Keeping Industry Safe for the World

Safe AIR Technology

Manufacturers of Explosion Proof, Corrosion Resistant and Severe Duty HVAC/R Systems, and Pressurization Equipment.

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Safe Air Technology specializes in the engineering and manufacturing of Explosion Proof, Corrosion Resistant HVAC/R systems, and Pressurization Equipment. Our explosion proof, severe duty systems are designed to offer a safe solution at a competitive price while maintaining the highest level of quality in both our systems and services.

Safe Air Technology has provided systems of all sizes throughout the world for refineries, chemical plants, offshore platforms, drill ships, FPSO vessels as well as other facilities. Safe Air Technology provides outstanding turn key solutions for the petrochemical market. From explosion proof air conditioners, air filtration systems and pressurization equipment. We have the engineering expertise and production capability to provide turn key solutions for your projects of all sizes. Throughout the world, our explosion proof HVAC solutions are used by some of the leaders in the petrochemical industry. We offer our products, service and support to organizations around the globe so you can focus on production. Our explosion proof HVAC systems give you peace of mind and superior safety through quality engineering and materials.

Safe Air Technology fully understands your explosion proof HVAC needs are continuously changing. By forging and building a relationship with you, we can continue to provide systems that will meet your needs now and in the future.

Safe Air Technology's Headquarters is located in Baton Rouge, La and has offices around the world for efficient communication as well as immediate dispatch to your location when needed.

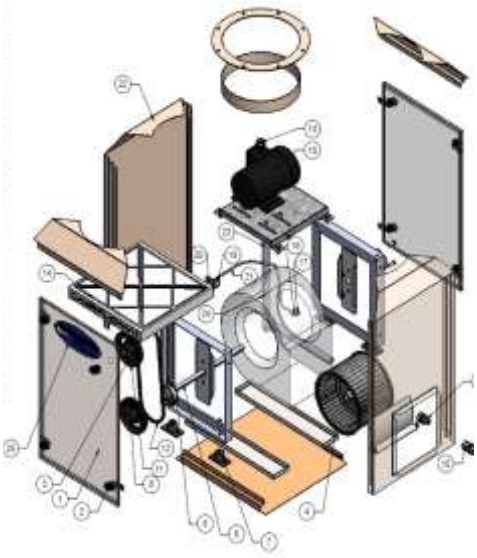
Severe Duty Design for:

- Chemical Plants and Refineries
- Offshore Platforms
- Gas Plants and Pipelines
- Corrosive and Hazardous Storage Facilities
- Paint Room
- Ammunition Facilities
- Fuel Transfer Docks
- Highly Corrosive Environments

Safe Air Technology has a Staff of Professional Engineers to support your project.

Severe Duty and Explosion Proof HVAC and pressurization systems that can perform safety and reliably within a hazardous and corrosive location begin with experienced and quality engineering. Our professional engineering department has completed projects for both onshore and offshore in more than 30 countries around the world.

On the front end of the project, our team can assist with computerized load calculations, building and site surveys, building modeling and leak testing to help assure our customers that the unit designed and built by Safe Air Technology is the correct solution.



Safe Air Technology uses 3D design software so the customer can clearly understand the piece of equipment they are purchasing.

Our professional engineering team will begin by reviewing your specifications in order to help determine the equipment design needed. All systems are fully tested for both operational performance and compliance to explosion proof codes as requested. Our professional engineering department is well versed and experienced in the specific codes and standards within the petrochemical market such as: ABS , NEC, IEC, ATEX, USCG, IEEE, and NFPA to name a few.

Procurement / Production / Assembly / Testing and Quality Assurance

With Over 40,000 Square feet of production space Safe Air Technology has the ability to handle projects of any size. All materials once approved by the quality control officer are brought together in our assembly locations and assembled by highly skilled and trained personal for Safe Air Technology.

With systems installed in more than 30 countries around the world all projects undergo our D.E.Q.P. Certification Program. All phases of the project are confirmed in compliance by our professional engineering staff. All Documentation, Engineering, Quality Control and Production of the equipment are certified by our professional engineering department and the documentation issued to our clients for the records.

With this time proven and tested method, Safe air Technology is able to supply our systems to the four corners of the Globe knowing that each system is certified for Quality, Performance and Safety meeting all local, national and international standards for our clients.

Installation / Commissioning / Training and Service

With procurement of equipment or services from Safe Air Technology, we can offer experienced and professional teams for onsite services and support of your projects on a global scale. Our field service teams travels worldwide to perform many services for our clients. Some are listed below.

- HVAC/R Field Engineering Services and Design Work
- Building Modeling and Computer Based Load Calculations
- Complete HVAC Performance Testing and Certification
- N.F.P.A. 496 Code Compliance Testing (National Fire Protection Agency)
- Building Pressure Testing and Certification
- Air Surveys and Air Balancing Testing and Certification

No matter the location of your project, our support teams can be dispatched globally to your location to assess your project requirements and equipment in order to evaluate whether any repairs or replacements are needed. Additionally for all systems Safe Air technology offers a full training program detailed around your section to assist with maintaining and operating the systems. We offer remote monitoring of the equipment as an option on selected systems.

Please contact Safe Air Technology to set a meeting in order to discuss your projects for specialized explosion proof HVAC systems at the beginning stages. We would be happy to have our professional engineers work with you in order to help you throughout the process of developing a specification to fit your custom needs.

Safe Air Technology Explosion Proof Products

Specialized Explosion Proof HVAC/R and Industrial Grade Systems to comply with Our Clients Specifications

Offering both Fully Custom and Standard Products Tested for Operational Performance and Certified for use in Hazardous Locations

Welcome to the Safe Air Technology products page; please select from the categories below to view the standard explosion proof solutions offered. Should your project specifications require a custom design please contact one of our Sales Engineers for assistance. Remember, our keys to success are: Quality, Pricing, and On-Time Delivery!

Our systems are designed to offer a safe solution at a competitive price while maintaining the highest level of quality in both our systems and services. Our in-house Professional Engineering and Manufacturing departments have more than 60 years of experience in designing and manufacturing quality industrial HVAC units and explosion proof HVAC systems that comply with both N.E.C. and I.E.C. codes. Our quality control department provides certified documentation for all projects for code compliance, system performance, and quality assurance.

Safe Air Technology fully understands that your needs of today can change quickly. By working together and building our relationship we can continue to meet your needs not only today, but well into the future. We look forward to working with you and in building our relationship.

Window / Thru-Wall Units

Safe Air Technology offers a variety of **Explosion Proof Window / Thru-wall Units**. These systems range from a standard designs, to fully custom designs with capacities ranging from 6,000 to 36,000 BTU/HR with many options available.

WCSK Series Window / Thru-Wall Unit

- Division II and Zone II in Condenser and/or Evaporator
- 5,500 to 36,000 BTU/HR Cooling Capacity
- 60 & 50 Hertz Models

HK Series Window / Thru-Wall Unit

- Division I and Zone I
- 7,500 to 36,000 BTU/HR Cooling Capacity
- 60 & 50 Hertz Models

WHP Series Window / Thru-Wall Unit

- Division II and Zone II in Condenser and/or Evaporator
- 5,500 to 36,000 BTU/HR Cooling Capacity
- Heat Pump System
- 60 & 50 Hertz Models

WCEH Series Window / Thru-Wall Unit

- Division II and Zone II in Condenser and/or Evaporator
- 5,500 to 36,000 BTU/HR Cooling Capacity
- Electric Heat Installed
- 60 & 50 Hertz Models

Root Top Units

Safe Air Technology offers a variety of **Explosion Proof Rooftop Units.** These systems range from modified commercial grade systems to fully custom designs with capacities ranging from 1 to 3 Tons with many options available.

RT-XPC Series Roof Top Unit

- Division II and Zone II in Condenser and/or Evaporator
- 13,500 and 15,000 BTU/HR Cooling Capacity
- 60 & 50 Hertz Models
- CSA Third Party Certified

RTXP1 Series Roof Top Unit

- Division 1 and Zone 1 Condenser Section, General Purpose Evaporator Section
- 13,500 and 15,000 BTU/HR Cooling Capacity
- Electric Heat Installed
- 60 & 50 Hertz Models
- CSA Third Party Certified

RK-XPC Series Roof Top Unit

- Division 1 and Zone 1
- 13,500 and 15,000 BTU/HR Cooling Capacity
- 60 & 50 Hertz Models

RTXP2Series Roof Top Unit

- Division I or II & Zone II or II in Condenser and/or Evaporator
- 15,000 to 36,000 BTU/HR Cooling Capacity
- 60 & 50 Hertz Models

Vertical / Wall Mounted Units

Safe Air Technology offers a variety of **Explosion Proof Vertical Package Units**. These systems range from modified commercial grade systems to fully custom designs with capacities ranging from 1 to over 25 Tons with many options available.

VAC1 Series Vertical Wall Mounted Unit

- Division II and Zone II in Condenser
- 12,000 to 72,000 BTU/HR Cooling Capacity
- 60 & 50 Hertz Models
- CSA Third Party Certified

VAC Series Vertical Wall Mounted Unit

- Division I or II & Zone I or II in Condenser and/or Evaporator
- 12,000 to 72,000 BTU/HR Cooling Capacity
- Electric Heat Available
- 60 & 50 Hertz Models

VPAC Series Custom Vertical Wall Mounted Unit

- Division I or II & Zone I or II in Condenser and/or Evaporator
- 3 to 35 Tons Cooling Capacity
- 60 & 50 Hertz Models

Packaged Units

Safe Air Technology offers a variety of **Explosion Proof Package Units**. These systems range from modified commercial grade systems to fully custom designs with capacities ranging from 1 to over 200 Tons with many options available.

PAC Series Packaged Units

- Division I or II & Zone I or II in Condenser and/or Evaporator
- 1 to 200 Tons Cooling Capacity
- 60 & 50 Hertz Models

Pressurization Units

Safe Air Technology offers a variety of **Explosion Proof Pressure Blowers**. These systems range from 1300 to 20,000 + CFMs and are available in multiple configurations including: base mounted, wall mounted, and roof mounted designs. These systems are available with custom chemical filtration as well as many other options.

PB-XPC Series Explosion Proof Pressurization Blower

- Division I or II & Zone I or II
- NFPA 496 Compliant
- 1300 to 20,000 CFM AIR FLOW RATE
- 60 & 50 Hertz Models

Air Conditioning & Pressurization Units

Safe Air Technology offers our combination **Air Conditioning system with Room Purge and Pressurization system**. These combination systems are offered in a variety of standard designs as well as fully custom, including Wall-Mount and Roof or Skid Mounted designs. The capacities range from 1 to over 200 Tons with many options available.

VACPB1 Series Vertical Wall Mounted with Pressurization Unit

- Division II and Zone II
- NFPA 496 Compliant
- 12,000 to 72,000 BTU/HR Cooling Capacity
- Pressurization System Incorporated
- 60 & 50 Hertz Models
- CSA Third Party Certified

PACPB Series Packaged A/C and Room Pressurization Unit

- Division I or II & Zone I or II in Condenser and/or Evaporator
- NFPA 496 Compliant
- 1 to 200 Tons Cooling Capacity
- Pressurization System Incorporated
- 60 & 50 Hertz Models

VPACPB Series Custom Vertical Wall Mounted Pressurization Unit

- Division I or II & Zone II or II in Condenser and/or Evaporator
- NFPA 496 Compliant
- 3 to 35 Tons Cooling Capacity
- Pressurization System Incorporated
- 60 & 50 Hertz Models

Condensing Units

Safe Air Technology offers a variety of **Explosion Proof Condensing Units**. These systems range from modified commercial grade systems to fully custom designs with capacities ranging from 1 to over 200 Tons with many options available.

CU-MS Series MiniSplit Condensing Unit

- Division I or II & Zone I or II
- 6,000 to 60,000 BTU/HR Cooling Capacity
- 60 & 50 Hertz Models

CU Series Condensing Unit

- Division I or II & Zone I or II
- 1 to 200 Tons Cooling Capacity
- 60 & 50 Hertz Models

Thermostats

Safe Air Technology offers a variety of **Explosion Proof Thermostats/Humidistats**. These thermostats/humidistats range from a standard designs, to fully custom designs with many options available.

TSXP Series Explosion Proof Thermostat

- Division I or II & Zone I or II
- Line voltage and control voltage models available

Air Handling Units

Safe Air Technology offers a variety of **Explosion Proof Air Handling Units.** These systems range from modified commercial grade systems to fully custom designs with capacities ranging from 1 to over 200 Tons with many options available.

AH-HW- Series MiniSplit Air Handling Unit

- Division I or II & Zone I or II
- 0.5 to 5 Tons Cooling Capacity
- 60 & 50 Hertz Models

AH-XPC Series Air Handler Unit

- Division I or II & Zone I or II
- 1 to 200 Tons Cooling Capacity
- 60 & 50 Hertz Models

Exhaust Blowers

Safe Air Technology offers a variety of **Explosion Proof Exhaust Blowers**. These systems range from 100 to 10,000 CFM and are available in both roof and wall mounted designs with many options available.

EXBLR-XPC Series Exhaust Blower

- Division I or II & Zone I or II
- 100 to 10,000 CFM AIR FLOW RATE
- 60 & 50 Hertz Models

Low Temp Units

Safe Air Technology offers a variety of **Explosion Proof Unit Coolers** for low temperature and medium temperature applications. These systems range from modified commercial grade systems to fully custom systems that fully comply with your specifications.

UC-XPC MED / LOW Temp Air Handler

- Division I or II & Zone II or II
- Low Temperature Applications
- Medium Temperature Applications
- Contact our Sales Department for Capacities
- 60 & 50 Hertz Models

CULT-XPC / CUMD-XPC MED / LOW Temp Condensing Unit

- Division I or II & Zone II or II
- Low Temperature Applications
- Medium Temperature Applications
- Contact our Sales Department for Capacities

Cabinet Cooler Units

Safe Air Technology offers a variety of **Explosion Proof Cabinet Coolers**. These systems range from modified commercial grade systems to fully custom designs with capacities ranging from 6,000 to 36,000 BTUs with many options available.

CB-XPC Series Cabinet Cooler

- Division I or II & Zone I or II
- 6,000 to 60,000 BTU/HR Cooling Capacity
- 60 & 50 Hertz Models

The National Electric Code (ANSI/NFPA 70)

The purpose of the (NEC) code is to safeguard persons and property from hazards arising from the use of electricity. Articles 500-517 of the code deal with the installation of electrical equipment in location where explosion or fire hazards may exist due to flammable gases or vapors, flammable liquids, combustible dust, or ignitable fibers.

Hazardous Area Classifications

The classification of hazardous areas is dependant upon the properties of various hazardous materials and the likelihood of their presence. The NEC designation for Explosion Proof equipment must include a "Class", "Group" and "Division". The following tables will help you obtain a better understand of the classifications

Classifications for Hazardous Locations	
Class I	A Location where there is a danger of explosion due to the presence of a flammable gas or vapor
Class II	A location where there is a danger of explosion due to the presence of a flammable dust
Class III	A location where there is a danger of explosion or flash fire due to a presence of flammable fibers or filings

Groups for Classification	
Class I	Groups A,B,C and D
Class II	Groups E,F and G
Class III	No Groups

Divisions for each Class	
Division 1	A location where an explosive mixture of gas or vapor may exist under normal operating conditions
Division 2	A location where an explosive mixture of gas or vapor may exist under abnormal conditions such as an accidental rupture of a vessel or container or failure of a ventilating system

Groups for Gases, Vapors and Dusts					
Group A	**1, 4-dioxane**	n-propyl ether	1, 2-dichloroethylene	methanol (methyl alcohol)	styrene
acetylene	**di-n-propylamine**	tetrahydrofuran	1, 3-dichloropropene	methyl acrylate	toluene
Group B	**epichlorohydrin**	triethylamine	di-isobutylene	methyl amine	turpentine
formaldehyde (Gas)	**ethylene**	valeraldehyde	ethane	methyl cyclohexane	vinyl chloride
hydrogen	**ethyl mercaptan**	***Group D***	ethanol (ethyl alcohol)	methyl ethyl ketone	xylenes
Group C	**hydrogen cyanide**	acetic acid (glacial)	ethyl acetate	methyl isobutyl ketone	***Group E***
acetaldehyde	**hydrogen seleride**	acetone	ethyle benzene	methyl isobutyl ketone	Metal Dust includes Aluminum, Commercial Alloys and magnesium
allyl alcohol	**hydrogen sulfide**	acetonitrile	ethyl chloride	methyl isocyanate	***Group F***
butyl mercaptan	**isobutyraldehyde**	acrylonitrile	gasoline	2-methyl-1 propanol (isobutyl alcohol)	Carbon Black, Coal, Charcoal, Coke Dust
n-butyraldehyde	**methylacetylene**	Ammonia (2)	heptane	naphtha (petroleum)	***Group G***
Carbon monoxide	**methyl ether**	n-amyl acetate	heptene	nonane	Flour, Starch, Grain Dust
crotonaldehyde	**methyl mercaptan**	sec-amyl acetate	hexane	nonene	
dicyclopentadiene	monomethyl hydrazine	butylamine	hexenes	Octane & Octene	
diethyl ether	morpholine	chlorobenzene	isoamyl acetate	pentane	
diethylamine	nitroethane	cyclohexahe	isoprene	1-pentanol (amyl alcohol)	
dimethyl hydrazine	nitromethane	cyclohexene	isopropyl ether	2– pentanone	
di-isopropylamine	2-nitropropane	cyclopropane	LPG (liquefied pet gas)	propylene	

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When a client requires pertinent information for a project, getting it may be a difficult task if the company with the information the client needs is located in another time zone. At Safe Air Technology, we try our best to prevent this or, at the very least, minimize the time it takes our clients to receive vital information for their projects. To accomplish this, Safe Air Technology has established several international offices around the world to better aid our clients in their endeavors. We strive not only to provide excellence in our explosion proof HVAC equipment but in our level of client service as well. Safe Air Technology's international offices are intended to provide support to our clients everywhere without delay.

Safe Air Technology's corporate headquarters is located in Baton Rouge, Louisiana of the U.S.A. With two of our international offices located in the Middle East, Far East, Canada, and Latin America. Safe Air Technology has been able to expand to over 30 countries around the world. This is the key to providing accurate and essential information quickly to our clients all over the world. This provides for successful explosion proof HVAC projects.

Safe Air Technology United States

Safe Air Technology Mexico

Safe Air Technology U.A.E.

Safe Air Technology Singapore

Safe Air Technology

Offering The Keys to Success: Quality, Pricing and On Time Delivery

4133 Evan Brooks Road • Baton Rouge LA 70814 U.S.A

Phone (225) 303-0007 • Fax (225) 303-0020

www.explosionproof.net • **Email: sales@explosionproof.net**