CMS - Innovative Healthcare Products

CMS
COMPETENT MEDICAL SYSTEM (INDIA) PVT. LTD.
10 YEARS EXPERIENCE








COMPETENT MEDICAL SYSTEM (INDIA) PVT. LTD.

Company Profile

Competent Medical System (India) Pvt. Ltd is an ISO 9001 registered company. It is currently one of the leading modular operating theater department construction and medical systems engineering specialists, leading the way in the provision of quality healthcare on a truly global basis backed by a wealth of technical expertise and extensive experience in the field of medical engineering.

The company was set up in 2009-2010 as the latest technology available in the world. The group aims to become the India's premier, specialist medical engineering healthcare provider.

Over 3 years of experience in the field of manufacturing & installation of Prefabricated Jointless Modular Operation Theaters, Medical Gas Pipeline system & other critical area's equipment, CMS has carried out No of prefers of significant magnitude in various parts of India.

CMS (India) is actively involved in the preparation of International Medical Gas & Operation Theater Standards. CMS (India) provides full technical support and design services, we understand our customer' needs and provide a complete, safe, maintainable cost effective system.

Performance and reliability are built upon experience and commitment. Many companies can supply products, but can they provide the technical back-up, maintenance and support.

CMS has over 3 years experience in the Healthcare industry, and a proven track record.

CMS (India) Pvt. Ltd. offers total turnkey solutions to hospitals and absorbs all the complexities in building most critical areas of hospitals i.e. O.T.s, ICUs etc.

Commitment

CMS does not simply sell products. Throughout its complete range, the company offers high-end quality products.

The company has diversified on the strength of its medical gas pipeline business, the major expansion being the addition of a specialist medical engineering division.

CMS continues to invest heavily in research and development in order to improve and expand its product range and services.

However, despite the expansion of the business into new products areas, the focus of the business remains purely in the medical field.



Pre-Fabricated Operating Rooms

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Overview

The most complex and challenging area of hospitalconstruction is the operating department. The large number of specialist requirements and the extensive range of services may cause serious co-ordination problems. The mgi Theatreplan™ is a pre-engineered integratedapproach to the construction and co-ordination of operating rooms. The pre-engineered approach solves the problems of co-ordination, which may be encountered during the construction or refurbishment of the modern operating theatre department, whilst simultaneously providing a structure of the highest quality and standards.

Essential Features

The CMS Pre-fabricated Operating Thratre is a structural steel shell with a jointless sealed sterile coating, which may be supplied as an individual unit or as part of a complete operating theatre department.

The Pre-fabricated operating Theatre offers the advantages of speed of construction combined with flexibility of design, allowing for future expansion in line with developments in surgical techniques and new equipment, with developments in surgical techniques and new equipment, with the minimum of inconvenience to the hospital.

A specially designed steel frame, free standing or supported by the building fabric will accept a variety or wall panels. These may be jointless stainless stell or zintex sheets, powder coated demountable stainless steel, zintex sheet, powder coated demountable stainless steel, zintex sheet or high density compact laminate panels.

Key Features

Freestanding struchure
A jointless sealed surface
A more even and better light / air distribution
A smooth uniform surface prevents contamination build up
A high standard of construction
a complete design, installation and maintenance service

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Light Integrated Ceiling Mounted Planair Systems





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Overview

Bacteria cause infection within operating theatres. In tests carried out by the UK Department of Health "Vertical Laminar Flow Ventilation" was found to reduce the amount of bacteria present in a typical operating theatre by a factor of 15,000.

CMS offers a selection of ceilings to suit all surgical applications.

Supplied with optional Air-conditioning and control systems, or as part of an existing mechanical services system, the CMS range of specialist ceilings reduce the risk of postoperative infection, whilst providing optimum comfort through the use of conditioned, filtered clean air.

The CMS range of ventilated ceilings have been specifically designed, type tested and certified in accordance with the German standard DIN 4799.

The system is designed to allow the client to select from a variety of lighting and diffuser arrangements to suit the specific requirements of the operating team.

Essential Features

The ceilings consist of a plenum box supplied with conditioned air from the central system via "S" class HEPA Filters mounted on the inlet to the supply ceiling.

All HEPA filters and housings are factory tested and certified in accordance with DIN 1946 and DIN 4799.

All ceilings in corporate supports to secure them to the main structural frame of the modular operating theatre, or structural slab.

The air / light diffusers consist of two layers of monofilament precision woven polyester of uniform porosity, with an open area of sufficient resistance to create laminar airflow from the diffuser face.

Diffusing air into the theatres, uniformly over the total area, the CMS range of ventilated ceilings provide the sterility and cleanliness required in today's operating theatre environment.

Integral lighting provides an illumination level in excess of 1500-lux at the wound site and electronic stepless dimming down to 3%, without flicker.

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Surgeon Control Panels / Touch Screen Control Panel





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Overview

New technology means regular upgrades and changes.

The Use of computerised systems to hold, process and transfer patient information is rapidly becoming a reality.

The CMS Surgicentre can be configured to incorporate all the services that theartre staff require such as :

- Timing devices.
- Environmental monitoring equipment.
- Medical gas equipment.
- Communication and data points
- Electrical supplies and electronic controls.
- All services are located at one delivery point.

Essential Features

The fascia is made up by selecting from the four standard tile assemblies

Each tile consists of a high quality nylon membrane fascia, with easy-to-clean, sterilisable suface

All membrane tiles are provided with clear windows for the insertion of user defined text, which can be provided in a variety of languages and pantone® colours.

This fact allows the user to request specific text or colours for each individual membrane layout and it is possible to reconfigure each tile at a latter date with minimal cost

All controls and relays are located in a remote panel, that can be positioned up to 250m away, allowing upgrades and maintenance to be carried out with minimal disruption

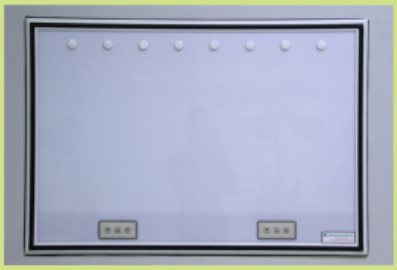
Standard finish is white epoxy powder coated paint

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X-ray View Panels





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Overview

Modern medical practices require the use of precision, controllable equipment.

CMS provides a range of X-ray viewing screens that comply with most international standards.

Exceeding the requirements of DIN 6856, the CMS range of X-ray viewing screens are designed to fully comply with UK Department of Health Technical Memorandums

Manufactured in accordance with UK DHSS HTM-2007 - Electrical Supply and Services Distribution, 2020 and 2021 - Electrical Safety Codes for Low/High Voltage Systems, respectively, all CMS x-ray viewing screens are internally wired to I.E.E. Regulations.

Essential Features

Incorporating TFT LCD panels, themgi range of X-ray viewing screens provide stepless, flicker free dimming, ranging from 100% - 10%.

The latest control technology provides for lower power consumption (savings of about 30% in dimming operations),very stable, flickerless light, low temperature rise, immediate start without blinking, low Magnetic field.

Providing exceptionally high levels of luminous density, from 4000 to 5400cd/ sq m, the mgi range of X-ray viewing screens are ideally suited for general, surgical and dental use.

The compact steel housing, finished - RAL 9002 (Grey/White), powder coated texture, is resistant to most chemicals and cleaning agents currently in use in modern hospitals.

The screwless front panel is easily removable for ease of installation and maintenance. Independent of the type of installation, all models incorporate the same design configuration.

Desk and wall mounted models are supplied with 2-metres of heat resistant cable, with plug.

In recessed models the user-supplied cable is introduced through the rear panel of the view-box.

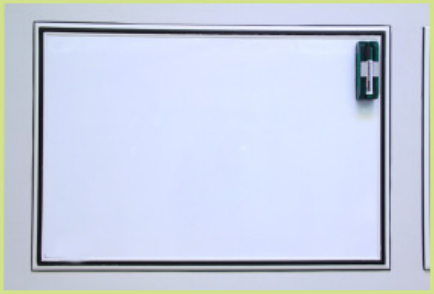
Available as single, double, three, four, six and nine plate models, x-ray films are attached to the viewer fascia by our unique film fastener system, ensuring ease of access and necessary sterility.

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Magnetic Writing Board





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Overview

Bacteria cause infection within operating theatres.
Wherever possible, all wall mounted theatre equipment supplied by CMS is flushmounted and sealed into the theatre wall by means of a neoprene gasket.

Fixed Furniture CMS provides a range of wall mounted storage units and equipment accessories, individually tailored to suit most applications.

Fully integrated within the operating theatre structure, all units have a smooth finish, are free from cracks and crevices.

The modular wall-mounted units are available in four different heights and widths of 450, 600, 900 and 1200mm.

A combination storage unit / writing desk is available, that can be stored within the wall cavity when not required.

Modular wall-mounted units are available to house a variety of equipment accessories, ranging from suction receiver jars to surgical glove and mask dispenser systems.

Essential Features

The List/Writing Board is a flush mounted white Traffolite board bonded to a steel sheet that is fixed within the theatre wall in a neoprene gasket.

A wipe clean, easily maintainable surface, resistant to most commonly used chemicals are provided.

Standard marker Pens can be used to take notes or record information magnets.

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Pressure Relief Dampers



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General

The Cascade Pressure Stabilisers are a range of multi-bladed units specifically designed to control room air pressures in critical areas, such as Operating Theatre Suites, Aseptic Suites, Clean Rooms and similar areas. Each stabiliser comprises of a carbon steel case and matching slip over rear flange.The carbon steelhousing contains up to four Grade 304 stainless steel blades, which pivot upon sealed for life bearing assemblies. Balancing is carried out utilising a proven balance weight assembly. CMS stabilisers are manufactured and delivered pre-set and locked to the required pressure differential. Individually balanced, CMS stabilisers are accurate to a range of 1 Pascal over their working range of 5-35 Pa. Adjustment can easily be carried out on site should the need arise.Blades are manufactured in a range of standard widths, to provide a wide range of airflow's using a single stabiliser installation.

To select the appropriate stabiliser:

Determine the required operating pressure and then select the corresponding flow factor from the flow factor table.

Divide the flow factor in to the desired air volume.

Multiply the answer by 320 to give you the theoretical blade length in linear millimetres.

Divide the total by one, two, three or four to allow the selection of a standard length from the list below.

Standard blade lengths are, 300, 330, 380, 430, 470, 520 and 550mm.

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Antistatic Conductive Floor Tiles







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General

Flooring : Providing & fixing 2mm thick Conductive flooring with carbon backing total thickness 2.00mm, total weight 3.000 g/m2 polyurethane reinforced ,scratch resistant, fire resistant, chemical resistant , slip resistant, anti fungi & bacterial growth, dimensional stability _0.40%, static electrical charger <2Kv, impact sound reduction approx +4bd, electrical resistant. Installation : The flooring shall be installed on a smooth, clean sub floor which shall be free from any undulation .A copper strip / mesh shall be layer under the tiles, with one earthing point for every 150 sft of area and good quality water based adhesive for fixing as per as manufacturers recommendation. Thermal Welding: The joints shall be welded by the heat fusion process to get a seamless floor. The joints in the flooring shall be sealed by using a PVC welding bar of matching color to be supplied by the manufacturer, using a hot air gun for fusion of welding bar with flooring.

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Hermetically Sealing Doors





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General

Designed to meet the highest demands in clinical technology, the Medi-seal range of hermetically sealing sliding doors represents over five years of extensive development and field testing.

To maintain sterlity and the correct air pressure in the department, the door into and out of the operating room should be an hermetically sealing, and sliding door.

All CMS doors are constructed from a high-density particleboard core, and high-pressure laminate is used to face both sides.

The door blades are set firmly in an aluminium frame, containing a non-porous non-shedding door seal, which will allow the door to seal on all four edges in the closed position.

The door track is constructed from an aluminium extrusion, fixed firmly to the wall.

All mgi doors run on nylon wheels within the track.

The track and wheel design is such that during the last 50mm at travel on the closing cycle, the door moves in 3 directions to form a seal against the floor, at the bottom and against the frame on both sides and at the top.

Available in a wide range of attractive, compact laminate finishes, or optional stainless steel facing.

The Medi-seal is supplied with a manual operation unit as standard. Optional continuous electrical or pneumatic operation is available, enabling automatic operation and programmable computer control through a variety of touch or hands free interfaces.
The standard automation unit incorporates interfaces, for connection to the building security, fire control or building management system.
The Medi-seal range includes:
2000S Sound Resistant
2000F Fire Resistant
2000E A & E Door
2000X X-ray Room Door
2000R Radiation Resistant Mobile Screens

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Multimovement Pendent Systems



General

Rotative Pendant
Rotative Double Ann
Rotative pendant is designed to meet the requirements of having the pendant eitheron right or left side ofthe operating table. Rotative pendant has flexibility of positioning of pendant head by simply rotating the pendant arms. Rotative Pendant can be configured as single or dual arm system and the arms can be standard duty or heavy duty arms. Loads up to 1000 kg. are achievable depending on the arm version. The support arms shall be extremely robust and revolve on high quality bearings, so that the pendant head glides smoothly and quickly to any desired position. Pivoting angles of 340 degrees in the dual arms offer a maximum freedom of movement and space to operate.

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Surgical Scrub Sinks





General

CMS scrub stations have been designed to ensure that surgeons and staff can undergo a thorough aseptic scrub, whether using the count-stroke or timed scrub methods.

Eachfixture is fabricated from heavy gauge, type 304, stainless steel and is a seamless welded construction polished to a satin finish.

The cabinet interior is sound deadend with a fi re-resistant material. The unit is designed to be installed on the wall using a mounting carrier.

The Scrub Sink is provided with a front access panel which is easily removed for access to the water control valves, waste connections, stops and strainers.

The Scrub sink has a sloping bottom surface to minimize splashing and a 1-1/2"OD tail piece with a 3" fl at strainer drain.

Hands Free Operation includes infrared sensor with a built-in range of adjustment. User definable settings of 3, 6, 12, 30 and 45 seconds: 1, 3, 5 and10 minutes are available

A thermostatically controlled mixing valve automatically maintains water temperature, not to exceed 115°F (46°C). This easily adjustable, anti-scald valve will automatically shut off if the hot or cold water supply fails. Available as Manual Model or Electric Model, with one, two or three wash stations.

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Hatch Boxes Glass Boxes



General

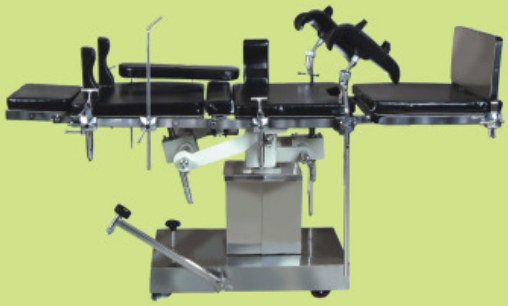
A Hatch should be provided in each operation theater to remove waste materials from the operation theater to Dirty linen area just adjacent to Operation Theater. Each Hatch should be equipped with two doors and the door should be operated electronically. The Hatch should be designed in such a way that only one door should be opened at one time. The UV light should be so installed that it is kept onwhile both the doors are closed, this UV light has to be automaticallyturned 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.

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O.T. Table







- Side end control, double cylinder heavy Duty Hydraulic cylinder Table.
- Five section Stainless Steel Top
- Hydraulic Lift Locking
- Accessories clamp made of brass
- Jerk Free Smooth Operating Facilities.
- Table Base Covered with Stainless Steel Sheet.
- Appropriate for Gynaecology, Urology, Endoscopy, Laproscopy & General Surgery.
- Detachable Head & Leg Section.
- Easily Moveable & Floor Locking System.
- Table Top-turnable to sitting position
- Stainless steel side railing & 50mm thick washable sponge mattress
- Oil rifilling port Optionall: Ortho Attachme nt & Foot Rest (extra cost)

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Medical Gas Terminal Unit



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Overview

Backed by over 25-years experience in the manufacture of medical gas products, the CMS Carina terminal unit is a high quality, proven product.

The simple design is straightforward to install and smooth in operation.

The unit is delivered to site fully assembled and consists of a terminal block with integral shut-off valve, stub of 12-mm copper pipe, backplate, enclosure and faceplate.

The different gases are clearly identified on the ring socket by the use of bold permanent colours to BS 5682-1984.

All terminal units have Teflon coated, stainless steel rolling pins that allow the smooth insertion and removal of probes.

The rolling pin latch mechanism keeps the probe securely in place.

An anti-rotation pin is provided on all wall mounted units.

Essential Features

The terminal unit is manufactured and assembled under conditions of controlled cleanliness, from high quality materials.
All internal components are degreased prior to assembly.
Each assembly is pressure tested before dispatch.
Each terminal block and socket assembly is gas specific (Uniquely indexed) to prevent the delivery of the wrong gas.
Each terminal block incorporated an integral shut-off valve assembly to enable removal of the socket assembly without disruption to the system.
The second fix socket and valve assembly is removable in-situ, from the front of the terminal unit without removal of the fascia plate. This feature save considerable time in both installation and maintenance.
CMS terminal units are subjected to a series of tests in accordance with British Standards and CE regulation, including visual inspections and pressure tests. CE regulation specify batch setting, whichincludes the following:
a) Endurance - 10,000 operations at 10 per minute
b) Pressure Drop - Probe inserted and connector inserted
c) Exposure Pressure - 1-bar for 10 mins
d) Connection/Disconnection Force and Torque - Axial push/pull >100N, Torque >1Nm
e) Mechanical Strength - Steady axial force of 500N
f) Leakage Test
g) Gas Specificity, try to connect all test probe types

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Bedhead Service Unit

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Overview

- CMS Bedhead Consoles are available in a single trunk (3900A) or dual trunk (3900AD) setup.
Both versions can be customized to meet unique room dimensions.
- GENTEC Bedhead Consoles accept GENTEC medical gas terminal units.
- Consoles are designed for easy maintenance. Modular design allows for customer specific customizations such as different standard electrical outlets, gas terminal units, and multimedia needs.
- Units come pre-wired and pre-piped for easy installation. Each unit shall be 100% factory tested.

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Automatic Manifold Control Panal

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Overview

Automatic manifolds control panels are designed to regulate and control the supply of gas from two banks of compressed gas cylinders.

The CMS Automatic Manifold consists of a central control panel flanked by two cylinder header racks complete with cylinder tailpipes.

Automatic panels will select the duty bank and will immediately changeover to the standby bank once the inlet pressure falls below a predetermined level.

The panel incorporates a display unit that indicates the operating status of the unit.

External alarm contacts are provided for connection to a central alarm panel and the activation of the contacts is identified on the internal display unit.

Manifold panels can be factory set to deliver a system pressure between 400 kPa or 1400 kPa

Essential Features

Each unit incorporates pressure sensors for monitoring both incoming and outgoing system pressures and a pressure gauge indicates real time system pressure.
Non-return valves are provided on each outlet connection and the activation of the of the operating bank is accomplished using an electronically controlled valve, designed to maintain the system supply in the event of a power failure.
Independent isolation is provided for each regulator set and particle filters are installed within the inlet to each regulator.
Pressure relief valves are provided to prevent any over pressurisation of the system.
All changeover components are mounted on one common back-plate for ease and speed of installation
An optional flowrate sensor and display unit can be incorporated to display the system demand.

Standards

EN737-3: 1998 – Medical Gas Pipeline Systems – Part 3: Pipelines for Compressed Medical Gases & Vacuum
NHS Estates Model Engineering Specification – C11
HTM 2022:1997 - Medical Gas Pipeline Systems
EC-Conformity declaration (CE 0473) in accordance with 93/42/EEC Guidelines, Appendix II

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Emergency Standy Manifold



Overview

The CMS Emergency Standby Manifold consists of a central regulator unit and cylinder containment rack suitable for connection two compressed gas cylinders with bullnose or Pin index cylinder tailpipes

Two compressed gas cylinders are attached to unit and the cylinder valves are opened. When the cylinder bank is low the manifold will initiate an alarm contact, which is relayed directly to an automatic manifold unit.

This manifold is permanently connected to the distribution system to enable a temporary supply when the main automatic control equipment is to be serviced or has failed.

Manifold panels can be factory set to deliver a system pressure between 400 kPa or 1400 kPa

Essential Features

Each unit incorporates a pressure sensor for monitoring pressure inthe compressed gas cylinders. Integral pressure gauges indicate real time system and cylinder pressures.
A Non-return valve and a full bore isolation valve is provided on the outlet connection and the unit is designed to maintain the system supply in the event of a power failure.
A Pressure relief valve is provided to prevent any over pressurisation of the system.
All regulating components are mounted on one common back-plate for ease and speed of installation
An optional flowrate sensor and display unit can be incorporated to display the system demand.

Standards

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Area Valve Service Unit Module



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Overview

The Area Valve Service Unit Module is a compositeunit equipped with all thenecessary components for shutting-off and supervisingindividual parts of a medical gas pipeline system.

Installation consists of mounting the unit using the backplate/box provided and making the mechanical and electrical connections as required.

Units are available in a variety of formats and are suitable for surface or flush mounting.

All the units are pressure tested prior to dispatch saving valuable time on site.

For maintenance and repair work, individual parts of the system can be shut-off without interrupting the whole gas supply

Essential Features

The CMS Area Valve Service Unit Module is used to provide a means of isolation and emergency access at the entrance to ward areas and other hospital departments.
The unit incorporates all the features of the Single Area Valve Service Unit, with the added benefits of pre-piped multiple valves and an integral area alarm panel with pressure switches.
The Area Valve Service Unit Module is manufactured from lightweight extruded aluminium panels and incorporates flush fitting access doors.
All units are finished with a high quality epoxy coating, and are durable and easy to clean.
The standard colour is RAL 9002, however other colours are available upon request.

Standards

EN737-3: 1998 – Medical Gas Pipeline Systems – Part 3: Pipelines for Compressed Medical Gases & Vacuum
NHS Estates Model Engineering Specification – C11
HTM 2022:1997 - Medical Gas Pipeline Systems
EC-Conformity declaration (CE 0473) in accordance with 93/42/EEC Guidelines, Appendix II
BS.5682: 1984 (1998) Terminal units, hose assemblies and their connections for use with medical gas pipeline systems

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Medical Gas Central Alarm Panel





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Overview

The CSM central alarm panel is a multiplexed system using a pulse width modulated signal, on 2 core inter-panel wiring.

The unit is capable of displaying up to fifteen services, each consisting of up to four conditions plus normal.

Signals from plant or other monitored equipment are fed into the system via transmitters located adjacent to the equipment.

Each alarm input can be individually configured as a normally open or closed contact.

Power is supplied to the transmitter from the central alarm panel and all interconnecting wiring is carried out using standard telephone cables and connectors

In the event of a power failure, a reserve battery enables the system to remain in operation for up to eight hours

Recharging of the battery takes approximately one hour.

Essential Features

The fascia consists of a high quality nylon membrane that provides an easy to clean, sterilisable surface.
Clear windows are provided for the insertion of user defined text, which can be provided in a variety of languages and Pantone® colours.
Individual gas status is provided by six sets of five long-life LED's that will indicate normal and four fault conditions.
A loud speaker is fitted within the panel and is factory set at a rate of 4Hz ±10% between two tones of 440Hz ±10% and 880Hz ±10%.
A temporary mute switch will allow the user to silence any audible alarm, however the alarm will resound after fifteen minutes if the fault condition is still present or if a second fault occurs.
A engineers switch is provided to allow periodical testing of the LED's and interconnecting cabling.
The unit can be used as a stand alone system or connected to another unit as a slave up to 2000 metres away.
External alarm connections are provided for connection to a building management system.
An optional liquid crystal display can be provided in accordance with NFPA 99C Standards

Standards

EN737-3: 1998 – Medical Gas Pipeline Systems – Part 3: Pipelines for Compressed Medical Gases & Vacuum
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Gas Control Panel





Overview

The cryogenic gas control panel is designed to regulate the supply of gaseous oxygen from a cryogenic storage tank and evaporator (at10.5 bar g) and from a standby manifold system (at 8.5 bar g) and to reduce the pressure to 4.2 bar g for supply to the oxygen pipeline distribution system.

The automatic control panel is fail safe and continues to function in the event of a failure of the electricity supply.

All the units are pressure tested prior to dispatch saving valuable time on site.

For maintenance and repair work, individual parts of the system can be shut-off without interrupting the whole gas supply.

Essential Features

Each unit incorporates gauges for monitoring both incoming and outgoing system pressures.
Non-return valves are provided on each inlet connection and the activation of the compressed gas cylinder back -up manifold is via an electronically controlled valve, designed to maintain the system supply in the event of a power failure.
Independent isolation is provided to the duplex regulator set and particle filters are installed within the inlet to each regulator.
Pressure relief valves are provided to prevent any over pressurisation of the system.
All panels include integral pressure sensors to provide remote status monitoring of the system.
All changeover components are mounted on one common back-plate for ease and speed of installation

Standards

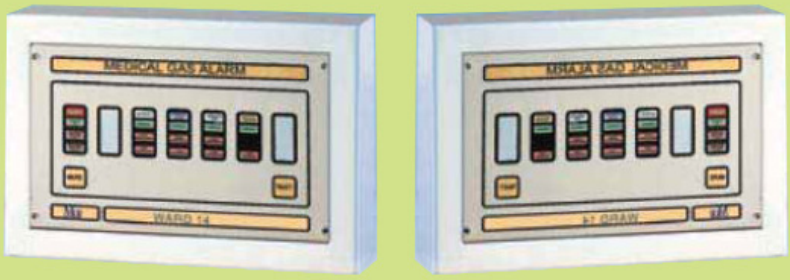
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Medical Gas Area Alarm Panel



Overview

The CMSI area alarm panel will display the status of up to six gases, showing up to two conditions plus NORMAL per gas.

In addition, the MS-6 area alarm will act as a slave to another MS-6 alarm within 250 metres, using a two core screened cable.

The unit is designed to take signals from local pressure switches in operating rooms, ward areas, ICU/CCU and is available for both surface and flush mounting.a

The alarm system is flexible and simple to maintain. Only two printed circuit boards are used in the alarm unit keeping spares to a minimum.

In the event of a power failure, a reserve battery enables the system to remain in operation for up to eight hours Recharging of the battery takes approximately one hour.

Essential Features

The fascia consists of a high quality nylon membrane that provides an easy to clean, sterilisable surface.
Clear windows are provided for the insertion of user defined text, which can be provided in a variety of languages and Pantone® colours.
Individual gas status is provided by six sets of three long-life LED's that will indicate NORMAL, HIGH and LOW conditions.
A loud speaker is fitted within the panel and is factory set at a rate of 4Hz ±10% between two tones of 440Hz ± 10% and 680Hz ±10%.
A temporary mute switch will allow the user to silence any audible alarm, however the alarm will resound after fifteen minutes if the fault condition is still present or if a second fault occurs.
A engineers switch is provided to allow periodical testing of the LED's and interconnecting cabling.
The unit can be used as a stand alone system or connected to another unit as a slave up to 2000 metres away.
External alarm connections are provided for connection to a building management system.
An optional liquid crystal display can be provided in accordance with NFPA 99C

Standards

EN737-3: 1998 – Medical Gas Pipeline Systems – Part 3: Pipelines for Compressed Medical Gases & Vacuum
NHS Estates Model Engineering Specification – C11
HTM 2022:1997 - Medical Gas Pipeline Systems
EC-Conformity declaration (CE 0473) in accordance with 93/42/EEC Guidelines, Appendix II

CMS - Innovative Healthcare Products

Our quality procedures form an integral part of our business operations, due to our continuing product improvement programme the right is reserved to alter specifications without notice.



Area Valve Service Unit





CMS - Innovative Healthcare Products

Overview

The Single Area Valve Service Unit is a composite unit equipped with all the necessary components for shutting-off and supervising individual parts of a medical gas pipeline system.

Installation consists of mounting the unit using the backplate/box provided and making the mechanical connections as required.

Units are available in a variety of sizes and are suitable for surface or flush mounting.

All the units are pressure tested prior to dispatch saving valuable time on site.

For maintenance and repair work, individual parts of the system can be shut-off without interrupting the whole gas supply.

Essential Features

The CMS Area Valve Service Unit is used to provide a means of isolation and emergency access at the entrace to ward areas and other hospital departments.
A break glass is incorporated into the unit to provide a means of emergency access to the full bore 1/4 turn ballvalve.
Each unit is provided with gas specific NIST connectors, up and downstream of the valve.
Blanking plates are provided for maintenance purposes.
Each unit is supplied with copper stub pipes to EN 1057 Class X for ease of installation on site using inert gas jointing techniques as defined in WKO 82/1.
The unit is factory tested and is available in flush or surface mounting formats.
The unit can be provided with an optional micro switch for connection to the hospital building management system.

Standards

EN737-3: 1998 – Medical Gas Pipeline Systems – Part 3: Pipelines for Compressed Medical Gases & Vacuum
NHS Estates Model Engineering Specification – C11
HTM 2022:1997 - Medical Gas Pipeline Systems
EC-Conformity declaration (CE 0473) in accordance with 93/42/ EEC Guidelines, Appendix II

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Medical Compressed Air Systems





CMS - Innovative Healthcare Products

Overview

The CMS range of surgical compressed air systems provide a proven and reliable source of supply that will deliver the design flowrate of medical air under all operating conditions.

The plant consists of two or more identical air compressors, compressed air receiver vessels and a simplex air dryer assembly, including filters and pressure regulators.

The plant is provided with a fully automatic control system (with manual override) to minimise energy consumption and compressor wear.

The configuration of the plant is totally flexible and can be arranged to suit small plant rooms or those with difficult access, and the package includes for all interconnecting pipework and wiring.

Essential Features

All units are complete with a fully automatic control system that will immediately respond to the users requirements, by selected the most economical configuration to suit the demand.
External monitoring includes a plant to alarm system interface and indicators to display the status of the unit at a remote location.
A multi-purpose test point fitted adjacent to pipeline interface to allow periodical checks of the air quality.
Any one component can be isolated without interruption of the supply and can be easily replaced with the minimum amount of disruption.
A high efficiency simplex dryer unit gives maximum output irrespective of local climatic conditions
An optional flowrate sensor and display unit can be incorporated to display the system demand.

Standards

EN737-3: 1998 – Medical Gas Pipeline Systems – Part 3: Pipelines for Compressed Medical Gases & Vacuum.
Receiver vessels are constructed and tested to EN 286 or BS5169
1975 Class 3 Grade E
NHS Estates Model Engineering Specification – C11
HTM 2022:1997 - Medical Gas Pipeline Systems
EC-Conformity declaration (CE 0473) in accordance with 93/42/EEC Guidelines, Appendix II

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Motorised Window



Curtain Track



Mobile Ambulance



Storage Unit



Modular ICU

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CMS - Innovative Healthcare Products



Clean Room General Lights



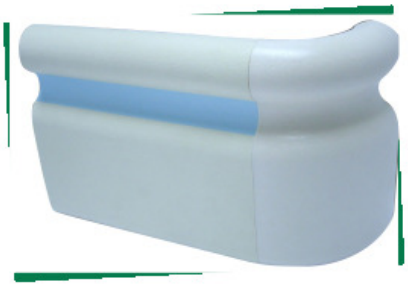
Patient Monitor



OT Light



Wall Guard



Corner Guard

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Products :

Operation theatre Department :

(For new & refurbishment of Old Installation)

- Pre-Fabricated Modular Operation Theaters
- Light Integrated Ceiling Mounted Planair Systems
- Surgeon Control Panels
- X-ray View Panels
- ICUs
- Medical Gas Pipeline System
- Bed Head Panels
- Operating Magnetic List Boards
- Pressure Relief Dampers
- Multi Movement Pendant Systems
- Nurse Call Systems
- Automatic Surgical Scrub Stations
- Clean Room General Lights
- Sealed Swing Doors
- Hermetically Sealed Sliding Doors
- Hatch Boxes
- Storage Units
- Antistatic Conductive Floor Tiles etc.

Medical Gases Pipeline System :

- Medical Gas Pipeline Equipment
- Multi-movement Pendant Systems
- Suction & Oxygen therapy products
- Bed Head Trunking System

Other Hospital Peripherals :

- Nurse Call System
- Operating Tables, Hospitals Beds, Furniture, Trolleys
- Operating & Examination Lights

SERVICES

- Design of system to International Standards
- Supply and installation of Equipment
- Commissioning of Systems
- Project Management
- Refurbishing of existing facilities
- Full turnkey project solutions
- Service support and maintenance

COMPETENT MEDICAL SYSTEM (INDIA) PVT. LTD.

AN ISO 9001:2008 Certified Company

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