



Modular Room System  
For Operating Theatres



We ensure complex realization of projects for modular operating theaters and other hospital rooms. Our offer includes measurements on the site, design, production, installation and service.



## System

The flexible, prefabricated, modular system for operating theatres, preparation rooms, scrub areas and other hospital rooms. The design of the modular system is carried out in accordance with technical building requirements.

The advantages of the system are:

- Quick installation time.
- Surfaces easy to clean and disinfect.
- Effective prevention against bacteria.
- Easy access to all devices behind the walls.
- Easy dismantling for new construction, renovation or maintenance.
- Mechanical durability and corrosion resistance.
- Perfect integration with other equipment as surgical scrub sinks, cabinets, ventilation devices, X-ray viewers, etc.
- Modern and aesthetic look.

# System



## System Elements

We offer complex solutions for operating theatres including following elements:

- Wall panels system
- Ceiling panels system
- Laminar ceilings and exhaust grills
- Peripheral lights
- System doors
- Pass boxes
- Observation windows and pass-through windows
- Medical cabinets
- Surgical scrub sinks
- Flooring
- Control system OPERA
- X-ray viewers
- Electrical switches and gas sockets
- Cameras
- Monitors
- Clocks.



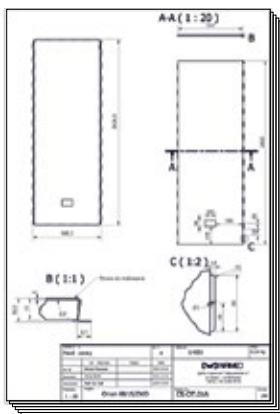
## Phase 1

– measurements on the site



## Phase 2

– layouts and visualisations



## Phase 3

– preparation of material fabrication and production

## Phase 4

– installation of the substructure on the site

## Phase 5

– installation of the wall panels





# Wall system



- ① Substructure
- ② Wall panel (epoxy coated steel)

- ③ Wall panel (glass with photo)
- ④ Control panel OPERA

## Wall System

### DESIGN

Made of individual modular panels, with a maximum joint width of 6 mm. The partition wall system design facilitates the dismantling of any individual panel, to provide easy access for later installations, alterations or repair work.

### SURFACES

- Stainless steel (grade AISI 304 or 316), polished or powder coated.
- Galvanized steel, powder coated.
- Glass fixed on steel frame, available with decorative photos.

The panels are installed to the wall on substructure made of galvanized steel. All internal corner wall panels are curved and easy to clean. Special silicone gaskets is used as a sealing between panels, frames, windows. Panels can be powder coated according to RAL palette, optionally with antibacterial paint.

### TECHNICAL DATA

Heat resistance:

- double-layered wall panel: 1,75 m<sup>2</sup>\*K/W
- single-layered wall panel: 1,60 m<sup>2</sup>\*K/W.

Sound insulation:

- double-layered wall panel:  $R_w(C;Ctr) = 57 (-4, -12)$  dB.

Air permeability:

- 0,3 m<sup>3</sup>/hm<sup>2</sup> (hypertension and hypotension 500 Pa).



- ① Clamping profile
- ② Cross connector

- ③ Ceiling panel
- ④ Nonius hanger-upper

- ⑤ Nonius hanger-lower
- ⑥ Peripheral light

## Peripheral lights

### SPECIFICATION

- Quick and easy assembling.
- Integration with clip-in ceiling panels system.
- Luminary coffer made of epoxy coated steel sheet.
- Accessories: electronic stabilizing and ignition system with possible light stream adjustment.

### TECHNICAL DATA

- Fluorescent lamps light sources: P[W]: 2x28W, 2x54W, 3x14W, 3x24W, 3x28W, 3x54W, 4x14W, 4x24W, 4x28W, 4x54W.
- LED light sources: P[W]: 18 – 123 W.
- Available dimensions: 1200x600 mm, 1200x300 mm, 600x600 mm.
- Ingress Protection Rating IP 65.

## Ceiling System

### DESIGN

- Metal ceiling is made of individually detachable panels with standard dimensions 600 x 600 mm.
- The substructure is made of galvanized steel.
- Panels are fixed in clip-in system.

### SURFACES

- Galvanized or stainless steel, powder coated, optionally with antibacterial paint.
- Standard colour is RAL 9010. Other color available optionally.
- Matt, washable, light resistance surface.
- Dust-free, abrasion-proof, corrosion resistant, non-hygroscopic.

## Ceiling System Peripheral lights, Laminar Ceilings



### Laminar Ceiling Air Diffusers

#### SPECIFICATION

- Laminar ceiling air diffusers are special, suspended ceiling device to ensure proper cleanliness and filtration of air supplied to an operating theatre.
- Equipped with absolute filters (HEPA) of H13 or H14 class.
- Ensure stable, laminar air supply to an operating theatre at 0,15 - 0,3 m/s
- The structure and outlets made of stainless steel (304).
- Optional outlets made of polyester fabric.
- Variety of sizes: multiple 600 or 650 mm sections, for example 1800x1800 mm, 1950 x1950 mm etc.
- Air efficiency: from 1340 to 14 380 [m3/h], depends on the size.
- Optionally the alarms of dirty filters can be singalized by OPERA control system.







## Hermetic doors

The hermetic medical doors are made of stainless steel with brushed surface or epoxy coated.

The door leaves are filled with highly-compressed polyurethane foam, providing thermal and acoustic insulation at the same time, assuring light weight and rigidity of the leaf.

The doors are tailored to individual customer's requirements: the dimensions, different shapes and sizes of vision windows, door handles, door frames, optional use of automatics supplied by renowned manufacturers with different activation options.





# Medical doors



## Hinged hermetic doors

### SPECIFICATION

- The door leaf and angle door frame are made entirely of stainless steel with brushed surface.
- Angle type, inner side door frame
- Door fittings made of stainless steel.
- Door leaf thickness 40 mm.
- Door leaf acoustically and thermally insulated with highly compressed polyurethane foam, density 50 kg/m<sup>3</sup>, assuring light weight and rigidity of the leaf.
- Hygienic silicone gasket cushioning the closing of doors
- Drop down seal increasing air tightness and sound insulation
- Single or double-leaf doors.

### OPTIONAL FEATURES

- Door available in hermetic option to ensure controlled air exchange and prevent the ingress of foreign bodies.
- Both side door frame.
- Vision windows (round, rectangular, optionally with electric blinds).
- Vision windows with PRIVA-LITE® active glass which, under the effect of an electric current, switches from translucent to transparent.
- Epoxy coating surface, with antibacterial protection.
- Lead protection against X-ray radiation.
- Self closers.
- Door automation supplied by renowned manufacturers with different activation options (elbow, infrared, knee activation, service, full-open, half-open buttons).



## Sliding hermetic doors

### SPECIFICATION

- The door leaf and angle door frame are made entirely of stainless steel with brushed surface.
- Angle type, inner side door frame
- Door fittings made of stainless steel.
- Door leaf thickness 40 mm.
- Door leaf acoustically and thermally insulated with highly compressed polyurethane foam, density 50 kg/m<sup>3</sup>, assuring light weight and rigidity of the leaf.
- Hygienic silicone gasket cushioning the closing of doors
- Drop down seal increasing air tightness and sound insulation
- Short or long door handles
- Single or double-leaf doors.

### OPTIONAL FEATURES:

- Door available in hermetic option to ensure controlled air exchange and prevent the ingress of foreign bodies.
- Both side door frame.
- Vision windows (round, rectangular, optionally with electric blinds.
- Vision windows with PRIVA-LITE® active glass which, under the effect of an electric current, switches from translucent to transparent.
- Epoxy coating surface, with antibacterial protection.
- Lead protection against X-ray radiation.
- Door automation supplied by renowned manufacturers with different activation options (elbow, infrared, knee activation, service, full-open, half-open buttons)

## Medical doors

### Pass-boxes, pass-through windows

#### Pass-boxes

##### SPECIFICATION

- Both side hinged doors, with interlocking feature (preventing opening of both at the same time).
- Electromagnetic or mechanic opening system.
- Hermetic closing.
- Vision window made of safe glass.
- Made of stainless steel, including handles. Optionally can be produced with lead protection.
- Dimensions according to individual customer needs.
- Flushed with wall panels.



Pass-box



Pass-through window in the door

#### Pass-through windows

##### SPECIFICATION

- The window consists of two separate glass panes: fixed upper part and sliding lower part, moving on vertical tracks.
- The movement is facilitated by mechanism balancing weight for easy opening. The sliding part can be set in any position.
- Made of stainless steel. Optionally can be produced with lead glass.
- Dimensions according to individual customer needs.
- Flushed with wall panels.
- Optionally can also be fixed into the door leaf.

## Built-in cabinets

### SPECIFICATION

- Built-in cabinets are elements of wall cladding, flushing with wall panels create homogeneous surface.
- Available in any configurations: double, single, with glazed or full doors.
- Made of stainless steel, optionally epoxy coated.
- Dimensions according to individual customer needs.



## Windows, glass elements

### SPECIFICATION

- Made of stainless steel.
- Observation windows flushing with wall panels (fixed or openable), optionally with electrically operated blinds.
- Dimensions according to individual customer needs.
- Optionally can be produced with lead glass.
- Optionally with PRIVA-LITE® active glass which, under the effect of an electric current, switches from translucent to transparent














Built-in cabinets  
Windows, glass elements  
Medical Furniture

## Medical furniture

Medical furniture for operating theaters, made of stainless steel. There is variety of furniture offered, among others:

- Instrument Mayo tables
- Dressing trolleys
- Medical trolleys
- Doctor stools
- Hangers with bowls
- Infusion holders
- Foot supports
- Working tables
- Medical cabinets
- Trolley for medical devices

		
Instrument Mayo table	Foot support	Trolley for dirty linen
		
Hangers with bowl	Medical trolley	Dressing trolley
		
Working table with sink	Doctor stool	Infusion holder



## Surgical Scrub Sinks

Surgical scrub sinks are made of stainless steel

**SU-01 Surgical scrub sink** with wall panel, without additional accessories. Available additional accessories: water, soap, brushes, towels dispensers.

Types and dimensions:

- SU-01.1, 1 bay, 850x600x1150 mm
- SU-01.2, 2 bays, 1500x600x1150 mm
- SU-01.3, 3 bays, 2100x600x1150 mm



SU-01.1



SU-03.2

**SU-02 Surgical scrub sink** with with knee operated water and soap dispensers.

Types and dimensions:

- SU-02.1, 1 bay, 845x635x1170 mm
- SU-02.2, 2 bays, 1600x635x1170 mm
- SU-02.3, 3 bays, 2355x635x1170 mm

**SU-03 Surgical scrub sink** with with infrared operated water and soap dispensers.

Types and dimensions:

- SU-03.1, 1 bay, 845x635x1270 mm
- SU-03.2, 2 bays, 1600x635x1270 mm
- SU-03.3, 3 bays, 2355x635x1270 mm



SU-02.3

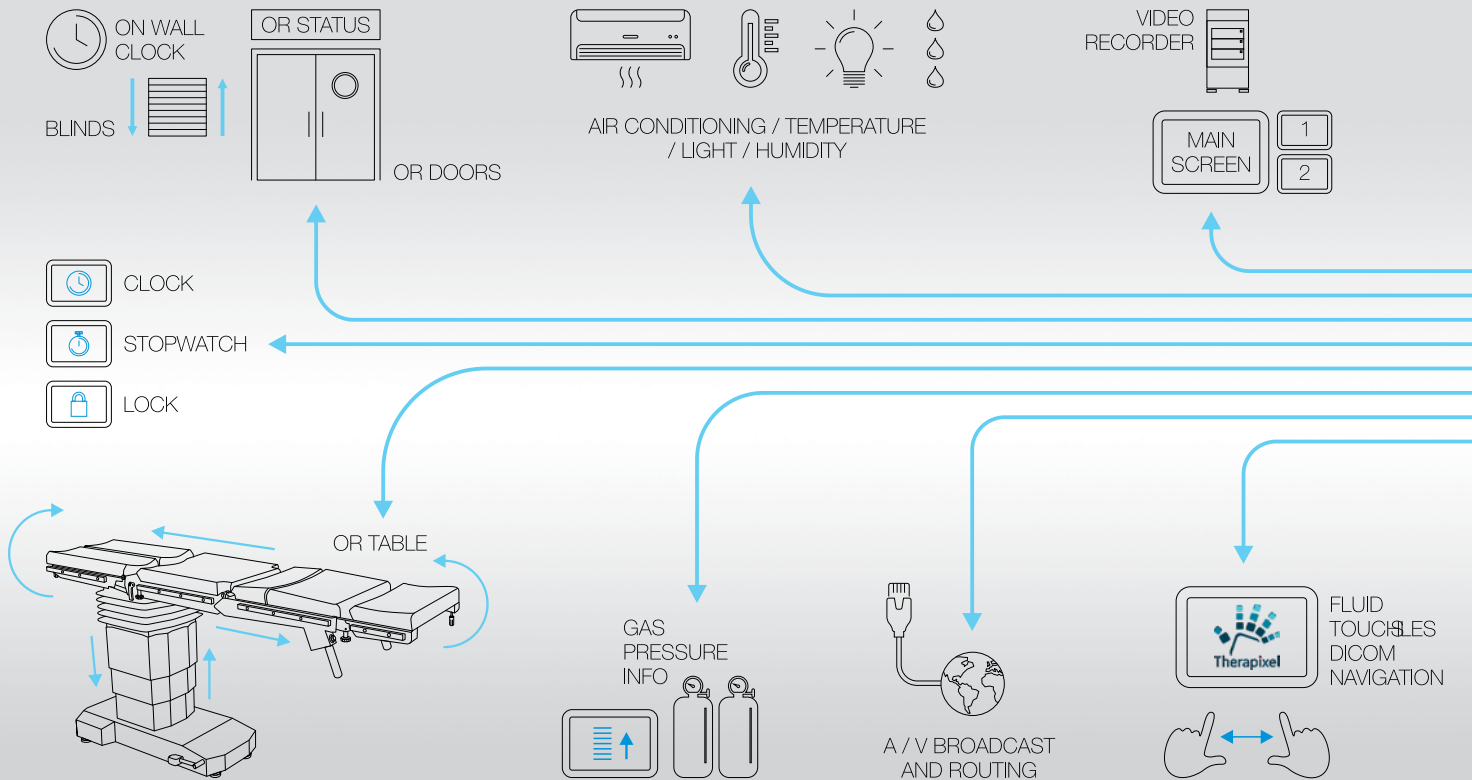
# Surgical sinks



## Additional accessories for surgical scrub sinks:

- Brush dispensers
- Disinfectant fluid or soap dispensers
- Paper towels dispensers
- Elbow operated water taps, wall mounted
- Infra-red water taps, mounted to the sink or wall mounted
- Infra-red water taps with infra-red fluid dispenser





## Opera control system

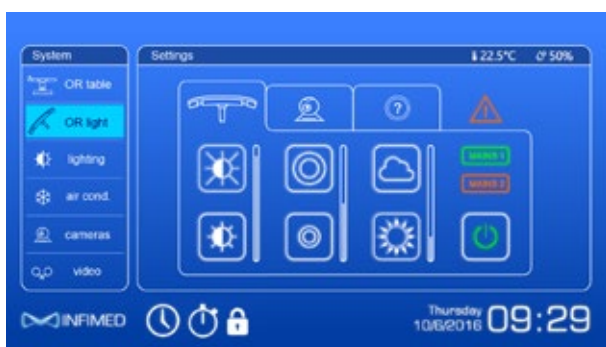
Provides better and easier control of the devices in the operating room from a single location. The system is very flexible, open, modular, can be adjusted to comply the client's expectations and requirements, accordingly to the above shown solutions. Can be operated from wall mounted control panel or wirelessly from mobile device.

The product is safe and secure and it is a certified Class I Medical Device manufactured in accordance with the ISO 9001, 13485 and other European standards. It provides a fully intuitive operation thanks to a simple and user-friendly interface, thereby minimizing the possibility of misuse and avoiding improper treatment operations.





# OPERA Control System



## OR light

controls the parameters of the operating light, such as brightness, field size and color temperature. Next tab controls camera functions – zoom in/out, rotation, auto-focus, freeze frame option etc. The last tab shows power source and any possible errors.

## OR Table

Controls the parameters of the operating table such as height adjustment, table top tilts, back rest angle, longitudinal slide, kidney bridge angle etc. Number of functions depends on the version of the OR table.



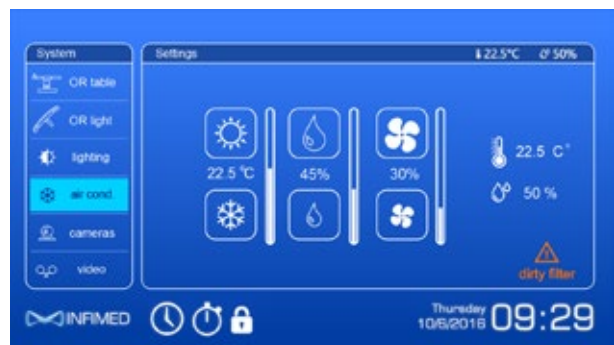


## Lighting tab

provides control over the installed light sources in the Operating Theatre: power on /off, dimming. Lights can be assigned to different groups with the DALI interface. Settings depend on the project configuration.

## Air conditioning tab

shows temperature and humidity readings, user is allowed to set desired temperature, humidity and flow speed (depends on configuration). Any system errors like dirty HEPA filter are displayed in the corner.



## Cameras

controls room cameras. Usually PTZ room cameras are located on a wall or ceiling, it is possible to turn on/off the camera, control the pan, tilt and zoom.

## Video tab

the available video sources are listed on the top with updated live thumbnails. On the bottom, the available video outputs are listed. User is able to pick any source and route it to any output destination. The count of input sources, output destinations, live thumbnails in application and streaming capabilities are defined by system configuration.



## Gas tab

duplicates the information gathered from medical gases system and shows it on a screen. Possible states are: status ok, high pressure, low pressure, system fault. Additionally from this tab, user can control AGSS system and check it's status.

## Additional products

Our product range includes also operating tables and operating lights:



### Electro-hydraulic operating tables VIVAX

- available with 3-7 remote controlled functions
- different versions of tabletops, both for general surgery (4,5,6, sections) and for specialist surgeries: angiography, orthopedic
- bariatric version for patients over 450 kg
- optional manual override system

### Mechanic-hydraulic operating tables FENIX

- hydraulic adjustment of height, side and longitudinal tilts
- Both tables can be equipped with wide range additional accessories for all kind of surgeries.



### Operating lights NEXUS

- LED technology
- Light intensity 130 or 160 klux
- High, persistent technical parameters
- Different configurations (single, double, triple), wall mounted, mobile
- Optional video integration

### Operating lights PROXY

- Economic LED light
- Light intensity 160 klux
- Very good technical parameters
- Different configurations (single, double, triple), wall mounted, mobile



### Examination lights ONYX

- LED technology
- Light intensity 30, 60, 100, 110, 120 klux
- Very good technical parameters
- Different configurations (single, double, triple), wall mounted, mobile

For special requirement of the customer it is possible to produce the product with changed technical parameters which do not diminish its safety.

The details given in this catalogue are correct at the time of going to press. Infimed Sp. z o.o., however, reserves the right to improve shown equipment.

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