



RADON MED-TECH

MEDICAL ENGINEERING



COMPLETE TURNKEY SOLUTION FOR HOSPITAL TERRITORY

*CENTER GAS PIPE LINE * MODULAR OR * VINYL FLOORING
* VOC FREE CLEAN LAB * IVF / IUI SETUP * MEDICAL AMBULANCE



एन एस आई सी
NSIC
ISO 9001 : 2008

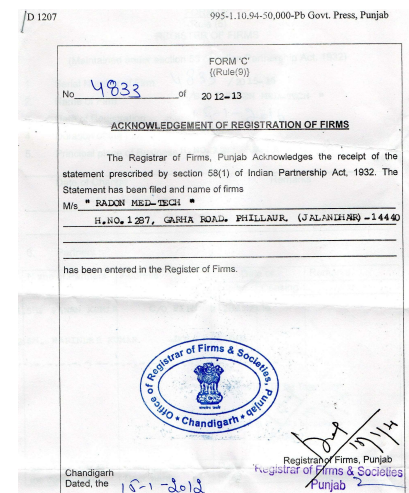
MSME
सूक्ष्म, मातृ या मध्यम उद्यम
Micro, Small & Medium Enterprises



About Us

Radon Med-Tech was established in 2016 as an Indian venture of one of the world's foremost Hospi infra & medical engineering group. Over the past few years, Radon Med-tech has become one of the primary Turnkey Setup of Center Gas Pipe Line & Modular Operating Theatre construction and also specialists in Medical Systems including Drafting & Designing of project with provision of quality healthcare on a truly global basis, backed by a wealth of technical expertise and extensive experience

Radon Med-Tech is works & prepare Hospital/Clinic design as International Medical Gas and Operation Theater Standards. It provides full technical support and design services, understanding the customer's needs and providing a complete, safe, maintainable and cost effective system.



Standard & Codes:-

BS-5682:1998, MDD -93/42/EEC, HTM 2022 and 02-01, NFPA 99, BS 864, BS: EN 13348, IS/7396-1: 2007 & Class I, Class II, Class III & Class IV, EN 438, IS/ISO 4586, ISO 9000, ISO 13485, GB/T/1900- 2000, ISO 9001:2008, YY/T/0287- 2003/ ISO 13485.

Radon Med Tech

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Clean OR Room / Modular Operation Theater

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 15-18 years.

Seamless.

Easy to clean steam cleaned, electro metric (ideal for high humidity areas)

Vapour permeability (allows substrate moisture to escape) protects against growth of bacteria, mould and yeasts

Moisture resistance, freeze / thaw resistance.

All Corner R300 Radius as well as End Corner 3D of same Dimensions to Achieve 100% Air Circulation

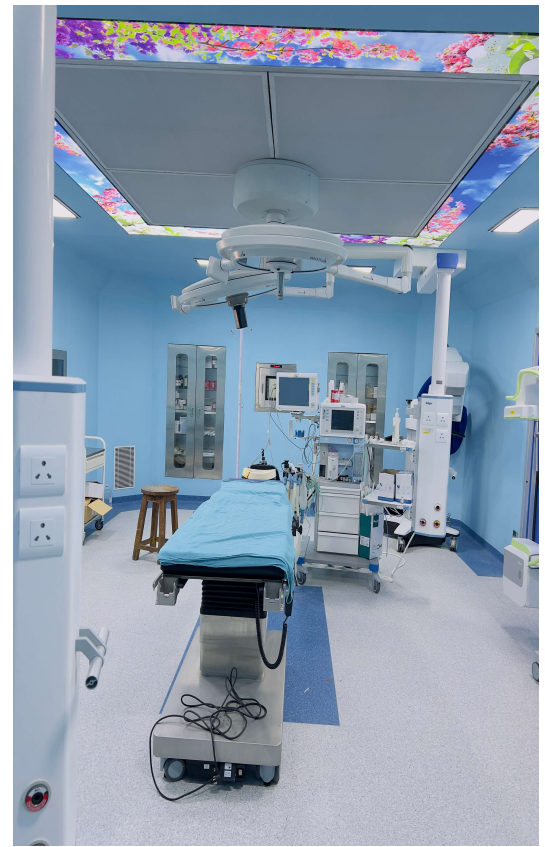
Use of optimum quality raw materials

Compact & strong structure

Convenient & quick installation

Low maintenance cost

Effective serviceability



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Manufacture & Specialist :- Turnkey Project of Pipe Medical Gases System, Modular Operation Theater , ICU/CCU/NICU setup, Hospital Flooring, Hospital Furniture & O.T. Light and O.T. Table

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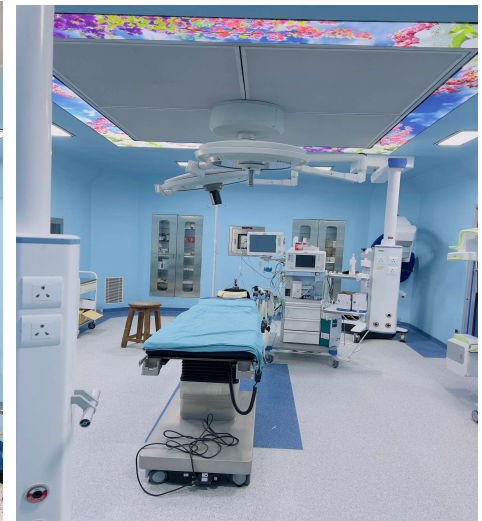
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Clean Room / Modular Operation Theater

We offer Pre-Fabricate Modular Wall / Ceiling Panel, we use high strength Steel sheet material like Stainless Steel 304 (Ss304) or Electro Galvanized Steel sheet of 1.0mm to 1.6mm duly painted with VOC Free Paint or Powder Coated. The corners designs maintain to smooth flow of air circulation in O. T. / Clean Room. Design and fabrication of ceiling are modular such as attractive look and cover the laminar flow management system. All Corner R300 corner and end corner 3D with same dimension to achieve 100% air circulations. We use special anti-bacterial sealant in the joints to ensure hygiene.



Clean OR Anti-Bacterial Paint

Filling of all Joints and Cavities with Metallic Epoxy filler and Sanded flush to provide joint less finish and then sprayed with a water based liquid plastic aseptic and self – sterilizing well coating system to a d.f.t of 300 microns with primer. The sterile coating should be silver based and show resistance to a wide range of mixed species, including stubborn pathogens such as MRSA Acinetobacter aero genes, Bacillus subtilis, Escherichia coli, Listeria monocytogenes, pseudomonas aeruginosa, pseudomonas, putida salmonella typhimurium, serratiamarcescens, staphylococcus Aureusetc.



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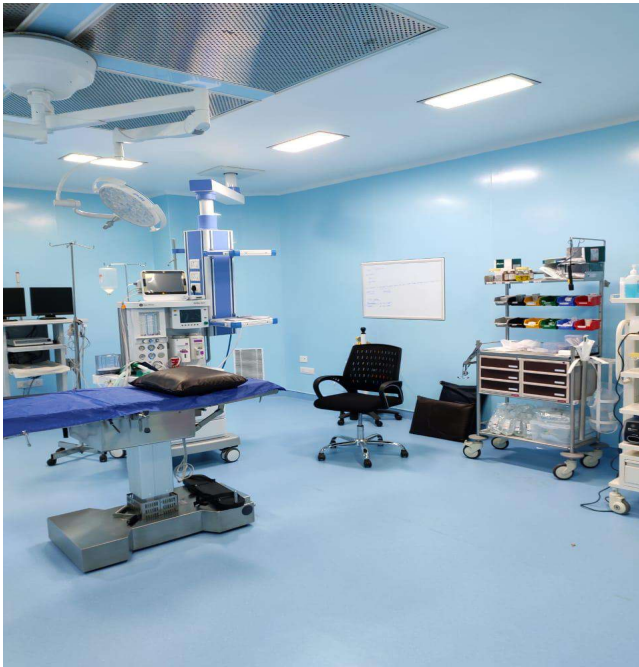
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Anti-Microbial And Hygienic PVC wall cladding



Our UK-made antimicrobial wall cladding ranges kill bacteria and prevent the spread of germs or contaminants in medical facilities, laboratories, cleanrooms, foodsafe environments, commercial kitchens, manufacturing plants, nurseries, schools and offices.

Quality Standard

EN 13501 B, S3, d0 DIN 4102 B-, BS 476/7 Class 0, NSP 92501, 5M-1, ASTM E 84 Class-A

Standard Sheet sizes:

Heights: 2438mm (8') | 2744mm (9') | 3048mm (10')
Width: 1220mm (4')
Depth: 2.5mm

Classification:

Bison Panel shall be used for the construction of fire resisting building elements to satisfy the criteria of I.S.O. 834-1975 and I.S. 3809-1979 for 1/2 hour to 4 hours fire rating. Bison Panel conforms to IS 14276-1995. EEC Food Hygiene Directive 64/483 Compliant.



Wall finish should be a high-quality PVC wall cladding system offering antimicrobial benefit. The 2.5mm PVC system should be complete with thermo-formed corners and hot welded joints.

Installation

Method of fixing panels: Mechanically Fixed using PVC Carriers and adhered with 2 Part polyurethane adhesive
Joint treatment: Hot Welded joints with thermo-formed corners

Accessories

Coved Skirting, Food Safe Sealant to perimeter joints & Welding rod

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GLASS MODULAR OPERATING ROOM



Rtech WALL consists of 10 mm tempered and toughened security glass and can be mounted on an existing wall or on a frame work. The Rtech substructure complies with the strictest quality regulations for the construction of ORs and other medically used rooms like ICU-, radiology- and endoscopy rooms including fire-, radiation and noise-protection. The modular system consists of wall- and ceiling- elements that can be sealed completely.

The weight of the walls is borne to the floor. To assure that, floor profiles of 1,5mm edged steel profiles are used. These are mounted onto the finished floor and also are adjustable to simplify the levelling of the walls.

The ceiling profiles are made of anodized aluminium and seal the upper part of the wall completely. The gaps between the frames can be used for technical installations like medical gases, power-, supply- and network- lines or water. Furthermore, elements for fire-, radiation- and noise-protection can be installed. On door profiles, the frame work is strengthened to ease the installation of the door drives



Feature :- Glass wall surfaces are clean, Hard wearing, non-combustible, and have an anti-microbial finish. Silver impregnated glass destroys 99.99% of dangerous bacteria.

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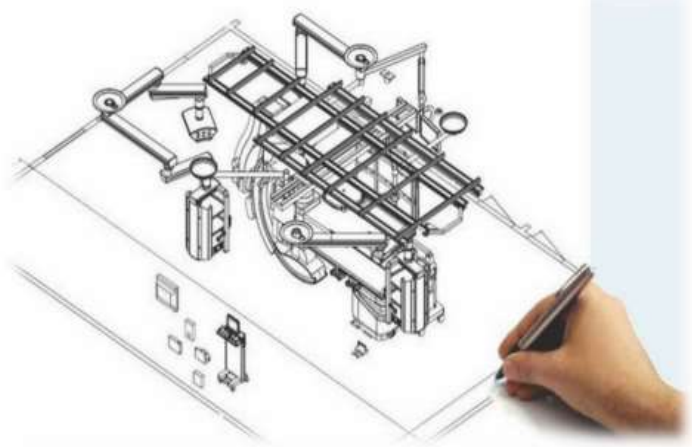


Operating Room Laminar Air Flow Management System

Laminar air flow System used for Modular OT applications, pharma filling, operation theater & packing line etc. Laminar Air Flow provides ultra clean sterile HEPA filtered of 0.03u class 100 air in a isolated area where the highly sensitive process activities are carried-out.



LAF ISO 14644-1



Clean air CLAF laminar air flow available in complete stainless steel construction or GI construction with PU coated finish.

Equipped with mini pleat HEPA with dynamically balanced ultra-low noise blowers for optimum airflow. Differential pressure monitoring done through magnehelic gauges. Various sizes can be manufactured and supplied to suit the specific site conditions.



Export



Domestic

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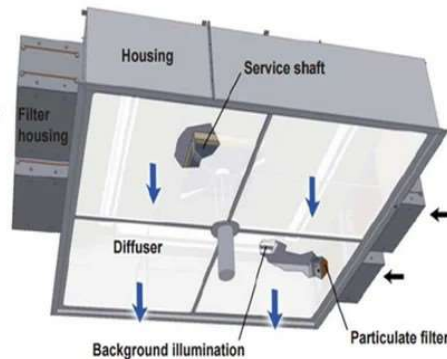
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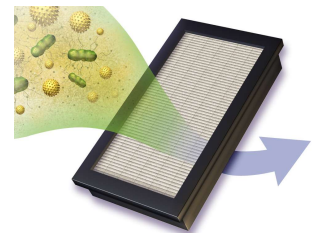


Operating Room Laminar Air Flow Management System

OR Ceiling Laminar Air Flow facilitate unidirectional air flow in a confined space. They create the particulate-free working area by emitting air through a filtration system and exhausting it across the work surface.



LAMINAR AIR FLOW BOX



HEPA FILTER



Key Takeaways

A laminar airflow system aims to reduce turbulence and maintain uniformity in the flow to reduce contamination.

The laminar airflow regime can be applied for down-flow or cross-flow operations. CFD tools can help in identifying turbulent regions and mitigating them with accurate simulations.

Laminar airflow refers to the flow within an air distribution system that follows the principle of laminar flow of air. When gas molecules travel in straight, parallel layers without intersecting or mixing with each other, laminar conditions are formed. In an enclosed space, the uniformity in velocity and direction due to laminar airflow provides the opportunity for creating an efficient circulation system. The circulation of the filtered air within a system is key to keeping a clean and contamination-free environment. This type of laminar airflow system is usually desired in industries such as chemical or semiconductor manufacturing as well as in medical and biological laboratories where the unidirectional flow of clean air is desired for the utmost protection against external particles. Most air handling units achieve this by applying vertical (downflow) or horizontal (crossflow) laminar airflow regimes.

Knowledge :-The modern clean room was invented by American physicist Willis Whitfield

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HOSPITAL FLOOR SOLUTION

Anti-Bacterial, Anti-Static, Conductive PVC Flooring

We offered OT Area flooring of 2mm thick Imported ESD PVC flexible homogeneous compacted floor covering in tile of size 608mm x 608 mm, suitable for use in labs, OT's etc. and conforming to static electrical charge $EN\ 1081\ 5 \times 10^4 \leq R_t \leq 10^6$ ohms and Electrical resistance- ANSI / ESD 7.1 (ohms) $2.5 \times 10^4 \leq R_t \leq 10^6$ ohms the conductive carbon coated PVC pellets create the permanent static-conductive properties. The Flooring protection characteristics with PUR+Iodin stain free properties. Its surface densely compacted for improving wear and ease of maintenance. It have anti-bacterial and fungicidal properties.



Homogeneous Flooring

2mm thick single layer matt finish vinyl flooring, 100% recycled flexible homogeneous and monolayer in construction of weight should be equal to or less than 2800g/m² and should be manufactured by calendaring & pressing process of size 2mtrs. x 20mtrs. in approved pattern, to ensure a dense, smooth surface and non-directional design, color dyed as a raw mixture to ensure even color throughout the thickness and its surface should be densely compacted for improving wear and ease of maintenance with Anti-bacterial and Fungicidal properties. The flooring shall incorporate specially formulated PUR+ Iodine stain free - UV Protected (No bacterial growth) JEOSHIELD Surface Treatment avoids staining of chemical products used in healthcare like betadine, eosin or anti-bacterial hand gel and increases the durability of the flooring. Having wear resistance of $\leq 2.0\text{mm}^3$ as per EN 660.2 & wear Group 'T' as per EN-649 (Type binder content 'I' as per ISO10581) and should have a residual indentation of $\approx 0.02\text{mm}$ confirming to EN 433. The laid flooring shall confirm the fire rating Bfl-s1 class as per EN ISO9239-1 / EN ISO11925-2. The product should be Pentachlorophenol (PCP) free and Covid-19 protection. It incorporates bacteriostatic and fungistatic actions, tested for Anti-bacterial activity (ISO 22196 $\rightarrow >99\%$ inhibit the growth of bacteria).



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HOSPITAL FLOOR SOLUTION



VOC FREE VINYL FLOORING

It would have low VOC contain as TVOC after 28 days $<10 \mu\text{g}/\text{m}^3$ as per ISO 16000-6. 100% REACH compliant. SGS certified. Improvement of impact sound insulation is +4db as per EN ISO 10140/1 & EN ISO 717/2. It should inhibit the growth and spread of infections such as MRSA, E coli bacteria. The floor finish should terminate at the room perimeter passing over a concealed cove former and continuing up the wall for 100mm. The joints in the flooring should be sealed by using a PVC welding bar of matching colour to be supplied by the manufacturer, using a hot air gun for fusion of welding bar with flooring. The vinyl sheet shall be laid & fixed with water based adhesive preferably AROBOND-44

SELF LEVELLING COMPOUND (SAS TECHNOLOGY)

The hyper-fluid self-levelling product with prolonged work ability, extra rapid hardening, compensated shrinkage, suitable for high-resistant adjustment from 2 to 4mm of irregular non-planer substrates before laying homogenous tiles with very low TVOC emission and hypo-allergenic cements.

The cement-based adhesive with SAS Technology, reactive-epoxide and polyurethane two component products, dispersed in water solution and solvent.



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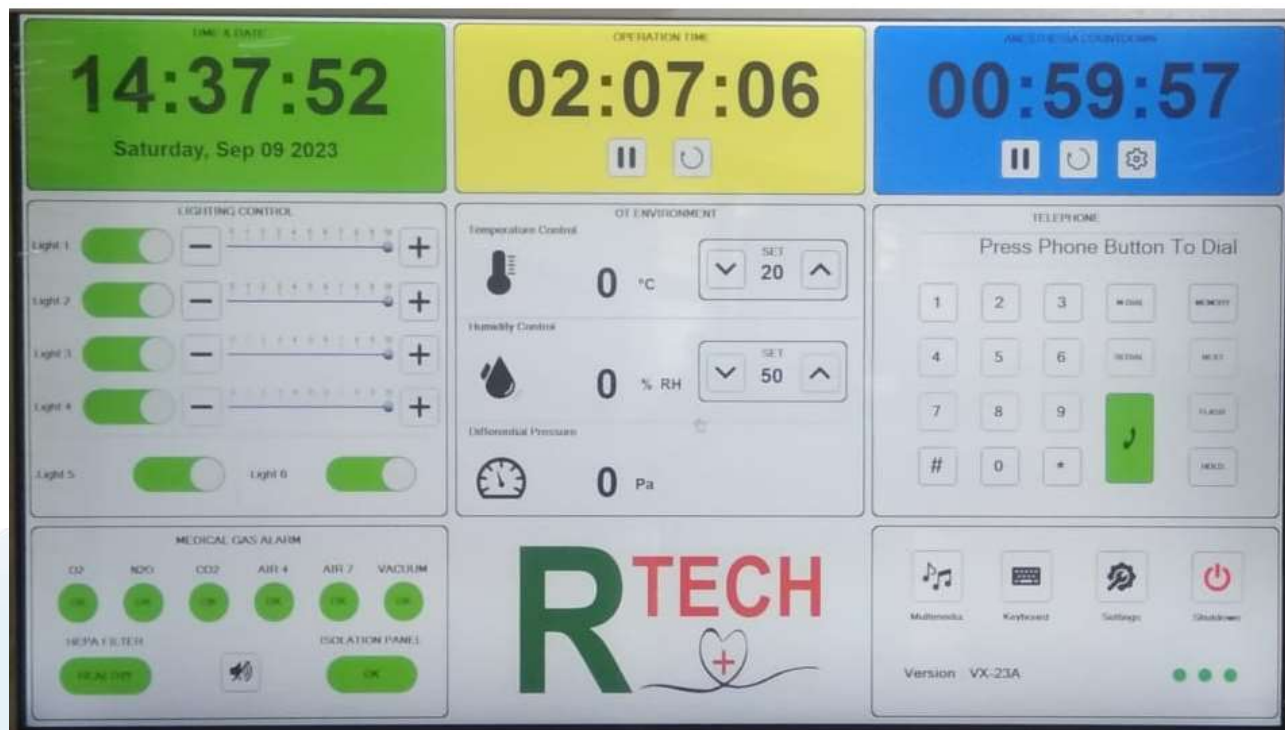
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Operating Room Touch Screen Control Panel

With the touch sensitive monitor, which can be operated directly by the touch of a finger, operating and monitoring of OT parameter likes temperature, humidity is now very simpler. The graphical user interface is capable of displaying and controlling all kinds of complex OT parameters. The end result is an overall system that is both modular and flexible, enabling it to be adopted or expanded, or to accommodated new technologies.

Advantages

Future proof - additional alarm, interface and controls can be added by simply modifying the software within the panel e.g. there is no need to cut a hole in the panel fascia to add a new feature button or indicator.

The Screen's smooth surface make it easy to clean and it is designed to withstand the aggressive cleaning agents commonly used in operating rooms/ theater.

Additionally the touch screen's innovations ergonomics are particularly well suited to medical staff need a single display.

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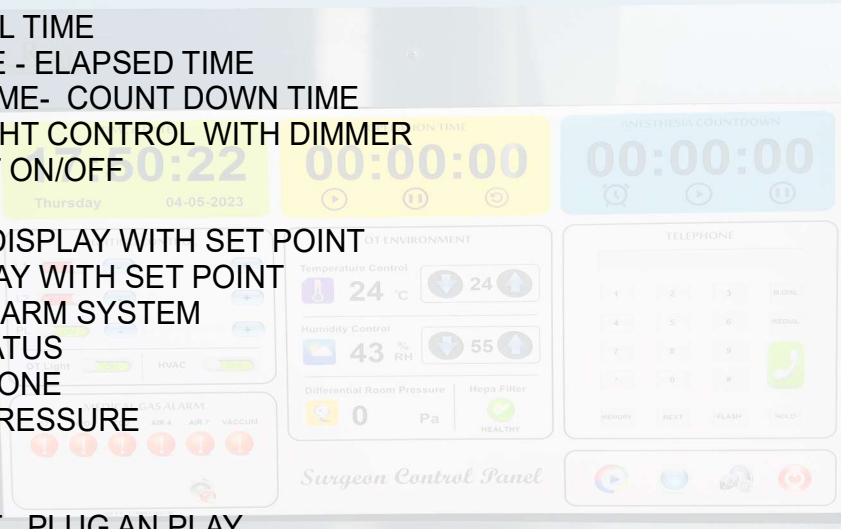
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Features

- * DATE TIME - REAL TIME
- * OPERATING TIME - ELAPSED TIME
- * ANAESTHESIA TIME- COUNT DOWN TIME
- * PERIPHERAL LIGHT CONTROL WITH DIMMER
- * SURGEON LIGHT ON/OFF
- * H.V.A.C ON/OFF
- * TEMPERATURE DISPLAY WITH SET POINT
- * HUMIDITY DISPLAY WITH SET POINT
- * MEDICAL GAS ALARM SYSTEM
- * HEPA FILTER STATUS
- * HANDS FREE PHONE
- * DIFFERENTIAL PRESSURE
- * MUSIC PLAYER
- * AUDIO ALARM
- * USB STICK PORT , PLUG AN PLAY
- * HOSPITAL LOGO ON SCREEN



POWER SUPPLY

Supply Voltage	AC 100-240V, 50/60 Hz
Power Consumption	100 watts

TOUCH DISPLAY LED

Screen Size	22inch and 32 inch
Resolution	1920 x 1080 Pixel HD
Brightnees	450 cd/m2 min.
Contrast	1000:1
Viewing angle	Horizontal/Vertical:178deg
Number of colors	16.2 Million
Response Time	25ms

SOFTWARE SPECIFICATION

Booting Time	30-35 Seconds
Operation System	Windows
Software Version	VX 3.0

DIMENSIONS

Wall insert box cut out	615mm X 425mm X 130mm (Powder Quoted)
Front Frame Panel	665mm X 475mm (SS 304 Grade)
Panel Weight	15kg
Packed Box Size	680mm X 500mm X 195mm
Packed Box Weight	17kg

EMBEDDED PC DURATHON TECHNOLOGY

CPU	Intel Celeron 2.4 Ghz
RAM	2 GB
Storage	60 GB SSD
Interfaces	4XUSB, 2xSerial , 1xLan
Graphic	VGA, HDMI

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Operation Theater Pendant

Radon Med Tech Manufactured Medical Pendant is an indispensable Gas Supply Medical Equipments for the Modular Operating Rooms / theatre of the hospital. Its mainly used for terminal transfer of Medical Gases such as Oxygen, Med Air , N2O , Surgical Air, Carbon Di-Oxide & Central Suction in the Operating room Comply with ISO 13485 standards MDD 93/42 directive.

The installation of the Medical pendant adopts ceiling suspending mode, which can rotate within 340deg to accurately adjust the height of the terminal box. The height of the equipments makes the Medical personal reachable and easy to operate . One or two horizontal aluminium arms , extruded by high -quality and high strength aluminium alloy , and the surface is Oxidized and rust proofed . Friction braking system / Electro-megnetic braking system to prevent movements.



ROTARY PENDANT

Rotatory Pendant used in Operating room for Surgery, ICU , Emergency Room & Recovery room etc, and is mostly used for placing surgical instrument such as Para Medical monitor, electric switch and socket and equipments required for General surgery , bedside. its provides the necessary medical gas , power outlet terminal.

Feature

- Non-Motorized
- Single / Double arm Optional
- Arm Rotating range 340 Deg
- Aluminium profile , electric devices separated in the critical
- Mechanic Brake (Optional Electro Megnetic Brake)
- Maximum load capacity 110kg
- Ergonomic control consol for easy positioning and manoeuvre
- Extensive modularity construction to allow for future expansion .
- shelf and drawer load capacity : 60kg



Standard Configuration

- Medical Gas Terminal Units: Oxygen , N2O , Med-Air, Vacuum
- Electric Socket : Available different power rating as per customer specification
- Communications port : Available RJ-11 and Rj45 or customer specification

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Surgeon Operation Theater Pendant

Motorized Pendant

Motorized Pendant Widely used in Operating room for Surgery room can move up and down and Rotate at 340deg. One or Two arms horizontal aluminium arms. Using High quality branded motor . ceiling pendant arms has a capacity of up and down movement by and electrical motor.

Feature

Motorized Single or Double arm O.T. Pendant for hospital
Single / Double arm optional
Move up and down and Rotating range 340 Deg of arm rotation
Electric lifting angle 45deg.
Aluminium profile , electrical devices separated in the critical
Ceiling plate support system
Mechanic Brake (Optional Electro Megnetic Brake)
Maximum load capacity 110kg
More monitor table, gas outlet, electric and drawer can be adjusted according to customer specification.
Extensive modularity construction to allow for future expansion .
shelf and drawer load capacity : 60kg



Standard Configuration

Medical Gas Terminal Units: Oxygen , N2O , Med-Air, Vacuum
Electric Socket : Available different power rating as per customer specification
Communications port : Available RJ-11 and Rj45 or customer specification & IV Pole



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TECHNICAL DATA

TECHNICAL CHARACTERISTICS				
SURGERY PENDANT			ANESTHESIA PENDANT	ENDOSCOPY PENDANT
TYPE	ROTATORY PENDANT	MOTORIZED PENDANT		
SWIVEL Arm Option	Single /Double Arm	Single / Double Arm		Single / Double Arm
Model	R100/R200	RT100/RT200	RTA100	RTE100/RTE200
Ceiling Mounting	Mounting on concrete ceiling users heavy duty anchors			
Optional Length of Single Arm (mm)	600mm -1020mm			
Max Load	90kg	110kg	200kg	150kg
Height of Services Head	1020mm	1020mm	800mm	1500mm
Dimensions of Shelf	400mmx450mmx30mm			
Swiveling Rang	340 Deg			
Shelf and Drawer Load capacity	60kg			
Rotating Breaking	Mechanic brake (Optional Electro-megnetic Break)			
Electric Switch & Socket	06 Socket and Switch (Power Rating :- 220V +/-10%, 50/60Hz, Single Phase)			



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OR Hermetically Sealed Door

Benefit of Door

OT is the most complex hence most expensive functional of a hospital. Considering its nature of high risk for patient safety, we need utmost hygiene purest air.

OT is the most complex hence most expensive functional of a hospital. Considering its nature of high risk for patient safety, we need utmost hygiene purest air.



Hermetically sliding door completed inorganic
Prevention from cross contamination & air turbulence
Isolation and noise reduction
Reducing the time for building the air pressure inside the OT
Operational ease
What special we bring to you.
We offer total solution not just product
Design proposition
Durable and minimum maintenance
Standard and customized solutions
Continuous product upgradation

APPLICATIONS

OPERATION THEATRE

LABORATORIES

CRITICAL CARE UNIT (CCU)

NEONATAL IN CARE UNIT (NICU)

STERILE ROOM

INTENSIVE CARE UNIT (ICU)



Hermitically Sealed Door

Hermetically Sealed Sliding/Swing (Automatic/Manual) Doors are used in our Clean Laminar Air for Operating room to ensure hygiene and to keep the air pressure, air temperature and air movement in control. It also provides space saving and safety as its moving panel slides into the sealed compartment. Radiation proof doors are also available. For the convenience these doors are operated either manually or Automatically by foot sensors and infra-red sensors are used for the safety.

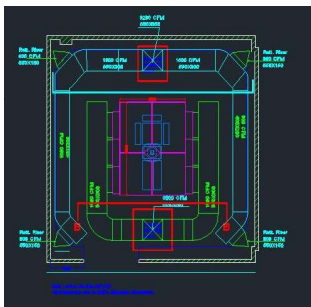


Air Handling Unit (VRF/Non VRF)

We offer wide range of air handling units (AHU's) depending on the projects. As AHU's are most important part of any HVAC system so we choose only high Quality AHU's for the sustain ability of the project. Our Package Have PLC Based AHU control System .

Storage Cabinet

Wall-mounted drug cabinet (900mmx1700mmx300mm) made of 0.8mm~1.6mm stainless steel sheet and frame of aluminum profile. include partition glass. upper door made of reinforced glass. Different models available.



Air Ducting

Air Ducts: ALUMINUM (275 GSM) : 18 gage Air Ducts : Insulation thickness: 9-12 mm, Air Ducts on Terrace: Insulation thickness: 18mm Flexible, Double layer, fire retardant, Duct Connection FRP Cladding Air Ducts on Terrace, Aluminum Grill & Key Type Damper

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Hermitically Sealed Door

R_{Med} Hermetically Sealed Doors are used in Clean Operating room to ensure hygiene and to keep the air pressure, air temperature and air movement in control. It also provides space saving and safety as its moving panel slides into the sealed compartment. Door Leaf have stretcher guard made of AISI 304. Radiation proof doors are also available. For the convenience these doors are operated either manually or Automatically by foot sensors and infra-red sensors are used for the safety.



Hermitically sealed Sliding Stainless Steel Finish Door



Hermitically sealed Sliding Door



Fully Automatic Hermitically Sealed Sliding Door



Hermitically sealed Swing Door



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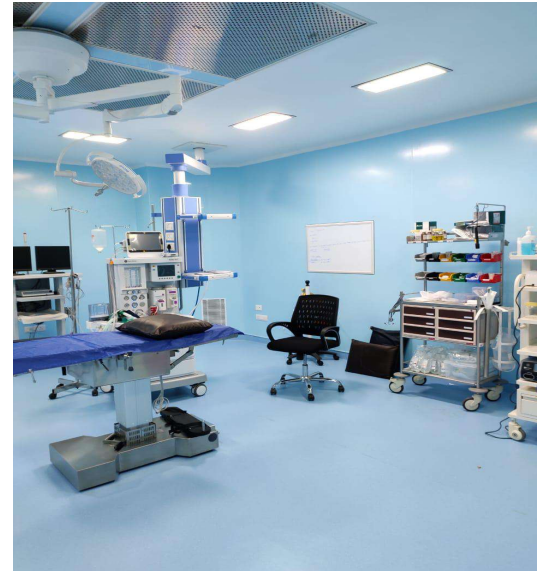
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ICU/CCU/NICU setup, Hospital Flooring, Hospital Furniture & O.T. Light and O.T. Table

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