
Exposed Series



DBY  
Horizontal Telescoping  
Hideaway Series

# Valve Packages & Piping Components

## BROCHURE

# SureFlow™

### SureFlow®

SureFlow® provides new construction and renovation applications with a simplified design and installation process that delivers a viable alternative to PTAC's, rooftops and other DX systems.

SureFlow is a self-balancing system that eliminates the need for control valves, uses less pipe (2 pipes provide 4-pipe performance) and fewer fittings. This results in simpler and lower cost installations that are self-commissioning and use less energy.

SureFlow Rating Program, the SureFlow Loop Simulator software, and the SureFlow Certified Sales Engineer Program give the designer the training and support needed to ensure the selected equipment meets the project requirements.

SureFlow provides the designer with the flexibility to accommodate future changes in zoning or expansion.



Contact your local IEC Sales Representative for further details and pricing applicable to this product. Visit our website ([iec-okc.com](http://iec-okc.com)) to find your local IEC Sales Rep.

IEC Part Number: I100-90002101  
BR-120 Revision 12.1 (08/2022)

©1990-2022 International Environmental Corporation (IEC)



5000 W. I-40 Service Rd.  
Oklahoma City, OK 73128  
P: 405.605.5000  
F: 405.605.5001  
[www.iec-okc.com](http://www.iec-okc.com)