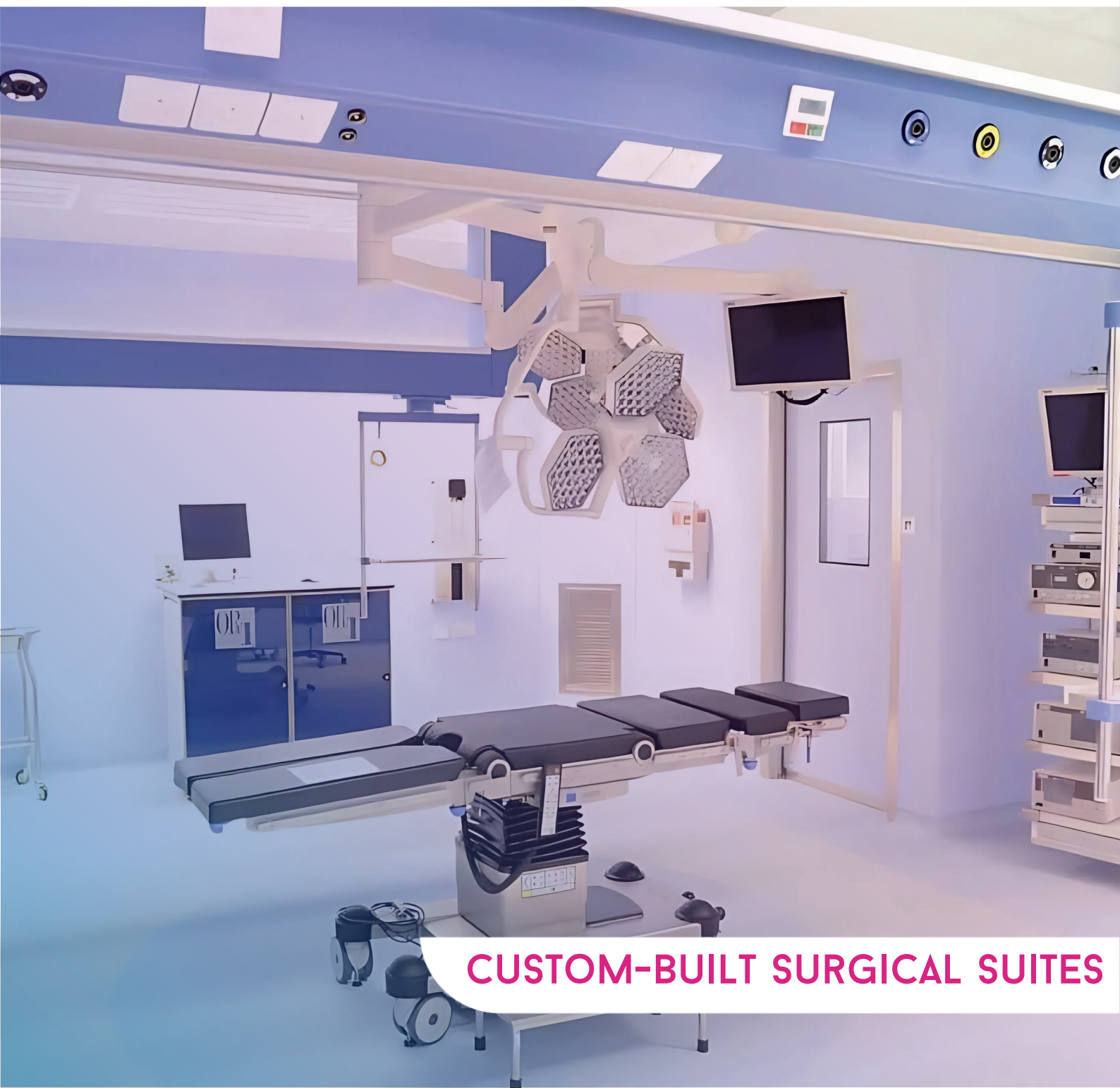


DHANVI

ENTERPRISES



CUSTOM-BUILT SURGICAL SUITES

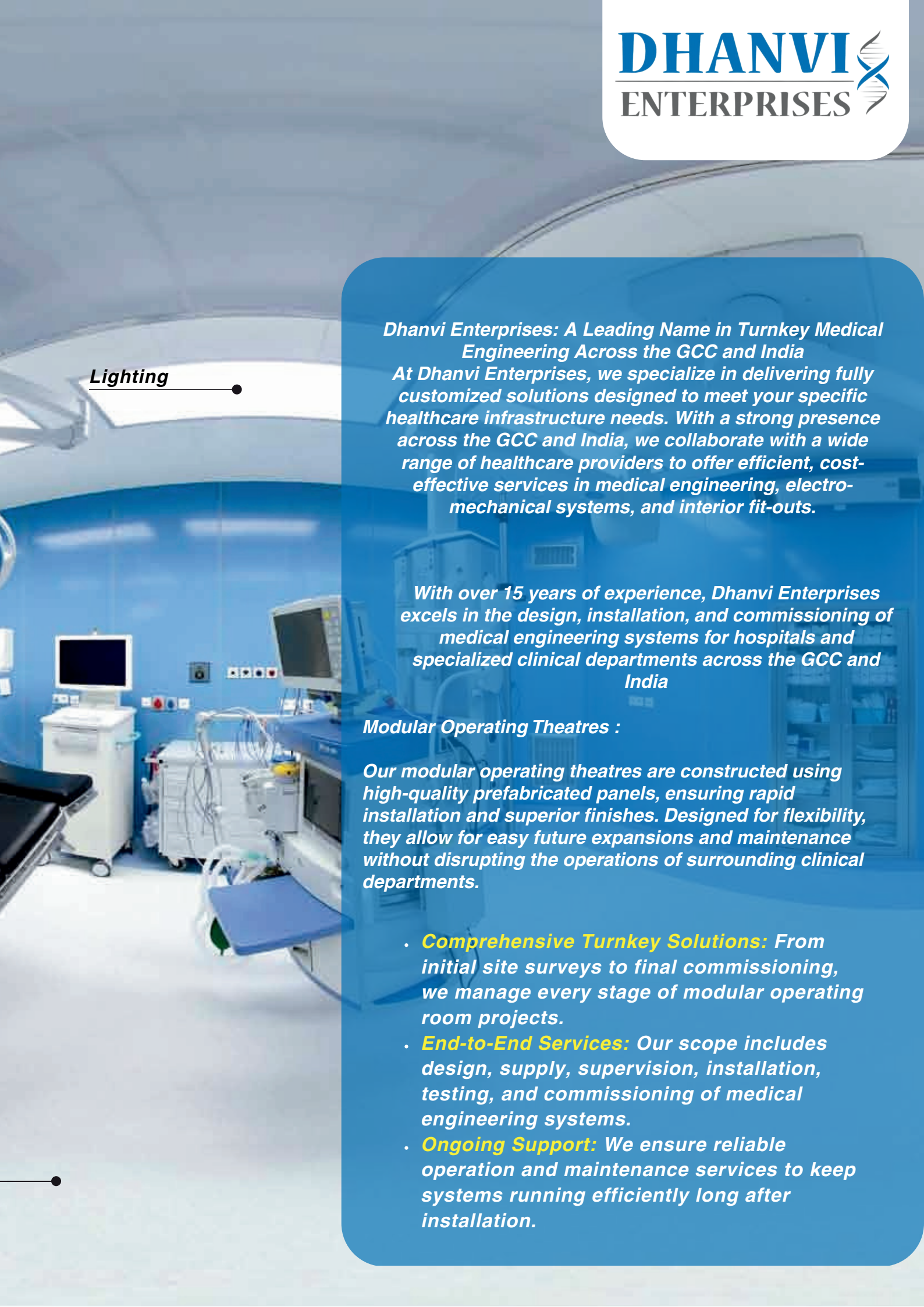
Ceiling

Wall Paneling

Windows

Doors

Flooring



Lighting

Dhanvi Enterprises: A Leading Name in Turnkey Medical Engineering Across the GCC and India

At Dhanvi Enterprises, we specialize in delivering fully customized solutions designed to meet your specific healthcare infrastructure needs. With a strong presence across the GCC and India, we collaborate with a wide range of healthcare providers to offer efficient, cost-effective services in medical engineering, electro-mechanical systems, and interior fit-outs.

With over 15 years of experience, Dhanvi Enterprises excels in the design, installation, and commissioning of medical engineering systems for hospitals and specialized clinical departments across the GCC and India

Modular Operating Theatres :

Our modular operating theatres are constructed using high-quality prefabricated panels, ensuring rapid installation and superior finishes. Designed for flexibility, they allow for easy future expansions and maintenance without disrupting the operations of surrounding clinical departments.

- **Comprehensive Turnkey Solutions:** From initial site surveys to final commissioning, we manage every stage of modular operating room projects.
- **End-to-End Services:** Our scope includes design, supply, supervision, installation, testing, and commissioning of medical engineering systems.
- **Ongoing Support:** We ensure reliable operation and maintenance services to keep systems running efficiently long after installation.

High Pressure Laminated Walls



Solid Mineral Surface Walls



- *High wear-resistance –fewer scuffs and scratches*
- *Impact resistance –no denting*
- *UV-resistant*
- *Easy to maintain, clean and disinfect*
- *Resistant to heat and light*
- *Insensitive to spots*
- *Resistant to water, steam, solvents and largely to chemicals*
- *HPL is fire inhibiting and can be finished as flame retardant*
- *Available thickness—from 0.8mm to 13mm*
- *Antimicrobial Wall surface*
- *Superior static load capacity –no dimpling*

- *Antibacterial Solid Mineral Surface*
- *Absolute flatness of the surfaces to facilitate cleaning and the achievement of conditions of aseptic hygiene*
- *Wide range of colours coordinated among the various material*
- *Joints between self-loading panels, manufactured in full height with no horizontal seams, offer a perfectly airtight sea*

Painted Stainless Steel Walls



Stainless Steel Walls



- *High corrosion resistance*
- *High mechanical resistance*
- *Ease of cleaning –smooth, non-porous surface*
- *Maintaining initial features at very low and very high temperatures (cryogenic features)*

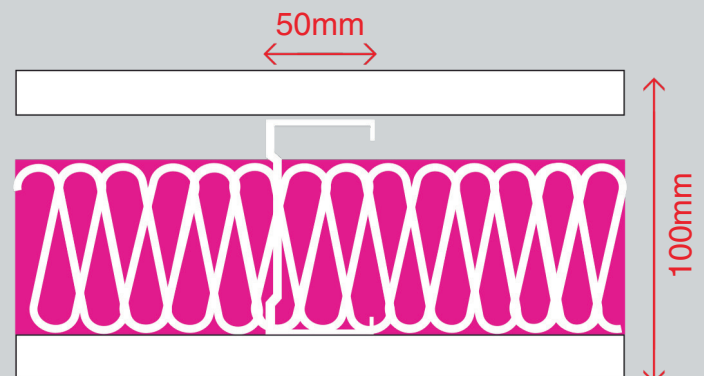
- *Powder coated antimicrobial paint*
- *Variety of design and pattern –any colour of the RAL palette*
- *High aesthetics (modern, light, prestigious)*
Attractive total investment cost 100% recyclable

Glass Walls



- Mineral-acrylic material is a solid, non-porous, homogeneous surfacing
- Material composed of $\pm 1/3$ acrylic resin (also known as PolyMethyl, MethAcrylate or PMMA) and $\pm 2/3$ natural minerals
- The main mineral is Aluminium TriHydrate(ATH) derived from bauxite, an ore from which aluminium is produced
- Trademarks Corian or Staron

Gypsum Fiber Board Walls With Hygiene Coating Anti Bacterial, Anti Fungal paint



1 S 21 = F60 + 52dB upto 10m high
Steel Stud - 0.6 x 75mm
Severe Duty Impact Rating

- High Performance Gypsum fiber Board walls as per HTM standards for fire rating with acoustic, moisture, impact or load bearing performance
- Hygiene Coating is a paint finish with anti bacterial & anti fungal properties, is done on the gypsum fiber board walls for OT to get a seamless finish on the walls

Ceiling Systems with Peripheral Lights

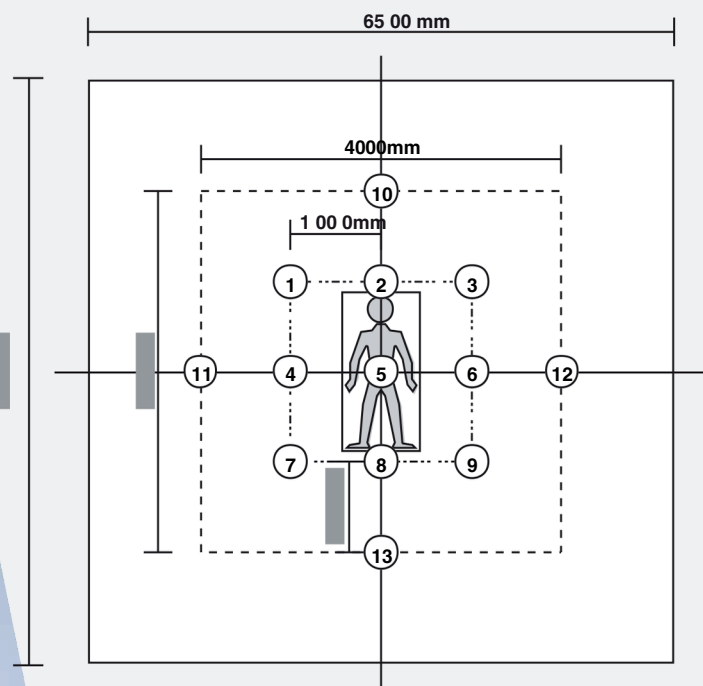
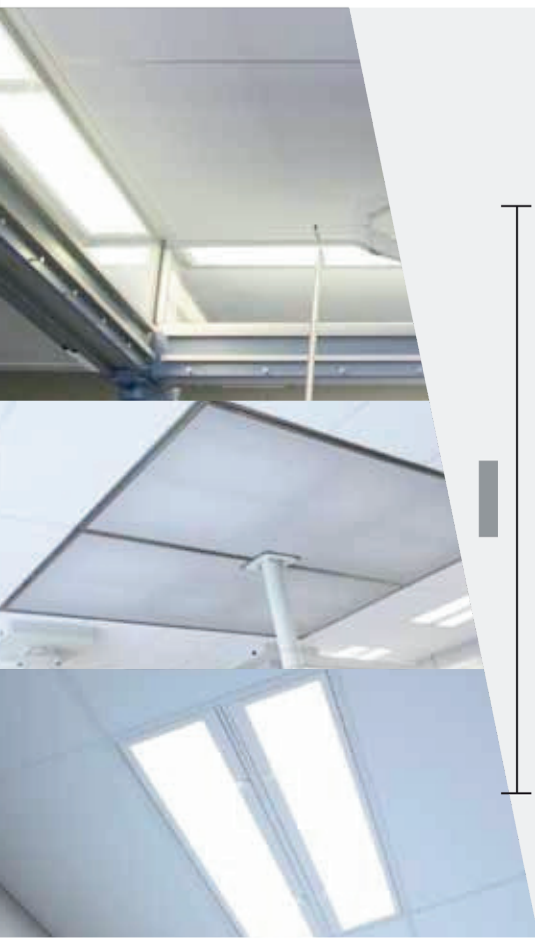


Ceilings Systems

Normal purity luminaire lamps with high frequency ballast and special coating – resistant to oil vapours, chemical attack, disinfectants and cleaning agents. Lights are installed as recessed luminaries in Operation Theatre ceiling with amounting frame in cutout recess openings.

Peripheral lights

System ceiling enable installation of peripheral devices in the ceiling. Without limiting access to them whenever maintenance service is needed. Types recommended: Stainless Steel Ceiling, Fiber Board Ceiling



Lighting Distribution Systems

01	1150
02	1245
03	1150
04	1245
05	1500
06	1245
07	1150
08	1245
09	1150
10	1000
11	1000
12	1000
13	1000



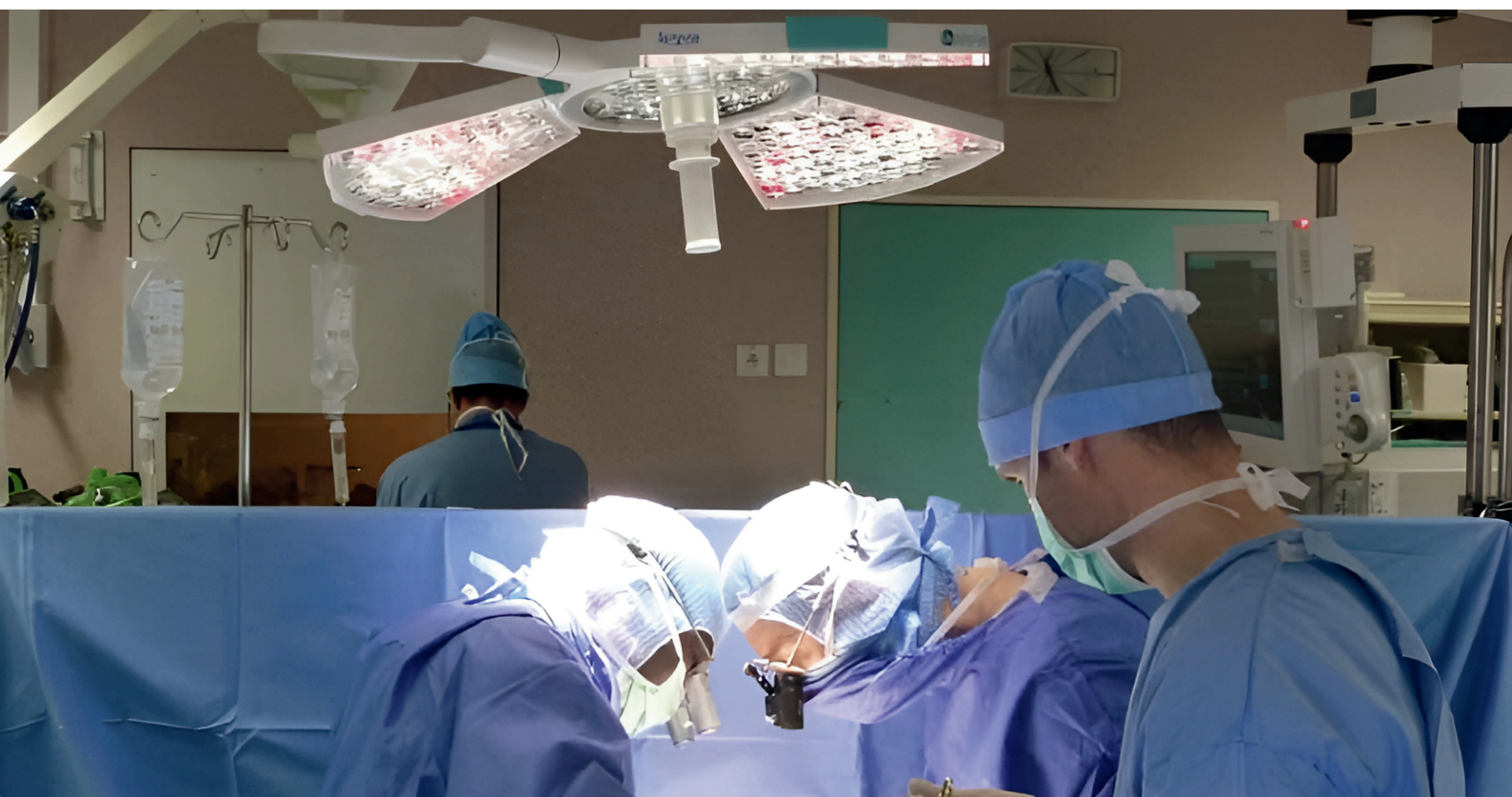
- *Operating lamp must be ceiling model LED surgical lights having Focusmatic property for room height 2.80m to 3.00 m.*
- *Made of aluminium and a module consisting of individual segments, it must be ideal for operating rooms with laminar flow systems.*

The lamp yoke must have a controller with:

- *Lighting level adjustment*
- *Endoscopic mode*
- *Selection of temperature colour*
- *Focal electronic lighting level*
- *Battery indicator*
- *Cupola selection*
- *On/off switch*

The main arm and satellite arm must have the following property:

- *Light intensity for main arm 160,000 Lux*
- *Light intensity satellite arm 100,000 Lux*
- *Colour temperature in °Kelvin 4500°K*
- *Colour Rendering Index, CRI (Ra) >95*
- *LED life time >40000 h*
- *Feeding unit 100 to 240 V*
- *Frequency 50 / 60*



Hermetically Sealed Doors



Stainless Steel Doors

Hinged Doors

- Features
- **Stainless Steel & painted stainless steel Automated doors**
 - **Track system including all necessary running gear floor guidance**
 - **Hermetically sealed gaskets and handles**
 - **Various option to accommodate lead through rail system**
 - **Micro processor controlled electric automation**
 - **Fire rated, fully assembled door kits**



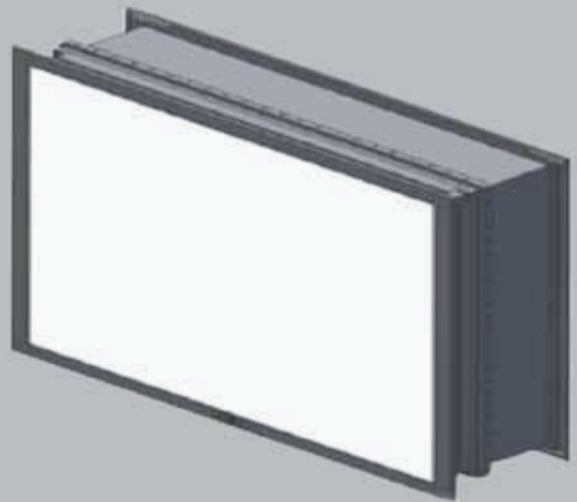
Automatically Operated Doors

Sliding Doors

- **Sliding door- offers a greatly reduced movement / turbulent of air. Hermetically closing is 99.999986% air tight at pressure of 50P.A. Door blade hangs by means of two hard plastic rollers with double bearing to provide smooth & silent running. Various options available like Micro processor controlled & regulated electromechanical sliding doors, switches & locks.**



Window – Regular Glass



Window – Electric Glass

Windows and glass elements are made from high quality painted stainless steel and are integral element

Static Conductive Flooring



- *Compacted floor covering for the better hygiene, maintenance & traffic resistance*
- *Available in 15 shades of colour*
- *Thickness 2mm, tile size 608*608*mm.*
- *Electrical resistance, point to ground – 2.5*100000 to 5*10000000 OHMS[Ω].*
- *This does not allow generation of charges over 100 volts*
- *Manufactured under hydraulic pressure result in no change in surface pattern, quality, smoothness even after heavy duty abrasion*
- *Due to lack of porosity, chemical spills rest on the surface & can be easily removed with conventional cleaning methods.*
- *All joints between tiles are welded & floor finish terminates the rum perimeter over a concealed cove former & continuing up the wall for 100mm to give continuous sealed surface.*
- *Confirms to NFPA 99, DIN51953 & EN 1081 standards.*

Hygiene Air-conditioning



Designing and integration of purified HVAC system is the internal part of building modular operation theatre.

These systems are according to international standards of purified HVAC system

Tasks of Hygienic Air Conditioning

- *To control the temperature and humidity of the space.*
- *To assist in the removal and dilution of waste anaesthetic gases.*
- *To dilute airborne bacterial contamination*
- *To control the movement of air within the department, such that the transfer of airborne bacteria from clean to sterile areas is minimised*

Laminar Flow Unit



Air Handling Unit



Perfect Hygiene Air-conditioning for all Hospital Departments

Next-Generation Compact Air Conditioning Units

We offer advanced compact air conditioning units, engineered for universal application across all hospital departments and fully compliant with international standards. Their innovative, space-saving design and cutting-edge technology deliver long-term energy efficiency and reduced operating costs. The optimized layout of mechanical and airflow components ensures low operating speeds and minimal internal pressure loss, enhancing overall performance and reliability.

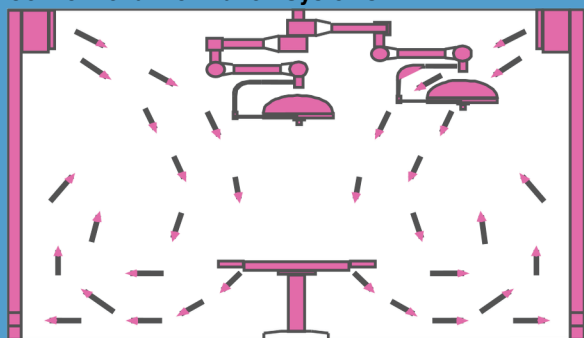
Use in the air-conditioning central unit

- Flexible duct connection
- 4-way hot gas switching for optimum energy use
- Built-in safeguard from a 100 % air capacity redundancy
- Outer air filter with anti-freeze protection
- Interior outer air damper
- Thermally insulated corner profiles
- Mirror image designs available
- Refrigeration circuit and heat recovery tested in the factory

Turnkey Design & Supply of HVAC System Including:

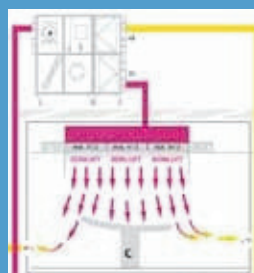
- Air Handling Unit
- Duct work
- Duct components
- Ultra clean ventilation canopy

Conventional Ventilation Systems



Traditional Turbulent Flow Air Distribution System

Air Conditioning Concept acc. DIN 1946-4 [Remote plant system acc. HTM 03-01]

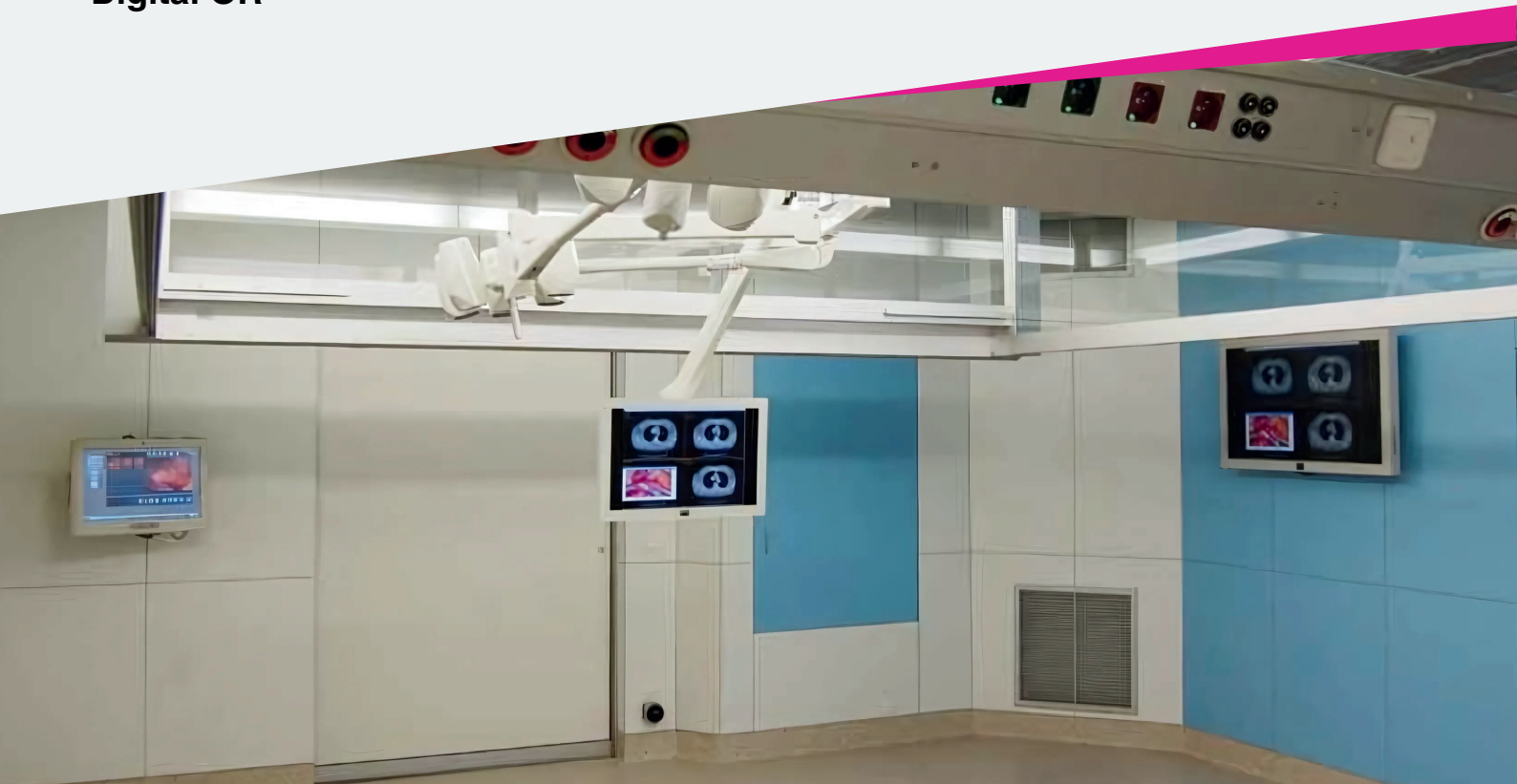


Advantage:

- Service and Maintenance outside OT
- Better Control of the Sound level
- Better mixing possibilities of fresh air and return air

Disadvantage: • Requires space for duct system • Requires a large technical room

Ideal solution – from technical-hygienic view



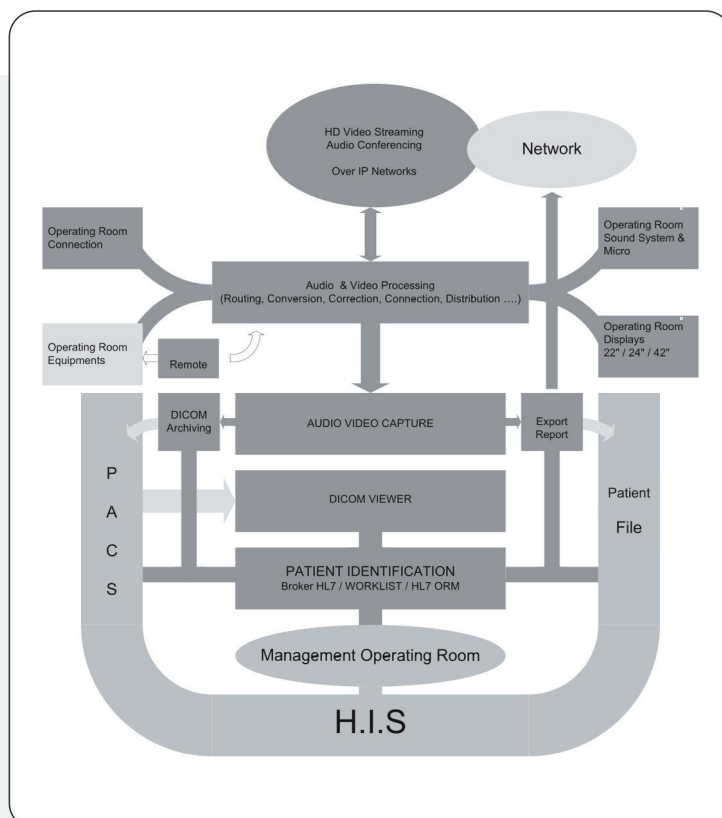
Surgical Multimedia System [SMS]

Imaging Station for Surgical Unit

The S.M.S system allows the review of exams of the patient, from a CD, in direct consultation of P.A.C.S. or postponed (by prior preparation) with an ergonomics adapted to the personnel and to the conditions of use in a surgical unit.

Smart Medical Suite (SMS) – Integrated Operating Theatre Management

Integrated seamlessly with your hospital information system, SMS is an intuitive application suite designed to capture video sequences, generate surgical reports, and remotely monitor key functions within the operating theatre. With DICOM compatibility, easy installation, and interoperability with other software platforms, SMS offers a centralized solution that delivers reliability, efficiency, and user-friendly operation.



Surgical Medical System

- **Excellent Full HD & SD audio/video capturing**
- **Multi- functional Image Preview & Display**
- **IP-Router managed video streaming**
- **Multi Functional DICOM Interface to optimize workflow in and outside the OR**
- **Easy DICOM implementation thanks to Proprietary patient Data Management System Broker Interface**
- **OR Equipment Remote Control functions**



- **Media Bridge is a medical supply unit & substitute for pendants.**
- **Trolley system is movable on an internal rail system along the entire width by providing 360 degree**
- **Large -sized air-supply system**
- **Complies with the latest air conditioning medical guideline and norms**
- **All-round air supply apron made of VSG-Glass**
- **Required care fed in through the feed-in column via the interim ceiling**

Side facing away from the OT-area: Can be equipped on two levels
Side facing the OT-area: plain and vertical

Advantages | Features:

Disruption and turbulence-free Laminar-Air-Flow
from the ceiling air supply system up to a height of 2,100 mm from the floor

Options

- **Movable on four sides thanks to rotating points**
- **Movable on an internal rail-systems along the entire width**

Modular Workstation Integration

Our modular design includes medical gas connection points, integrated nurse call systems, and electrical power sockets—all seamlessly incorporated for functionality and convenience. Ceiling-mounted pillars feature maintenance panels to support future upgrades without disrupting operations. Project-specific equipment trolleys for monitoring and infusion systems are also included, allowing for flexible and individualized workstation configurations.

- **Also available as L or U Shaped unit**

Lighting possibilities

- **Non-glare, indirect room lighting**
- **Dimmable lighting [e.g. for minimal-invasive surgery]**
- **Dynamically controllable RGB-lights [e.g. for endoscopic use]**

Pendant



Clinical Pendants & Beam Systems

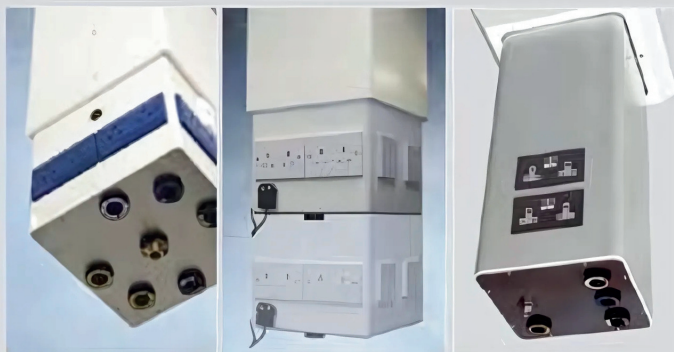
Dhanvi Enterprises supplies and installs a comprehensive range of ceiling-mounted clinical pendants and beam systems, designed to provide safe and convenient access to medical gases, electrical outlets, and data ports at optimal working heights. These systems are ideal for use in critical care areas, operating theatres, anesthetic rooms, and ancillary spaces.

Our range includes:

- Fully-flexible, multi-movement pendants and beams tailored for intensive care and surgical environments
- Rigid and retractable pendants for specialized operating and anesthetic rooms

Pendant Arm Options

Available in single-arm, double-arm, and multi-movement configurations, our pendant systems offer maximum flexibility in workspace organization. They can be height-adjustable and are available in various sizes to meet specific clinical needs. The movable arms are designed for effortless positioning with minimal hand force and can be securely locked in place using pneumatic brakes. Cushioned end stops are incorporated to prevent hard impacts, ensuring safety and longevity of the equipment.



Rigid & Retractable Pendants

Rigid and retractable pendants provide simple and convenient access to electrical and data services, medical gases and AGSS in the operating theatre, anesthetic or ancillary room.

Retractable pendant offers 300-400mm of vertical movement via a remote control, to bring services to the ideal height. A maximum of nine medical gas and 32 electrical / data outlets can be mounted onto the retractable pendant.

Isolated Power System



Isolated Power System [IPS]

Isolated power provides two types of safety:

- 1. Continuity of supply i.e. the isolated supply removes the possibility of earth faults therefore there is no need to blow a fuse or trip a breaker to protect against earth leakage currents that could cause electrical shock.*
- 2. Isolation from earth allows only negligible electrical current to flow through body –even an RCD will allow up to a 30mA-not sensitive enough for a medical environment.*

A Typical System for an Operating Theatre will include Floor standing Enclosure Containing:

- 8 Kva Medical Grade Isolation Transformer**
- Medical Grade Line Insulation Monitor**
- X 16 Double Pole mcbs**
- Earth Fault Detection System to (IEC61557-8/9)**
- 1 Remote Alarm Unit**
- UPS by- pass Switch**
- 10 Kva UPS with a 10 minutes autonomy**

Features

- **Multi-bladed units, specifically designed control O.T room air pressures.**
- **Unit comprises of carbon steel housing with grade 304 stainless steel blades**
- **Balancing is carried out utilizing a proven balance weight assembly**
- **Accurate to range of 1 pascal over their working range of 5-35 Pa.**
- **Adjustment can easily be carried out on site, should the need arise.**

Surgeons Control Panels



Surgeons Control Panels

Each Control Panel Will Contain:

- **Time elapse clock**
- **Standard clock**
- **Control for temp/ Humi**
- **Touch screen**
- **Control for peripheral/O.T light**
- **IPS alarm**
- **Medical gas alarm & IPS alarm – Visual & Audio**

Electronic touch screen panel [eTCP]

Wipe clean for excellent infection control

Flexibility to accommodate design changes with ease

Easy update to accommodate future services

Proven reliability

Compact size where operating romance is at a premium

Modern appearance complements today's high tech operating rooms

Ability to incorporate third party interfaces

Pressure Relief Dampers



Pressure Relief Dampers

PRD 's are Pressure Stabilizer fixed inside the OT to maintain a positive pressure inside the Operation Theatre

Features

- *Multi-bladed units, specifically designed control O.T room air pressures*
- *Unit comprises of carbon steel housing with grade 304 stainless steel blades*
- *Balancing is carried out utilizing a proven balance weight assembly*
- *Accurate to range of 1 pascal over their working range of 5-35 Pa.*
- *Adjustment can easily be carried out on site, should the need arise.*

X-ray Viewer



X-ray Viewer Features

- *Twin plate X-ray viewing screen for enhanced clarity*
- *High-frequency fluorescent lamps with dimming ballasts for controlled lighting*
- *Flicker-free luminance control for consistent brightness*
- *Uniform illumination across the entire viewing area*
- *Sealed flush with the operating theatre wall for a clean, integrated look*
- *Spring-loaded clips to securely hold the X-ray in place*

Surgical Scrub Sink



- *Stainless Steel/SMS Construction*
- *Removable Bay Panels*
- *Adjustable Thermostatic Mixing Valve*
- *Available in One, Two, or Three, Bay Sizes*

- *Automatic, Manual or Electronic Infra-Red*
- *Soap Dispenser, Digital Timer, Eyewash Options*
- *Pedestal Base or Chair Carrier mounting*
- *Custom Sizes Available*
- *Anti-Splash Tub*

Operation Theatre Tables



Mechanical and hydraulic operating tables are designed for all surgical operations and treatments. They ensure ease and comfort of usage and safeness for patient and medical staff, the design is ergonomic and esthetic. They can be equipped in wide range of additional accessories, which supports safe placement of the patient in order to use exceptional technical parameters.



**Our services
includes**

Design Consultancy



Site Assessment



Supply



Installation



Testing & Commissioning



Maintenance Service

Other Medical Engineering Systems



Piped Medical Gas Systems



Pneumatic Tube Systems



Bed Head Units



Nurse Call Systems



Radiation Shielding



Pendants



Interior Fit-out Works



Electromechanical Works



Hygiene Bath Support Systems



Our Customer Service

- 1. 24/7 Availability:** Our customer care team is available 24/7 ensuring assistance is just a call away, no matter the time.
- 2. Expert Advice:** Count on our team of experts to provide valuable suggestions and guidance, meeting your unique needs with professionalism and expertise.
- 3. Punctual Deliveries:** We guarantee timely stock deliveries to both our valued consumers and brand partners, ensuring you always have the products you need when you need them. Your satisfaction is our priority.



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Feel Free to Contact Us

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