

GSM Technologies

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**HVAC Turnkey & Clean Room
Solutions**

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About Us

Design

Supply

Installation

Validation

Service

Support

GSM Technologies

Our Vision

Pioneering sustainable solutions, we're dedicated to excellence in Cleanroom and HVAC projects, setting new standards while preserving our planet for generations to come.



Our Mission

To focus on delivering great value to customers through highly skilled professionals delivering world class Projects and Products with modern technology skills.



Pre-Engineered Power Coated Modular Clean Room Panels

We are providing Supply and services of clean room panels structures that is widely installed in several applications such as pharmaceuticals, medical devices, electronics, automobiles, food, nutraceutical & food ingredients industries and made in compliance with the exact technical specifications required for controlled environment rooms.

Thickness:

30/50/60/80/100/150 mm and sheet thick will 1.0/0.8 mm

Standard:

GMP Norms and USFDA

Width:

160mm to 1200mma

Height:

2440mm to 6000mm

Insulation material:

Mineral wool/Honeycomb/PUF

Advantages:

- Cost-effective construction.
- Minimal production lead times.
- Full control of design.
- Production quality to international standards.



Air Handling Unit

With decades of experience in the installation line, we have leveraged our expertise in the manufacturing of AHUs to successfully meet the specific demands of our users. We provide solutions for all your needs, whether it's selecting the right air quantity, proper fan static pressure, fan type, air filters, safety, service factors, and more. An Air Handling Unit (AHU) is the ultimate source of heat transfer and the heart of an air-conditioning system. It supplies air while performing various functions such as filtration, mixing, air volume control, cooling and dehumidification, heating and humidification, energy recovery, space pressurization, and noise and vibration control. Our AHUs are suitable for comfort air-conditioning in offices, institutions, and restaurants, as well as specialized applications in clean rooms, pharmaceutical plants, hospitals, R&D labs, software parks, auditoriums, libraries, and more. SSCS's new state-of-the-art, green manufacturing plant in Bangalore, Karnataka, is equipped to meet the challenges of any market requirement.

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Variable Refrigerant Flow

An energy-efficient HVAC technology that allows precise temperature control in multiple zones of a building by varying the flow of refrigerant to different indoor units, providing tailored comfort and reducing energy usage.

Applications: VRF systems are commonly used in commercial buildings, hotels, and multi-family residential buildings due to their flexibility, efficiency, and ability to provide individualized comfort.



Benefits:

- **Energy Efficiency:** By only using the amount of energy needed for specific zones, VRF systems can significantly reduce energy consumption.
- **Flexibility:** The ability to control temperatures in different zones makes VRF systems suitable for buildings with varying occupancy and usage patterns.
- **Space-Saving:** VRF systems typically require less ductwork than traditional HVAC systems, saving space and installation costs.
- **Quiet Operation:** Indoor units of VRF systems are generally quieter than traditional HVAC systems, improving comfort levels for occupants.



Variable Refrigerant Flow With Cassette / Split / Ductable AC

Variable Refrigerant Flow: The system can adjust the amount of refrigerant being sent to each evaporator unit, which allows for individualized control of temperature in different zones. This makes it highly energy-efficient because it only uses the amount of energy necessary to cool or heat a specific area.

Heat Recovery: Some VRF systems have the capability to simultaneously heat and cool different zones, which is known as heat recovery. This feature is particularly beneficial in buildings with varying temperature requirements across different areas.



Inverter Technology: VRF systems often use inverter compressors, which can adjust their speed to match the cooling or heating demand. This further enhances energy efficiency and provides more consistent temperature control.



Clean Room Metal Doors

We provide a wide variety of clean room door configurations, including single or double swing-out doors and horizontal sliding doors, which can be manual, automatic, or semiautomatic.

Construction materials:

Pre or power coated GI
 Aluminum
 Stainless steel

Width (W)

Thickness (T)

Height (H)

Infill materials:

Honey-core paper
 Polyurethane foam (PUF)
 Rockwool

750/900/1000/1200
 /1500/1800 mm

50/60/80/100
 mm

3 mtrs
 max.

Applications:

- Air leak-proof doors allow for maintaining room pressure efficiently.
- Door closures will be designed according to door orientation.
- Automatic sliding doors help reduce human error.
- Standard accessories, such as SS hinges, handles, and door drop seals, can help control room pressure properly.
- The interlocking system will help avoid cross-contamination between two rooms.

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Fire Rated Metal Doors

We supply the finest quality fire-rated stainless steel doors and galvanized iron doors for the pharmaceutical and bio-pharmaceutical industries, as well as the food and beverage sector. Our products feature advanced technology and assured quality control standards.



DUCTING



Understanding the demand of today's growing industry, we provide supply and installation services, and modify duct routing according to site requirements with complete solutions.



We supply fabricated ducts in various sizes and compositions, including stainless steel (SS) and galvanized iron (GI), according to the site's dimensional requirements.



"Ducting" involves the management or control of these flows through such passages. It's commonly used in contexts related to HVAC (heating, ventilation, and air conditioning) systems, where ducting refers to the network of conduits that distribute air throughout a building.

STATIC AND DYNAMIC PASSBOXES

We supply stainless steel static and dynamic pass boxes.

Dynamic Pass Box: The dynamic pass box is used to transfer products from a non-controlled environment to a controlled environment. It ensures the safe and contamination-free transfer of materials from non-controlled areas to controlled areas.

Static Pass Box: The static pass box is used to transfer products or materials between two similar environments or clean environments, maintaining the integrity and cleanliness of the materials.



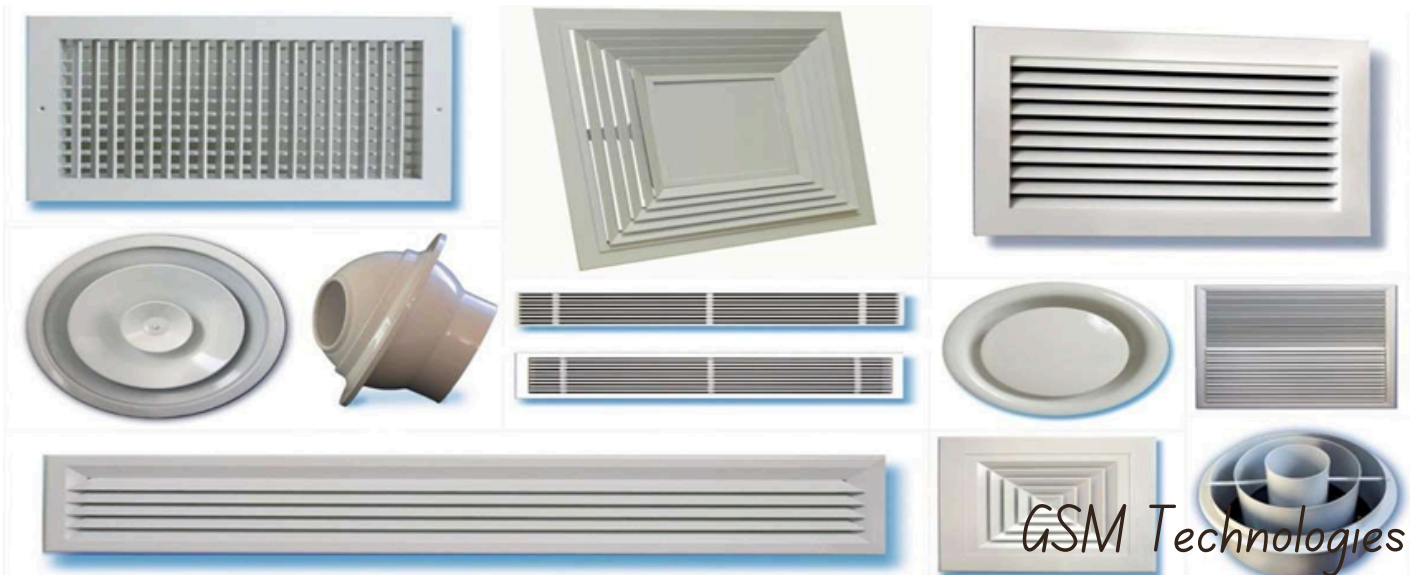
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We provide supply and installation services for GI round collar dampers, aluminum square volume control dampers, and various types of diffusers to achieve the required air flow velocity and maintain pressure balance.

A damper in an HVAC system, also known as a duct damper or volume balancing damper, is a movable plate situated in the ductwork that regulates air flow and redirects it to specific areas. Dampers are typically used in zoning or zone control systems.

Diffusers ensure that air spreads out evenly in multiple directions. Our diffusers are made from aluminum with a powder-coated finish. We supply various types of diffusers based on site requirements.



Thank you!

We sincerely appreciate your interest in our products and services. At GSM Technologies, we are dedicated to delivering the highest quality solutions to meet your specific needs. Our commitment to innovation, excellence, and customer satisfaction drives everything we do. Thank you for considering us as your trusted partner. We look forward to the opportunity to serve you and contribute to your success. Should you have any questions or require further assistance, please do not hesitate to contact us.

Thank you for your trust and support.

Team GSM Technologies



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