MEDIGLOBE
Engineering the future of healthcare

ISO 13485:2016 CE

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Medical Systems Pvt. Ltd.

Engineering the future of Healthcare

Turnkey Project Solutions

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About Medi globe Medical Systems Pvt. Ltd. (MMSPL)

Medi Globe Medical Systems Pvt Ltd (MMSPL) is a privately owned company headed by a competent team having many years of experience in providing excellent service to both Public and Private Hospitals. Medi Globe Medical Systems Pvt Ltd was established to provide unmatched service and support for all medical devices. We have an efficient infrastructure and highly trained and multi-skilled staff to bring you a range of services to suit every situation.

Shri Lokesh Sharma and Mrs. Deepti Sharma realized the need for quality production of medical devices and established Medi Globe Medical Systems Pvt Ltd in the year 2013. Medi Globe Medical Systems Pvt Ltd is an ISO 9001:2015, ISO 13485:2016, CE compliant, CE standards and European Standard certified company engaged in marketing and servicing a complete range of CE compliant medical bedding and furniture. From five function motorized intensive care beds, multipara monitors, ventilators to operation theater trolleys, we have solutions for every hospital need.

Establishment of Modular Operation Theatre, ICU, PICU, HDU, MGPS (Medical gas pipeline System), Firefighting systems with supply of hospital equipment's.

Medi Globe Medical Systems Private Limited is headquartered in Raipur. The showrooms and service centers are located in Raipur and are spread across Chhattisgarh, Madhya Pradesh, Bihar, Jharkhand and Odisha.

our mission

To improve human life through better care and comfort by providing innovative solutions.

management

The Managing Body of Medi Globe Medical Systems Pvt Ltd is a team of experienced experts. With a passion to deliver better results, they complement each other. Team efficiency encompasses all of the factors necessary for the governance of a successful healthcare infrastructure manufacturing company.

Multi-talented and passionate workforce

We are proud to have best in class talent in the industry. Our team of dedicated professionals are experts specializing in various aspects of Establishment of Modular Operation Theatre, ICU, PICU, HDU, MGPS, firefighting with hospital equipment's. All of them enthusiastically contribute towards the achievement of organizational goals.

-Lokesh & Deepti Sharma

Modular Operation Theater

Product Range

Hospital Turnkey Project:

1. Modular Operation Theatre

- Structure Steel Frame
- Wall and Ceiling Panel SS/ Glass/ SMS
- Laminar Air Flow-100-1000
- Control Panel – Touch Screen
- LED Shadowless Lamp
- Medical Pendent
- Sliding Door
- Storage Unit
- Pressure Relief Dampers
- Hatch Box
- Surgical Scrub Stations
- Operating Theatre Flooring
- Operating List Board
- Distribution Board
- View Window with Blinds
- LED X-Ray Viewer Box
- Internal HVAC Ducting & Exhaust System

2. Medical Gas Pipeline Systems

- Pre Fabricated Copper Pipes as per the standard BS EN 13348 and Lloyd Certification
- Gas Outlet Points
- Area Alarm Pannel
- Medical Gas Control Pannel
- Manifold System (Oxygen/N2O)
- Oxygen Flow Meter
- Ward /Theatre Suction Unit
- Bed Head Pannel
- Area Valve Box
- OT/ICU Pendants

3. Turnkey Solution Modular ICU Setup

4. Pneumatic Tube Systems

5. Medical Equipment's with Imported Hospital Furnitures

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Modular Operation Theatre

FEATURES:

- A continuous flow of highly filtered 'bacteria-free' air is reticulated under positive pressure into the operating field and air contaminants generated during surgery are removed from the site.
- With anti bacterial paint - has minimum durability of 15 years.
- Seamless.
- Easy to clean steam cleaned, electro matric (ideal for high humidity areas).
- Vaper permeability (allows substrate moisture to escape) protects against growth of bacteria, mould and yeasts
- Moisture resistance, freeze / thaw resistance.

In a operating department for which the most integrated function is required, cleanliness must be kept and the safety of facilities, equipment's and devices must be maintained any times.
Furthermore, the working environment for medical staff such as doctors and nurses must be considered from the view point of human engineering.

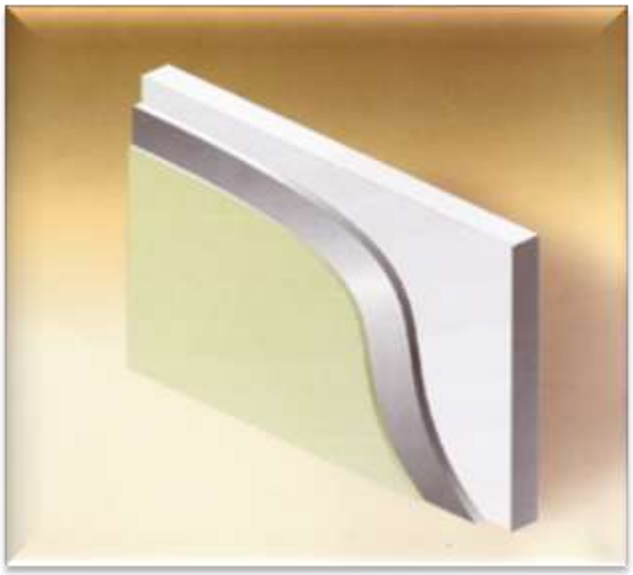
The modular operating theatre satisfying those conditions consists of wall, ceiling and slanted panels, and is capable of incorporating not only electrical equipment, medical gas system and lighting gears but all the necessary functions and equipment's at need. In addition, the modular theater has a high availability of extension providing for the introduction of new facility in the future, establishing as well an operating environment with high work ability and enough function.
The most complex and challenging area of hospital construction is the operating department. The Pre-fabricated Operating Theatre integrated approach to the construction and co-ordination of operating Theatre. The prefabricated operating theatre offer the advantage of speedy construction combined with design, future expansion and development in surgical technique whilst simultaneously providing a structure of the highest quality and standards.

Structure Steel Frame

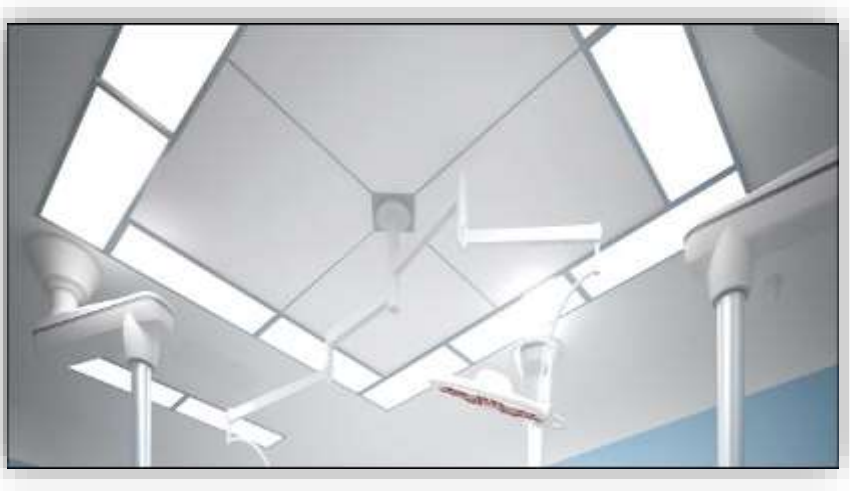
The load bearing in structure forming the exterior of the theatre is firmly bolted to the building to achieve total stability. As such, every wall plate is sturdily supported, making it possible to append additional devices afterwards. Plates and integral structures are bolted together. The rigidity of the interior casing is therefore greatly enhanced. The effect achieved through the technology of bolted joints is more reliable and durable than spot welded joints. Metal stuffing is filled to the junctions. Smooth, seamless and airtight effect is accomplished by meticulous polishing work that follows. All corners in the Operating Theatre are designed for easily cleaning and sterilizing.

Wall Panel

100X56 structural I-beams are used to form High Loadbearing framework for the prefabricated composite Operating Theatre's external structure. The wall panels and the arching ceiling panels are fabricated to meet actual site situation from 1.5mm first-class electrolyzed steel plate. Beneath every wall panel, a lining board is appended in order to enhance its ability against collision with thermal and sound insulation. All wall panels and appended elements are factory prefabricated and delivered to the site directly for installation without delay. Precise technology as well as excellent workmanship guarantees the product quality.



Ceiling Panel



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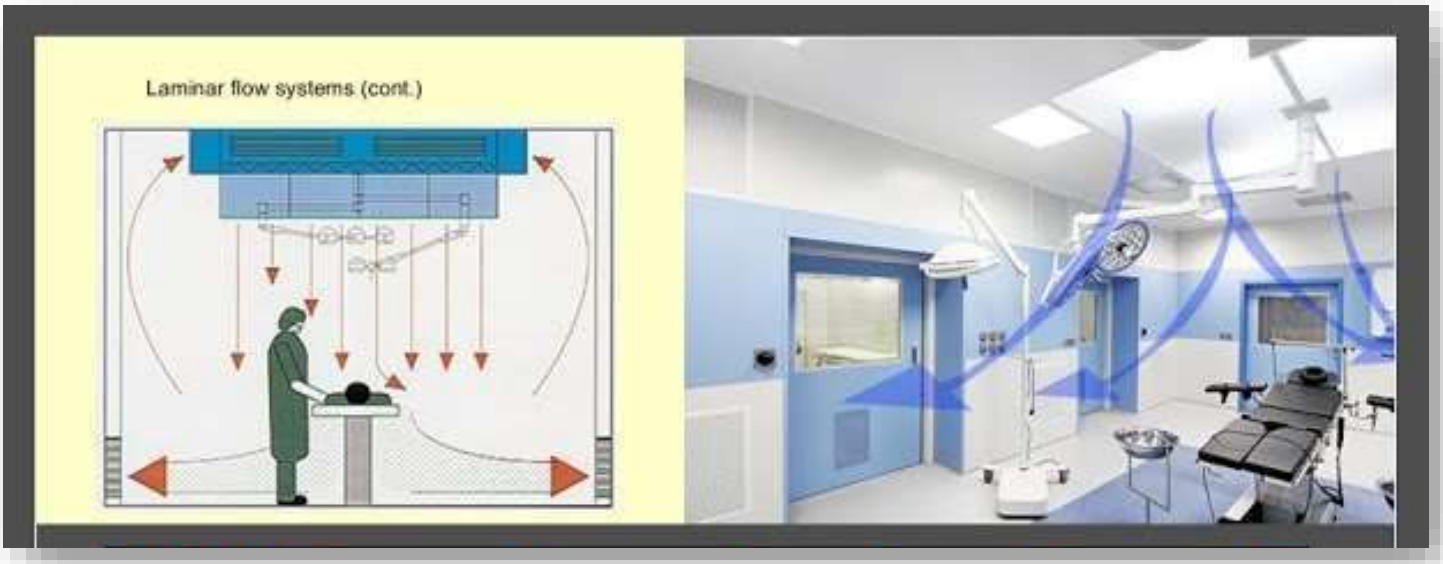
designed for easily cleaning and sterilizing.

The operation theatre is a micro-hygienic environment that eliminates all suspended particle and microorganism in the air throughout by means of air purification. The key to preventing patients from infection during operations lies in the design of sterilized air conditioning system and the supply airflow pattern. When the cleanness of the air around the operation table is assured, patients will unlikely be infected in operation. The supply air goes through two filters and is adjusted by the temperature/humidity controller, then pass the hepa filter to the ceiling diffuser. The hepa filter achieves 99.999% filtering efficiency for 0.3 particles, meeting the design requirement of 100% clean air into the O.T. room. Different types of air supply ceilings meeting different operational requiement bring into the operation room clean, steady and mild supply air. The entire room will be in a shield of hygienic air. The air pienum boxes are designed in accordance with the actual size and shape of different OT room. Special menbrane type damping-layer is used to effetively control the down flow above the operation table at an even and steady speed. As such, the cleanness of the supply air is guaranteed, and the medical staff will not be uncomforted by the high speed breeze.

H14 Hepa Filter

Laminar Air Flow (LAF)



The ceiling filtration system should be designed to ensure unidirectional distribution of sterile air of the surgical theatre to ensure the cleanliness of all the area covered by the air flow.
The Laminar flow system should comprise of thick extruded Stainless Steel (SS 304) profiles frame and sealed gasket. The filters installed in the plenum should be suitable for application for laminar flow and clean rooms. These filters should meet following specification.
Separators : continuous thermo plastic chord
Sealant : Polyurethane
Gasket : One piece polyurethane
MPPS average efficiency: > 99.95%
3 Micron DOP efficiency > 99.99%
Final Pressure drop : 600 pa(max)
Maximum Operating Temp : 60 degree Celsius
Maximum RH : 40-50 %
The ceiling system should be equipped with “H 14”
class HEPA filters position in the ceiling to achieve
0.25m/sec flow at the diffuser.
Filtration Ceiling System holding structure, Filter
frames and top plenum should be made of Stainless Steel.
The filtration ceiling system should have diffuser/flow equalizer to achieve uniform & constant air distribution over the whole surface. It should be BIS/CE/UL certified
The air management system should be designed to achieve class 100
with the following parameters: Bacteriological class =B (5 CFU/m3)
Particle decontamination kinetics CP =5 min

Touch screen Control Panel

- Compact and fully automatic manifold control system for Oxygen. N20 and Co2
- Designed with both safety and continuity of flow supply at a constant pressure via Two Banks f Bottled Gas Cylinders with following Status Monitoring.
- A-Bank in use (Green Indication)
- B-Bank ready for use (Yellow Indication)
- Control Panel has build in LED display to indicate Normal, Low for line pressure
- The control panel includes pressure gauge (63mm) to indicate the Gas pressure of each header ad pipe line distribution pressure
- Capable to provide a distribution flow rate in excess of 1500 Lpm
- The control panel incorporate safety puncture in case pressure excess100 PSI.

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LED Shadowless Lamp

EXLED7500/5500 (Hanging)

- Camera System (Optional)
- Monitor (Optional)

Product Features:

Leading technology, choosing monochrome and phosphor coated LED, most in line with the harsh requirements of surgical lighting, and able to produce pure and natural white light, provide a sharp and constant spot, also never produce color bulbs caused by color trim and rainbow effect.

Shadow Mode:

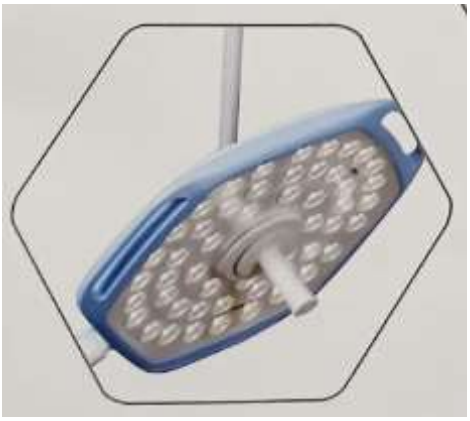
When the surgical light is blocked by the doctor's head. Its associated LED will automatically darken, and the remaining unobstructed LED increase brightness, to compensate for the loss of illumination, provide better shadowless, bring the perfect surgical lighting.

Adjust the illumination freely:

Lighting in the range of 10% -100% can be freely adjusted. It can make the doctor's eye fatigue in a long time to be compensated. Digital memory function, automatically recoding the appropriate illumination. It does not need to be adjusted again when it is turned on again.

Touch Screen Control:

LED touch screen is installed at the joint of the lamp arm, it can control all functions and a graphical representation, simple and clear operation, a wide range of illumination adjustment, adapting to different surgery and the needs of doctors.



The design of the lamp head:

The lamp design focuses on reducing the turbulence, fully enclosed streamlined shades are designed according to aerodynamic principles, smoot and seamless surface design is particularly suitable for the cleanliness of the medical environment.

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Medical Pendent

Main Features:

- Assembled by beams, the dry and wet
- The main use of high-strength aluminum molding process, streamlined design effectively reduces airflow resistance, Easy to clean, and fully meet the requirement of cleaning up the environment.

EX-50PE Manual Gas Pendant

Ceiling ICU Pendent Medical
Operating Room Pendent

Operating Room Pendent
Gas and ICU Bridge Pendent

Single Arm Pendent

Double Arm Pendent

Sliding Doors

To maintain sterility and the correct air pressure in the room all doors into and out should be of the sliding, hermetically sealing type. The door should meet following specifications:

- Meets international quality & safety requirements.
- Doors should be wired to the current IEE regulations & BS7971standard
- Motor should be DC 24V 70 W brush less DC Motor
- Noise level of movement should not be more than 60 decibel.
- Controller should be microprocessor based and be CE marked.
- Power efficiency should be.95 (in AC 100V full load).
- The track should be made up of single piece extruded aluminum.
- Environment temperature should be -20°C to +55°C.
- Starting time should be able to regulate from .5 second to 23 second & starting speed should be 600 mm per second.
- Electrical safety codes for high & low voltage system

The track of the door is constructed with high quality door lock with aluminum extrusion, fixed firmly to the walls. Nylon runner guides shall be fixed to the door.
The controller shall be capable of either being operated by elbow switches/foot switches, radar switch (touch less sensor). All doors will be operated easily manually in the event of failure of the power supply or the automation unit.

Stainless Steel Door

Lead Line (Radiation proof)

It is a hermetically sealed sliding door with 2mm lead inlay. As itsname suggests, this door is required in the places in hospitals where there are radiations emitting and hence the leakage protection is required.

It has 2mm thickness of lead lining which is applied on both sidesof door panel (1mm each side).

A lever opener is there for effortless opening, made from solidstainless steel.

Comes with manual as well as automation.

Clean Room-Swing HPL/SS/ MS Door

- Door leaf thickness- 44mm
- 4mm thick HPL laminates
- PU Insulated Core
- Dead Lock (Std), Mortise Lever Handle (Optional)
- Anodized Aluminum Alloy Door Profiles
- Wall frame 80mm x 60mm
- Flush View Port- 300x300mm (standard), option maximum size 300 x 600
- Door Closure (on active leaf)
- Concealed Flush Bolt on Passive Leaf.
- Concealed Drop Seal

Storage Unit

The storage unit can be made with 1.50 mm thick EGP Zinc coated steel panels, Stainless Steel panels, High pressure Laminate panels. The storage unit will be divided in 2 equal parts and each part will have individual glass doors with high quality locking system. Each part will be provided with glass racks.
The view window of specified size shall be providing consisting of: Double insulated fixed glazing with not less than 5mm thick toughened glass. Window frame shall be powdered coated Aluminum of approved shape flush mounted with wall paneling. Motorized horizontal Venetian Blinds of powder coated Aluminum strips of vista level or equivalent of approved shade including necessary accessories. The motor shall be of reputed brand approved by Engineer- in - charge. The Venetian blinds should be motorized for 90 degree rotational.

Pressure Relief Dampers

Pressure relief dampers should be provided in each room to prevent contamination of air from clean and dirty areas. Suitably sized air pressure relief damper should be strategically placed, enabling differential room pressure to be maintained and ensure that when doors are opened between clean and dirty areas. Counter-weight balancing system should be provided in the PRD to maintain positive pressure inside the operation room.

Air pressure stabilizers should have unique capability of controlling differential pressure to close tolerance. The PRD should remain closed at pressure below the set pressure and should open fully at pressure and should open fully at pressure only fractionally above the threshold pressure. The body should be epoxy powder coated as per standard BS colors. First class electrolyzed steel plate should be used for body and with high grade SS304 stainless steel for blades.

Hatch Box

A Hatch Box can be provided in each operation theater to remove waste materials from the operation theater to Dirty linen area just adjacent to Operation Theater. Each Hatch is equipped with two doors and the door shall operate electronically. The Hatch is designed in such a way that only one door should be opened at one time. The UV light shall be installed in chamber so that it is kept on while both the doors are closed, this UV light has to be automatically turned off in case of opening of either of the doors. There shall be indicators on both side of the OT so that door open / close status can be monitored from both ends.

Surgical Scrub Stations

Compact surgical scrub sink should be designed for use in OT complex providing Surgeons with a convenient sink for pre - OT scrub up. Each fixture should be fabricated from heavy gauge type 304 stainless steel and should be seamless welded construction, polished to a stain finish. The scrub sink should be provided with a front access panel which should be easily removed for access to the water controlled value, waste connections, stoppers and strainers. Hands free operation should include infra red sensors with built-in range of adjustment.

Thermostatic mixing, valve control should be located behind the access panel and maintain constant water temperature. User defined setting of 1,3,6 to 10 min are available. This timing should be adjustable to meet individual application requirements. Provided with infrared sensors. thermostatic control taps with fail safe temperature controls. All units should have reduced anti- splash fronts. Foot operated switch should be there.

Operating Theatre Flooring

A floor screed shall be provided, flat to within a tolerance of +/3mm over any 3 meter area. Onto this sub-floor, a self -leveling compound should be laid prior to lying of the floor finish.

Copper grounding strips (0.05 mm thick, 50 mm width) shall be laid flat on the floor in the conductive adhesive and connect to copper wire of grounding. The floor finish in the operating room should be 2mm Conductive PVC tiles, laid on a semi-conductive adhesive base. The floor finish shall terminate at the room perimeter passing over a concealed cove former and continuing up the wall for 100mm. All joints shall be welded with electrodes of the same compatible material to provide a continuous sealed surface. The floor shall have an electrical resistance of 2.5 10 to10 6 Ohms, as per DIN 51953 ATM F-150 or NFPA 99. B1 class of fire resistance and should meet UL standard 779. Fulfils product requirements.

Operating List Board

The operating list board should be provided in each operating theater. It should be made of ceramic having Magnetic properties and should be flushed to the wall of the operating room.

Distribution Board

- ❖ All high voltage equipment will be installed in a separate enclosure.
- ❖ The remote cabinet will house the operating lamp transformers, mains failure relays, UPS, electrical distribution equipment & circuit protection equipment for all circuits within the operating theatre.
- ❖ All internal wiring will terminate in connectors with screw & clamp spring.
- ❖ Connections of the clip- on type mounted, on a rail & labeled with indelible proprietary labels.
- ❖ Individual fuses or miniature circuit breakers will protect all internal circuits.
- ❖ DB will have two 32A/16A extra circuits with MCCB/MCB for future uses like integration equipment, etc.

View Window with Blinds

The view window of specified size shall be providing consisting of: Double insulated fixed glazing with note less than 5mm thick toughened glass. Window frame shall be powdered coated Aluminum of approved shape flush mounted with wall paneling. Motorized horizontal Venetian Blinds of powder coated Aluminums strips of vista level of equivalent of approved shade include necessary accessories. The motor shall be of reputed brand approved by Engineer-in-charge. The ventian blinds should be motorized for 90 degree rotational

LED X-Ray Viewer Box

- ❖ LED type flat panel X-ray viewing panel.
- ❖ It will comply with relevant electrical safely codes.
- ❖ Mounting should be flush with the wall to avoid dust accumulation and growth or organisms between wall and panel.
- ❖ Body should be of extruded aluminum powder coated with bacteria resistant and disinfectant resistant finish.
- ❖ The diffuser on the front panel should be a uniformly lit screen.
- ❖ Dimming electronic control should be enclosed at the bottom of the cabinet.
- ❖ Proper spring-loaded film clip with rollers should be provided to hold the films firmly and to remove the film without scratches.
- ❖ 1 Number of dual panels viewing screen up to 14"x 17" size approx. for each plate operation theatre.

CE Certified.

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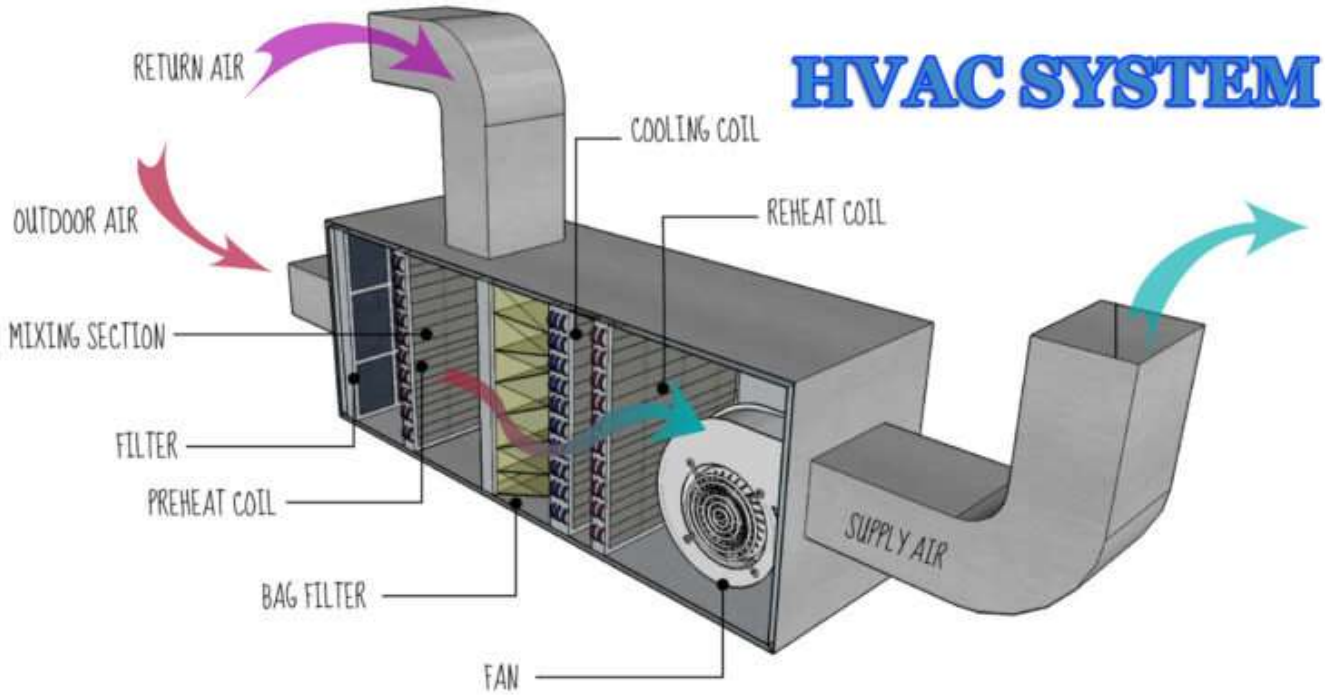
Internal HVAC Ducting & Exhaust System

- ❖ Return air exhaust grill will be provided in the OT.
- ❖ The exhaust air cabinets will be openable grill and cleanable.
- ❖ The cabinets will have suction from bottom and top also.
- ❖ Designed flow rate will be 1000 m3/hr. approx. Distribution of exhaust air volume will be divided between fluff strainers to maintain the required pressure within the theatre without causing turbulence.
- ❖ Return air exhaust cabinet is made from SS304.
- ❖ CE Certified.

HVAC SYSTEM


HVAC SYSTEM
RETURN AIR
COOLING COIL
OUTDOOR AIR
REHEAT COIL
MIXING SECTION
FILTER
PREHEAT COIL
BAG FILTER
FAN
SUPPLY AIR

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Medical Gas Pipeline System

The exacting nature of medical science focuses demand on improved medical facilities with more reliable and effective medical support services. It is primary objective of suppliers of medical gas distribution systems to provide the creative technical service and quality products that keep pace with changing needs. Since central piping systems supply medical gases in life support situations, it is essential that the reliability and integrity of the system be the responsibility of all professions- manufacturing, design, installation, testing and operation. There are four medical gas systems normally installed and piped into medical care facilities.

Oxygen is used primarily for respiratory therapy and anesthesia. Constant supply and immediate availability throughout the hospital is essential. The system is designed to provide 60 psi or 4 bar at the outlets. Nitrous oxide is used primarily used in OT area. Pressure required at each outlet is 60 psi or 4 bars.

Medical air (compressed air) is primarily used for respiratory therapy in areas like nurseries, emergency rooms, intensive care areas, etc. It is also widely used in OT area. The air used for medical purpose must be free from oil, moisture and contaminants. The system is designed to provide an outlet pressure of 60 psi or 4 bars.

Although vacuum is not a medical gas, it is an essential part of medical gas system. Vacuum is widely used throughout hospital facilities in patient treatment and in laboratory. In surgical recovery and intensive care areas, it is used to remove fluids from incisions and assists vital post- operative drainage. Vacuum systems are normally designed to provide 15-20" of Hg at the furthest point from the central vacuum system.

For ensuring this, the entire system need to be designed, installed and commissioned with high degree of technical expertise skill and experience. The design and planning of a medical gas distribution system may be divided under the
following:

- Location where it is required and the number of outlets.
- System pipeline routing and determination of size of pipes.
- Medical gas supply source.
- Intermediate pipeline controls
- Gas service outlets
- Critical care area equipment
- Alarm monitoring equipment
- System specification

INTERNATIONAL DESING & SAFETY

standards followed worldwide include NFPA 99 (USA), HTM 2022(UK), DIN (Germany), CSA (Canada),EN (Europe) etc. Following standard ensures safety, low infection rate, low post-operative care, and assurance of the functionality of the system. It gives confidence to the medical fraternity and works out to be more economical. It also helps in obtaining the acceptance of the accreditation authority, health insurance sector and avoids medico legal complications.

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Hook Loose Type

- The Medical Gas outlets combines case of installation and low cost Maintenance
- Non-Interchangeable self-sealing quick connect gas outlet for Oxygen/N20/VaccumCA 4/CA 7/Co2
- Available for head wall unit/wall/pendant units
- Double locking (secondary) facility
- Front fascia of Gas outlets are non-interchangeable and gas color coded.
- Secondary isolating value allows the maintenance of the gas outlet without the need for a pipeline system shutdown

Front Loaded

- The Medical Gas outlet combines case of installation and low cost maintenance
- Non-Interchangeable self-sealing quick connect gas outlet for Oxygen/N20/Vacuum/C.A.4/C.A.7/CO2
- Available for head wall unit/wall/pendant units
- Double locking (secondary) facility
- Front fascia of Gas outlets are no-interchangeable and gas color coded
- Secondary isolating value allows the maintenance of the gas outlet without the need for a pipeline system shutdown.

Terminal Units

Terminal Units (Sapphire) with probes/ADAptors of 02, N20, Vacuum Gas outlet Points (sapphire type) will accept, retain and release the probe/adaptor by means of quick release mechanism designed for single handed operation. The unit shall have a check valve, which is self-sealing when front fascia of the outlet is removed. The Terminal unit and probe connection shall be non-swivel type. A secondary lock arrangement is also available to keep the outlet in parking position. The outlets are completely non-interchangeable at any level of assembly. This outlet point has only two neoprene.

Vertical Panel

- The construction of the wall section is made of extruded aluminum
- The extruded aluminum structural lower channel will include a vertical integrate equipment mounting track to support optical track mounted equipment
- Optional equipment like I.V. Hook, Infusion pole, utility basket, Monitor tray etc. can be install into the track at any location along the extruded aluminum channel

Critrunk

Robustrunk

Lumipan

Manifold System (oxygen/ N20)

- 2-cylinder module manifold header
- Each Header is interconnected by extension pipe
- Configurable in multiple of two to increase capacity as and when required
- Each cylinder is connected through High Pressure (HP) Non-Return Valve (NRV) to header
- Each module is supplied with one end blocker with Copper washer
- Gas specific connections to manifold header
- Connection option of HP Flexible hose (IS / ISO 21969: 2009) or annealed Copper tailpipe
- Suitable for all variants of Medical Gases
- Header mounted on AISI 304 Stainless Steel to avoid corrosion

Conforms to: IS / ISO 7396 - 1 : 2016 + A1 : 2017 HTM 02-01 Part A : 2006

Certifications: ISO 13485:2016 – Medical devices – Quality Management Systems ISO 9001:2015 - Quality Management Systems

Oxygen Flow Meter with Humidifier Bottle (BPC)

We are producers of BPC Flow Meter, which is strong and reliable made by imbibing latest technical improvements for a precise measuring of the flow.

- It will be made of nickel - plated brass body.
- It will be back pressure compensated, double iacket with flow gradations marked on it. Desired flow will be settled through rotatory knob.
- Flow range should be between 0- 15 Lpm. Transparent and unbreakable type humidifier bottles, to provide bubble type humidification, made of polycarbonate to be installed with nut and nipple type connections.
- Humidifies bottle is available with safety valve features.

Ward Suction Unit

The system should be wall-mounted type operated by central vacuum. It includes vacuum regulator range from 0-760 mm Hg. User can vary negative pressure as per patient requirement. Vacuum gauge size 2”- and 600-ml capacity autoclavable plastic jar with overflow safety trap will be provided. Ward suction un it should be provided with required high- and low-pressure tubing.

Theater Suction Unit

It will be trolley mounted. The unit will include one regulator having gauge mounted on the trolley stand. having two re-usable each 2000 ml plastic collection bottles mounted on base of trolley unit and connected with regulator and low-pressure tube inter connections. The base of the trolley is fitted on castor wheel arrangement to move the system one place to another place easily.

Medical Gas Terminal Unit

Features:

- Terminal Unit with full range of mounting option
- Gas type Germany / British
- British standard complies with B.S.5682, BS EN737-1, HTM2022, HTM02, C11
- Germany standard comply with DIN 13260-2
- All metal construction
- Individually tested, easy and quick to install
- Low maintenance with internal valve for service
- Accessories with installation kit for fix terminal unit & connect to pipe or hose
- Terminal unit with 360°rotary dustproof cover
- Once molded processing of terminal unit base gas inlet no welding no oxide.

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Isolator

Zonal Valve Box / Area Valve Service Unit (AVSU)

Features

- Fully isolate area in emergency, maintenance, extension etc.
- Valves housed in secured metallic box
- Full bore ball valves are medical compatible and comply with Pressure
- Equipment Directive 97/23/EC
- Flared tube ends for easy insertion of connecting tube
- Stub ends covered for dust protection
- Acrylic window for clear visibility of in-line pressure reading
- Window breakable in case of emergency
- **Conforms to:** BS EN 331 : 2015 IS / ISO 7396 - 1 : 2016 + A1 : 2017
- **Certifications:** ISO 13485:2016 – Medical devices – Quality Management Systems
  ISO 9001: 2015 Quality Management Systems

3 Gas Zonal Valve Box

Technical Specification: -

Conforms to	BS EN 331 : 2015, IS / ISO 7396 : 2016 + A1 : 2017				
Flow rate @ 4.2 bar (max)	1500 LPM				
Maximum Pressure	30 bar				
OD of Stub end	15 mm (22 mm for Vacuum)				
Length of Stub end	75 mm each side				
Tighten proof	50 bar				
Closing / Opening of Valve	90° (1/4th turn)				
Working Temperature	-20 °C to 60 °C [-4 °F to 140 °F]				
Gases	O_2, N_2O, AIR 4, AIR 7, CO_2, Mixed Gases & Vacuum				
Regulatory Status	Complies with Medical Devices Directive 93/42/EEC and Pressure Equipment Directive 97/23/ EC.				
Overall dimensions (in mm) (L × H × W)	2 Gas	3 Gas	4 Gas	5 Gas	6 Gas
	375 × 270 × 142	375 × 360 × 142	375 × 450 × 142	375 × 540 × 142	375 × 630 × 142

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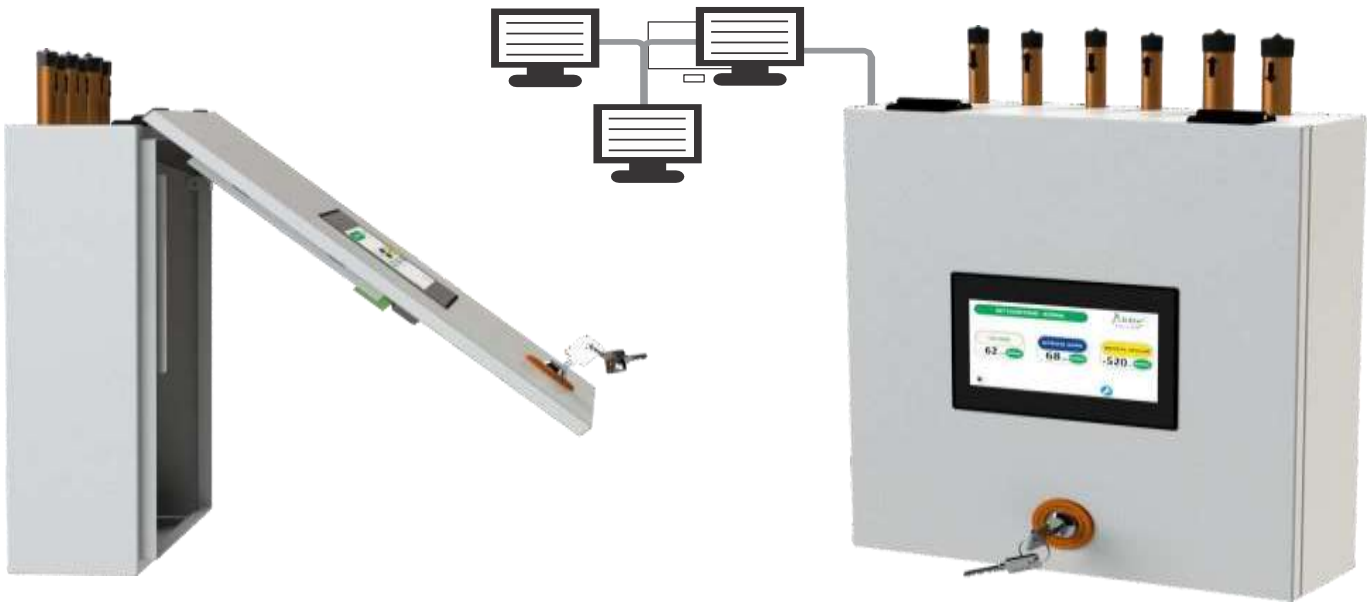
Shield Excel

Digital Flow Care Pipe Line Alarm with Area Isolation

Features

- PLC based HM1 LCD touch screen display
- Highly accurate pressure transducer
- Suitable for all medical Gases & Vacuum
- Digital & illuminated digital display of “Normal”, “High” & “Low”
- Digital pressure unit display options - psi / bar or kg/cm2
- Adjustment & parameter setting by touch button
- Operational parameters can be set in-situ
- Audio mute option
- Reusable lock assembly
- Powder coated aesthetically designed enclosure
- Enclosure separable from the base for ease of installation
- Front door opens up vertically for comfortable access
- PED: 2014/68/EU certified full port Ball Valve (PN 30)
- Long extension copper pipes to connect MGPS network
- Protocol Modbus TCP/IP2 RS485
- B.M.S. Connectivity

Dimensions



Technical Specifications

Conforms to	IS / ISO 7396 - 1 : 2016, HTM 02-01 Part A, IS / ISO IEC 60601 – 1 : 2015 + A1 : 2020 ISO 18082 : 2014 + A1 : 2017			
Body	Fire retardant dust-proof CRCA 18 SWG steel enclosure			
Finish	Powder coating - Enclosure RAL 7035 grain finish			
Mounting type	Horizontal - Surface mountable (Cover opens up vertically)			
Gas services	2 & 3 Gas module	4 Gas module	5 Gas module	6 Gas module
(W × H × T in mm)	370 × 450 × 115	470 × 450 × 115	570 × 450 × 115	670 × 450 × 115
Gas & Vacuum connections	Pre-piped "K" type medical grade Copper extension pipe 125mm long on the top (Riser) for connecting network gas services			
Extension pipe size	15 mm dia for Gases & 22 mm dia for Vacuum with laser engraved direction signage			
Off-line connection	Gas specific NIST connections with NRV provided for external medical gas supply			
Flow through NIST	Emergency/maintenance inlet flow rate of 500 lpm at 4 bar			
Shut-off Valve	Full port ball valves (PN 30) with quarter turn (90°) through butterfly knob			
Power connection	External 220V AC (50 Hz) to 12V DC adapter for audio visual display			
Warning system	Microprocessor based warning module adjustable in-situ to set operational parameters and digital pressure unit in psi / bar or kg/cm^2			
Display & Audio signal	Digital & illuminated digital display for "Normal", "High" & "Low" with High/low alarm set-points for each gas (Low only for Vacuum) service			
	Flashing digital display coupled with audio warning in case of preset deviation with the provision to "Mute" audio signal for 15 minutes max			
	Minimum size of 20 x 14 mm bright LED signals for clear visibility from distance			
Sensors	Fully calibrated and temperature compensated Application Specific Integrated Circuit signal conditioning (in a Brass housing) Pressure Sensors a. Total Error Band: ±1.0% FSS (Full Scale Span) from -20 °C to 85 °C [-4 °F to 185 °F] b. Sensing pressure span: 60 mbar to 10 bar [1 psi to 150 psi] Digital Output c. Temperature span: -30 °C to 50 °C [-22 °F to 122 °F]			
Information & Control	The information of alarm, current status & test conditions through “Touch button”			
Display & Audio blocker	Provision to block display & audio signal of a particular supply line for long service period is built-in			
Valve access	Re-useable lock assembly after breaking lock by hand push to gain access			
Earthing	Protective earth			
Protection	Class II & IP54			
Certifications	ISO 13485:2016 – Medical devices – Quality management systems ISO 9001:2015 - Quality management systems Pressure Equipment Directive 2014/68/EU			

MEDIGLOBE
Medical Systems Pvt. Ltd.

Shield

Digital Flow Care Pipe Line Alarm with Area Isolation

Features

- Microprocessor based module
- Highly accurate “Heavy Duty” pressure transducer
- Designed to serve 2, 3, 4 & 5 gas module
- Suitable for all medical Gases & Vacuum
- Digital & illuminated LED display of “Normal”, “High” & “Low”
- Digital pressure unit display options - psi / bar or kg/cm^2
- Adjustment & parameter setting by touch button
- Operational parameters can be set in-situ
- Audio mute option
- Reusable lock assembly
- Powder coated aesthetically designed enclosure
- Enclosure separable from the base for ease of installation
- Front door opens up vertically for comfortable access
- PED: 2014/68/EU certified full port Ball Valve (PN 30)
- Long extension copper pipes to connect MGPS network

Working Principle

Ball Valves are used to start or stop a flow. In Medical Gas Pipeline System (MGPS), the valves are normally kept open i.e. allow the gas to flow unless it is required to shut-off the gas supply for scheduled maintenance or emergency situation.

The importance of full bore ball valves is to reduce pressure drop to almost negligible in the pipeline distribution system so that the designed pressure is available at the outlet point.

Integrated pressure monitoring with audio visual alarm make the unit a 24 x 7 surveillance system to care givers.

Intended Use

To isolate specific medical gas / gases or vacuum supplies to a section, area or a zone of Medical Gas Pipeline System (MGPS) network. AVSUs are installed in a convenient, accessible location to facilitate local isolation of individual service of medical gas and vacuum required for installation, maintenance or in the event of an emergency. It is also used to monitor and digitally display gas or vacuum pressure at the installed zone or area.

Valves are “Normally Open” during operation and is accessed via a key. However in case of emergency, quick access
to shut-off the valve is ensured by hard punch on the re-useable lock on the door.

Shield has been designed to service Oxygen, Nitrous Oxide, Medical Air (AR 4), surgical Air (AR 7) & Vacuum.

MEDIGLOBE
Medical Systems Pvt. Ltd.

Cronus Master Alarm

Digital Flow Care Master Alarm for Medical Gas Pipeline System

Features:

- **Highly visible 10^{11} (254 mm) HMI screen**
- Pressure sensing through piezoresistive sensin
- technology
- Alarms can be monitored audio-visual
- Touch screen operation
- Comprehensive monitoring of all the medical gases and vacuum
- Real time updating of status
- Programmable pressure unit display (bar, kg/cm2& mmHg)
- Audio mute option
- Designed to serve 16 area/zone alarms
- Powered by 220V AC to 24V DC external adapter

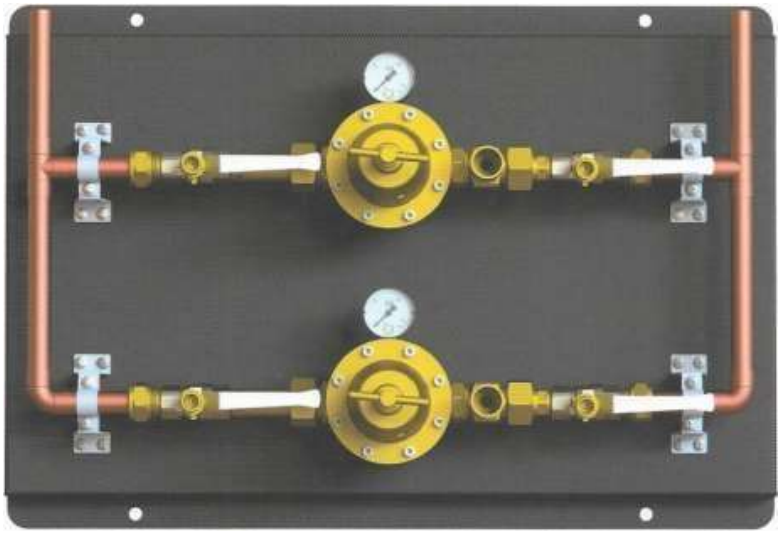
Ordering Code

Device Name	Device Model	Device Cod
Cronus Excel Master Alarm	Surface Mount	6065110
		6065210
		6065310
		6065410
		6065510
		6065610

MEDIGLOBE
Medical Systems Pvt. Ltd.

MEDICAL OXYGEN PRESSURE REDUCING STATION

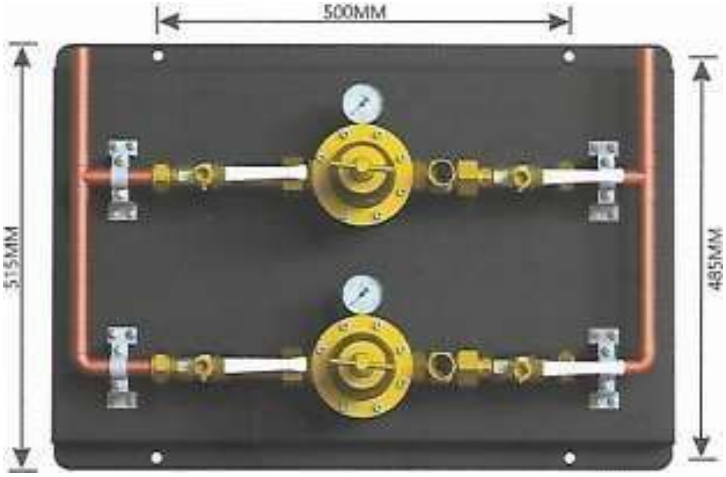
2 Stage Medical Gas Pipeline System

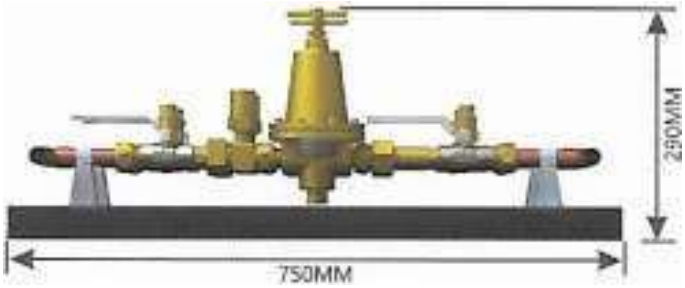


Features

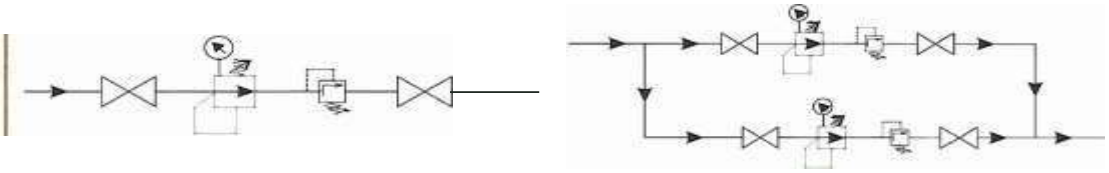
- Precise pressure reduction control for optimal performance
- Compact design and easy installation
- Robust construction ensures long-term durability
- Safety feature for reliable over pressure protection
- Suitable for medical oxygen
- Pressure reduction station ensure high accuracy in outlet pressure control
- Lockable *valve* ensures accident protection

Dimension





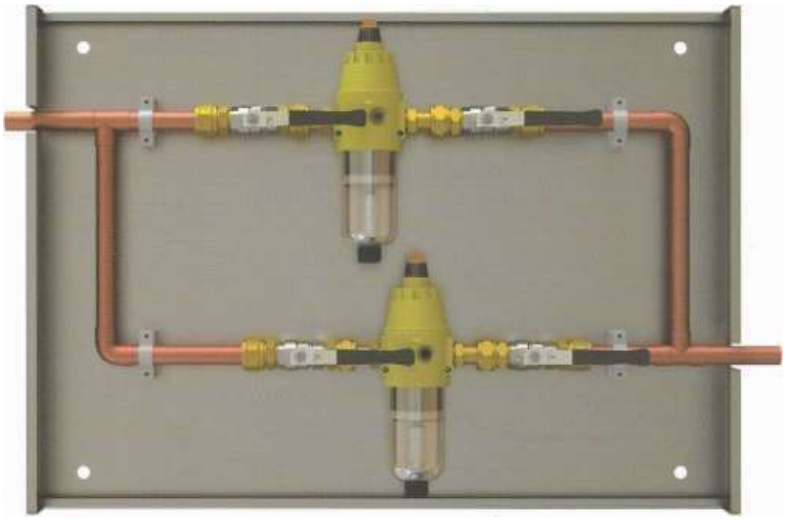
Schematic Diagram



MEDIGLOBE
Medical Systems Pvt. Ltd.

MEDICAL AIR PRESSURE REDUCINGSTATION

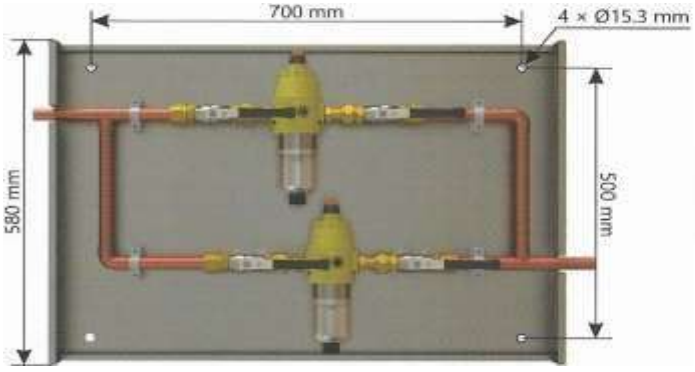
2 Stage Medical Gas Pipeline System

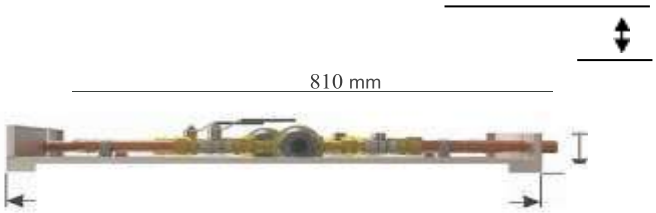


Features

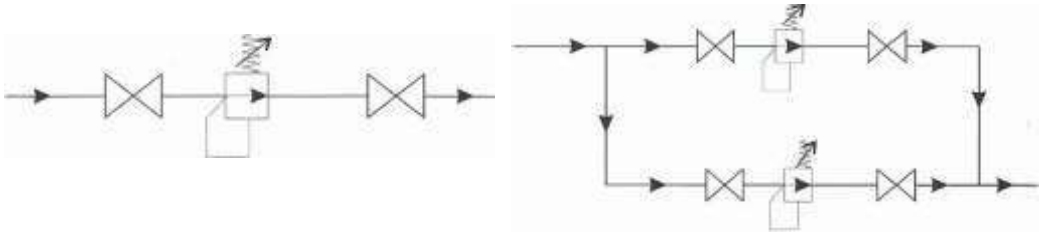
- Precise pressure reduction control for optimal performance
- Compact design and easy installation
- Robust construction ensures long-term durability
- Filters and strainers
- Suitable for medical air and surgical air
- Pressure reduction station ensure high accuracy in outlet pressure control

Dimensions





Schematic Diagram



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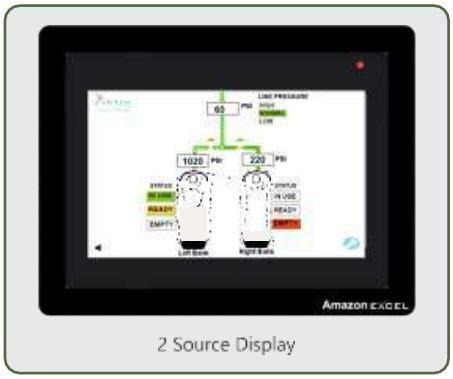
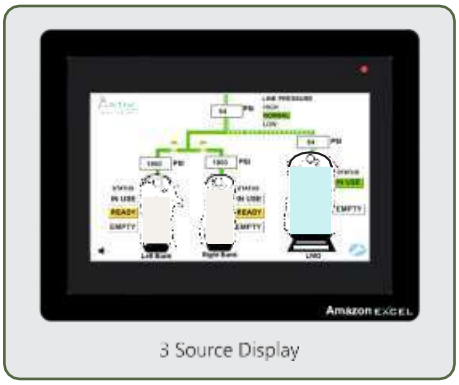
Changeover Unit

Medical Gas Pipeline System



2 Source Display



3 Source Display

Features:

- PLC – controlled auto change-over
- Available in 2 source/ 3 source and 4 sources
- Constant uninterrupted supply of gases
- High flow output- 2100 lpm@ 4.2 bar
- Stable discharge pressure & flow
- Digital visual & audible signal
- Pressure unit display options – bar, psi & kg/ cm
- Optimization of residual gas in cylinders
- HMI Based LCD
- Highly visible 7” (178 mm) LCD screen
- Touch screen operation
- Real time alarm updating of status SMS & E-Mail
- Auto mute option
- Building Management Software (BMS) compatible

MEDIGLOBE
Medical Systems Pvt. Ltd.

Essentia

Medical Gas Flowmeter For Respiratory Therapy

Features:

- Back pressure compensated design to give specified accuracy for entire range
- Standard Thorpe style for medical Oxygen (Adult, Pediatric, Neonate: & Medical Air
- Precise step-less control
- Chromium plated Brass body with SS 304 wire mesh filter
- Durable impact resistant Polycarbonate measuring tube and outer tube
- Transparent, clearly readable and permanent graduated column
- Adaptable to Quick connect or DI5S probes/ connectors
- Standard 1/8" BSPT with option of 3/8" BSP RH inlet connection
- Suitable for MGPS or through regulator with steady 4 bar outlet pressure
- IS/ISO 15002: 2008, IS/IS0 7396-1: 2016+ A1: 2017, HTM 02-01

Dimensions (mm)

MEDIGLOBE
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Vacuity Basic

Suction Regulator Vacuum for Healthcare

Features

- Designed for centralized vacuum system
- Precision step less control to ensure high-stability
- Suitable for complex suction procedures
- Two stage protection from system contamination
- Vacuum trap in series
- Easily replaceable hydrophobic microbiological filter
- ON/OFF switch for quick opening and closing
- Compatible to commonly used probes / connectors
- Mountable directly on terminal units or rail system

Application Possibilities

1. Nasal suction
2. Gastrointestinal suction
3. Tracheal suctioning
4. Oral suction
5. Nasopharyngeal or pharyngeal suction

Dimensions

Technical Specifications

Conforms to : IS / ISO 10079 - 3 : 2014, IS / ISO 7396 - 1 : 2016 + A1 : 2017, HTM 02-01 Part A-2006

Model	Description	Controllable Range (mmHg)	Gauge Range (mmHg)	Free Flow (lpm)	Ordering Code
Vacuity Basic Adult	Adult regulator with analog gauge and trap bottle + filter	0-300	0-760	0-60	6022330
Vacuity Basic Pediatric	Pediatric regulator with analog gauge and trap bottle + filter	0-100	0-300	0-40	6022430

Notes:
1. Operational only with centralized vacuum system of MGPS at (-)600mmHg /(-)800mbar) line pressure.
2. Gauge indicator - Counter clockwise movement.
3. Vacuum regulators are compatible to American, British, DIN and outlets of other standards (optional).
4. Refer to "Vacuity Collection Jar" brochure for compatible Collection Jars.

Accessories:

Trap Bottle
Ordering Code: 6022510

Bacteria Filter (Pack of 20)
Ordering Code: 6022511

MEDIGLOBE
Medical Systems Pvt. Ltd.

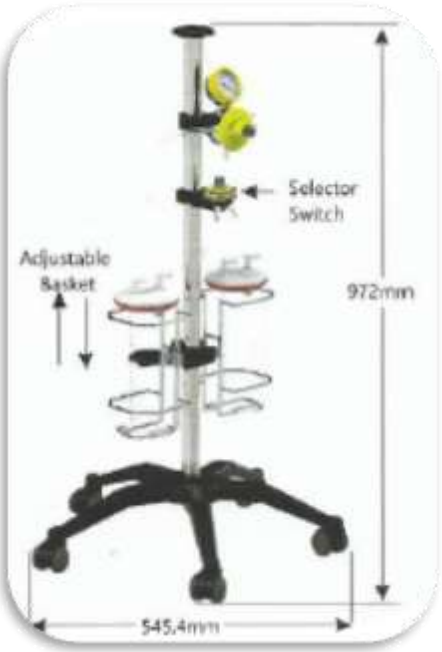
Necessita 300

Medical Vacuum Theatre Suction System

Features

- Smooth Mobility
- Easy access to selector switch
- Stand trolly mounted on 5 castor base wheels
- Controllable & Stable vacuum for procedure
- 90-degree angular interface connection
- Easy to sterilize at 121ºC and disinfect from bacteria
- Support 2 Nos of 2000ml/3500ml jar
- Overflow prevention trap on each collection jar
- Step-less vacuum regulation within the range
- Leak proof seal on jars

Front View



Optional

- Two extra 2000ml/3500ml collection jars with 2 SS wire basket holders to increase the capacity to total 4000ml/7000ml
- Vacuum tube (12mm OD & 6mm ID) of any length conforming to BS EN ISO: 10079-3:2014
- Connector/Probe compatible to DISS, BS, DIN, PB, DIN & OHMEDA
- Polycarbonate jars auto clave able at a temperature of 121°C for 15 minutes
- 90-degree angular interface
- Pediatric suction with controllable vacuum ranges from 0-160mm Hg

MEDIGLOBE
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Medio Series

Bedhead Panel – Horizontal Care Unit

Medio 900

Configuration : 2 Outlets & 3 Multi Standard 220V AC sockets

Medio 1200

Configuration : 3 Outlets & 4 Multi Standard 220V AC sockets

Medio 1500

Configuration : 5 Outlets & 4 Multi Standard 220V AC sockets, 1 each RJ11 Telephone socket & RJ45 Data socket

Medio 1800

Configuration : 5 Outlets & 6 Multi Standard 220V AC sockets, 1 each RJ11 Telephone socket & RJ45 Data Socket and provision of protective earth (Earthing)

Special Features

- Innovative design – Efficient, simple & accessible
- Versatility – Configurable & economic adaptation of various services
- Aesthetics – High quality surface finish, epoxy coated to RAL 7035 (Textured)
- Smooth profile – Minimize adherence of dust particles
- Extruded aluminum frame – Rigidity & ease of interior accessibility to service
- Separate compartments - for LV, ELV and Piped Gas
- Non-disruptive maintenance of BS Outlet - Shut down of line gas is avoided
- Option of concealed gas connections and choice of outlet

MEDIGLOBE
Medical Systems Pvt. Ltd.

Evacuator

AGSS Unit A Solution to Occupational Health Hazard

DOUBLE BLOWER UNIT

Special Features

- Robust & Compact design
- User friendly controller
- Low 110V Remote Switches
- Choice of Single or Double Blower Unit
- High performance side channel blowers from Germany
- Optional Simple & Durable remote start switches
- Compliance: MDR 2017 / 745

SINGLE BLOWER UNIT

Optional Features

- Remote operation from multiple OTs available
- Receiving unit with Transfer & Evacuation Hose
- recommended for each OT connected to the system

Technical & Ordering Information

Model	Type	System Capacity	Electrical Input	Power	Ordering Code
AGS-M – 4 – OR	Mono	650 LPM	3 Phase, 345-415V 50Hz	0.85 kW	6071000
AGS-M – 8 – OR	Mono	1300 LPM		1.3 kW	6072000
AGS-M – 12 – OR	Mono	2080 LPM		1.6 kW	6073000
AGS-D – 4 – OR	Duo	650 LPM	3 Phase, 345-415V 50Hz	0.85 kW	6074000
AGS-D – 8 – OR	Duo	1300 LPM		1.3 kW	6075000
AGS-D – 12 – OR	Duo	2080 LPM		1.6 kW	6076000
Note: Suction capacity measured at intake of the unit at -125mbar (-1.5psig approx.)					

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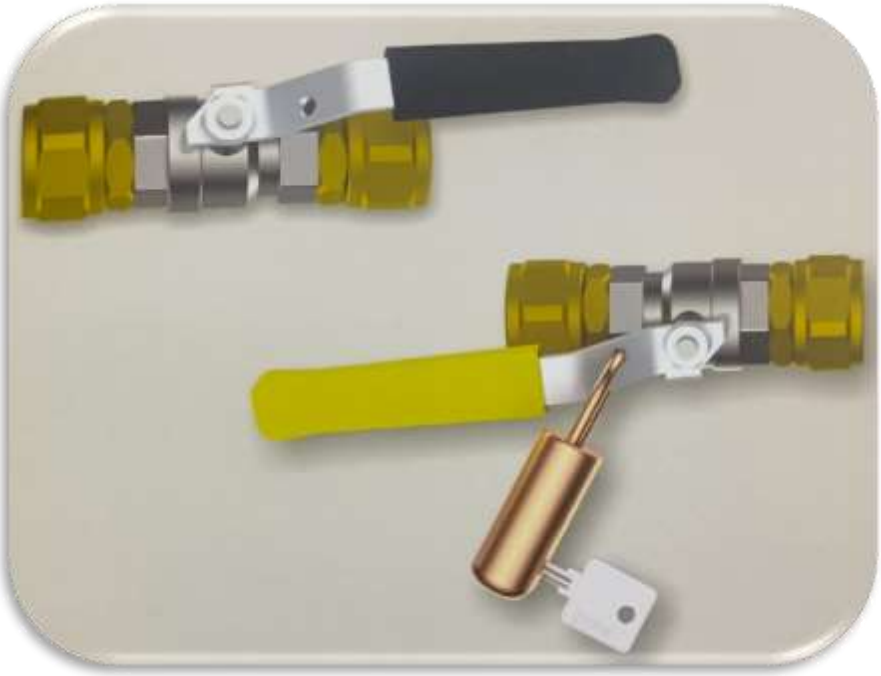
Fittings

Medical Gas Pipeline System



Features

- One stop solution for all Medical Gas Pipeline System fittings
- Fittings precision machined in CNC Turning Centers
- Comply with International Medical Standards
- Manufacturing in ISO 13485:2016 accredited factory

Ball Valves

Low Pressure Lockable Valves

Valve Thread Size (BSP)	Copper Pipe OD Size	Order Ref	Valve Thread Size (BSP)	Copper Pipe OD Size	Order Ref
3/8”	12 mm	6101050	1 1/4 “	35 mm	6101450
1/2”	15 mm	6101150	1 ½ “	42 mm	6101550
3/4”	22 mm	6101250	2”	54 mm	6101650
1”	28 mm	6101350	3”	76 mm	6101750

Low Pressure Valves

Valve Thread Size (BSP)	Copper Pipe OD Size	Order Ref	Valve Thread Size (BSP)	Copper Pipe OD Size	Order Ref
3/8”	12 mm	6101050	1 1/4 “	35 mm	6101450
1/2”	15 mm	6101150	1 ½ “	42 mm	6101550
3/4”	22 mm	6101250	2”	54 mm	6101650
1”	28 mm	6101350	3”	76 mm	6101750

Pipe Support Clamps

Designed in accordance with
IS/ ISO 7396 – 1: 2016 + A1: 2017

Copper Pipe OD Size	Order Ref. Ref	Copper Pipe OD Size	Order Ref.
12 mm	6050100	35 mm	6050104
15 mm	6050101	42 mm	6050105
22 mm	6050102	54 mm	6050106
28 mm	6050103	76 mm	6050107

Metallic Clamp (Zinc coated)

for horizontal and vertical surfaces & suspension

Copper Pipe OD Size	Order Ref. Ref
42 mm	6050205
54 mm	6050206
76 mm	6050207

Saddles Clip-on type (Plastic)

for horizontal and vertical surfaces

Copper Pipe OD Size	Order Ref. Ref	Copper Pipe OD Size	Order Ref.
12 mm	6050200	28 mm	6050203
15 mm	6050201	35 mm	6050204
22 mm	6050202		

NIST Screw connectors with Check Valve, Nut and Nipple Barb
(Conforms to IS/ ISO 18082: 2014 + A1: 2017)

- Mounting safety
- Oxygen cleaned Copper Pipe
- Precision machine threaded Brass coupling
- Different gas services & sizes available
- Components are laser marked for easy identification
- Customized design on request

Ordering Information

Oxygen	N_2O	AIR	4	AIR	7	Vacuum	CO_2
6113100	6113400	6113300		6113500		6113200	6113600

Hose Assemblies

Conforms to : IS / ISO 5359 : 2014 + A1 : 2017, BS EN 1089 - 3 : 2011, IS / ISO 32 : 1977, IS / ISO 9170 - 1 : 2017 IS / ISO 10079 - 1 : 2015 + A1 : 2018

Ordering Information

Configure the hose assembly:

Source End Connector	Code	Medical Gas	Code	Patient End Connector	Code	Standard Length (L) in cm
BS type	3	Oxygen	1	1/8" BSP Nut & Nipple barbed	1	Standard L60 / L80 / L300 / L500
DIN type	8	Nitrous Oxide	4	3/8" BSP Nut & Nipple barbed	3	Contact for customized length LXX / LXXX
DISS type	6	Vacuum	2	NIST Nut & Nipple barbed	9	
OHMEDA type	4	Med. Air AR-4	3			
PB type	1	Med. Air AR-7	5			
Parkodex type	2	Carbon Di-oxide	6			
NIST type	9	AGSS	7			
Others	0	Specify Gas Service	x			

- Configure to order example: **H821L60** = DIN probe for Vacuum with 1/8" nut & nipple having 600 mm hose length
- Non-standard configuration: **0** (Specify probe standard) **X** (Specify gas) **X** (Specify patient end connector) **LXX** or **XXX** (specify length in cm)
- Contact to customize configuration

CERTIFICATIONS

ISO 9001:2015, ISO 45001:2018, ISO 13485:2016, ISO 4001:2015
And CE Certified Company








C.G.PWD Class-A & M.P. PWD Registered Company


Our Principal Client's

- CG PWD (C.G.)
- CGMSC Limited
- MP PWD
- PWD-PIU
- Medical Colleges
- N.M.D.C. Limited
- Directorate of Health Services (DHS)
- National Health Mission (NHM)
- All India Institute of Medical Science (AIIMS)
- Chief Medical & Health Officer (CMHO)
- District Hospital's
- Gas Rahat Division- Bhopal

- DKS Post Graduate Institute and Research Center, Raipur (C.G.)
- Lt. Shri Lakhiram Agrawal Memorial Medical College- Raigarh (C.G.)
- Lt. Shri Baliram Ram Kashyap Memorial Medical College- Jagdalpur (C.G.)
- District Hospital- Bijapur (C.G.)
- District Hospital & Maharani Hospital – Jagdalpur
- District Hospital – Balrampur (C.G.)
- M.Y. Hospital (MGM Medical College)- Indore (M.P.)
- Govt. Medical College- Sagar (M.P.)
- Govt. Medical College- Datia (M.P.)
- Govt. Medical College- Rewa (M.P.)
- Govt. Medical College- Shivpuri (M.P.)
- Govt. Medical College- Jabalpur (M.P.)
- Shri Balaji Super Speciality Hospital & Medical College - Raipur (C.G.)
- Suyash Hospital- Raipur (C.G.)
- Sanjeevani Nursing Home – Raigarh (C.G.)
- Jeevan Jyoti Superspeciality Hospital- Ambikapur (C.G.)
- Aarogya Hospital & Test Tube Baby Center- Raipur (C.G.)
- Mahadev Hospital – Bilaspur (C.G.)
- Shri Medi Shine Hospital – Raipur (C.G.)
- Metro Hospital – Raigarh (C.G.)
- L.N. Medical College & Research Center- Bhopal
- District Hospital – Baloda Bazar
- District Hospital's – (Mandla, Dindori, Hoshangabad, Narsingpur, Betul, Barwani, Burhanpur, Anooppur, alirajpur, Khandwa, Barwani, Jhabua, Seoni, Sehor, Gwalior, Sagar, Bhopal, Rewa, Rajgarh, Guna)

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Modular ICU Setup

Modular ICU Setup at DKS Hospital Raipur

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Modular OT Setup

Modular OT Setup at DKS Hospital Raipur

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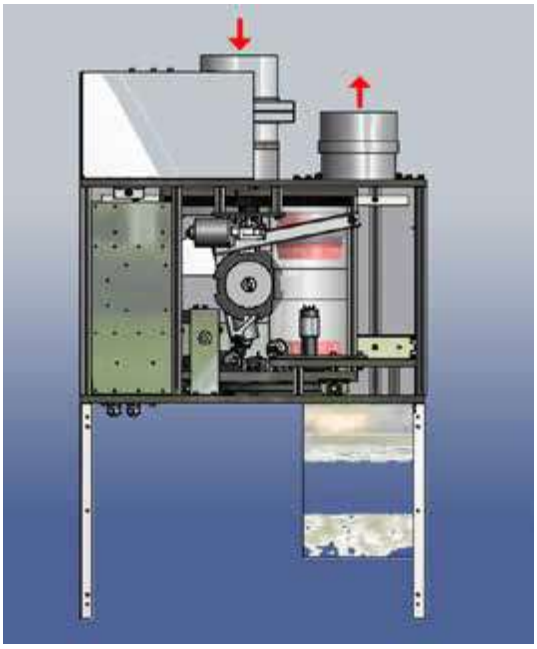
Pneumatic Tube Systems



Automatic unloading of our carriers in AD 160. Carriers are automatically returned to their home address.

Advantages of our system:
- no special carriers required
- separate entry for receipt and exit for return of empty carriers improve the system ‘s efficiency.

Aerocom stations compliment the appearance of any hospital environment. They are the perfect blend of contemporary design and exceptional ergonomics. Stations are equipped with an easy to read,

easy to follow, LCD menu that makes selecting
a destination and system activation as
simple as can be.

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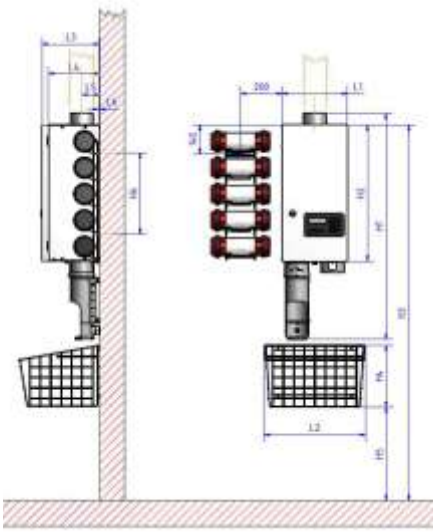
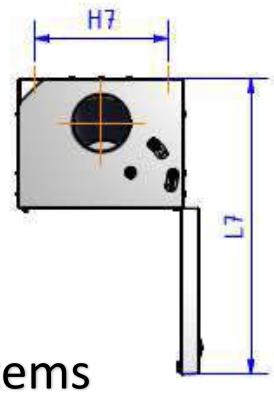
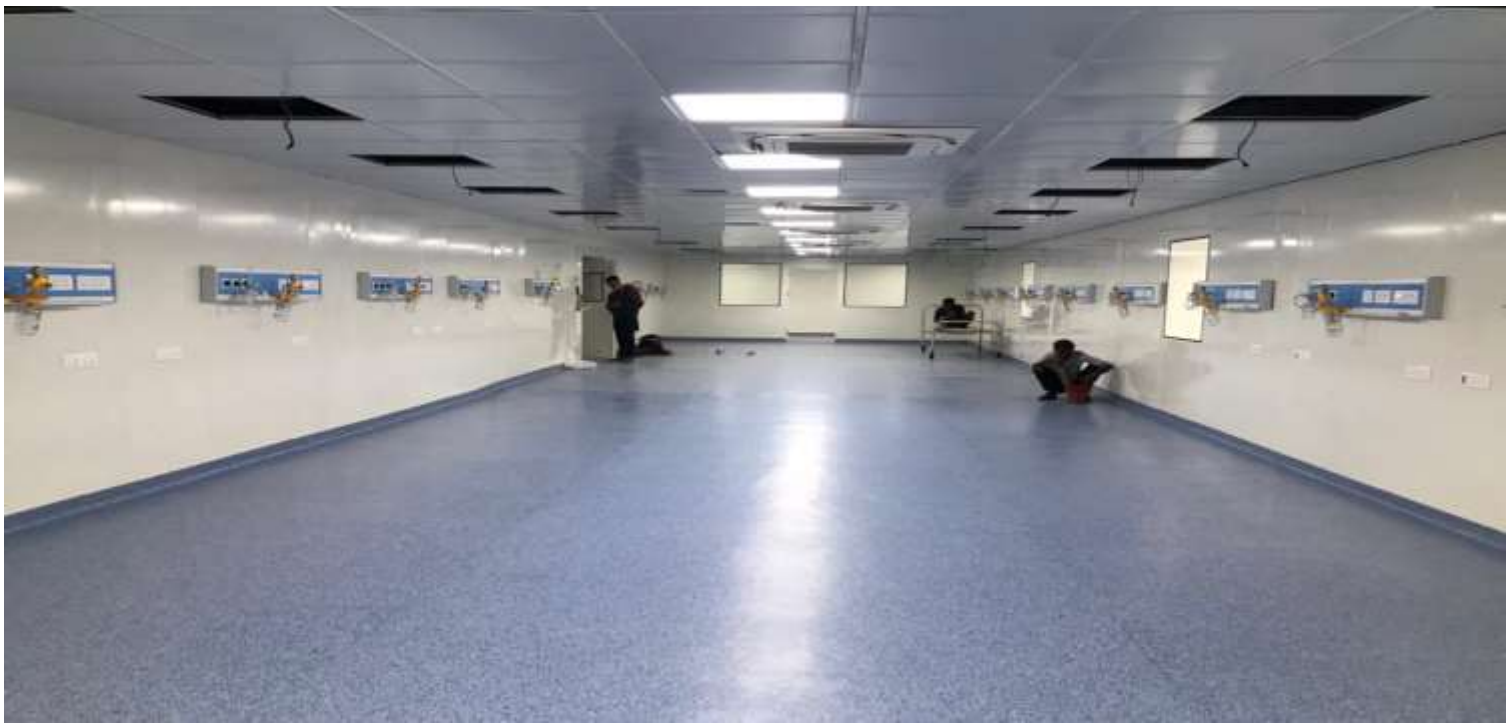




Pneumatic Tube Systems

Site Construction Work



Ceiling Work

Electrification Work

Battery & USP System

Civil Construction Work

Electrification Work

Hospital's

Maharani Hospital- Jagdalpur (C.G.)

Govt. Medical College- Jagdalpur (C.G.)

Suyash Hospital – Raipur (C.G.)

Mahadev Superspeciality hospital- Bilaspur(C.G.)

Shri Balaji Super Speciality Hospital & Medical College - Raipur (C.G.)

M.Y. Hospital & Medical College- Indore (M.P.)

Turnkey Project Solution Provided by us: -

- Hospital Drawing & Design with Civil Construction, Electrification, Plumbing, PMC etc.
- Modular Operation Theatre
- Modular ICU Setup
- Medical Gas Pipeline Systems
- Pneumatic Systems
- Fire Fighting Work
- All Type Hospital Equipment's
- All Type Imported Modular Furniture's
- All Type Hospital Equipment's Installation & Services

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Engineering the future of healthcare

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