EKAGGO AIRTECH

INNOVATING COMFORT

FEEL THE TOUCH OF EXCELLENCE WITH SUPERIOR HVAC SYSTEM DESIGN WITH EXECUTION WORK.

We Provide Extra Ordinary Services in HVAC / Air Conditioning Trunkey Project.

- Central Air Conditioning Products
- Best quality Air Handling Unit [AHU]
- Best quality Dehumidifier
- Air Filtration System
- Chillers
- VRF / VRV System
- Ducted Ac System

And advanced & extra ordinary HVAC Product range

+91-8000001362

ekaggoairtech@gmail.com
sales@ekaggoair.com

Plot No. 28 & 31, Satyam Industrial, Estate-1 Kubadthal Road, Kubadthal, Ahmedabad- 380 009

www.ekaggoair.com

Your ultimate guide in HVAC system design & project execution

EKAGGO AIRTECH
INNOVATING COMFORT

About Us

Ekaggo Airtech welcomes you to the world of HVAC. We have been delivering excellence to thousands of our loyal customer since 2016 in this field. Currently we are catering our service throughout in India.
We works with leading HVAC brands. Our hard work and dedication have earned us a strong customer base from India. Ekaggo Airtech groupis also the owner of a strong workforce providing quality service in India. Our diverse portfolio includes pharmaceutical HVAC projects with chilled water and cooling water system design execution for commercial as well as residental purpose.
Since the beginning of our journey we have always focused on providing our customers quality services with new and advanced technologies.

Mission

Ekaggo Airtech's mission is to build a healthy and hygiene environment for you with our advanced equipment and new technologies in pharmaceutical service.

Vision

To positively influence society through sound, legitimate business practices

- Pharmaceutical HVAC System
- Central Air-Conditioning Products
- Best Quality Air Handling Unit
- Commercial Comfort Air-Conditioning
- Air Filtration System
- Best Quality Dehumidifier
- Process Chilled Water Piping & Related Ancillary Works
- Design to Execution of central Air Conditioning System
- VRF / VRV System
- Revamping & Retrofit of Existing Cooling System
- Chiller / Cooling Tower
- Ducted Ac System Ductless Ac System & Flexible Ducting System
- Unitary Product Service

Mind Sets

. Be creative
. Be insightful
. Be highly motivated
. Be proactive
. Be modest and open-minded
. Be sincere
. Be high-spirited
. Be determined and courageous
. Be respectful
. Be responsive and efficient
. Be economical
. All the time
. Aspire to excellence and perfection
. Have advanced and concrete goals
. Do what is best for the whole
. Work is worth

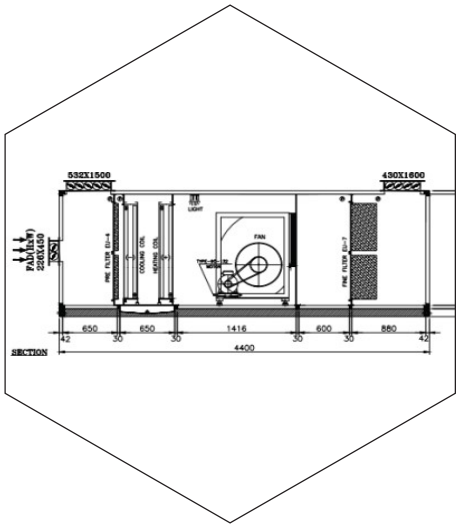
Trusted Branded Air Handling Unit

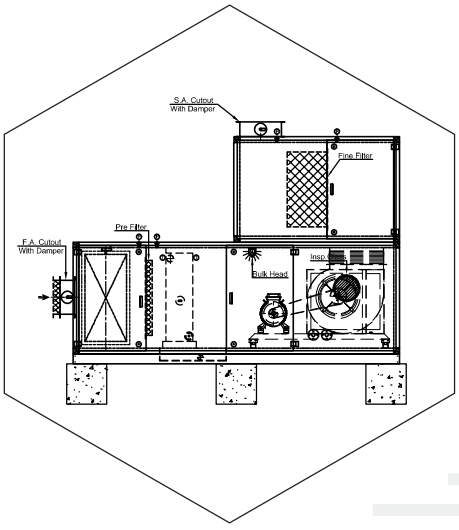
Features

. Superior design
. Precise workmanship
. Unique gasket arrangement
. Food grade rubber gasket
. Double skin construction
. Plug fans or DIDW fans
. Unique design filter frame
. Energy efficient fan and motor
. Low maintenance
. Highly reliable
. Standard & tailor made designs
. Low leakage dampers
. Available in vertical or low height loft mounting design to suit site conditions
. These units are designed to offer customized solutions to suit requirements ranging CFM.

Description

. An Air Handling Unit is used to re-condition and circulated air part of heating, ventilating and air-conditioning system.
. The basic function of the AHU is to take in outside air, re-condition it and supply it as fresh air to a building.
. Depending on the required temperature of the re-conditioned air, the fresh air is either heated by a recovery unit or heating coil or cooled by a cooling coil.



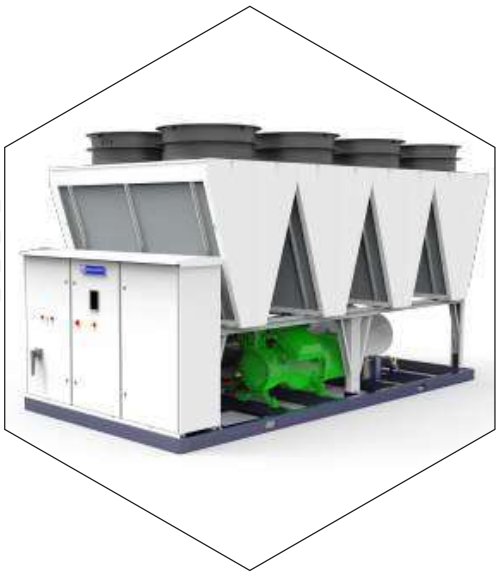


These products are used in pharmaceutical companies, modular ot, clean room area, industrial area, process cooling application and production area

Chiller

Features

. Wide range [As Per Customer Requirement]
. Large tonnage capabilities
. Longer Life
. Rapid cooling mode
. Air Cooled & water cooled both option.
. Quick restart / Silent operation
. Wide temperature operating range
. Touch screen option
. Attractive return on investment
. Demand control mode
. Easy and quick installation
. ASME stamp option
. Eco-friendly



Types of Chillers

Process Chillers

Scroll Chillers

. Air Cooled & water cooled Scroll Chiller
. Inverter Scroll Chiller

Centrifugal Chillers

. Water cooled centrifugal Chiller
. Configured Oil-free Chiller

. Screw Chillers

. Water cooled screw chillers with variable frequency drives
. Water cooled screw chillers configured series
. Air-cooled configured screw chillers high efficiency series
. Air-cooled VFD screw chillers

Description

. Ekaggo Airtech has comprehensive range a chillers is poised to power up various mechanical cooling process application across to different industries.
. Our Process chillers, centrifugal chillers, Scroll chillers and Screw chillers are a testament to our unmatched engineering capability.
. They are an ideal choice for commercial , industrial and institutional HVAC applications.
. Ekaggo Airtech is the pioneer and a leading provider of integrated end to end solution in the field of electro mechanical.
. We are committed to our customer that technology suits their needs and have introduced a wide variety of different types of chillers.

These products are used in industrial areas and many more as per customer needs

Dx Unit

Features

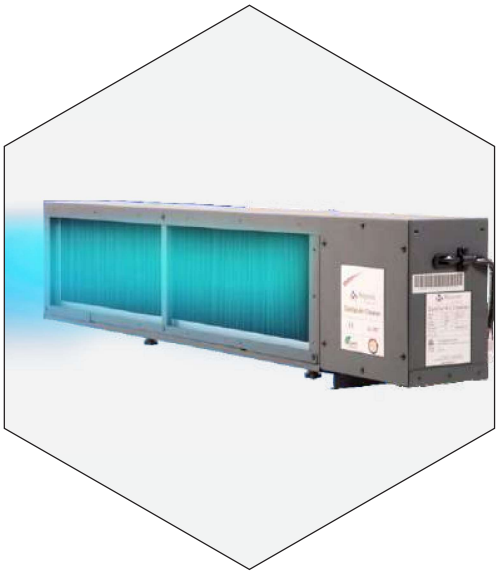
. Air cooled & water cooled both option
. Dx type inverter & non-inverter ODUs
. VRF type inverter ODUs
. Air/Water cooler chiller condensing units
. Microprocessor-based controllers
. Auto-restart after power is resumed
. Compact Design
. Suitable for multi-tenant applications
. Phase wise Investment option
. Enhanced Aesthetics
. Good Relative Humidity Control
. Flexible Application

Technology

. A DX unit uses refrigerant-based cooling and cools indoor air using a condensed refrigerant liquid.
. Direct Expansion means that the refrigerant expands to produce the cooling effect in a coil that is in direct contact with the conditioned air that will be delivered to the space.
. The DX unit uses a refrigerant vapor expansion and compression cycle to cool air coming in through a supply plenum and returns it to the area that needs cooling through the return.
. This central air conditioning system comes in either a split-system or a packaged unit.
. In a split system the components are separated with the evaporator located in an indoor cabinet and the compressor and condenser located in an outdoor cabinet.
. A packaged unit has the entire cooling system self-contained in one unit, with the evaporator coil, condenser, and compressor all located in one cabinet.
This allows for flexibility in the installation since the unit can be either outside or indoors (depending on system specifications) without too large of a footprint.

These products are used in pharmaceutical companies, modular ot, clean room area, industrial area, process cooling application and production area

Air Filtration System

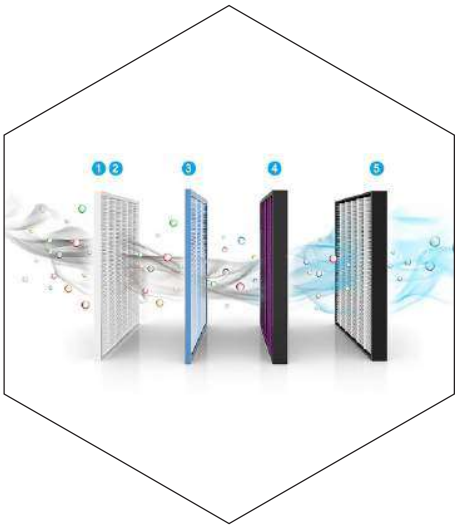


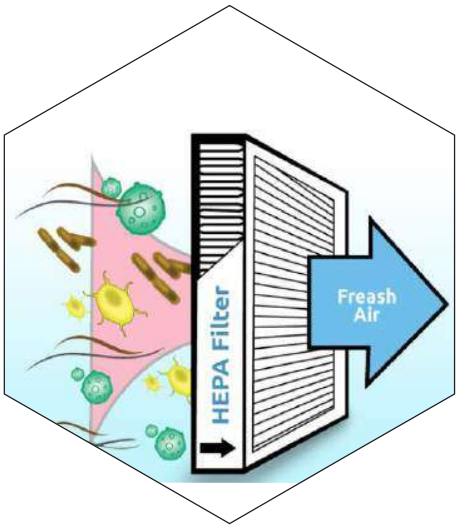
Features

. Complete clean air
. Filter less magnetic technology
. No extra or recurring cost
. Easy installation and maintenance
. High Energy efficiency
. Lower cost and greater environmental sustain ability
. Return on investment

Technology

. Air filtration technique can remove air pollutants and effectively alleviate the deterioration of indoor air quality.
. It evaluated different air filtration technologies by considering factors such as air quality improvement, filtering performance, energy and economic behavior, thermal comfort and acoustic impact.
. An advanced air filtration technology that works on a micro-trapping process harnessing the combined effects of impingement, polarization, and agglomeration.
. A dual polarity is created through an underlying dielectric mesh, trapping very fine particles and neutralizing bio-aerosols from the air.
. It is a “Trap and Kill” process that removes PM 2.5, disease-causing germs, and allergens in recirculating systems at exceptionally high efficiency without any recurring costs.
. Advanced filtration system for HI-POLUTED area.





These products are used in offices, residencies, commercial are and industrial area.

Dehumidifier

Features

. Electric, steam, direct or indirect fired gas reactivation.
. Easy to service desiccant rotor.
. Chain driven desiccant rotor for a lifetime of reliable performance
. Hinged access doors with air handler style handles for easy inspection, cleaning, and maintenance
. Variable frequency drives
. Allen Bradley PLC based controls for simple reliable operation
. Hinged filter access doors with quick release fasteners
. Circuit breakers (not fuses) for over-current protection
. UL 508A certified electrical panels
. 0.125″ thick aluminum welded cabinet specifically designed to prevent moisture infiltration and leakage

Technology

.A dehumidifier is an electrical appliance which reduces and maintains the level of humidity in the air, usually for health or comfort reasons, or to eliminate musty odor and to prevent the growth of mildew by extracting water from the air.
. It can be used for household, commercial, or industrial applications.
. Large dehumidifiers are used in commercial buildings such as indoor ice rinks and swimming pools, as well as manufacturing plants or storage warehouses.

Types of Dehumidifier

1. Desiccant Dehumidifier
   . Desiccant dehumidifiers (known also as absorption dehumidifiers) bond moisture with hydrophilic materials such as silica gel.
   Cheap domestic units contain single-use hydrophilic substance cartridges, gel, and powder.
   . Larger commercial units contain hot air recovery systems in order to remove humid air from outside the room.
2. Condensate Dehumidifier
   . Condensate dehumidifiers use a refrigerator to collect water known as condensate, which is normally grey water but may at times be reused for industrial purposes. Some manufacturers offer reverse osmosis filters to turn the condensate into potable water.
   . Some designs, such as the ionic membrane dehumidifier, dispose of water as a vapour rather than liquid.

These products are used in industrial area , pharmaceutical company and many more as per customer needs

Inverter / Non Inverter Ducted Package Ac system

Features

. High energy efficiency scroll compressor / inverter compressor
. Service friendly design
. Robust and reliable
. Long refrigerant piping in inverter ducted machine
. High ambient temperature operation up 45 c to 52 c wide voltage range operation
. Touch screen controller in inverter ducted system
. Anti-corrosion condenser fin coating

Description

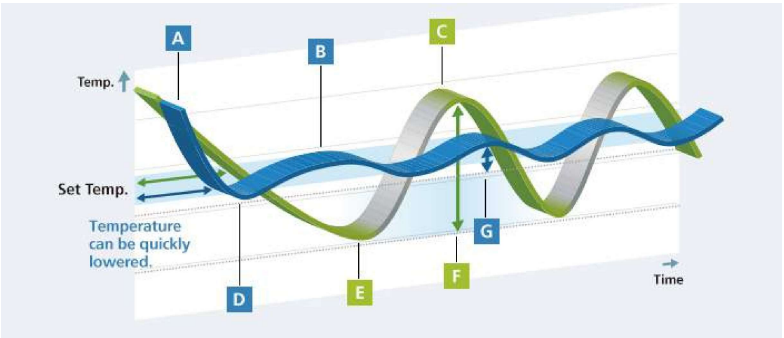
. Success at research facilities and factories often hinges on strict control of air temperature and quality.
. To these environments, Ekaggo Airtech offers an abundant range of packaged air conditioners for precise control of air and temperature to help preserve accurate results and product quality.

Technology

Inverter Technology :-

. Air conditioner compressors are driven by motor, and motor rotation speed depends on power supply frequency.
. An inverter modulates power supply frequency to control motor rotation speed.
. Inverter stabilize temperature by adjusting compressor operation according to load to eliminate waste and save energy.

A. When temperature is higher than set temperature, the motor rotates faster to lower room temperature.
B. Motor rotation speed is adjusted to maintain a constant temperature.
C. Motor rotates when temperature is higher than set temperature.
D. When temperature approaches set temperature, the motor rotation speed is reduced.
E. Motor stops when temperature is lower than set temperature.
F. Variation width for temperature becomes large when temperature is adjusted by repeatedly starting and stopping the motor. Furthermore, the motor always rotates at constant speed, and energy consumption increases from the energy loss of starting and stopping.
G. Lowering motor rotation speed according to load reduces both variation width for temperature and energy consumption.



VRF / VRV System

Features

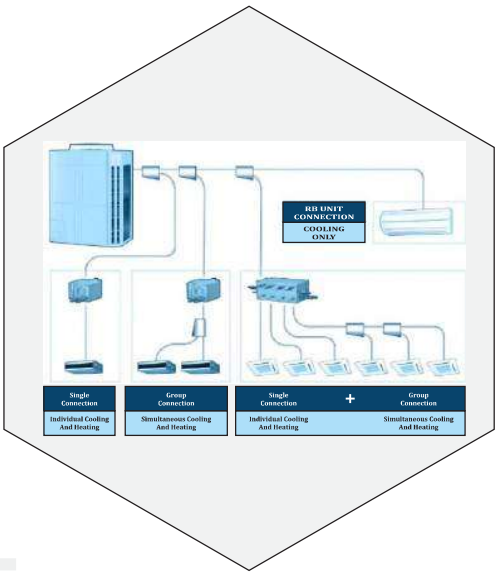
. Higher efficient inverter compressors
. 100% inverter advantage
. Designed for high ambient temperature conditions
. Specially designed ODUs
. Wide operating range
. Weather-proof ODUs designed
. Conformal coating for PCBs
. Quite mode
. Emergency backup operation
. Long and flexible range of piping design

Description

. The VRF / VRV system is a multi-split type air conditioner for commercial buildings that uses variable refrigerant flow control to provide customers with the ability to maintain individual zone control in each room and floor of a building.

Technology

. The simplest explanation of VRF / VRV is to describe it as a large scale ductless HVAC system that can perform at a high capacity.
. The specific design of a VRF / VRV system various based on application.
. In general , VRF / VRV technology provides the ability for multiple indoor units or zones to operate on the same system.



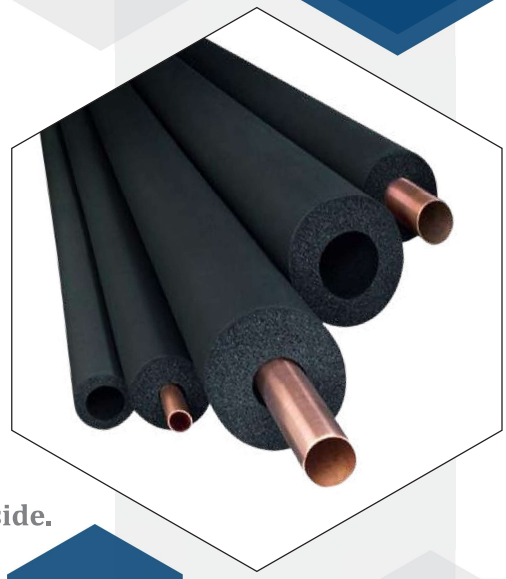
These products are used in offices , residencies , commercial areas and many more as per customer needs

Accesories

Expansion Valve

. Whenever the bulb senses an increase in suction line temperature, the liquid expands, increasing the pressure in the fixed volume, and pushes the diaphragm down, thereby opening the valve and allowing more liquid refrigerant into the evaporator.

Copper pipe & Insulation



. Copper piping is a tube-like material made from copper, a red-brown metal with the chemical symbol Cu and atomic number 29.
. It is used to convey water, gas, oil or other fluid from one location to another.

. Insulation is defined as a material used to insulate something, especially a building.
Basically, insulation is material used that reduces heat loss or heat gain by providing a barrier between the inside of your home and the significantly different temperature outside.

Filters

. HEPA, or high-efficiency particulate air, is the peak standard for air filtration.
. These filters are frequently used in medical settings, as they filter at least 99.97% of particles as tiny as 0.3 microns.
. These filters can remove microscopic substances from the air like mold, dust and pet dander.

1. Fine Filters
2. Pre Filters
3. Hepa Filters

EKAGGO AIRTECH
INNOVATING COMFORT

EKAGGO AIRTECH
INNOVATING COMFORT

ekaggoairtech@gmail.com
www.ekaggoair.com
Plot No. 28 & 31, Satyam Industrial,
Estate-1 Kubadthal Road, Kubadthal,
Ahmedabad- 380 009

+91- 8000001362
9099992444
9998600888