



Medi-Ex

HEALTHCARE WITH INNOVATIONS



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MEDI-EX DEVICES PVT LTD

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Medi-Ex Devices Pvt Ltd

Introduction

We are at the forefront of the design, installation and maintenance of Modular Operation Theatre

- ➡ Medi-ex Devices Pvt Ltd has an enviable reputation as one of India's finest manufactures of Modular Operation Theatres. Medi-Ex brings to you bespoke Modular Operation Theatres (MOT) that are designed and built keeping in mind your needs to give you the most efficient and cost-effective solution. Along with functional utility.
- ➡ Our (MOT) suites is a state-of-the-art modular operation theatre that are designed in compliance with all the relevant National and International Standards. It assimilates all the necessary models that are customized to suit the customer needs, along with the option of integrating equipment, such as LED OR light, OR table, OR digital signal transmission, OR climate parameters and gas alarm. As a result, each installation is a bespoke design tailored to meet the needs of the client



Our Mission

We are investing in developing our products and services that will deliver long-term value for our customers.

Our Vision

We wish to be leader in our chosen field/segment, continue to serve the patients in particular and society in general.

A photograph of three surgeons in an operating room, wearing blue scrubs, masks, and hairnets, focused on a surgical procedure. The lighting is dim, with the primary light source coming from the surgical lamps, creating a professional and clinical atmosphere.

Our Services

Our aim is to design and deliver an environment that suitably meets the needs of the medical staff and is patient- focused. Therefore we undertake the developments of O R as a systematic process that is executed in a time bound manner keeping in mind the design considerations as mandated with never ending focus on delivering QUALITY & SUSTAINABILITY

We offer our expertise in the Design & Execution for remodeling / retro fitting of commercial premises / old Healthcare Service facilities transformation to Healthcare service Providing facility that are compliant to the latest HealthCare Guidelines and also match the functional utility.



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Medi-Ex Devices Pvt Ltd

Trust our experience and expertise to provide you an optimal end to end solution

-Laminar air flow with Air Handling Unit and external outdoor unit.

-Wall and ceiling (Various options customized as per your needs.)

-Hermetically sealing door (Manual and Automatic)

- Pendant

-Electrostatic discharge flooring

- Pressure Relief Damper

- Display and Control Panel (IEC Compliant)

- LED Peripheral light (IEC Compliant)

- Hatch box passbook

- Scrub Station (Manual and Automatic)

- Surgical Light and Tables

- Magnetic Writing Board

- X-ray View Box (IEC Compliant)

- Storage unit

- Double Glazed Vacuumized Window with Motorized Blind





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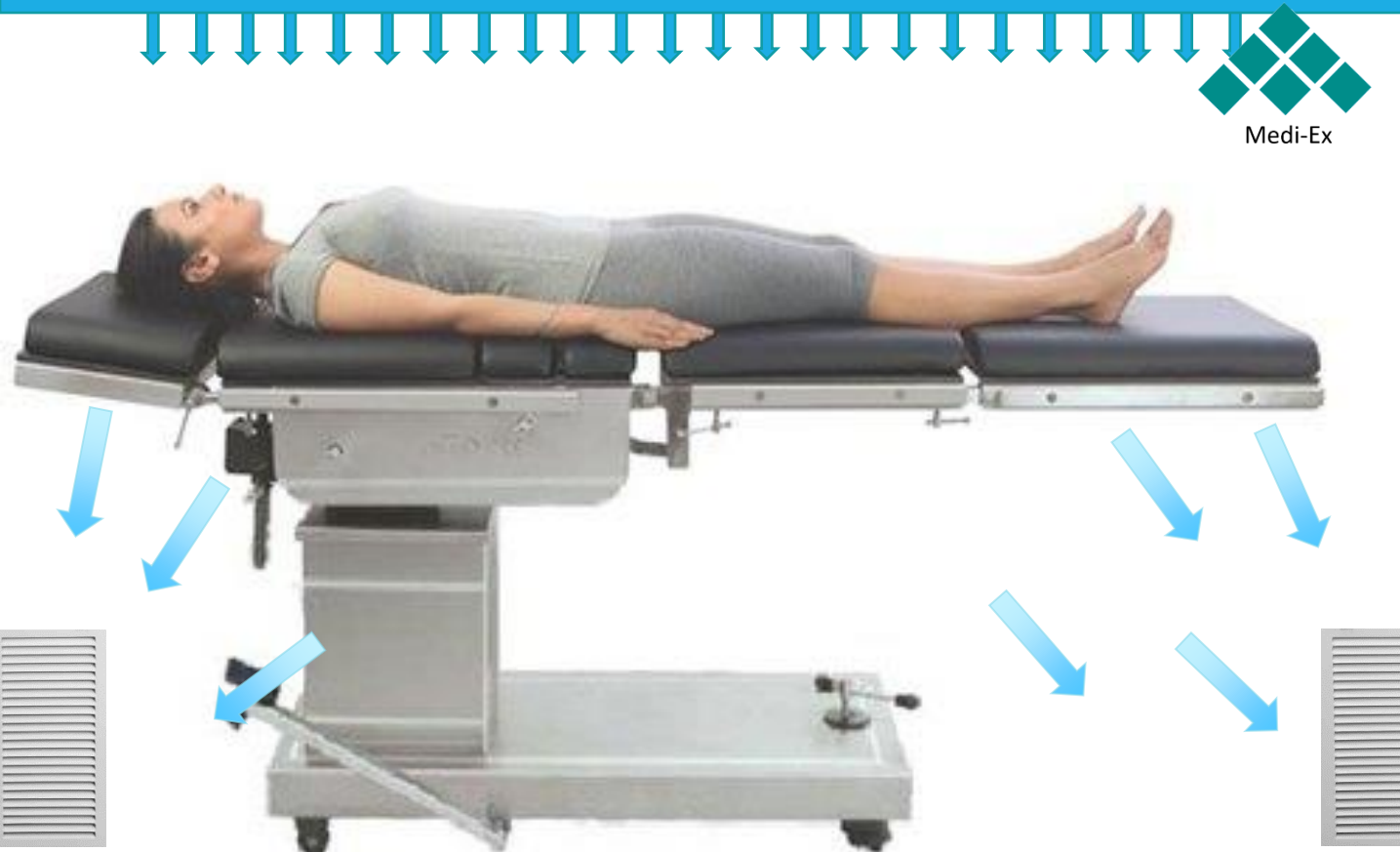
Laminar Air Flow with Air Handling Unit & Outdoor Unit

For steady, turbulence – free & clean air inside the OT

Laminar air flow ensures that the flow of air in the OR is continuous, steady, unidirectional moving with the low uniform velocity in parallel planes. The air flows steadily without letting contaminated particles be picked up from one spot and deposited in another, instead it ensure that they are carried away from the working area to the exhaust point . Easily accessible test ports can be provided (OPTIONAL)



Exhaust air grill of SS304 or aluminum powder coated mounted on exhaust air ducts. The grill is openable to facilitate cleaning of exhaust air cabinet duct, Exhaust Grid can be provided at both location – close to floor and close to ceiling Fluff Strainer, and damper can be provided as optional.



The air handling unit (AHU) is an integral part of an OR used to re-condition and circulate air as part of heating, ventilating and air-conditioning system. The basic function of the AHU is to take in outside air, re-condition it and supply it as fresh air to a building. All exhaust air is removed, which creates and acceptable indoor air quality. Depending on the required temperature of the re-condition air the fresh air is either heated wire recovery unit or heating coil, or cooled by a cooling coil.

Size of plenum- 6'X8' or 8'X8' (other size also available)

Purity of Air through mini pleat type HEPA Filters for class 100 air quality.

Air Velocity – 0.45m / sec. (90-120PM)

Air changes -30 times per hour, with fresh air 20%

Size of filter grid 6'X8' with per – filter (other size also available)

Positive Air pressure 2 to 15 Passal (As per ISO 14644)

Temperature -18 to 24 degree

Humidity – 40-60%

Compatible Air Handling Unit (AHU) for each OR

Return air duct from all corners modular ceiling with built in flush lights

2 stage Pre-Filtration – 10 microns & microns



Wall & Ceiling



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We offer various options in wall. Each comes with an antibacterial and antifungal coating and a range of aesthetically designed finishes.

Ceiling sheets of various options including metallic (SS 304/Aluminum sheet of approx 2400mm x 1200mm applied with Anti bacterial Anti Microbial paint along with nano technology coating for protection against bacteria, fungi, Staphylococcus aureus resistance etc.

Wall that are durable, functional, seamless and aesthetic





Automatic Door



Manual Door

Hermetically Sealing Door

The importance of clean air in OR cannot be undermined. Hermetically sliding doors specially designed to control the air pressure and prevent infections and bacteria to enter into the OR. The sliding doors also provide easier accessibility and better use of available space as compared to conventional door sets. Apart from the standard size we also offer these doors in customization as per your specific requirement.

Our hermetically sealed sliding doors are available in two variants.

- . Automatic
- . Manual
- . Swing Down Doors

. Also available Anti-Radiation, Lead line doors for Radiology Department / Cathlab.

.Customization in Stainless Steel can be done.



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PENDANTS

The surgical pendant is available in a variety of configurations to meet all kinds of surgical requirements of the medical staff during a surgery or procedure. Pendants are available in single or multi arm variants.



Efficiently manage your space and devices keeping the floor space free.

Space management

The pendant efficiently manages all essential clinical equipment such as medical gases electrical, videos, audio and communication equipment.

Easy maneuvering

The pendant can be rotated with ease. Easy arm moments with good quality ball bearing.

Customized shelving and installation

Outlets such oxygen, Nitrous oxide, compressed air and vacuum can be placed according to your requirements. Even the shelves can be customized as per your requirements. Additional provision for oxygen outlet with humidifier and mask, IV holder, adapt monitor mounting which can be adjust easily according to the requirement.

Easy of use

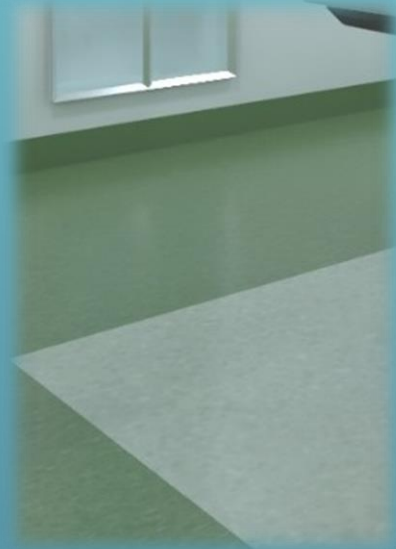
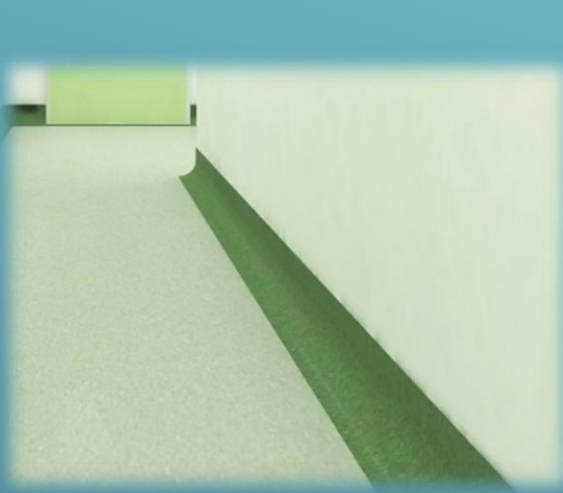
The pedants allow for easy adjustment of shelves. Storage drawers with stainless steel handles, configured with 340 degree range of ARM rotation with locking device non-drafting. Aluminum handles on pendant for easy positioning.

Electrostatic Discharge Flooring (ESD)



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Our flooring offers consistent, effective appearance and performance



The ESD floor is made to combat electrostatic discharge its source by facilitating a uniform flow of static electricity directly to ground point. We are offering an optimum quality range of homogeneous and conductive flooring. It is highly recommended in ORs where gases and/or electronic equipment are used during medical procedures.

Pressure Relief Dampers

Robust, maintenance-free and functional

Pressure relief dampers (PRD) are placed to prevent excess pressure in the OT. The AHU pumps in a lot of air very minute and the OT is hermetically sealed. PRDs are placed strategically in the OT to equalize the air pressure in the OT by opening just for micro second.



- .Working range 5 35 Pa.
- .Blades made of aluminum casing made of galvanized steel
- .Blades open when the maximum different pressure is exceeded and close your romantically when the pressure drops
- .Blood locking with permanent magnet
- .Robust maintenance free construction.
- .Available in standard size and many intermediate sizes.
- .Operating temperature 0 to 80 degree c

Display & Control Panel



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Conforming to IEC 60601-1 STANDARDS

Concentrate on the patient needs; for the rest we are there

All the controls of the modular operation theatre are provided on a membrane type, micro controller based electric control panel mounted in the room wall. Our control panel meets the electrical safety codes for high and low voltage systems. It is user friendly and made with superior quality UV resistant member with sterilization feature.

The control panel consists of six or nine tiles as per your requirement.



Control panel tiles:

- . Time of the day clock
- . Elapsed time clock
- . Temperature display/ control
- . Humidity display/ lighting control/ Dimming
- . Medical gas alarm systems
- . Hands free telephone
- . HEPA filter status indicator
- . OT pressure indicator
- . A H U ON/OFF from inside the OT

ODU Temperature Pre Set and Control

Music control optional

Display & Control Panel

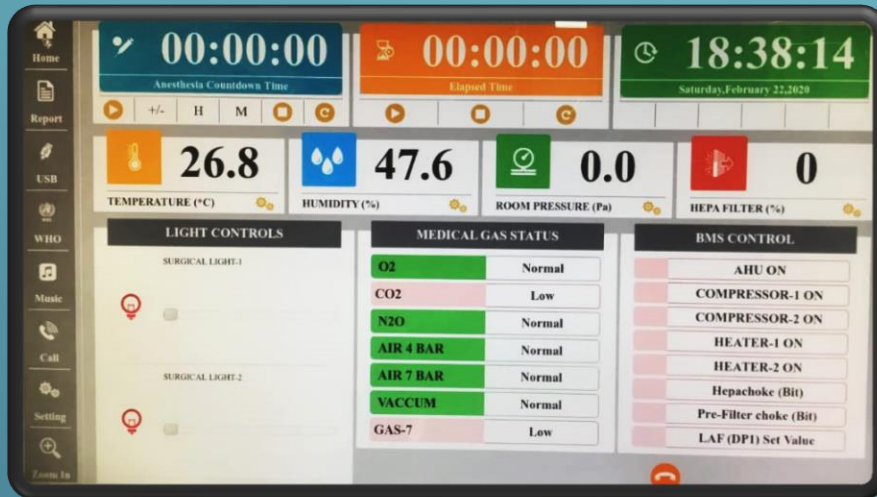
Touch Screen panel



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Convenient display of all Parameters Simultaneously

Enjoy the ease and convenience of Display & Control of relevant parameters being displayed simultaneously on touchscreen User Friendly Interface.. The panel meets the electrical safety Codes for high & low voltage Systems.



Touch Control panel user Interface Display Comprising of:

- . Time of the day clock
- . Elapsed time clock
- . Anesthesia Countdown Timer
- . Temperature display/ control
- . Humidity display/ control/
- . Lighting / Dimming/ control
- . Medical gas alarm systems
- . Hands free telephone
- . HEPA filter status indicator
- . OT pressure indicator
- . A H U ON/OFF from inside the OT
- . Music System (Bluetooth) & DATA USB Port (Both Optional)

* We reserve the right to make continuous changes to the display & configuration without prior notice due to continuous R&D

LED Peripheral light



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Conforming to IEC 60601-1 STANDARDS

Work with Optimum visual conditions in your OR



We provide excellent engineering and ceiling light solution to ensure that your OT is optimally illuminated and is easy to maintain.

- Intensity can be controlled via control panel
- Ip54 compliant
- With Dimmable Ballasts (Optional) for light Dimming control
- Light diffuser made from opaque Acrylic material.

Hatch Box / Pass Box

Hygienic transfer hatches that minimize the risk of contamination



Hatches are vital in an OT to provide a safe and easy way to transfer waste material from the over to the adjacent dirty lines area.

Each hatch is equipped with two doors that operate electronically. The hatches is design in such a way that only one should be open at one time. UV lights is installed in the chamber so that it is kept ON while both the door closed. This UV light has to be automatically turn off in case of opening of either of door. There are indicators on both side of the OT so that door open/close status can be maintain from both ends.

SCRUB STATION



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Easy to maintain, durable and custom designed as per OT layout



The scrub sink is available in manual mode with elbow, knee or foot operation in single/ double /triple faucets.

We provide splash-proof sensor controlled scrub sink that are an essential part of our OT installation. The scrub sink are made of stainless steel with superior quality adjustable faucets. The sensor can sense the slightest of movements and is pre-programmed with 1,3,6 and 10 minutes of scrub setting (can be changed as per requirement.) It can be mount on wall, a few inches above the ground, to keep the floor clean. The required thermostat valve provided to mix hot and cold water for surgeon's comfort.

The control panel consists of six or nine tiles as per your requirement.



Surgical Light and Table



With state-of-the-art technology or engineered from international standards we are involved in manufacturing surgical light and OT table for modular operation rooms.

Magnetic writing Board

- High finish writing board that comes in handy in OT.

Made of ceramic having magnetic properties and is fixed to the wall of the operating room



X-Ray View Box



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Conforming to IEC 60601-1 STANDARDS



We provide x-ray view box that facilitates viewing of the X-Ray with ease. Special blast offers flicker free illumination with dimmer for optimum viewing.

Available with features touch on/off button with multistage of lighting intensity.

Storage Unit

A convenient storage option with wall - integrated storage unit for all storage needs in the OT.

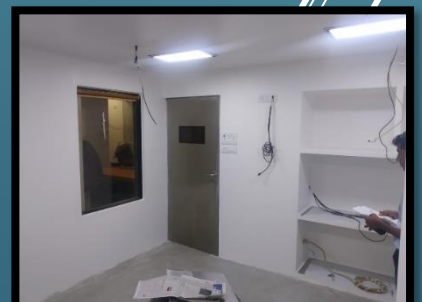
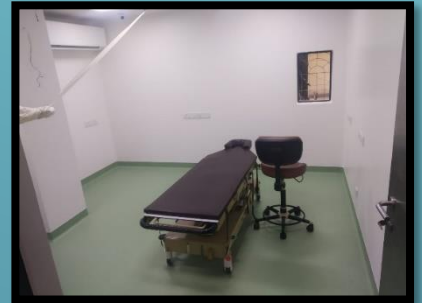
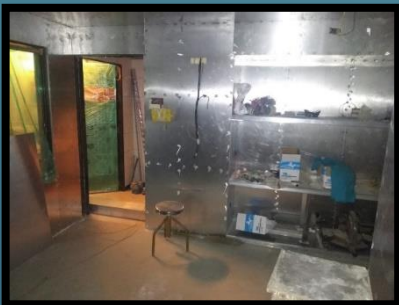
The units come with antibacterial paint coating and clear glass paints with magnetic catcher.

The Wall Integrated storage unit can be affixed with cladding inside the unit that is same as the OR wall panels.



RETRO FITTING / REMODELLING OF OLD PREMISES

Re-engineer your existing premises into a healthcare guidelines compliant facility



RETRO FITTING / REMODELLING OF OLD PREMISES



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Re-engineer your existing premises into a healthcare guidelines compliant facility



Avail the Services of our Experienced In-House Design Team to Re-Model your Existing Premises into a Healthcare Facility complying to the Prevelant Guidelines for Healthcare

We offer TURNKEY solutions right from re-designing up to Execution of the Project.

ICU PLANNING DESIGNING & EXECUTION

UPGRADE YOUR ICU into A Futuristic ICU complete with pleasant aesthetics and advanced infection management.

Redesign to incorporate advanced monitoring and clinical information management for 24/7 patient monitoring without compromising on patient comfort and Service Functionality

Avail our expertise in the Advance HVAC management for Infection Control in ICU with AHU for Airway management in the ICU

Advanced Care through Isolation Rooms with Negative Pressure for Providing infection free environment to Highly Vulnerable patients.

