



COOLZONE
AIR SYSTEMS

WHAT WE DO?

- Chillers ✓
- VRF Systems ✓
- HVAC Designs ✓
- Clean Rooms ✓
- Cold Storage Plants ✓
- Ventilation Systems ✓
- Chilled Water Systems ✓
- Annual Maintenance Service ✓



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Plot No: 1-109/20,
Kondapur, Near RTA Office,
Hyderabad – 500 084



SCAN FOR URL

WWW.COOLZONE.IN



Company Profile

Cool Zone Air Systems established Installers, Manufacturers & Suppliers of different Commercial & Industrial Air Conditioning, Cleanrooms, Cold Storages, Chiller Plants & Ventilation Systems. We are professionally managed Engineering Services Company. We are recognised for our quality standards & product excellence meeting to our customers' expectations.

We are professionals involving complex jobs that requires innovative Engineering & construction methodologies in the following areas.

We design, manufacture new / retrofit your existing Air Conditioning & Ventilation Systems to comply as per ISHRAE, ASHRAE & OEM's recommendations. We have gained experience in this area & have completed some of the pilot projects in this regard.

Scope & Capabilities:

We design, manufacture new / retrofit your existing Air Conditioning & Ventilation Systems to comply as per ISHRAE, ASHRAE & OEM's recommendations. We have gained experience in this area & have completed some of the pilot projects in this regard.

Proven track record in execution of large & complex Projects in record time as professionals.

A Team of Dedicated & Experienced Staff from various disciplines of Engineering.

Annual Maintenance Services: We undertake comprehensive, Non-Comprehensive & On-call Maintenance services for our valued customers. We have right approach & focus on reducing unnecessary breakdowns and minimizing plant down-time, primarily through the implementation of an excellent preventative maintenance programs.

Company Profile

Our Vision

We envision to provide quality and cost effective solutions to the customer in Engineering & Construction space by adopting Professional and Ethical practices & be an employer of choice and become the market players.

Our Mission

To deliver high-quality, cost-effective projects on schedule by employing passionate, flexible, and focused project teams. With our expertise we present a customized Construction & Facility Management package to our valuable customers and ensure optimal compliance and immediate service.

Our Brands



Some of Our Clients



Our Commitment

- ➔ To act as problem-solvers and innovators that assist senior decision-makers to realize their corporate objectives.
- ➔ To deliver outstanding value, to exceed expectations and to build long-term business relationships.
- ➔ Cool Zone Air Systems brings the managerial and technical experience needed to collaborate with your team from problem definition to solution implementation.

We are the trusted advisor of choice, partnering with government and commercial industries to achieve best business value in dynamic environments characterized by business, organizational, and technical change.

Safety Policy

SAFETY IS OUR TOP PRIORITY

We believe safety is essential to the completion of a quality project.

SAFETY IS A CRITICAL COMPONENT OF QUALITY

- ➔ We have no tolerance for any practice that does not promote safety at work.
- ➔ We have worked hard at developing a safety culture.
- ➔ Our goal is tough: we want to eliminate all accidents from project site workplaces.
- ➔ Our positive approach to safety has enabled us to grow.
- ➔ Our commitment to safety is an important part of our vision.

SAFETY MANAGEMENT

WE CONSIDER SAFETY AS NO ACCIDENT.

We constantly work at it with hands-on training. Proactive safety management keeps our job site injury-free.

SAFETY RECORD

Thanks to the efforts of our safety conscious employees, we hold the best safety records

MANAGEMENT COMMITMENT TO SAFETY

- ➔ We are committed to maintaining a safe and healthful working environment.
- ➔ We pledge our best efforts to work together safely to achieve this goal.
- ➔ We regularly communicate our goal to all employees.

OUR PROGRAMME

Our Safety Programme includes:

- ➔ Employee Orientation
- ➔ Project Safety Plan
- ➔ Emergency and Communication Plan
- ➔ Safety Inspections

SAFETY PHILOSOPHY

- ➔ All injuries can be prevented.
- ➔ Management and every individual is responsible for preventing injuries.
- ➔ Working safely is a condition of employment.
- ➔ All operating exposures can be safeguarded.
- ➔ Training employees to work safely is essential.
- ➔ Prevention of personal injuries is good business.

Safety Policy

Safety Department

We have qualified, experienced, committed and result focused safety engineers.

Safety Statement

Safety comes first at Cool Zone Air Systems.

Always we think it, plan for it, make it happen.



A Ready Hand, to Assist on Demand!

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Quality Policy

Quality Assurance System may be visualized as a series of inter related controls which are exercised to achieve the desired quality Objectives. They are:-

- **Process Control** – Drawing & Technical Specification, Construction Methodology, Quality Assurance Plan, Resource based planning etc.
- **Procurement Control** – Vendor evaluation & Registration, Specification for Work order, Qualification of Procured items.
- **Materials Control** – Material receipt, QA/QC verification, Storage, Non conforming material segregation storage, Issue of materials, Stores Register.
- **Inspection & Test Control** – Quality Assurance Plan, Calibration of measuring Equipments, Inspection Records, Statistical Analysis.
- **Non-conformance Control** – Preventive & Corrective Action.
- **Design Control** – Basic Design, Process Design.
- **Document Control** – Controlled copy, Distribution, Old copy Disposition.
- **Record Control** – Document identification, Storage, Retrieval, Maintenance, Permanent & Temporary records.
- **Training Control** – In-House Training, Institutional Training.
- **QUALITY SYSTEM AUDIT** – Audit by Internal Quality Auditors.

Whom We Serve



Industrial

Company that offers design and build services for you from initial sketches to the final production.



Pharmaceutical Industries

Design repeatable growth models and innovation pipelines that generate new products with higher potential and lower risks of failure.



Airports

We work across all the major geographies, meaning we understand the underlying drivers in construction markets.



Defence Institutions and Labs

We consider all the drivers of change – from the ground up and we'll motivate and support you to make the change.



Hotels & Hospitals

We work buy-side and sell-side and give our clients hard-hitting and objective answers and focus hard on the best opportunities.



Food Industry

Scheduled transport operations, from broad market trends and strategy to the development of integrated commercial strategies.

VRF Systems

Unparalleled Effectiveness in Extreme Conditions

The most recent product from Blue Star, the Digital Variable Refrigeration Flow (DVRF) system, delivers superior, cutting-edge cooling technology and increased energy efficiency right to your door. The DVRF system is perfect for multi-zoned spaces like luxury apartment complexes, condominiums, villas, multi-cabin office spaces, and commercial complexes because it is built on tested Digital Compressor Technology.

DVRF is now considered a superior cooling option due to its interoperability with BMS and availability of modern electronic controllers.

Additionally, Blue Star's DVRF is made to work in Indian settings. The Blue Star Digital VRF will cool even in the hottest regions of the nation during the hottest summer months when most other AC systems would have ceased working because the system is built to function at ambient temperatures even as high as 56°C. The Blue Star Digital VRF, a distinctive and incredibly helpful feature among Indian AC systems, is made to run effectively, dependably, and smoothly throughout a broader voltage range of 340V to 460V in order to guarantee that your investment in AC works for you even during significant voltage variations.



Salient Features:

- Year-round cooling and heating system
- Modular capacities that can be built up using upto 112 HP
- Software-based piping design
- Choice of designer indoor units
- Simple unit selection, easy installation
- R410A-based eco-friendly system
- Compatibility with AHUs
- In-built fault diagnostics
- High on energy savings
- Advanced computer control systems
- Need-based cooling to suit your comfort requirements



HVAC - Design

We offer design solutions for energy conservation oriented air conditioning systems which are compliant with ISHRAE, ASHRAE, National Building Code (NBC) & other codes. Our designs assist in identifying opportunities that optimize the value of HVAC assets. From analysis and project recommendations, through the design and implementation, to commissioning and system monitoring and after installation, Our designs' "life cycle approach" guarantees the desired results.



Ventilation Systems



We have good experience in developing and installing Ventilation products and systems for different types of operations, we custom design products to meet specific needs of our customers. We offer Ventilation Systems including traditional solutions, industries specific solutions and custom specialized filtration systems for Covid-19. We offer efficient ventilation plus a comfortable indoor climate with sanitation technology. We have installed ventilation systems in Commercial Buildings, Hotels, Laboratories and Cleanrooms Projects.



A Ready Hand, to Assist on Demand!

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Cold Storage Plants

We design multipurpose cold storage depending upon the client requirement for Fruits, Vegetables, Freezers, Dryers etc. We take care from the Concept, Design, Construction and the Commissioning of the Cold Storages. One has to understand that every product has different properties and has to be handled in a different way.



Chilled Water Systems

A chilled-water applied system uses chilled water to transport heat energy between the airside, chillers and the outdoors. These systems are more commonly found in large HVAC installations, given their efficiency advantages.

The components of the chiller (evaporator, compressor, an air- or water-cooled condenser, and expansion device) are often manufactured,

assembled, and tested as a complete package within the factory. These packaged systems can reduce field labor, speed installation and improve reliability.

Alternatively, the components of the refrigeration loop may be selected separately. While water-cooled chillers are rarely installed as separate components, some air cooled chillers offer the flexibility of separating the components for installation in different locations. This allows the system design engineer to position the components where they best serve the space, acoustic, and maintenance requirements of the building owner. Another benefit of a chilled-water applied system is refrigerant containment. Having the refrigeration equipment installed in a central location minimizes the potential for refrigerant leaks, simplifies refrigerant handling practices, and typically makes it easier to contain a leak if one does occur.



Cleanrooms

Turnkey Cleanroom Facility Solutions:

Our team is highly experienced and professional who share the same passion for quality and excellent service in Life Services, Pharma, Biotechnology and Semi-Conductor Complexes. We provide complete Project solutions from Design, Procurement, Construction, Testing, Commissioning & Validation for all classes. All the Utilities like UHP Gas Services, Electrical Package including DG's Transformers, LT Panels, UPS Systems, Food Processing, Operation Theatres, and Complete Mechanical Package including HVAC, CDA, DI, Exhaust & Scrubbing Systems etc. Cool Zone team has rich & vast experience in MEP services and especially in Semiconductor, Pharma & Bio-Technology areas. We have completed professionally one of the biggest Semiconductor Fab Complex in India at Professionals.

Cleanroom Projects Services:

All our Cleanroom facilities are designed to meet the appropriate Cleanroom Classification Standards. We carry out works specifically for Semi-Conductor, Pharmaceutical and Biotechnology etc. The walls of Cleanroom can be constructed as per the requirement in both Progressive and Non-Progressive walls with Air Showers, Cleanroom Ceiling Support System Grids, Doors, Windows, Pass boxes, Air Curtains, Teardrop lighting, Raised Access Flooring & different types of Flooring including Resilient.

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End to End Cleanroom Solutions:

We carry out the installation of High efficiency filters both HEPA & ULPA and carry out the validation which includes, particulate count, RH measurements filter integrity tests, pressure balancing, documentation works as per the ISO Guidelines.

We understand the day-to-day operations and maintenance of our Cleanroom and help insure the most productive environment.

Our trained staffs of experienced Managers & Engineers have sound knowledge required to design and deliver your project on time and at your budget. This expertise, together with single-source solutions, streamlines your supply chain and eliminates the hassle of purchasing multiple components from multiple sources ...making us your preferred choice for your Cleanroom requirements.

Cleanrooms

Design

- ➔ Conceptualisation & Calculation
- ➔ FEED
- ➔ Preparation of Schematics and PID's
- ➔ Sizing of Equipment
- ➔ Layout Preparation
- ➔ Process Detailing
- ➔ Specification Process

Detail Design, Construction & Project Management

- ➔ Preliminary and Detailed Design
- ➔ Defining the Scope of work
- ➔ Preparation of Tender documents for all disciplines
 - ➔ Mechanical
 - ➔ Electrical
 - ➔ Process
 - ➔ Civil
 - ➔ BMS/ELVS

- ➔ Preparation of project time lines for client approval
- ➔ Site Mobilization
- ➔ HSE Plan Implementation
- ➔ Construction Supervision and Construction Management
- ➔ Project Coordination and Project Management
- ➔ Procurement Planning and Project Assistance
- ➔ Quality Control
- ➔ Time schedule and Progress review
- ➔ Testing, Pre Commissioning of various packages/Disciplines
- ➔ Tool Hook-up
- ➔ Document Preparation & control
- ➔ Facility Handover & Acceptance by Client



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Chillers

Compared to chillers made for HVAC systems, process chillers are constructed with a more robust architecture and are meant to be more dependable, function within more precise tolerances, and last longer. Our Chillers are made especially tough to withstand the most demanding production and crucial procedures.

Although process chillers are slightly more expensive than comfort or HVAC chillers of the same kind, they are a far better value and more suited for a crucial operation. Process chillers feature higher residual values, reduced operating costs, longer trouble-free operating times, and more precise leaving water temperature.

Chillers built for Process:

With features like special finned coil evaporators submerged inside the cold-water tank, which reduce freezing risk and enable them to handle fluctuating load and process fluctuations, our range of process chillers is made especially for process applications. In addition to reducing wear and tear from compressor start and stop operations, the huge integrated cold side buffer tank allows closer temperature control for process tolerance.



Process Chillers

Our Process Chillers for a Range of Operations. These chillers use microprocessor-based controls, which are incredibly small and have a small footprint. They also provide intelligent cooling and are energy efficient.

Salient Features:

- Energy-efficient scroll compressors and plate heat exchangers
- Extremely compact plug-in design for high ambient applications
- Stainless steel hydraulic circuit with buffer and expansion tank
- Microprocessor controller with computer and remote connectivity
- Anti-corrosive fins
- Low noise
- Food grade quality options available



Chillers

Air Cooled & Water Cooled Scroll Chillers

It has been manufacturing a wide range of scroll, screw and centrifugal chillers. Drawing from this expertise, Offers a wide range of both air cooled and water cooled scroll chillers with R22, R407c and R410a refrigerant options.

Salient Features:

- ➔ Wide range
- ➔ Air cooled
- ➔ Water cooled
- ➔ Multiple scroll compressors
- ➔ Tandem design option for higher efficiency
- ➔ Fully factory charged and pre-wired
- ➔ Microprocessor control panel



Process Chillers

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- ➔ Anti-corrosive fins
- ➔ Low noise
- ➔ Food grade quality options available



Chillers

Inverter Scroll Chillers

The first scroll chiller in India that exceeds the 3-star efficiency norm of the chiller efficiency programme, for phenomenal savings on power consumption and a very high return on investment.

Salient Features:

- ➔ Air cooled
- ➔ Water cooled
- ➔ World-class innovative design
- ➔ Inverter compressor technology
- ➔ Low starting current
- ➔ Wide operating range
- ➔ Silent operation
- ➔ Touch screen option
- ➔ Intelligent microprocessor control
- ➔ Precise temperature control
- ➔ Rapid cooling mode
- ➔ Attractive return on investment
- ➔ Easy and quick installation
- ➔ Anti-corrosion condenser fin coating
- ➔ Eco-friendly



Our Approach

For every manufacturing, industrial, and sensitive process application, we have developed custom temperature control solutions. We will inspect your facilities and potential limitations and visit your site with a network of highly skilled technical professionals to determine your precise application demands. From there, we will design the best solution possible for your situation. Together with offering complete, customized 24/7 maintenance & breakdown assistance through our service & hire team, we can design, install, commission, and project manage custom turnkey solutions.

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Project Gallery



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