



AN MEDICAL

# CENTRAL MEDICAL GAS-SUPPLY SYSTEMS



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AN Medical`s philosophy consists in making high-quality medical equipment available for the greatest number of clients of hospitals all over the world. Thus we want to help as many people as possible to reach the state of sustainable well-being. That`s why we find global cooperation so useful in reaching our common goals in medical field together with our partners.

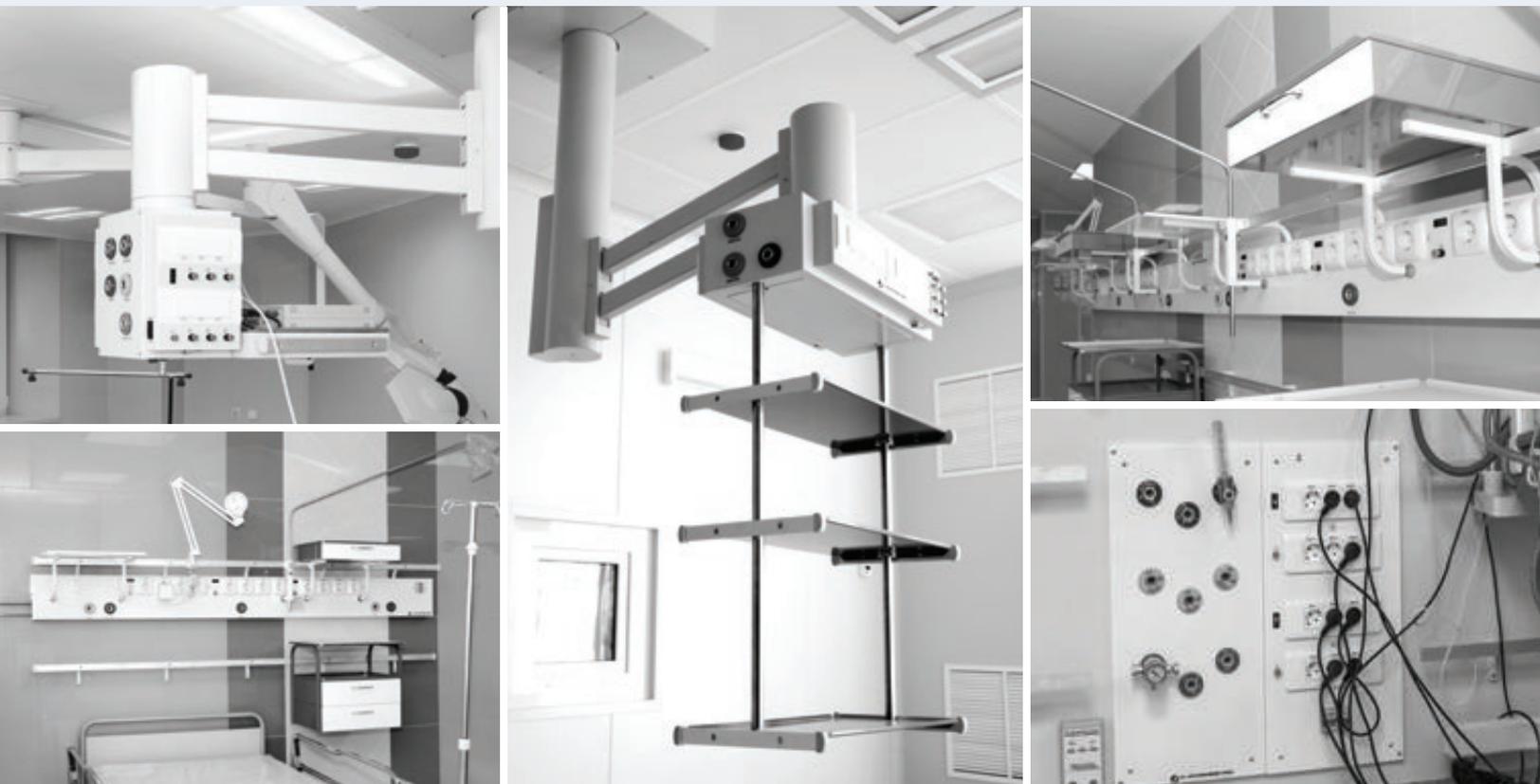
## WE CARRY OUT

### **ELABORATION OF CENTRAL MEDICAL GAS-SUPPLY SYSTEM, INCLUDING:**

- **DESIGN**  
Whole range of of projecting works for the section of medical-gas supply system: external networks, oxygen stations, internal medical gas supply networks(oxygen compressed air, nitrogen oxide, vacuum, carbon dioxide, argon).
- **MANUFACTURING**  
Medical-gas supply equipment production and design based on the individual approach to each client.
- **MOUNTING AND SERVICE**  
Mounting of central gas-supply systems of any complexity.

## OUR CLIENTS

«AN Medical» company`s specialist have equipped by medical gas -supply systems a total of more than 2000 hospitals and among them: Saint-Petersburg`s children`s hospital №1, Barnov`s Republican hospital (Petrozovotsk city), Henry Turner Children`s orthopedics research institute, Rauphus children`s city hospital, phthisiopulmonology research institute under the ministry of Healthcare and social development, Clinical hospital N122, Leningrad regional clinic Hospital, Marinskaya city hospital, Vreden`s Russian research institute for traumatology and orthopedics, Penza Russian city hospital, Dzanelidze emergency medicine research institute and many others.



**AN MEDICAL**

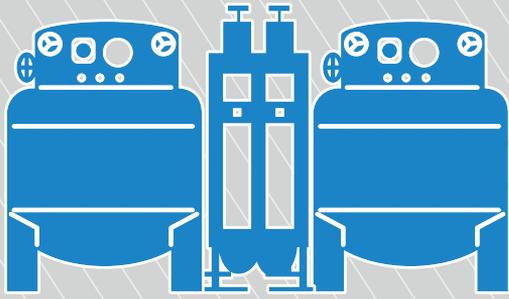
**25 years by your side!**

Over 25 years «AN Medical» has been designing manufacturing and installing a wide range of equipment for medical gas supply systems as well as any type of equipment for wards in medical preventive institutions. This equipment helps to make medical wards more comfortable as well as provide anesthesiologist in surgery rooms, and labor wards with comfortable and ergonomic workplaces.

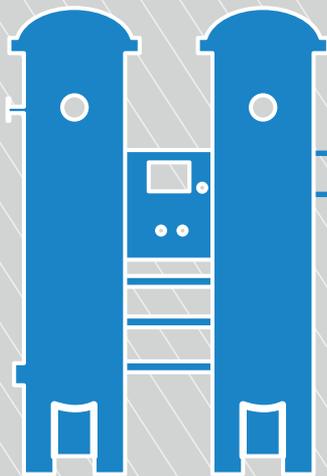
## OUR ADVANTAGES

- A long-term experience in producing life-support systems (medical consoles), equipment and consumables for medical gas-supply systems lets us provide medical wards of any profile with high-qualified and secure equipment.
- «AN Medical» has its own production capacity of 4 000 square meters provided with modern equipment that guarantees the complete manufacturing process. The availability of our own design department lets us to carry out the manufacturing of new products as well as executing orders for nonstandard equipment fitting any customer`s requirements.
- Our erecting crews carry out mounting, set-up, guarantee maintenance and repair works of all the equipment manufactured.
- The factory is certified according to ISO 9001 standard, which guaranties high quality of the manufactured products.

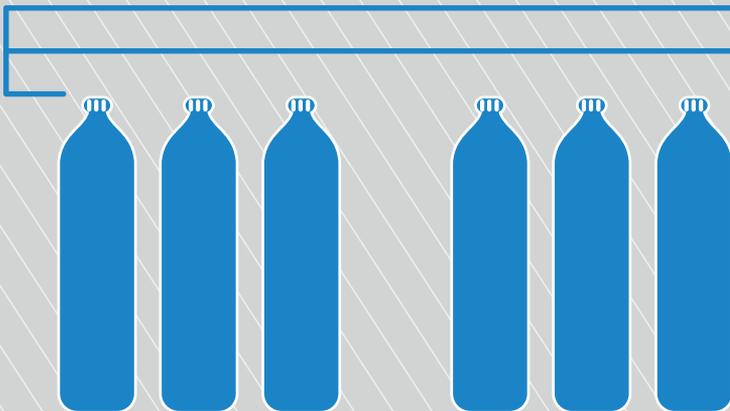
Oxygen-gasification stations  
Oxygen source



Oxygen concentrator

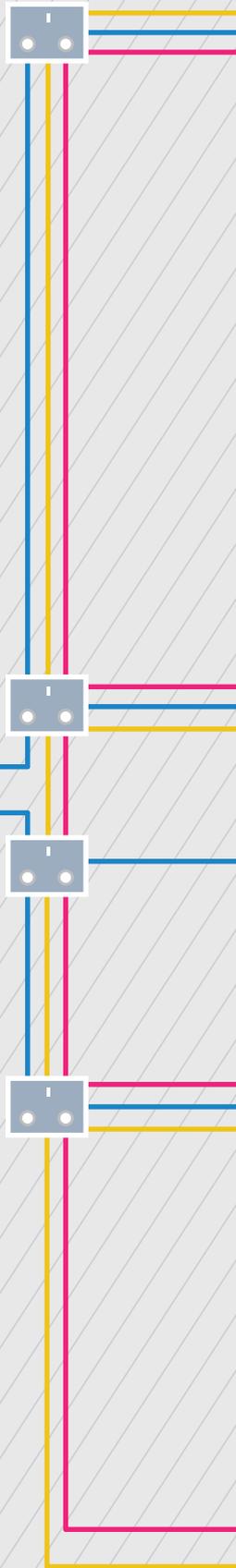


Redundant oxygen sources



Oxygen manifold

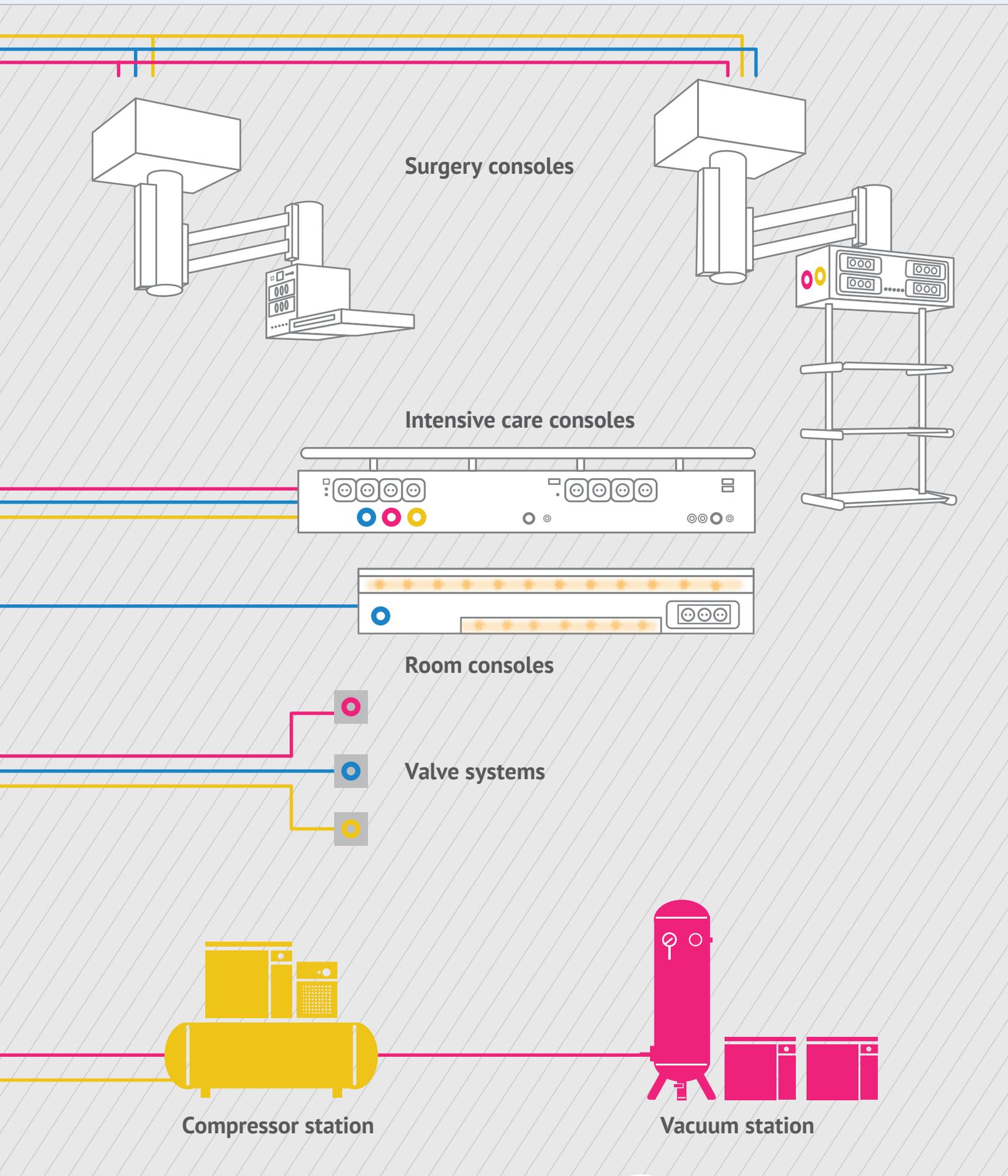
Cut-off  
equipment



Transfer  
and reduction  
coupling



**OUTSIDE**



**INSIDE**



# CONSOLES FOR MEDICAL GAS-SUPPLY SYSTEMS

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Provide efficient supply of medical gases and electricity directly to the anesthesiologist's or surgeon's workplace. Medical consoles make possible the ergonomic installation of the equipment near the patients bed by using the working space rationally, providing security for patients and medical staff.

Depending on the architectural particularities of the ward as well as customers requirements, consoles can be provided with different types of fixing: on-wall consoles, consoles suspended on the ceiling, consoles on support, consoles with floor-ceiling support.

In the integrated intensive care wards all low-powered circuit for video transmission and central control can be installed.

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## Medical consoles can be equipped with

- Necessary number of electrical sockets and gas valves
- All types of electrical connectors (Power connectors, radio, Phone, IT, Internet, Nurse-calling systems)
- Additional boards and rails for implements
- Additional control and measuring equipment (manometers, emergency shutdown valves, clock with stop-watch and timer)
- Discharging gas ejectors
- Equipment for oxygen therapy

# ON-WALL EMERGENCY CONSOLES

On-wall consoles are the most common type of gas-supply systems. Depending on customers requirements such consoles can be of any length as well as be equipped with any additional implements

## **CONFIGURATIONS:**

- ▶ Single-row consoles (electric equipment and gas valves make up a single row in insulated sections)
- ▶ Double-Row (electric and signaling equipment is located in the upper row while gas valves, manometers, shutdown valves, pipelines are located in the downer one)

Purchasing number 1.1

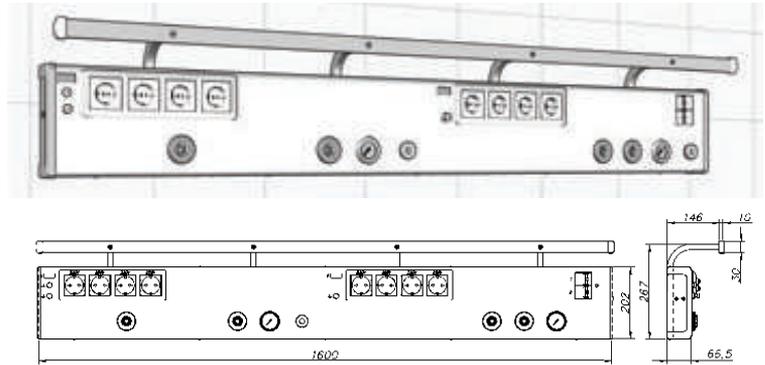
**STANDARD CONFIGURATION:**

- Length for one bed - 1600 mm
- Block of 4 gas valves and 4 plugs
- Block of 4 outlets provided with electric power indicators and an earthing terminal
- Block of 2 automatic safety devices
- Fixing rail along the length of the console for attached implements.

Option:

Aluminum as a material for face panel

**DOUBLE-ROW EMERGENCY CARE CONSOLE  
«ALT-N 1»(1600MM)**



Purchasing number 1.2

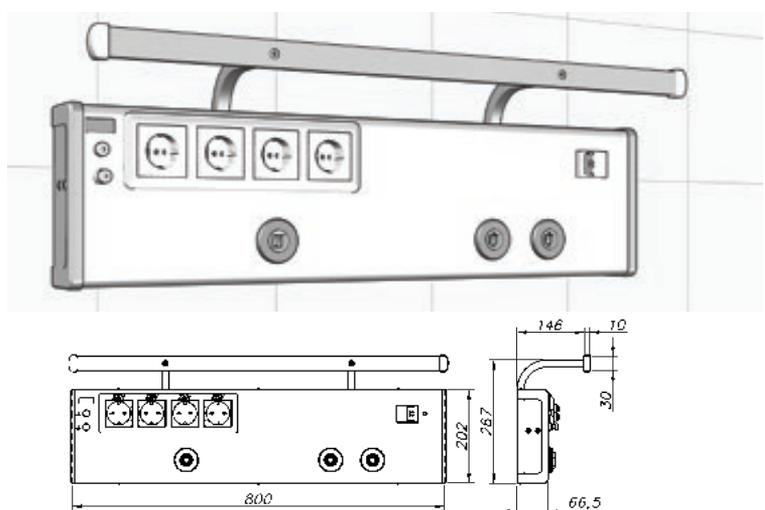
**STANDARD CONFIGURATION:**

- Length for one bed - 800 mm
- Block of 4 gas valves and 4 plugs
- Block of 4 outlets provided with electric power indicators and an earthing terminal
- Automatic safety device
- Fixing rail along the length of the console for attached implements.

Option:

Aluminum as a material for face panel

**DOUBLE-ROW EMERGENCY CARE CONSOLE  
«ALT-N 1» (800MM)**



Purchasing number 1.3

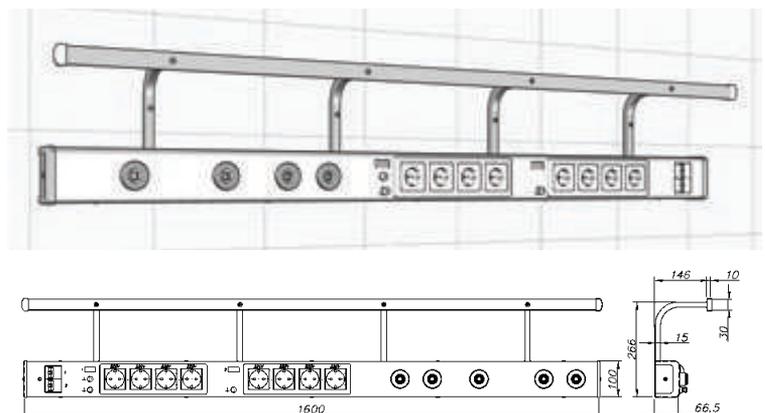
**STANDARD CONFIGURATION:**

- Length for one bed - 1600 mm
- Block of 2 gas valves and 2 plugs
- Block of 4 outlets provided with electric power indicators and an earthing terminal
- Automatic safety device
- Fixing rail along the length of the console for attached implements.

Option:

Aluminum as a material for face panel

**SINGLE-ROW EMERGENCY CARE CONSOLE  
«ALT -N 1» (1600MM)**



## SINGLE-ROW EMERGENCY CARE CONSOLE «ALT -N 1»(800MM)

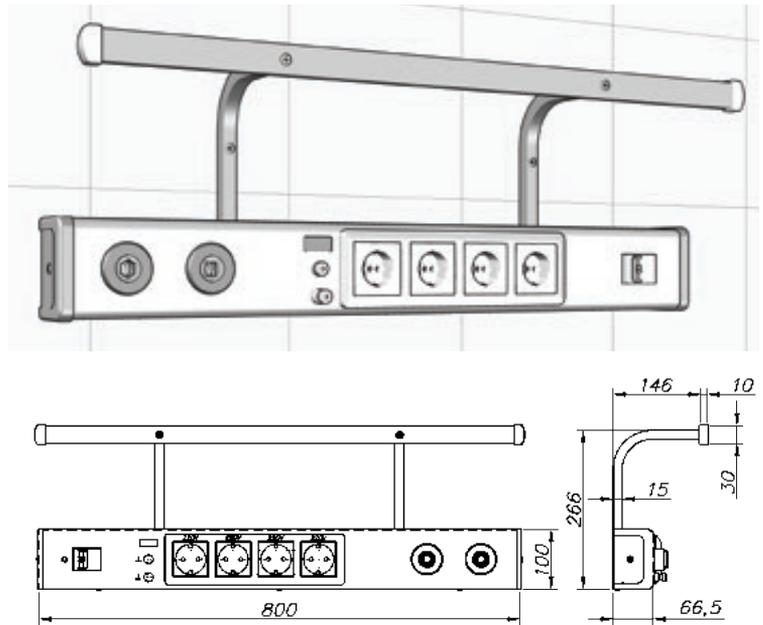
Purchasing number 1.4

### STANDARD CONFIGURATION:

- Length for one bed -800 mm
- Block of 2 gas valves and 2 plugs
- Block of 4 outlets provided with electric power indicators and an earthing terminal
- Automatic safety device
- Fixing rail along the length of the console for attached implements.

Option:

Aluminum as a material for face panel



## VERTICAL EMERGENCY CONSOLE 01 ALT-N (1200 MM)

Purchasing number 1.7

Ergonomic on-wall console system is designed for locating and connecting medical devices in the intensive care wards

A wide range of configurations and additional attached implements provides more possibilities for mounting of infusion pump and intensive care devices. The single console block can be configured according to customer's requirements.

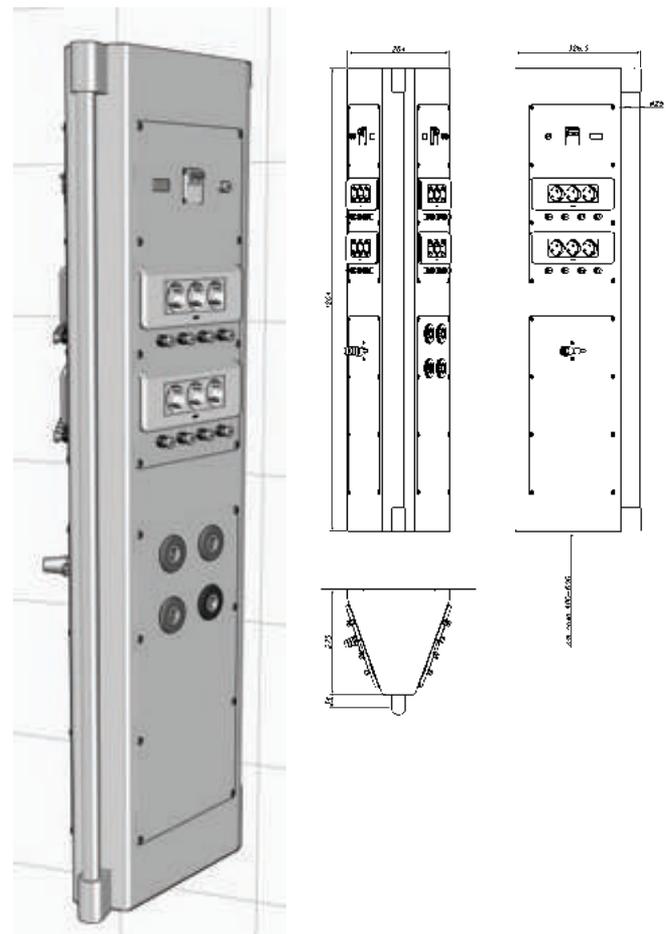
The symmetrical form of the console module makes it possible to locate medical gas valves and electrical outlets both on one side and both sides.

The maximum configuration for one side consists of 12 gas valves and 6 electric outlets and one automatic safety device.

### STANDARD CONFIGURATION:

- Height for one bed -1200 mm
- Block of 4 gas valves and 4 plugs
- 4 blocks of outlets 3 outlets each with power indicators and earthing terminal for each outlet
- Block of 2 automatic safety devices
- 1 rod of 25 mm diameter

Option: Aluminum as a material for face panel



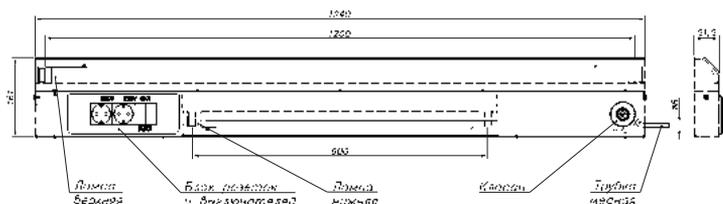
Purchasing number 1.5

**STANDARD CONFIGURATION:**

- ▶ Length for one bed - 1240mm
- ▶ Oxygen valve with plug connection
- ▶ Block of 2 outlets and a tumbler
- ▶ LED T8 - 1200mm upper florescent lamp
- ▶ LED T8 - 600mm lower fluorescent lamp

Option:  
Aluminium as a material for face panel

**LIGHT EMERGENCY CONSOLE  
ALT-N 01 (1240MM)**



**LIGHT EMERGENCY CONSOLE  
ALT-N 01 WITH DECORATIVE FACE PANEL**

Purchasing number 1.6

Light emergency console is designed for wards and departments of Children hospitals. It is used for emergency connecting of medical devices with gas pipelines and electric networks as well as for providing local illumination.

The console is provided with decorative front panel to create a pleasant environment for young patients to stay in the ward.

**STANDARD CONFIGURATION:**

- ▶ Size 900x420x68mm
- ▶ Up to 3 gas valves
- ▶ Up to 3 electrical outlets
- ▶ 1 upper light module
- ▶ 2 downer light module
- ▶ 1 emergency nurse call button

Upper light module works like a nightlight with a projector mode

Downer light module is used for direct illumination

Each module is provided with a tumbler

The surface of the decorative panel is resistant to detergents and ultraviolet rays

Console can be equipped with a rail for attached implements



# CONSOLES SUSPENDED ON CEILING

Modern and comfortable solution for surgery wards and labour wards as well as intensive care wards. Our consoles make it possible to locate all medical equipment securely and comfortably and also connect it quickly, leaving all necessary space around the workplace.

## **TYPES OF CONSOLES SUSPENDED ON CEILING:**

- ▶ Inmovable («Bridge» type)
- ▶ Swiveling: with ought shoulders («column» type) and shoulders type with or without electric lever

Using Swiveling consoles make it possible to move all equipment quickly and safely within the limits of the surgery ward.

Depending on the configuration of the functional module as well as on the number and location of the boards for equipment such consoles can be divided on two types - surgery consoles and anesthesiology consoles.

They can also be equipped with additional gas and electronic elements or attached implements.

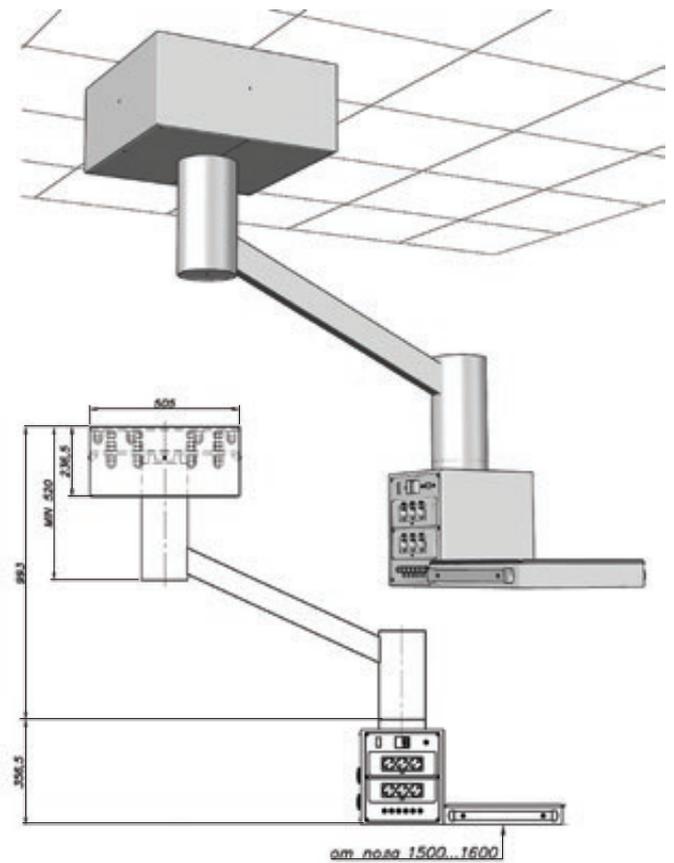
## ONE-LEVER SWIVELING EMERGENCY CONSOLE WITHOUT A GEAR (MO1 ANESTHESIOLOGY CONSOLE)

Purchasing number 2.1

### STANDARD CONFIGURATION:

- The lever length between the edges 800mm
- Block of 4 gas valves and 4 plugs
- 4 blocks of electric outlets with 3 outlets with power indicators and earthing terminal for each outlet
- Block of 2 safety devices
- Board for equipment
- 2 fixing rails 400 mm each for additional implements

*In case the ceiling is higher than 3 m or there is a false ceiling additional mounting set is used.*



## ONE-LEVER SWIVELING EMERGENCY CONSOLE WITHOUT A GEAR (MO3 ANESTHESIOLOGY CONSOLE)

Purchasing number 2.1.1

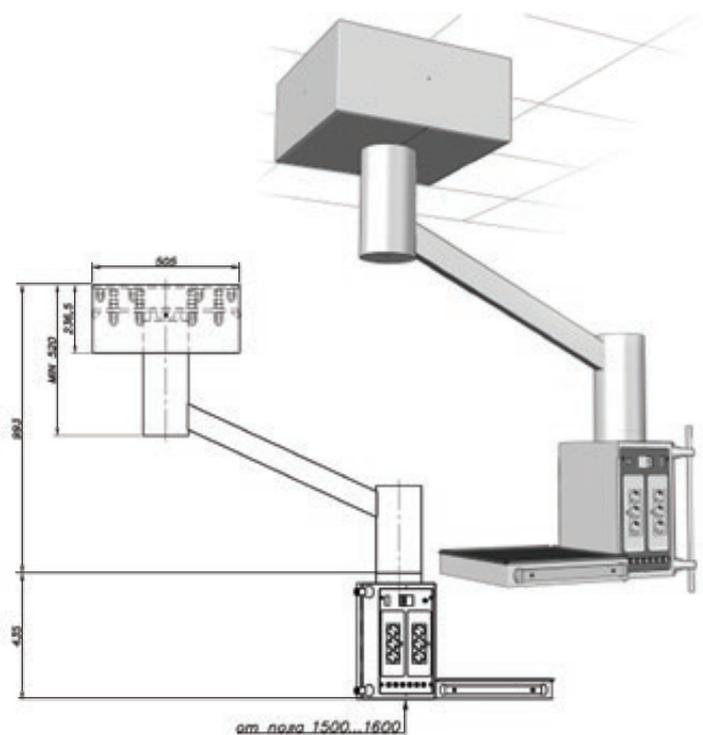
### STANDARD CONFIGURATION:

- The lever length between the edges - 800mm
- Block of 4 gas valves and 4 plugs
- 4 blocks of electric outlets with 3 outlets with power indicators and earthing terminal for each outlet
- Block of 2 safety devices
- Board for equipment
- 2 fixing rails 400 mm each for additional implements

### Option:

- Stationary shelf can be substituted with a shelf with a drawer
- Additional stationary equipment shelf
- 2 rods 25 mm each

*In case the ceiling is higher than 3 m or there is a false ceiling additional mounting set is used.*



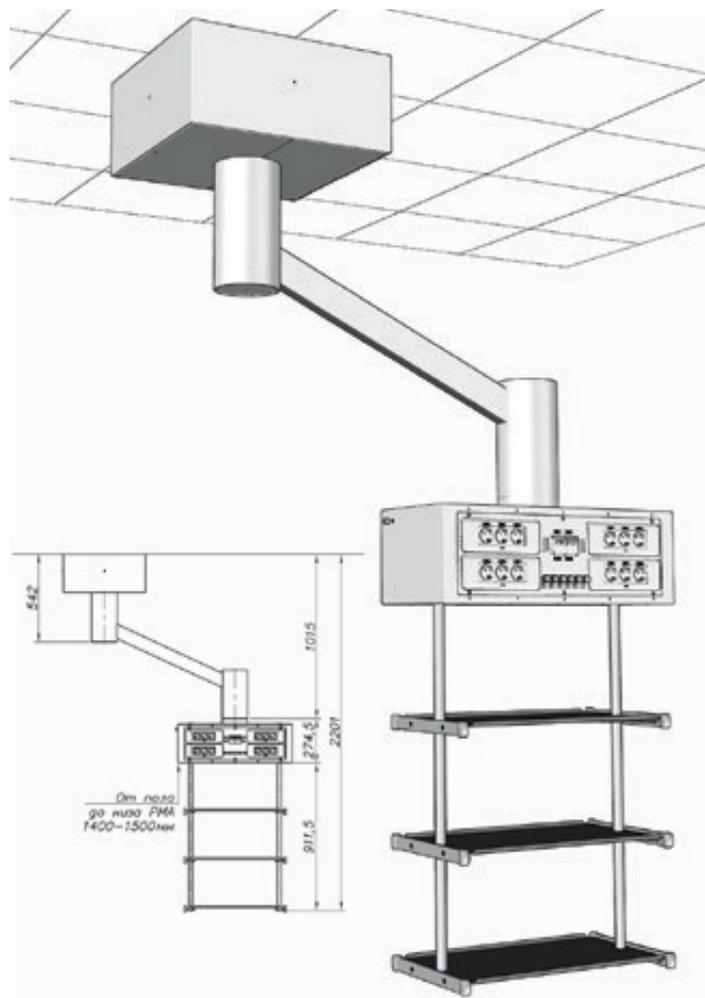
## ONE-LEVER SWIVELING EMERGENCY CONSOLE WITHOUT A GEAR (MO2 SURGICAL CONSOLE)

Purchasing number 2.2

### STANDARD CONFIGURATION:

- The lever length between the edges - 800mm
- Block of 4 gas valves and 4 plugs
- 4 blocks of electric outlets with 3 outlets with power indicators and earthing terminal for each outlet
- Block of 2 safety devices
- 3 Boards for equipment
- 6 fixing rails for additional implements 300mm each

*In case the ceiling is higher than 3 m or there is a false ceiling additional mounting set is used*



## ONE-LEVER SWIVELING EMERGENCY CONSOLE WITHOUT A GEAR (MO4 SURGICAL CONSOLE)

Purchasing number 2.2.1

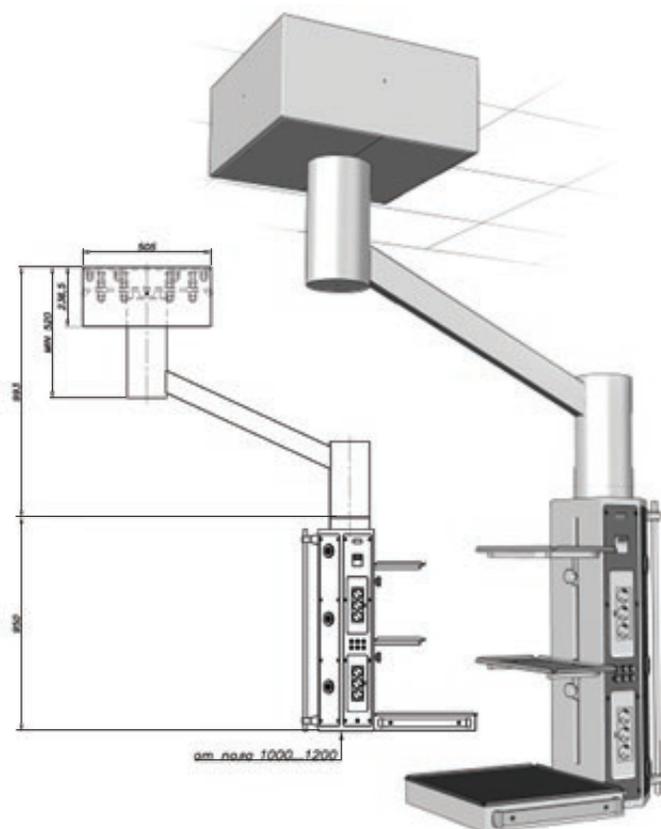
### STANDARD CONFIGURATION:

- The lever length between the edges - 800mm
- Block of 4 gas valves and 4 plugs
- 4 blocks of electric outlets with 3 outlets with power indicators and earthing terminal for each outlet
- Block of 2 safety devices
- 3 boards( 1 stationary board and 2 boards with regulated height)
- 2 fixing rails for additional implements 400 mm each

### Options:

- Stationary board can be substituted with a shelf with a drawer
- 1 rod with the diameter of 25mm

*In case the ceiling is higher than 3 m or there is a false ceiling additional mounting set is used*



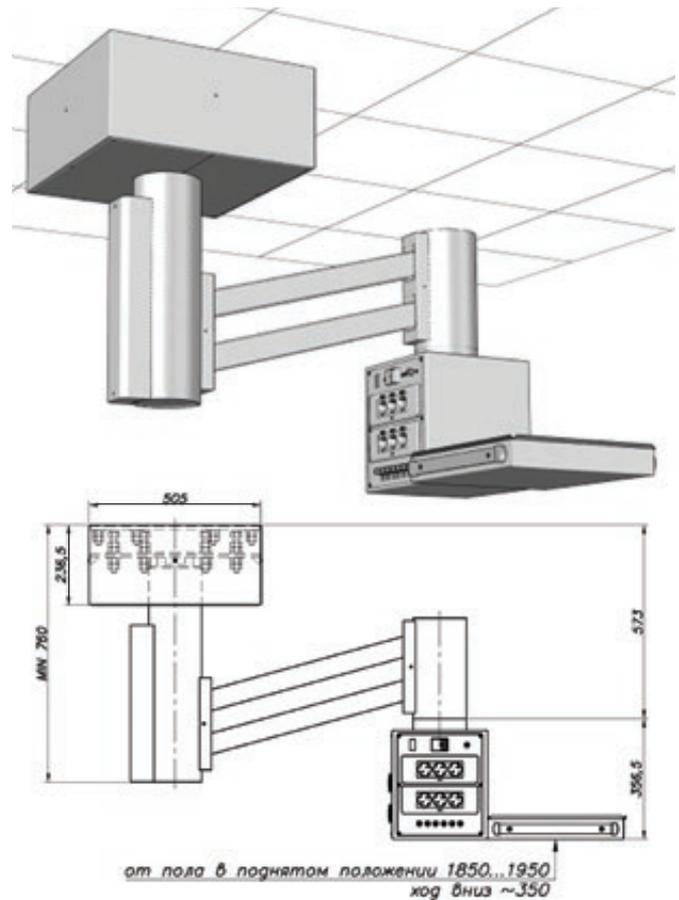
## ONE-LEVER SWIVELING EMERGENCY CONSOLE WITH A GEAR (MO1 ANESTHESIOLOGY CONSOLE)

### Purchasing number 2.3

#### STANDARD CONFIGURATION:

- The lever length between the edges - 800mm
- Block of 4 gas valves and 4 plugs
- 4 blocks of electric outlets with 3 outlets with power indicators and earthing terminal for each outlet
- Block of 2 safety devices
- Board for equipment
- 2 fixing rails for additional implements 400 mm each

*In case the ceiling is higher than 3 m or there is a false ceiling additional mounting set is used*



## ONE-LEVER SWIVELING EMERGENCY CONSOLE WITH A GEAR (MO3 ANESTHESIOLOGY CONSOLE)

### Purchasing number 2.3.1

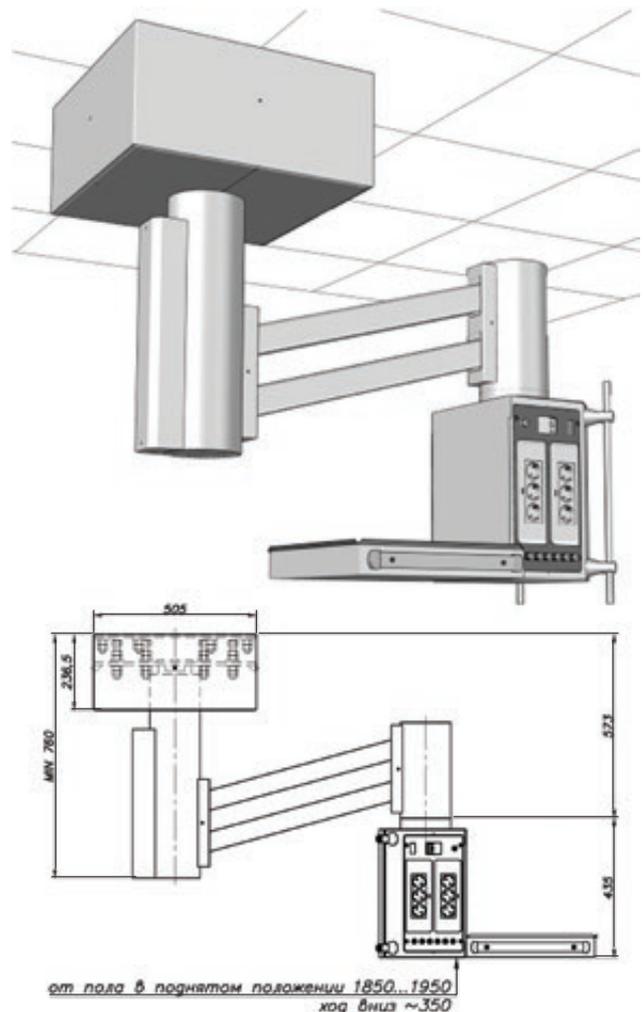
#### STANDARD CONFIGURATION:

- The lever length between the edges - 800mm
- Block of 4 gas valves and 4 plugs
- 4 blocks of electric outlets with 3 outlets with power indicators and earthing terminal for each outlet
- Block of 2 safety devices
- Stationary board for equipment
- 2 fixing rails for additional implements 400 mm each
- Gear control button

#### Options:

- Stationary board can be substituted with a shelf with a drawer
- Additional stationary board for equipment
- 2 rod with the diameter of 25mm each

*In case the ceiling is higher than 3 m or there is a false ceiling additional mounting set is used*



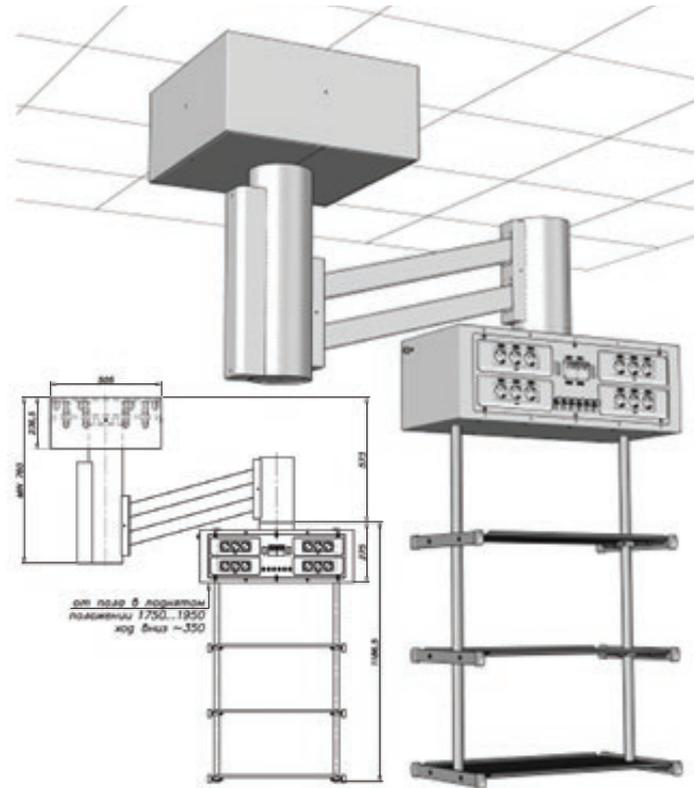
## ONE-LEVER SWIVELING EMERGENCY CONSOLE WITH A GEAR (MO2 SURGERY CONSOLE)

Purchasing number 2.4

### STANDARD CONFIGURATION:

- The lever length between the edges - 800mm
- Block of 4 gas valves and 4 plugs
- 4 blocks of electric outlets with 3 outlets with power indicators and earthing terminal for each outlet
- Block of 2 safety devices
- 3 boards for equipment
- 6 Fixing rails for additional implements 300mm each
- Gear control button

*In case the ceilings higher than 3 m an additional mounting set is required*



## ONE-LEVER SWIVELING EMERGENCY CONSOLE WITH A GEAR (MO4 SURGERY CONSOLE)

Purchasing number 2.4.1

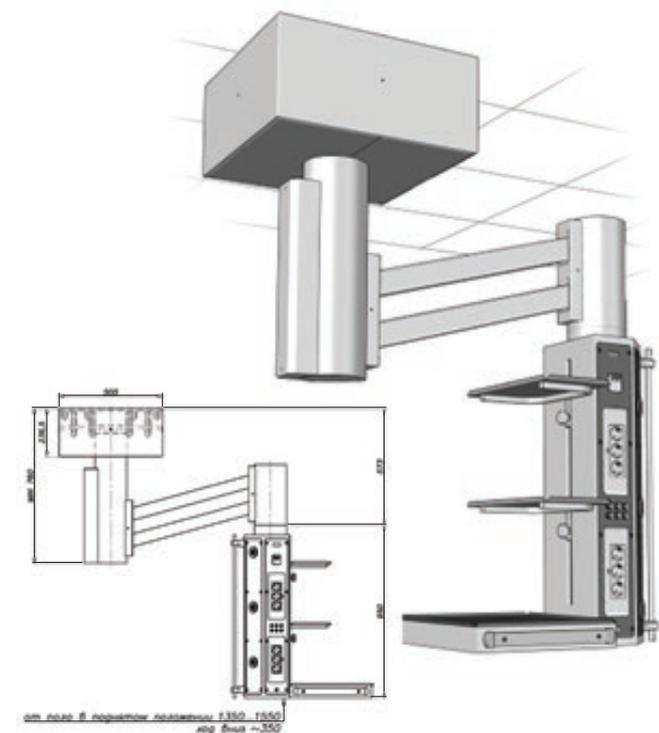
### STANDARD CONFIGURATION:

- The lever length between the edges - 800mm
- Block of 4 gas valves and 4 plugs
- 4 blocks of electric outlets with 3 outlets with power indicators and earthing terminal for each outlet
- Block of 2 safety devices
- 3 Boards for equipment (one stationary board and one with regulated height)
- 2 fixing rails for additional implements 400 mm each
- Gear control button

Options:

- Stationary board can be substituted with a shelf with a drawer
- Additional stationary shelf for equipment
- 2 rod with the diameter of 25 mm each

*In case the ceiling is higher than 3 m or there is a false ceiling additional mounting set is used*



## IMMOVABLE EMERGENCY CONSOLE SUSPENDED ON THE CEILING («COLUMN» TYPE)

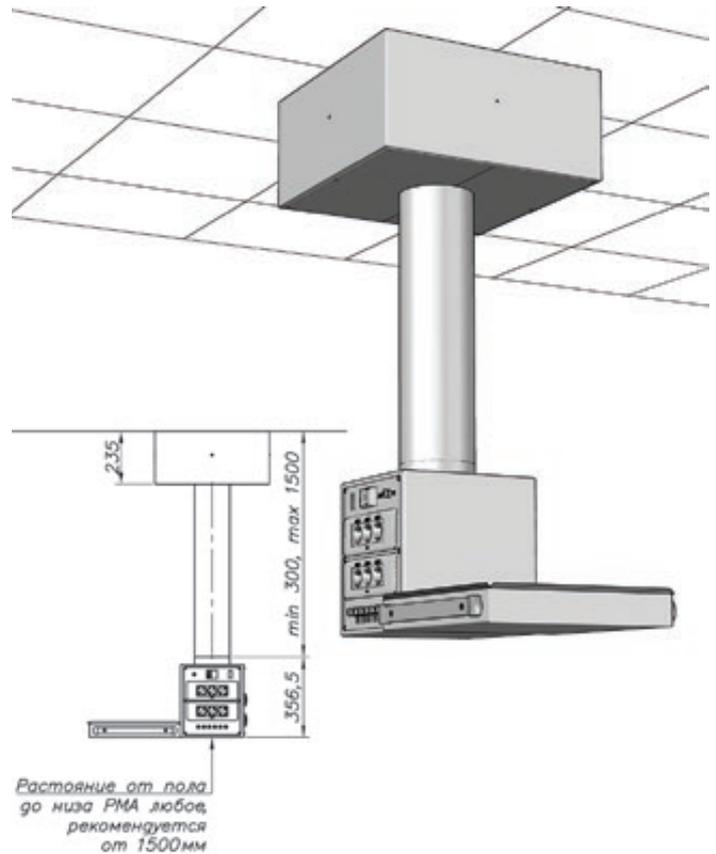
### Purchasing number 2.5

#### STANDARD CONFIGURATION:

- Block of 4 gas valves and 4 plugs
- 4 blocks of electric outlets with 3 outlets with power indicators and earthing terminal for each outlet
- Board for equipment
- 2 fixing rails for additional implements 400 mm each

«Column» type console is a more simple and economic option. The structure of the working module makes spinning around the edge possible.

In case the ceiling is higher than 3 m or there is a false ceiling additional mounting set is used



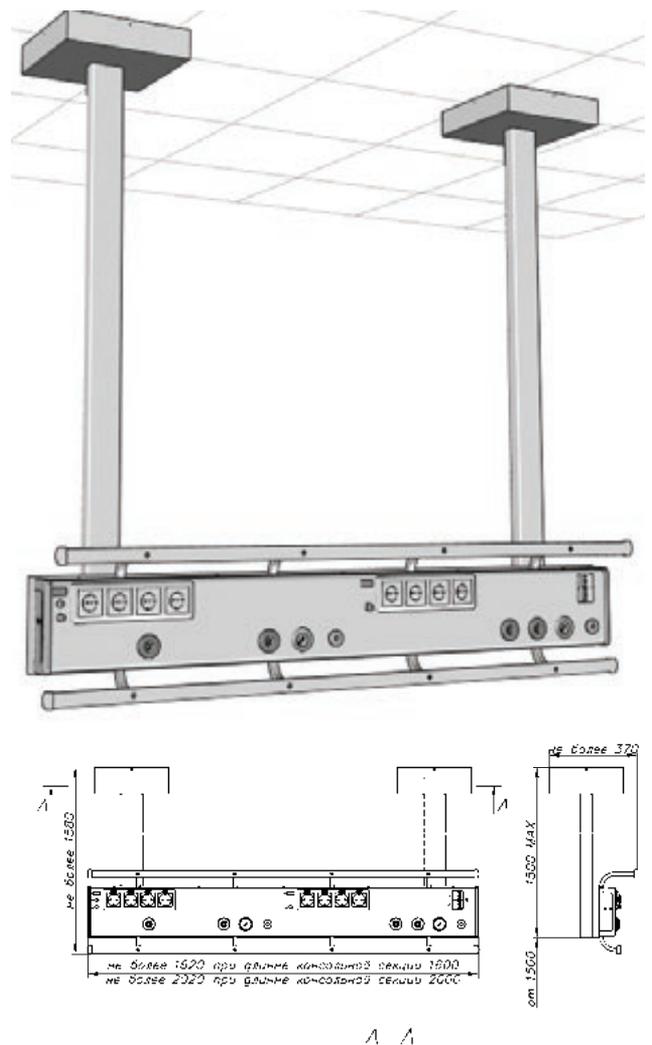
## IMMOVABLE EMERGENCY CONSOLE SUSPENDED ON CEILING («BRIDGE» TYPE, 2000MM) AN-01

### Purchasing number 2.6

#### STANDARD CONFIGURATION:

- Block of 4 gas valves and 4 plugs
- Length for one bed - 2000mm
- 2 blocks of electric outlets with 4 outlets with power indicators and earthing terminal for each outlet
- Block of two safety devices
- Fixing rail along the length of the console for attached implements

Console's length and height can vary depending on the design of a ward or customer's requirements



## TWO-LEVER CONSOLE SUSPENDED ON CEILING

A modern console system suspended on ceiling provides the possibility to create an ergonomic workplace for the anesthesiologist within the surgery ward or in the intensive care ward.

### ADVANTAGES:

- Easy and safe displacement of the working module
- Ergonomic design
- Configuration of the working module according to customer's requirements
- Use of the mechanical break preventing any accidental replacements
- Wast range of possibilities for adding any necessary implements.

The console's double lever can be displaced in a horizontal plane having a rotation angle of 320° for each lever.

A special horizontal form makes possible the optimal use of the working module's surface for placing gas valves, outlets and additional implements. Depending on the chosen configuration of the module it can be provided with up to 8 medical gas valves, 16 outlets as well rails, shelves and rods for additional equipment.

A console can also be equipped with a break system with the possibility of selective discharge of any of two rotating edges. The break system is controlled using a control panel connected with the working module.

A console module can be additionally equipped with two rods for additional implements, a shelf with drawer or an additional board for equipment.

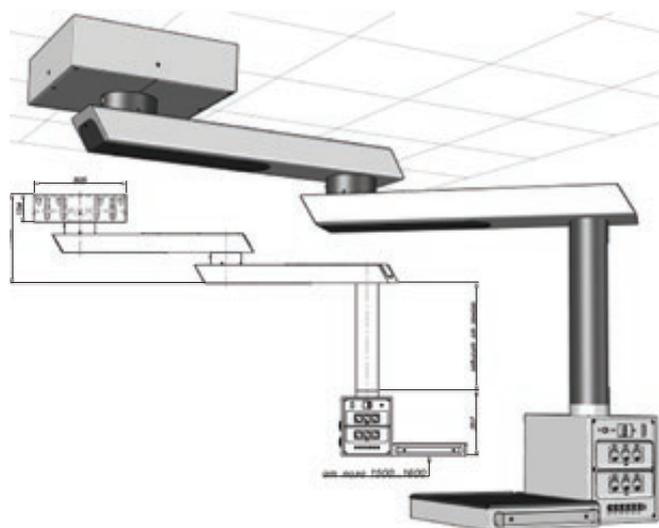


## DOUBLE-LEVER SWIVELING EMERGENCY CONSOLE WITHOUT A GEAR (MO1 ANESTHESIOLOGICAL CONSOLE)

Purchasing number 2.7

### STANDARD CONFIGURATION:

- Two rotating levers 800mm each
  - Block of 4 gas valves and 4 plugs
  - 4 blocks of electric outlets with 3 outlets with power indicators and earthing terminal for each outlet
  - Block of 2 safety devices
  - Stationary board for equipment
  - 2 fixing rails for additional implements 400 mm each
  - Electromechanical break system
- In case the ceiling is higher than 3 m or there is a false ceiling additional mounting set is used*



## DOUBLE-LEVER SWIVELING EMERGENCY CONSOLE WITHOUT A GEAR (MO3 ANESTHESIOLOGICAL CONSOLE)

Purchasing number 2.7.1

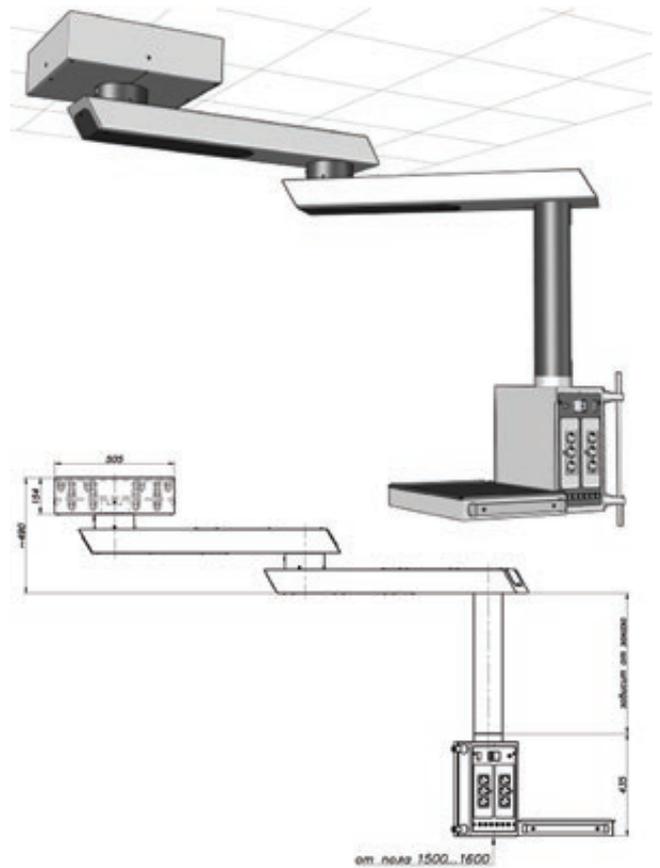
### STANDARD CONFIGURATION:

- ▶ Two rotating levers 800mm each
- ▶ Block of 4 gas valves and 4 plugs
- ▶ 4 blocks of electric outlets with 3 outlets with power indicators and earthing terminal for each outlet
- ▶ Block of 2 safety devices
- ▶ Stationary board for equipment
- ▶ 2 fixing rails for additional implements 400 mm each
- ▶ Electromechanical break system

### Options:

- ▶ Stationary board can be substituted with a shelf with a drawer
- ▶ Additional stationary board for equipment
- ▶ 2 rods with the diameter of 25 mm each

*In case the ceiling is higher than 3 m or there is a false ceiling additional mounting set is used*



## DOUBLE-LEVER SWIVELING EMERGENCY CONSOLE WITHOUT A GEAR (MO2 SURGICAL L CONSOLE)

Purchasing number 2.8

### STANDARD CONFIGURATION:

- ▶ Two rotating levers 800mm each
- ▶ Block of 4 gas valves and 4 plugs
- ▶ 4 blocks of electric outlets with 3 outlets with power indicators and earthing terminal for each outlet
- ▶ Block of 2 safety devices
- ▶ 3 Boards for equipment with regulated height
- ▶ 6 fixing rails for additional implements 300 mm each
- ▶ Electromechanical break system

*In case the ceiling is higher than 3 m or there is a false ceiling additional mounting set is used*



## DOUBLE-LEVER SWIVELING EMERGENCY CONSOLE WITHOUT A GEAR (MO4 SURGICAL L CONSOLE)

Purchasing number 2.8.1

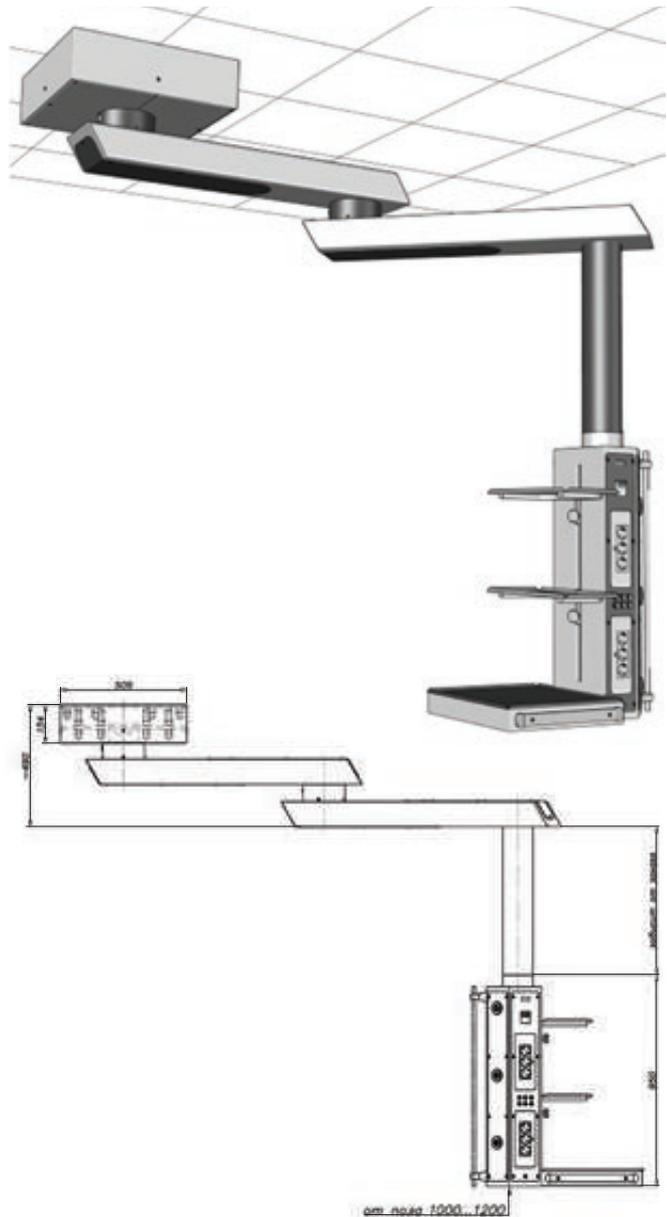
### STANDARD CONFIGURATION:

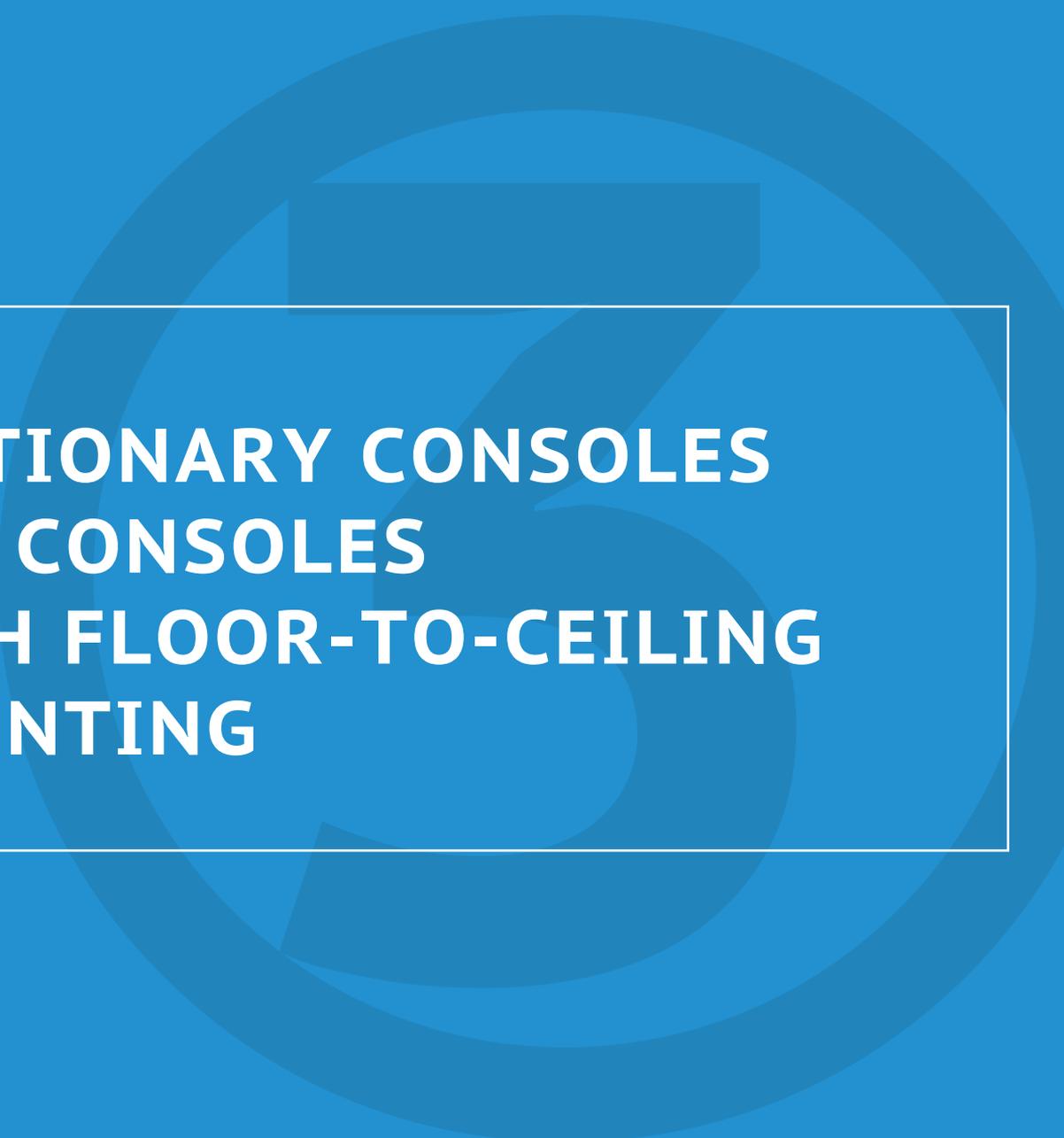
- Two rotating levers 800mm each
- Block of 4 gas valves and 4 plugs
- 4 blocks of electric outlets with 3 outlets with power indicators and earthing terminal for each outlet
- Block of 2 safety devices
- 3 boards for equipment (one stationary board and one with regulated height)
- Electromechanical break system

### Options:

- Stationary shelf can be substituted with a shelf with a drawer
- Rod for additional implements with the diameter of 25 mm

*In case the ceiling is higher than 3 m or there is a false ceiling additional mounting set is used*





**STATIONARY CONSOLES  
AND CONSOLES  
WITH FLOOR-TO-CEILING  
MOUNTING**

## INTENSIVE CARE CONSOLE ON SUPPORTS (1600MM) 01AN

Purchasing number 3.1

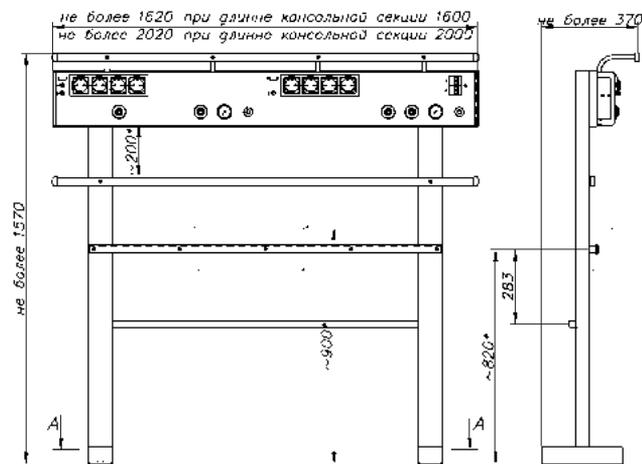
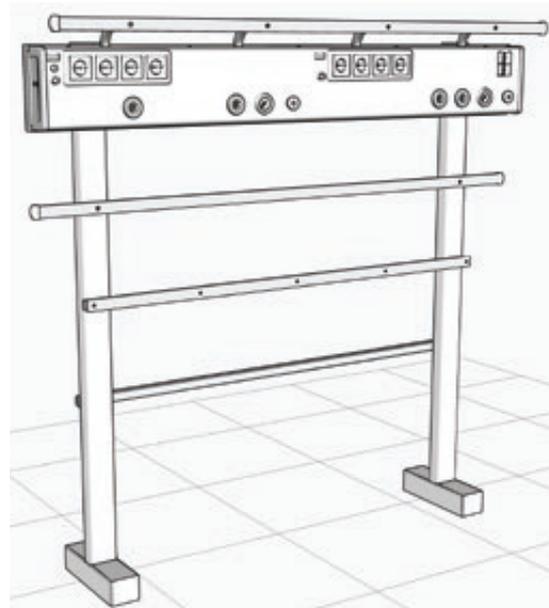
### STANDARD CONFIGURATION:

- The length for one bed- 1600mm
- Block of 4 gas valves and 4 plugs
- 2 blocks of electric outlets with 4 outlets with power indicators and earthing terminal for each outlet
- Block of 2 safety devices
- A fixing rail for additional implements along the length of the console

*This type of mounting makes it possible to locate the patient's bed at any distance from the walls or beside the window.*

*All necessary medical gases and electric networks are located inside the supports protecting them from any external influence.*

*Depending on customer's requirements consoles can have any length and can equipped with any additional equipment.*



## INTENSIVE CARE CONSOLE (800 MM) WITH FLOOR-TO-CEILING MOUNTING (STATIONARY) 01 AN

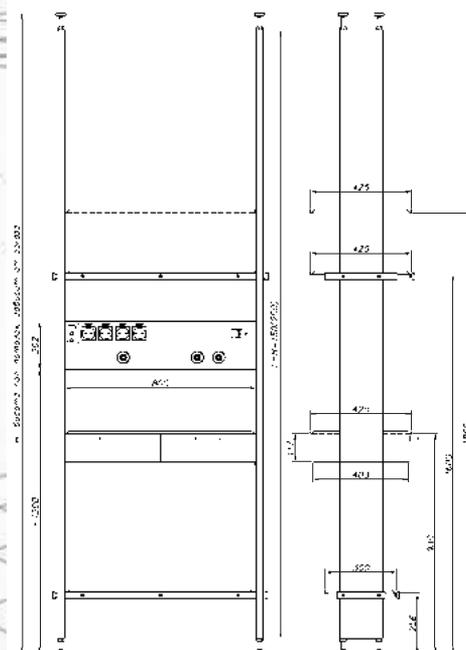
Purchasing number 3.2

### STANDARD CONFIGURATION:

- Block of 4 gas valves and 4 plugs
- Block of electric outlets with 4 outlets with power indicators and earthing terminal for each outlet
- 2 boards for equipment
- Shelf with two drawers and a table top made of stainless steel.
- Downer board
- Rotating swiveling arm for dropping
- A fixing rail for additional implements (300 mm)

*Stationary consoles with floor-to ceiling outing are used in wards with nonstandard design where on-wall mounting or on-ceiling mounting are impossible. Such supports can be fixed both to the ceiling and to the floor but at the same time they imply no additional load to endure for the ceiling grid. All gas and electrical networks are run throughout the supports.*

*The distance between floor and ceiling must not be more than 3 m*



3 STATIONARY CONSOLES AND CONSOLES WITH FLOOR-TO-CEILING MOUNTING



**ADDITIONAL IMPLEMENTS  
FOR CONSOLES**

# FOR GAS SECTION



## Purchasing number 4.1

**Gas valve** (Oxygen, vacuum, compressed air, compressed air for pneumatic tools, nitrous oxide, carbon dioxide, argon)

- Special closure mechanism keeps plug secured in the valve thus preventing accidental unplugging
- For safety reasons valves of different types have different configuration of locks and are labeled by different colors thus preventing any mistakes of medical staff.



## Purchasing number 4.2

**Gas plug** (oxygen, vacuum, compressed air, compressed air for pneumatic tools, nitrous oxide carbon dioxide, argon)



## Purchasing number 4.3

**Gas plug with smooth regulation of gas supply level** (oxygen, vacuum, compressed air, compressed air for pneumatic tools, nitrous oxide carbon dioxide, argon)



## Purchasing number 4.4

**Valve for emergency cut-off** (oxygen, vacuum, compressed air, compressed air for pneumatic tools, nitrous oxide carbon dioxide, argon)



## Purchasing number 4.5

**Ejection device**

2 Configurations:

- imbedded into console
- independent device mounted on the wall



## Purchasing number 4.6

**Pressure indicator for gas main line (manometer, vacuum meter)** (oxygen, vacuum, compressed air, compressed air for pneumatic tools, nitrous oxide carbon dioxide, argon)

# EQUIPMENT FOR SECTIONING ELECTRICAL CIRCUITS



Purchasing number 4.7

Block of 4 electrical outlets with power indicators and earthing terminal for each outlet



Purchasing number 4.8

Block of 3 electrical outlets with power indicators and earthing terminal for each outlet



Purchasing number 4.9

Block of 2 electrical outlets with power indicators and earthing terminal for each outlet

## LOW -POWER ELECTRICAL CONNECTORS



Purchasing number 4.10

Telephone connector



Purchasing number 4.11

Radio connector



Purchasing number 4.12

Monitor connector (Rj-45 type)



Purchasing number 4.13

Nurse call

## BLOCK OF AUTOMATICALLY SAFETY DEVICES



Purchasing number 4.14

Block for single safety device  
16 AMP 220 V



Purchasing number 4.15

Block for two safety devices  
16 AMP 220 V



Purchasing number 4.16

Stop-watch and timer

## ADDITIONAL IMPLEMENTS

are used to create an optimal working place in intensive care wards and provide additional possibility for using intensive care consoles



Purchasing number 4.17

### Mounted Board with drawer

Size:  
425x 400x85mm



Purchasing number 4.18

### Mounted board for equipment

Size:  
425x400mm



Purchasing number 4.19

### Mounted table with two drawers, board from stainless steel and an additional fixing rail 800mm.

(located under the console)  
Size 425x400x407mm



Purchasing number 4.20

### Specular shelf for infusion pumps with 3 sections

Size 380x373x617mm  
Board size 380x200mm

Purchasing number 4.22

### Specular shelf for infusion pumps with 5 sections

Size 380x373x1050mm  
Board size 380x200mm

Purchasing number 4.21

### Colored shelf for infusion pumps with 5 sections

Size 380x373x1050mm  
Board size 380x200mm

Purchasing number 4.23

### Colored shelf for infusion pumps with 5 sections

Size 380x373x1050mm  
Board size 380x200 mm



Purchasing number 4.24

### Board for console suspended on ceiling

Size 600x324x25mm



Purchasing number 4.25

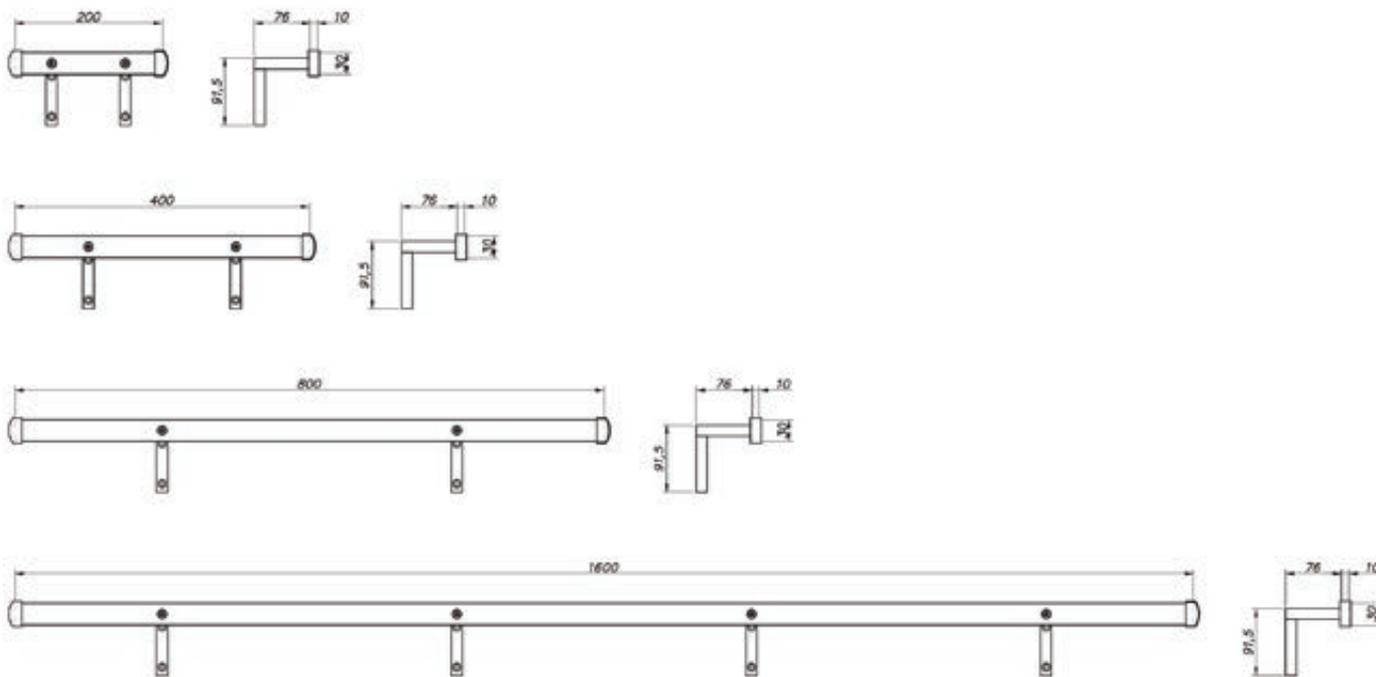
### Variable-geometry reading lamp



Purchasing number 4.26

### Mounted dropping with regulated height and a clamp

# ADDITIONAL FIXING RAILS FOR ADDITIONAL IMPLEMENTS



Purchasing number 4.27

**Fixing rail**  
length 200mm  
cross-section 30x10mm

Purchasing number 4.28

**Fixing rail**  
length 400mm  
cross-section 30x10mm

Purchasing number 4.29

**Fixing rail**  
length 800mm  
cross-section 30x10mm

Purchasing number 4.30

**Fixing rail**  
length 1600mm  
cross-section 30x10mm

Purchasing number 4.31 **Mounting set for vertical consoles**

Purchasing number 4.32 **Rod for infusion pumps**

# VALVE SYSTEMS

Valve systems are connected with hospital's stationary gas main lines, in particular to main lines with following gases: oxygen, nitrous oxide, compressed air, carbon dioxide, vacuum, compressed air for pneumatic tools.

Gas valves are used for swift connection of ventilators as well as equipment for aspiration and sanitations.

Minimize the flowing out of medical gases.

Special closure mechanism keeps plug secured in the valve thus preventing accidental unplugging.

For safety reasons valves of different types have different configuration of locks and are labeled by different colors thus preventing any mistakes of medical staff.



Purchasing number 5.1

**Single valve system**

Oxygen, vacuum, compressed air, compressed air for pneumatic tools, nitrous oxide, carbon dioxide, argon with plug CKM-01



Purchasing number 5.2

**Single valve system**

Oxygen, vacuum, compressed air, compressed air for pneumatic tools, nitrous oxide, carbon dioxide, argon with hose CKM-01



Purchasing number 5.3

**Double valve system**

Oxygen, vacuum, compressed air, compressed air for pneumatic tools, nitrous oxide, carbon dioxide, argon with plugs CKM-01



Purchasing number 5.4

**Triple valve system**

Oxygen, vacuum, compressed air, compressed air for pneumatic tools, nitrous oxide, carbon dioxide, argon with plugs CKM-01



Purchasing number 5.5

**Single valve system**

Oxygen, vacuum, compressed air, compressed air for pneumatic tools, nitrous oxide, carbon dioxide, argon with plug and manometer CKM-01



Purchasing number 5.6

**Double valve system**

Oxygen, vacuum, compressed air, compressed air for pneumatic tools, nitrous oxide, carbon dioxide, argon with plug and manometer CKM-01

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# **EQUIPMENT FOR OXYGEN THERAPY**

# OXYGEN HUMIDIFIERS

Used for open respiratory organs (oxygen tents, nasal cannulas, mask etc.)

The main integral part of all humidifiers is a container with distilled water with oxygen passed through it (oxygen-air mixture) so that the oxygen would moisten in process of it. Thus, the relative moisture of oxygen (oxygen-air mixture) when living the container is no less than 85%.

The lid of the humidifier is connected with the container by screwed system and is equipped with protecting valve that guards it against the excessive pressure.

The working capacity of the container is 0,5 l

Outlet port is connectible with any endotracheal tube

The integral parts of the humidifier are made of extra-resistive materials (the container is made of polycarbonate and the lid is made of ABC-polycarbonate)



Purchasing number 6.3

**Oxygen humidifier  
UK-Alt\_N(for hose)**

Can be equipped with a plug for connection with valve systems or a screw nut for a needle nozzle.



Purchasing number 6.4

**Oxygen humidifier  
UK-Alt\_N (with plug)**



Purchasing number 6.5

**Oxygen humidifier  
UK-Alt\_N (with oxygen and air mixer with two flowmeters)**

Purchasing number 6.8

**Humidifying container  
with no basket or clump**

Working capacity 0,5m  
Material for container - Polycarbonate  
Material for lid-ABC -Polycarbonate  
The lid of the humidifier is connected with the container by screwed system and is equipped with protecting valve that guards it against the excessive pressure.  
Outlet port is connectible with any endotracheal tube



Purchasing number 6.9

**Air-and-oxygen mixer  
(with two flowmeters)**

Allows to get oxygen-air mixture with the concentration of oxygen from 21 to 100%





Purchasing number 6.1

**Flowmeter for medical gases RGM-20 with plug (oxygen)**

Provides smooth regulation of gas supply within the range of 1-20 L/min  
The scale reads to 1 L/min



Purchasing number 6.2

**Flowmeter for medical gases RGM-20 for hose with plug (oxygen)**

Provides smooth regulation of gas supply within the range of 1-20 L/min  
The scale reads to 1 L/min

## HEATED HUMIDIFIERS



Purchasing number 6.6

**Heated Oxygen humidifier**



Purchasing number 6.7

**Heated Oxygen humidifier with oxygen-air mixer (For two flowmeters)**

Are used for supplying heated moister oxygen (oxygen-air mixture) for open respiratory organs. It is especially convenient for neonates and patients suffering from respiratory diseases.

Purchasing number 6.10

**Oxygen tent for neonates**

Is used in maternity hospitals and children hospitals for oxygen therapy, air therapy. A neonate s ventilation does not require high oxygen concentration (up to 60 %). Such level can be achieved by using an oxygen tent.



Purchasing number 6.11

**Safe manual ventilation device (AIRA system) with oxygen flowmeter for a hose and a plug**

Is used for safe ventilation in in-patient hospitals or ambulance cars.

**CONFIGURATION:**

- Suppling hose with a plug
- Oxygen flowmeter
- Safety valve for excessive pressure release
- Monometer for ventilation control



Purchasing number 6.12

**Humidifier for breathing mixtures AN 077**

Is used for heating and humidifying of breathing mixtures supplied for those patients that need artificial lung ventilation or independent CPAP breathing

**CONFIGURATION:**

- Control block (with heating control)
- Humidifying container
- Set of temperature sensors equipped with a cable
- Non-expendable silicone breathing circuit
- Heating connector
- Mounting set



Purchasing number 6.13

**Reinforced hose**

Length up to 3 m  
Internal diameter 6,3 mm  
External diameter 11mm



Purchasing number 6.14

**transitory screw-nut for a hose**

Is used to fix the hose on the valve  
Screw thread 1/4  
for 17 spanner





**EQUIPMENT  
FOR ASPIRATION**

# VACUUM REGULATORS

Are used for aspiration in surgery wards and intensive care wards as an integral part for sucking device if centralized vacuum supply is provided. Regulator is connected with vacuum main and used to regulate pressure and discharge vacuum, generated in the vacuum collector.

DEPENDING ON THE CONNECTION TYPE  
THE FOLLOWING CLASSES OF REGULATORS ARE BEING PRODUCED:



Purchasing number 7.1

**Vacuum regulator with a plug connected directly to the valve system**



Purchasing number 7.2

**Vacuum regulator with a clamp (for a hose)**



Purchasing number 7.3

**Ejector for vacuum-suction**

Is used to create as discharge in the ejector in case the ward has no vacuum main. Oxygen mains or compressed air mains can be used for ejectors functioning. The ejector is used as a part of emergency consoles in intensive care wards, physiotherapeutic wards or surgery wards. In contagious isolation ward the ejector must be equipped with antibacterial ejector.



Purchasing number 7.4

**Container-collector with a lid (0,5L)**

Equipped with a safety valve that prevents absorbed masses from penetrating into the main.  
Material for the lid-ABC



Purchasing number 7.7

**Container-collector with a lid (2,5L)**

Equipped with a safety valve that prevents absorbed masses from penetrating into the main.  
Material for the lid-ABC



Purchasing number 7.6

**Set of silicone vacuum hoses**  
Internal diameter x side thickness  
6x1,5mm for 0,5L containers  
8x2mm for 2,5L containers  
Above-mentioned parameters can be modified according to customer's requirements



Purchasing number 7.5

**Basket for clamp (for a 0,5L container)**



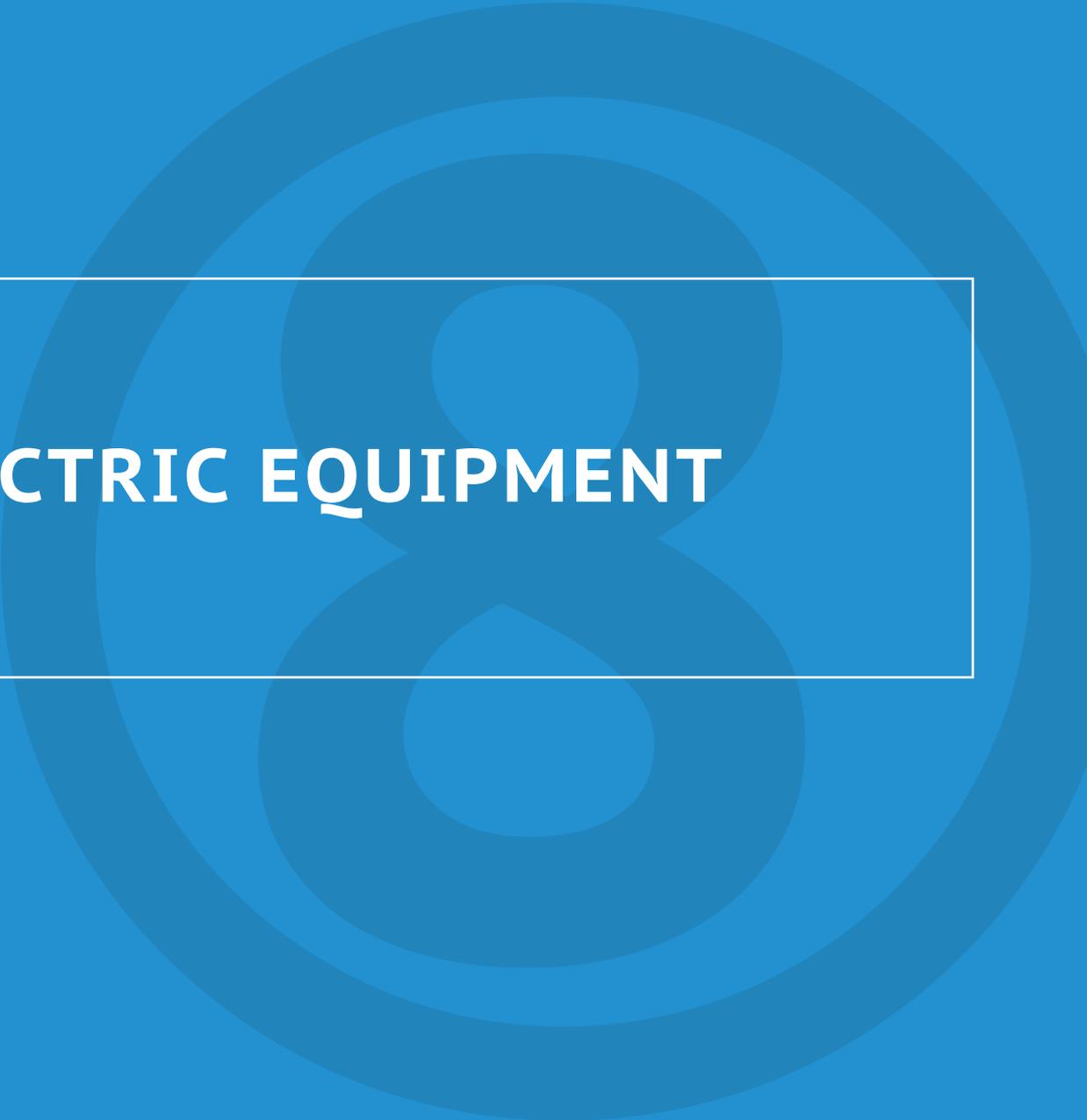
Purchasing number 7.9

**Basket for clamp (for a 2,5L container)**



Purchasing number 7.8

**Support for Container-collectors**



# **ELECTRIC EQUIPMENT**

# POWER PANELS

Are used for connecting multifunctional equipment, devices and industrial machines to the electrical network. Three phase outlet (30W) which may be supplied with the set makes it possible to connect the equipment that requires three-phase power supply with the electric power up to 5 Kw



Purchasing number 8.1

**Laid on power panel with a 220V outlet (x6)**

equipped with automatic safety devices (x2) and power indicators (x2)



Purchasing number 8.2

**Laid on power panel with a 220V outlet (x6) and 380V outlet**

equipped with automatic safety devices (x2) and power indicators



Purchasing number 8.3

**Laid on power panel with a 220V outlet (x6) and 380V outlet and a lid**

equipped with automatic safety devices (x2) and power indicators



Purchasing number 8.4

**Cut-in power panel with a 220V outlet (x6)**

equipped with automatic safety devices (x2) and power indicators (x2)



Purchasing number 8.5

**Laid on power panel with a 220V outlet (x6) and 380V outlet**

equipped with automatic safety devices (x2) and power indicators (x2)



Purchasing number 8.6

**Laid on power panel with a 220V outlet (x6) and 380V outlet and a lid**

equipped with automatic safety devices (x2) and power indicators (x2)

Purchasing number 8.7

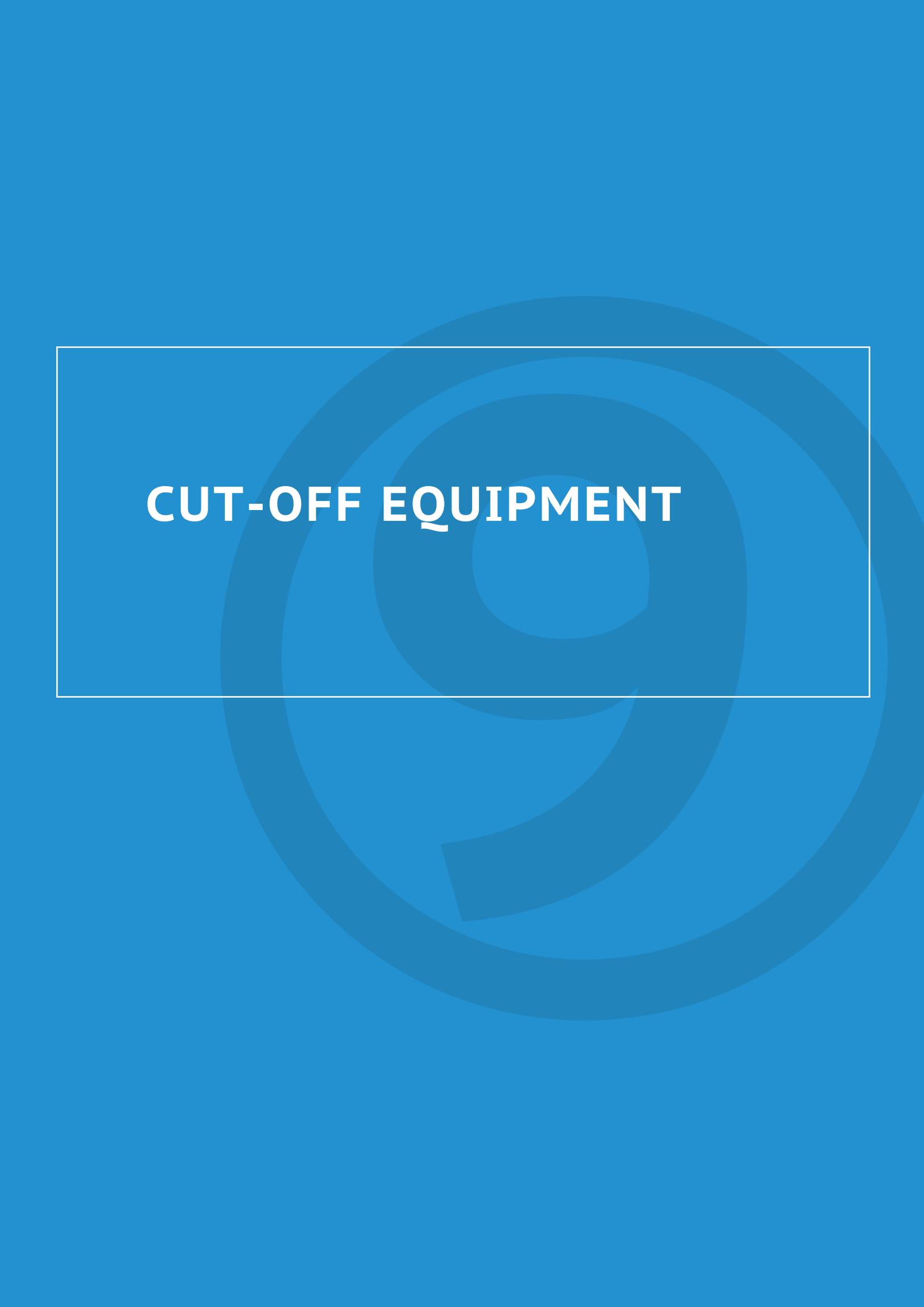
## Nurse call button for hospital wards

System provides i the possibility of immediate access of a nurse to each bed, Light and sound signals are used. Prior elaboration of mounting project as well as prior programming is required.

### Configuration:

- ▶ Nurse call panel with light and sound indicators
- ▶ Upper signal block
- ▶ Bed-side block mounted on the wall with external panel.



The image features a solid blue background with a large, faint, light-blue graphic of concentric circles and a white rectangular frame. The text "CUT-OFF EQUIPMENT" is centered within the white frame in a bold, white, sans-serif font. The word "EQUIPMENT" is split across two lines, with "EQUIPM" on the first line and "ENT" on the second line.

# CUT-OFF EQUIPMENT

# CUT OFF BOXES

Cut-off boxes are used for emergency shut-down of medical gas systems as well as for pressure control in gas mains. Can be mounted on main lines of one, two or three gases. When repair works are in process or in case of local accident emergency shutdown can be prevented by covering the valves of the nearest cut-off box. In addition to the cut-off box a low-pressure emergency signaling device (one for each gas) with light and sound indication can be mounted.

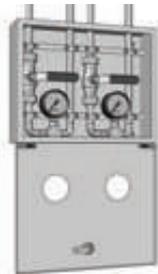


Purchasing number 9.1

## Cut-off box for one gas

Configuration:

- Case with lock
- cut-off valve
- Manometer and/or vacuum meter

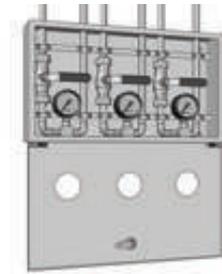


Purchasing number 9.2

## Cut-off box for 2 gases

Configuration:

- Case with lock
- cut-off valve (x2)
- Manometer and/or vacuum meter (x2)



Purchasing number 9.3

## Cut-off box for 3 gases

Configuration:

- Case with lock
- cut-off valve (x3)
- Manometer and/or vacuum meter (x3)



Purchasing number 9.5

## Cut-off box with electronic sensor and signaling device for 1 gas

Configuration:

- Case with lock
- Cut-off valve
- Manometer and vacuum meter
- Adjustable signaling indicator with light and sound indication and sound shutdown button (x1)

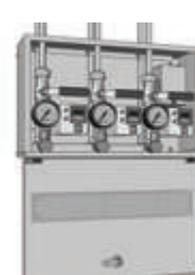


Purchasing number 9.6

## Cut-off box with electronic sensor and signaling device for 2 gases

Configuration:

- Case with lock
- Cut-off valve (x2)
- Manometer and/or vacuum meter (x2)
- Adjustable signaling indicator with light and sound indication and sound shutdown button (x2)



Purchasing number 9.7

## Cut-off box with electronic sensor and signaling device for 3 gases

Configuration:

- Case with lock
- Cut-off valve (x3)
- Manometer and/or vacuum meter (x3)
- Adjustable signaling indicator with light and sound indication and sound shutdown button (x3)

Purchasing number 9.4

## low-pressure emergency signaling device with light and sound indication (one for each gas)



# **MEDICAL GAS SOURCES**



# CYLINDER MANIFOLDS

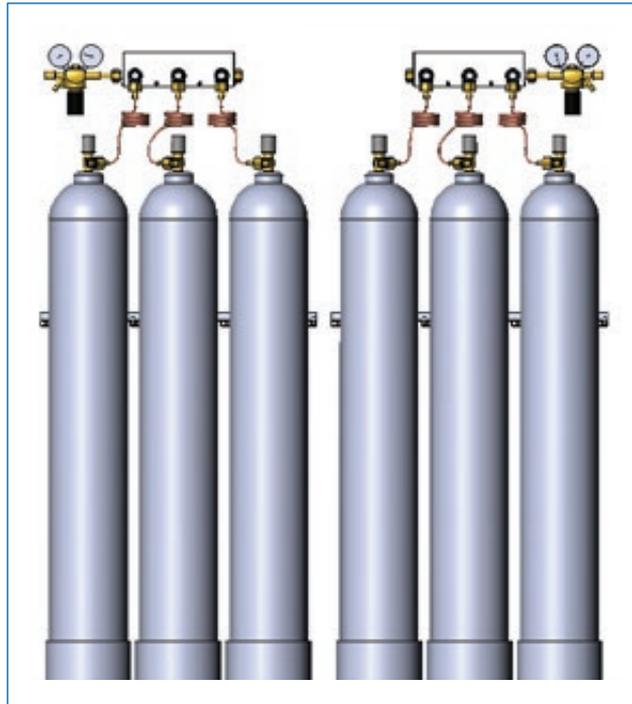
Cylinder manifolds are used to connect medical cylinders and supply medical gas with pre-established working pressure through the hospital's mainlines.

## Purchasing number 10.1.1

**Cylinder manifold (Oxygen, nitrous oxide, carbon dioxide) 2x3 cylinders**

Configuration:

- Collector (x2)
- Coiled pipes for connecting cylinders (x6)
- Fixation device (x2)
- Reducers (x2)

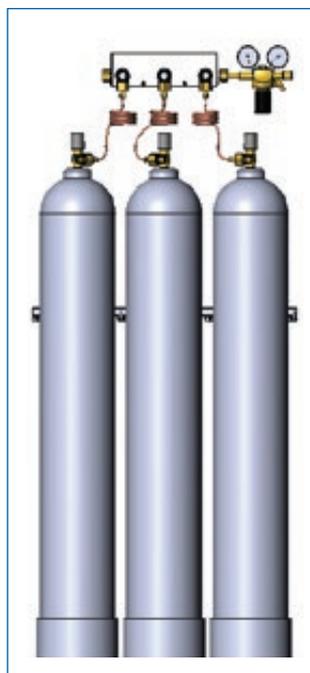


## Purchasing number 10.2.1

**Cylinder manifold (Oxygen, nitrous oxide, carbon dioxide) 1x3 cylinders**

Configuration:

- Collector (x1)
- Coiled pipes for connecting cylinders (x3)
- Fixation device (x1)
- Reducer (x1)



# AUTOMATIC CYLINDER MANIFOLDS

## CONFIGURATION (2X3 CYLINDERS):

- Collector (x2)
- Coiled pipes for connecting cylinders (x6)
- Reducer (x2)
- Fixation device (x2)
- Automatic Cylinder manifold with automatic group switching button (BAP-1)
- Power unit (x1)
- Signalizing monometer (x2)

Automatic Cylinder manifold with automatic group switching button (henceforth referred to as BAP-1) provides a continuous gas supply into the main line and also gives to an operator extra time for changing the exhausted cylinder group.

An automatic manifold has at least 2 independent gas-supply sources. In case working manifold is exhausted BAP-1 will switch to the the reserve cylinders. The block is provided with emergency light and sound signals, informing the operator about the status of all cylinder group and the pressure level in the main. BAP-1 is equipped with a pre-programmed micro controller with an installed software for manifold servicing that monitors the proper functioning of pressure control manometers and runs two electromagnetic valves according to pre-programmed algorithm.

### Purchasing number 10.1.2

**Cylinder manifold (oxygen, nitrous oxide, carbon dioxide)  
2x3 cylinders (automatic)**

### Purchasing number 10.1.3

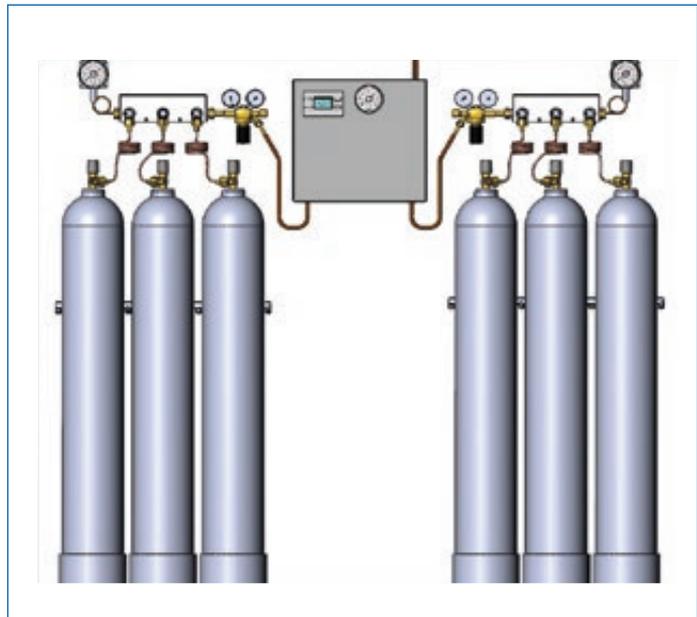
**Cylinder manifold (oxygen, nitrous oxide, carbon dioxide)  
2x2 cylinders (automatic)**

### Purchasing number 10.1.4

**Cylinder manifold (oxygen, nitrous oxide, carbon dioxide)  
2x6 cylinders (automatic)**

### Purchasing number 10.1.5

**Cylinder manifold (oxygen, nitrous oxide, carbon dioxide)  
2x10 cylinders (automatic)**



# VACUUM STATIONS

Vacuum stations are equipped with a silence rotary oil pumps made in Italy. Vacuum station control unit BC-AN provides automatic switching of operating modes of pumps (main/auxiliary) either sequentially or in preset intervals. Manual control is also provided. The use of two independent control channels increases machine's safety and security levels and allows pump's service without ceasing the functioning of the vacuum station.



*Note:  
Due to low-noisiness  
vacuum station can be installed  
inside the ward.*

**Purchasing number 10.3**

**Vacuum station SV-100-24**  
Productive capacity 100 l/min  
Receiver for 24 l

**Purchasing number 10.4**

**Vacuum station SV-200**  
Productive capacity 200 l/min  
Receiver for 50 l



*Note:  
Vacuum stations with higher  
productive capacity can be  
requested.*

**Purchasing number 10.5** **Vacuum station VS-AN 2/300-500**

**Purchasing number 10.6** **Vacuum station VS-AN 2/416-500**

**Purchasing number 10.7** **Vacuum station VS-AN 2/666-500**

**Purchasing number 10.8** **Vacuum station VS-AN 2/1000-500**

**Purchasing number 10.9** **Vacuum station VS-AN 2/1750-2/500**

# COMPRESSIVE STATIONS (MADE-TO-MEASURE)