

# CATALOGUE

2021  
2022

NORMAL CARE  
OT/ICU RESUSCITATION  
BIOMEDICAL EQUIPMENT









### **TLV worldwide**

Through its strong presence on 5 continents, TRATO-TLV group has become the European leader in lighting and hospital equipment. The company built its success on the response tailored to the needs of its customers and its adaptation to international norms and standards. The group currently generates 30% of its revenue internationally in over 55 countries.

For more information on TRATO TLV group: [www.trato-tlv.com](http://www.trato-tlv.com)

## Who are we?

TLV is a French designer and manufacturer of lighting units and equipment for hospitals.

The company sales all over the world products for:

- Normal care rooms
- OT/ICU Resuscitation

With 250 employees (TRATO-TLV group) and a modern production facility, TLV is a leading international supplier to private and public healthcare institutions.

## Design and Innovation

TLV has been building lighting and hospital equipment solutions providing quality, comfort, safety, and good value to healthcare professionals all over the world for more than 70 years.

Today, TLV offers the most complete range on the market, using the most advanced technologies. Many of its models are equipped with LEDs, contributing to sustainable development through their long working life and high light output.

TLV's R&D department lies at the heart of its operations. It uses the finest and most efficient materials to build ergonomic, high-performance hospital equipment and lighting units.

TLV has a dedicated styling unit within its design office, enabling it to develop devices with added aesthetic and ergonomic value.

## Quality

TLV is involved in a continual improvement process via its quality management system. This is based mainly on the following standards:

- ISO 9001: Quality management systems – requirements
- ISO 13485: Quality management system requirements for medical devices.
- Directive 93/42/EEC about medical devices
- Regulation 2017/745/UE about medical devices



## ■ BED HEAD UNITS (P.10 - P.61)

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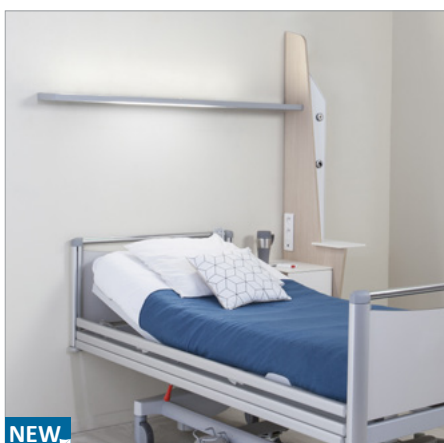
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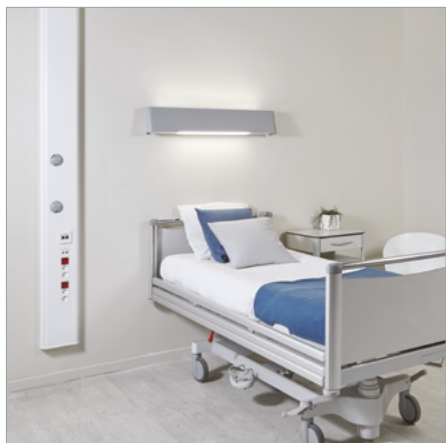


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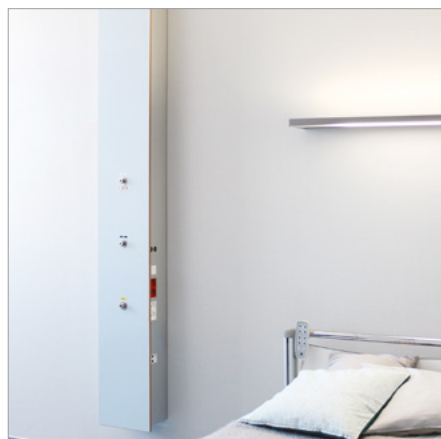
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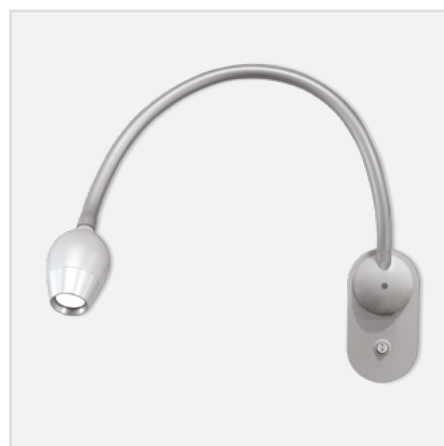


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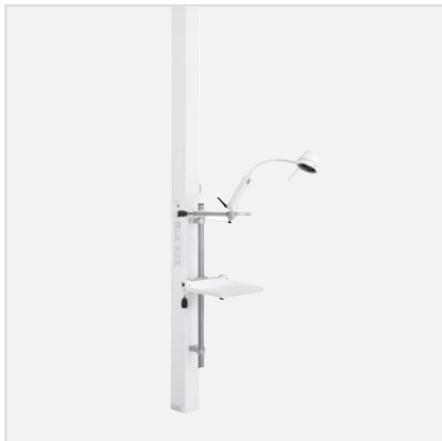
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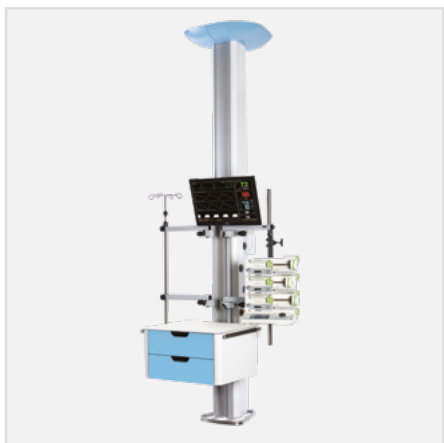


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NEW

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NEW

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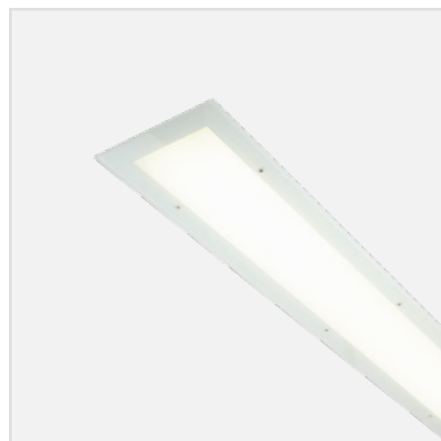
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BIOMEDICAL EQUIPMENT

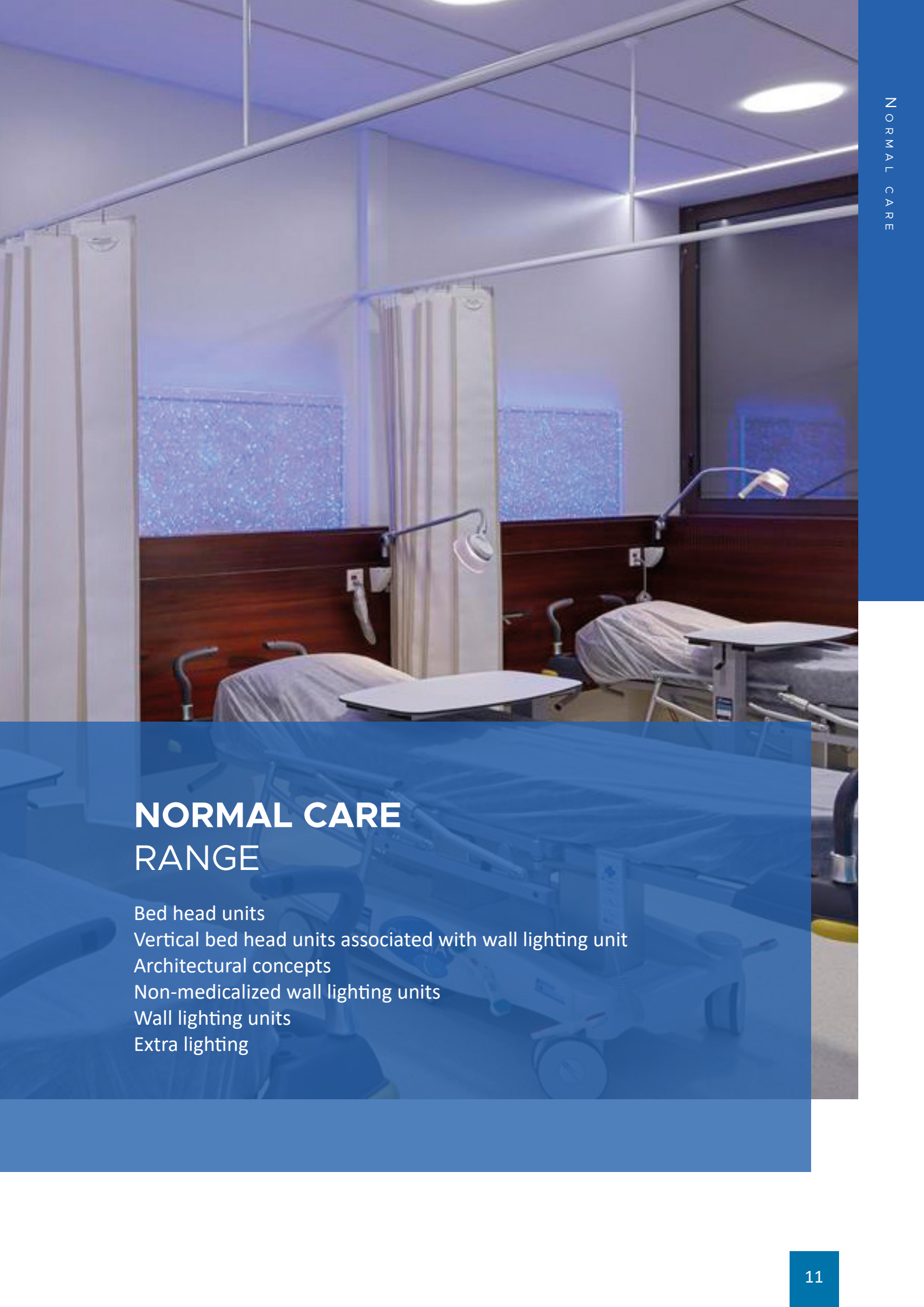
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## NORMAL CARE RANGE

Bed head units  
Vertical bed head units associated with wall lighting unit  
Architectural concepts  
Non-medicalized wall lighting units  
Wall lighting units  
Extra lighting







## BED HEAD UNITS

|           |      |
|-----------|------|
| FLUIDYS   | p.14 |
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**Continuous lighting** The FLUIDYS offers the possibility of a continuous direct light, adding an aesthetic appreciation.

**Design and ergonomics** The bed head unit can integrate an optional 300 mm long (minimum length) medical accessory mounting rail. This rail can be positioned at the top or bottom of the bed head unit.

**Medical gas casing** These easy-clean medical gas casings provide protection. They are securely fastened to the cover, for easy installation and maintenance.



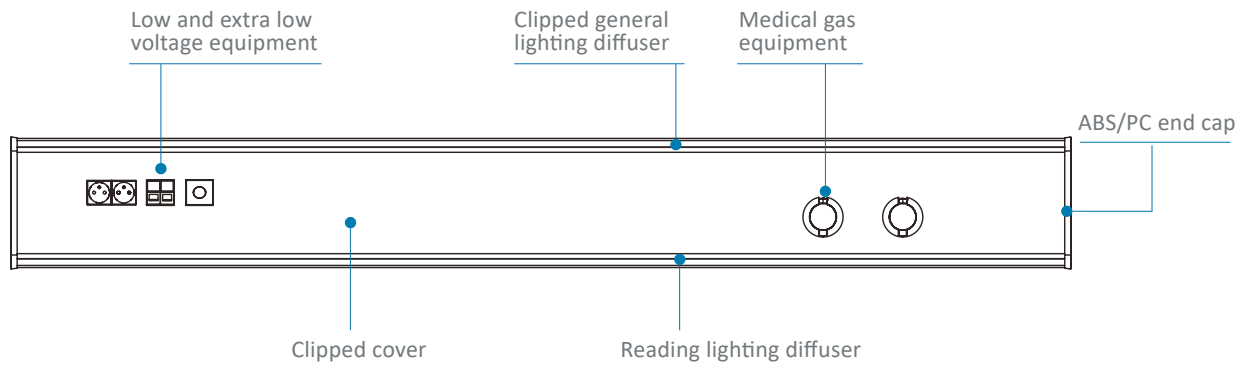




# FLUIDYS

## TECHNICAL FEATURES

### Front view

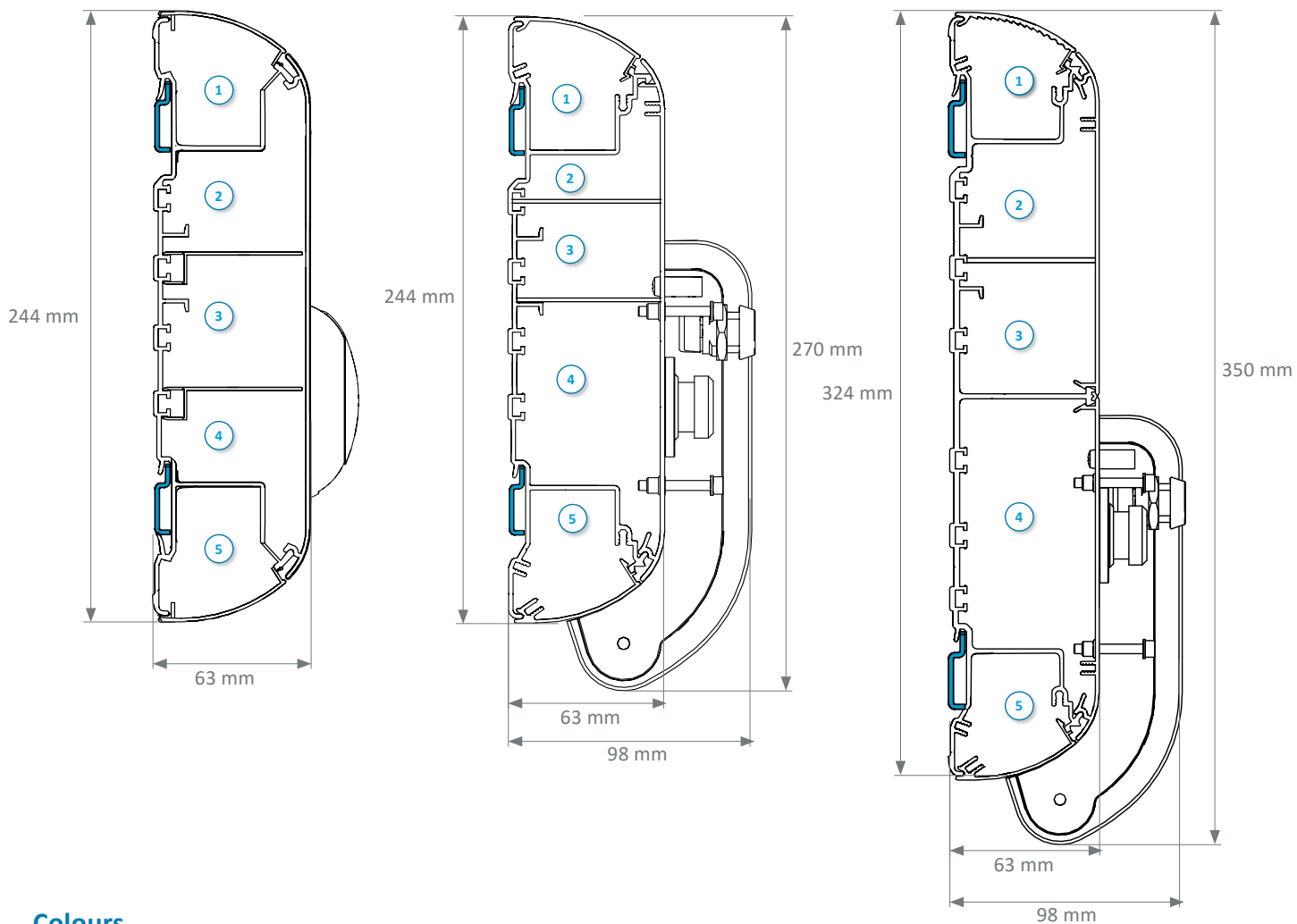


### Cross-section

#### Fluidys

#### Mono Secured Fluidys

#### Duo Secured Fluidys



### Colours

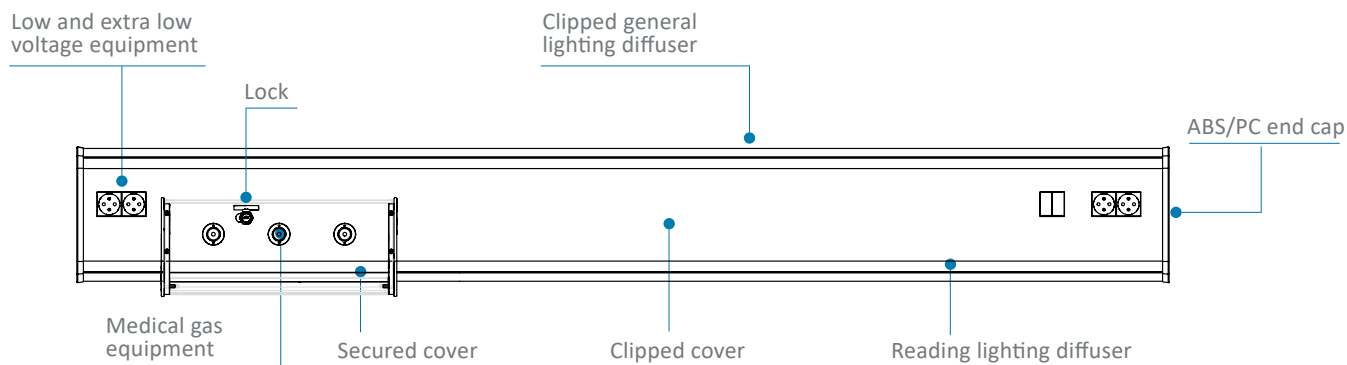
|                    | White<br>RAL 9016 | Grey<br>RAL 7040 | Grey<br>RAL 9006 |
|--------------------|-------------------|------------------|------------------|
| Aluminum profile   | ●                 |                  | ●                |
| Medical gas casing | ●                 | ●                |                  |
| End caps           | ●                 | ●                |                  |

- ① General and night light compartment
- ② Extra low voltage compartment
- ③ Low voltage compartment
- ④ Medical gas compartment
- ⑤ Reading lighting compartment

## SECURED FLUIDYS

The Fluidys bed head unit has a specific cover secured by key for medical gas. Made of PMMA (Polymethyl methacrylate), the transparent cover is resistant and can be adapted to environments which require a maximum security. It has a high impact resistance rating IK 07.

### Front view

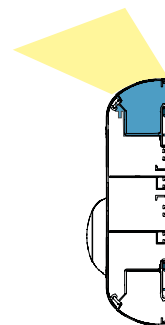


## TECHNICAL FEATURES

Its optical design allows perfect control of the lighting, favouring the well-being of care teams and patients.

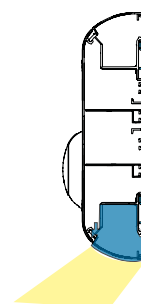
### General lighting

- Extruded polycarbonate diffuser
- MIRO 20 SILVER® aluminum reflector



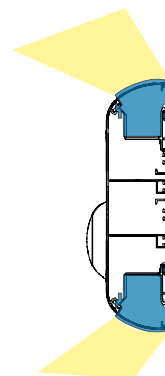
### Reading lighting

- Extruded polycarbonate diffuser
- MIRO 20 SILVER® aluminum reflector



### Caring lighting

Caring lighting is a combination of direct (reading) lighting with indirect (general) lighting.

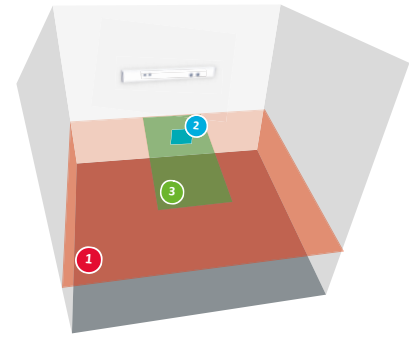


### Lighting power

| Lighting                            | Modules power | Types of sources | Color temperature | Luminous Flux | Consumption | System Efficiency | Driver(s)    |
|-------------------------------------|---------------|------------------|-------------------|---------------|-------------|-------------------|--------------|
| General lighting                    | 35,9 W (4 Ft) | LED              | 3000 K<br>4000 K  | 5965 lm       | 42,2 W      | 141,4 lm/W        | Fixed / DALI |
|                                     | 44,3 W (5 Ft) | LED              | 3000 K<br>4000 K  | 7390 lm       | 51,1 W      | 143,6 lm/W        | Fixed / DALI |
| General lighting (Dynamic lighting) | 47,2 W (4 Ft) | LED              | 2700 K to 6500 K  | 6200 lm       | 54 W        | 114,8 lm/W        | DALI         |
| Reading lighting                    | 12,5 W (2Ft)  | LED              | 3000 K<br>4000 K  | 2173 lm       | 15,9 W      | 136,6 lm/W        | Fixed / DALI |
| Night light                         | 1 x 3,1 W     | LED              | 3000 K            | 335 lm        | 4,9 W       | 68,1 lm/W         | Fixed        |

## Lighting study

- Standard room
- Dimensions of the room: 3 m x 3 m, ceiling clearance 2.5 m
- Reflection coefficients: ceiling 7, walls 5, and floor 3
- Coefficient of depreciation 0.83



| LED              | <b>General lighting</b><br>Virtual general lighting plane of a surface equal to the one of the room, located 0.85 m above the floor (3 m x 3 m for a single room). | <b>Reading lighting</b><br>Virtual reading plane 0.3 m x 0.3 m inclined at 75° located 1.1 m from the floor and 1 m from the wall where the unit is located. | <b>Caring lighting</b><br>Virtual examination plane 2 m x 0.9 m located 0.85 m from the floor, centred in width and 0.1 m from the wall. |
|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
|                  | <b>4 Ft module</b><br>                                                                                                                                             | <b>2 Ft module</b><br>                                                                                                                                       | <b>General and reading lighting combined</b><br>                                                                                         |
| Consumption      | 42,2 W                                                                                                                                                             | 15,9 W                                                                                                                                                       | 58,1 W                                                                                                                                   |
| Average lighting | 143 lx                                                                                                                                                             | 322 lx                                                                                                                                                       | 535 lx                                                                                                                                   |

## Dynamic Lighting



The FLUIDYS bed head unit is available with dynamic lighting.  
For more information please see page 304.









**Continuous lighting** The AXIS bed head unit offers the possibility of a continuous direct light, adding an aesthetic appreciation.

**Design and ergonomics** The bed head unit can integrate an optional vertical stainless steel tube support and a shelf which would be positioned at the bottom of the bed head unit.

**Personnalisation** The cover of the AXIS bed head unit is fully customizable in the color of your choice: plain wood or decorative film. It fits easily with the decoration of the room.



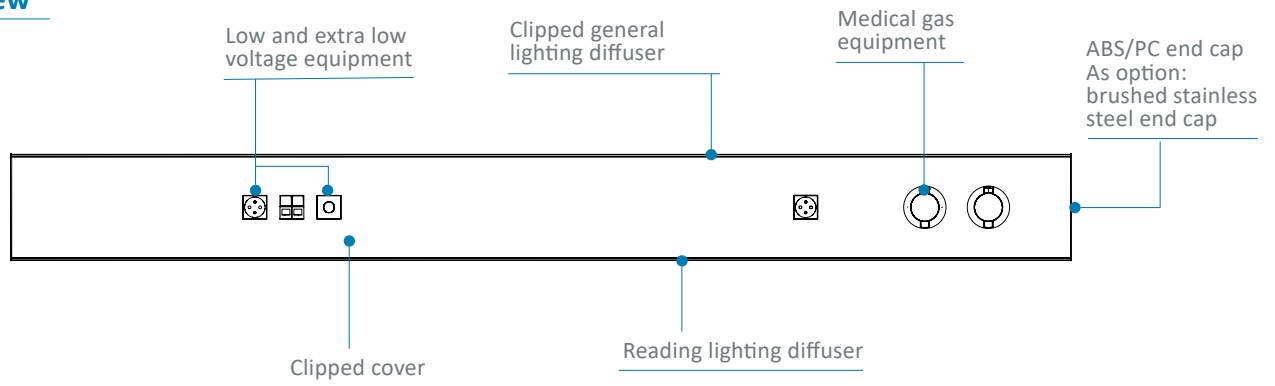




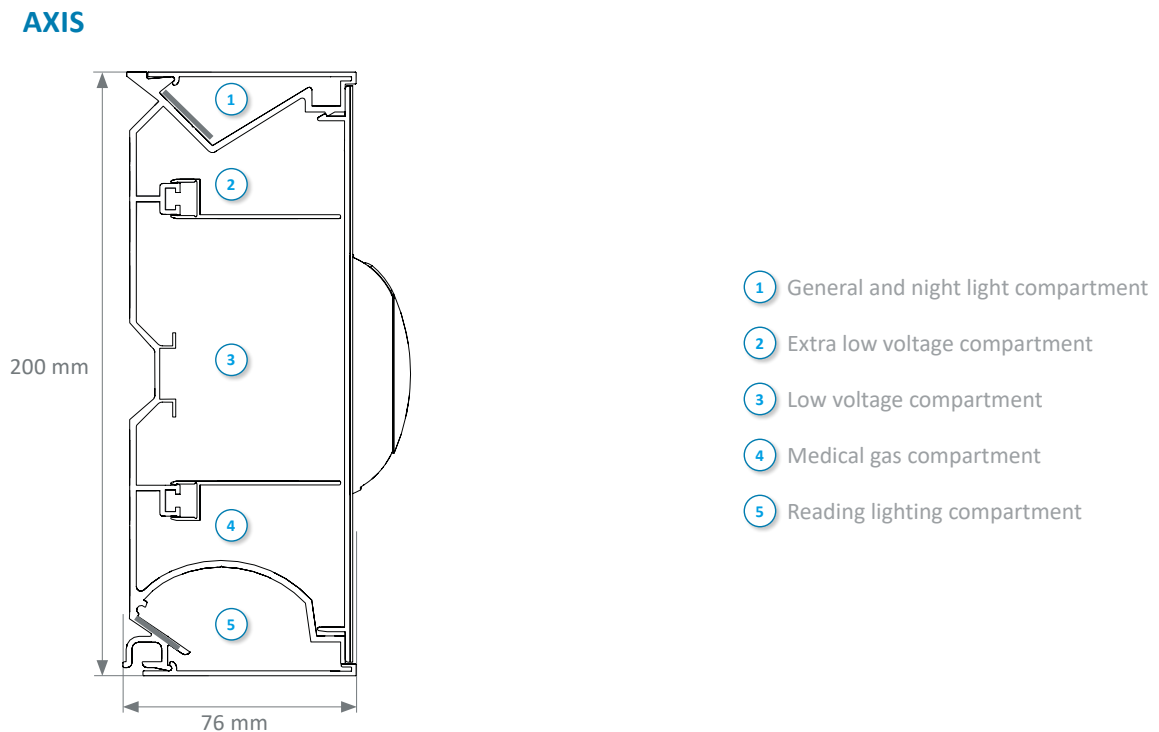
# AXIS

## TECHNICAL FEATURES

### Front view



### Cross-section



### Colours

|                                | White<br>RAL 9016 | Grey<br>RAL 7040 | Grey<br>RAL 9006 | Plain colours or<br>wood finishes | Brushed stainless<br>steel |
|--------------------------------|-------------------|------------------|------------------|-----------------------------------|----------------------------|
| Aluminum profile               | ●                 |                  | ●                |                                   |                            |
| Medical gas casing             | ●                 | ●                |                  |                                   |                            |
| End caps                       | ●                 | ●                |                  |                                   | ●                          |
| Laminate stick on the<br>cover | SEE PAGE 302      |                  |                  |                                   |                            |



## OPTIONAL ACCESSORIES

---

TLV has developed a range of optional equipment for the AXIS bed head unit to meet the needs of healthcare staff.



### **Brushed stainless steel end cap**

The ABS/PC end caps can be replaced by brushed stainless steel end caps to provide cohesion with all the biomedical accessories.



### **Stainless steel vertical tube support for accessories**

Stainless steel tube Ø30 mm: max load 25 kg.  
Dimensions: (HxW) 1180 mm x 150 mm.



### **Stainless steel tablet support for accessories**

Brushed stainless steel tablet support for accessories  
: maximum load 5 kg.  
Dimensions (HxWxD) 331 mm x 207 mm x 200 mm.

FEW OTHER CONFIGURATIONS:  
COMBINATION OF ONE OR MORE WOOD PANELS AND / OR ACRYLIC PANELS  
WITH AN AXIS BED HEAD UNIT



Acrylic panel with inclusion  
of broken glass (or other  
decorations)

AXIS bed head unit



AXIS bed head unit

Acrylic panel with inclusion  
of broken glass (or other  
decorations)

Matching wood panel with the  
tint of the laminate cover of the  
bed head unit



Acrylic panel with inclusion  
of broken glass (or other  
decorations)

FLEX-E LED reading spotlight

AXIS bed head unit

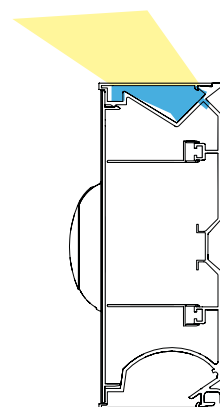
Matching wood panel with the  
tint of the laminate cover of the  
bed head unit

## CONTROLLED LIGHTING

The AXIS optics have been studied to enable a perfect control of lighting. The aim is to contribute to improve the well being of the healthcare teams and the patient.

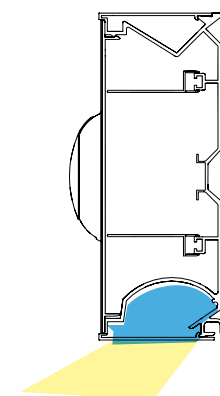
### General lighting

- Diffuser made of satin co-extruded polycarbonate



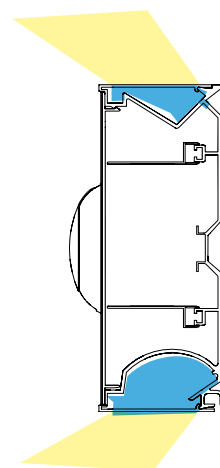
### Reading lighting

- Diffuser made of satin co-extruded polycarbonate



### Caring lighting

Caring lighting combines direct (reading) lighting with indirect (general) lighting.

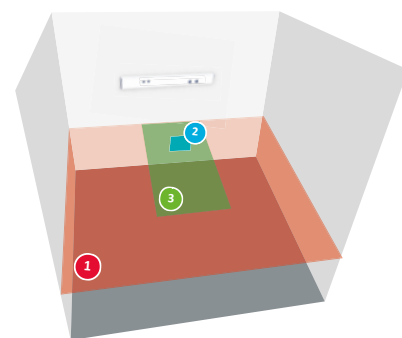


### Lighting power

| Lighting                            | Modules power | Types of sources | Color temperature   | Luminous Flux | Consumption | System Efficiency | Driver(s)    |
|-------------------------------------|---------------|------------------|---------------------|---------------|-------------|-------------------|--------------|
| General lighting                    | 35,9 W (4 Ft) | LED              | 3000 K<br>4000 K    | 5965 lm       | 42,2 W      | 141,4 lm/W        | Fixed / DALI |
|                                     | 44,3 W (5 Ft) | LED              | 3000 K<br>4000 K    | 7390 lm       | 51,5 W      | 143,6 lm/W        | Fixed / DALI |
| General lighting (Dynamic lighting) | 47,2 W (4 Ft) | LED              | 2700 K to<br>6500 K | 6200 lm       | 54 W        | 114,8 lm/W        | DALI         |
| Reading lighting                    | 17,7 W (2Ft)  | LED              | 3000 K<br>4000 K    | 2945 lm       | 21,5 W      | 136,9 lm/W        | Fixed / DALI |
| Night light                         | 1 x 3,1 W     | LED              | 3000 K              | 335 lm        | 4,9 W       | 68,1 lm/W         | Fixed        |

## Lighting study

- Standard room
- Dimensions of the room: 3 m x 3 m, ceiling clearance 2.5 m
- Reflection coefficients: ceiling 7, walls 5, and floor 3
- Coefficient of depreciation 0.83



|                  | <b>General lighting</b><br>Virtual general lighting plane of a surface equal to the one of the room, located 0.85 m above the floor (3 m x 3 m for a single room). | <b>Reading lighting</b><br>Virtual reading plane 0.3 m x 0.3 m inclined at 75° located 1.1 m from the floor and 1 m from the wall where the unit is located. | <b>Caring lighting</b><br>Virtual examination plane 2 m x 0.9 m located 0.85 m from the floor, centred in width and 0.1 m from the wall. |
|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| LED              | <b>4 Ft module</b><br>                                                                                                                                             | <b>2 Ft module</b><br>                                                                                                                                       | <b>General and reading lighting combined</b><br>                                                                                         |
| Consumption      | 42,2 W                                                                                                                                                             | 21,5 W                                                                                                                                                       | 63,7 W                                                                                                                                   |
| Average lighting | 131 lx                                                                                                                                                             | 301 lx                                                                                                                                                       | 410 lx                                                                                                                                   |

## Dynamic Lighting



The AXIS wall lighting unit is available with dynamic lighting.

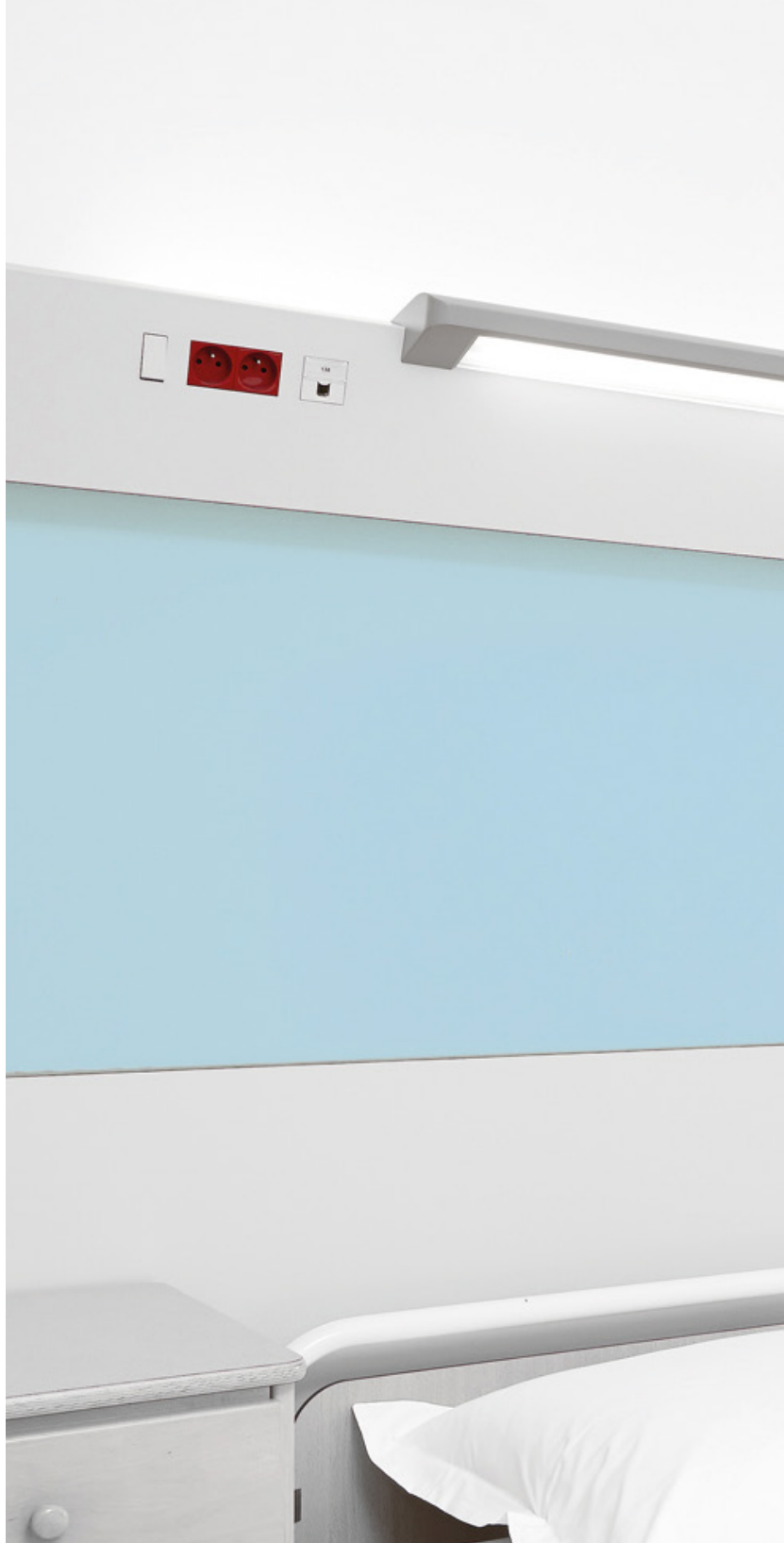
For more information, please see page 304.





**Design & Ergonomics** MEDISSIMA's equipment and accessories are within easy reach for users. Its smooth surfaces facilitate cleaning and disinfection.

**Medical gas casing** The innovative design of the medical gas casing and its integration to the front, ease the installation and maintenance. Retractable flap has been designed in the respect of MEDISSIMA's aesthetics.

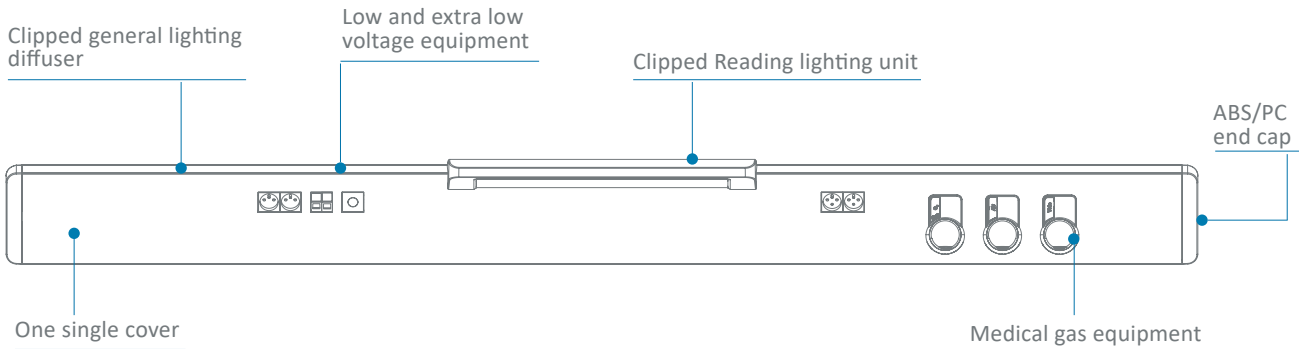




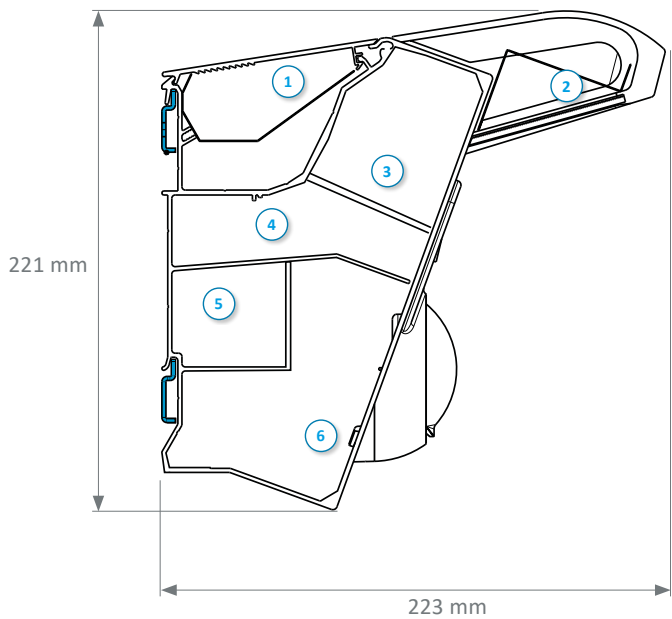
# MEDISSIMA

# TECHNICAL FEATURES

## Front view



## Cross-section



- ① Night orientation and general lighting compartment
- ② Reading lighting unit
- ③ Electrical equipment
- ④ Low voltage compartment
- ⑤ Extra low voltage compartment
- ⑥ Medical gas compartment

## Colours

|                    | White<br>RAL 9016 | Grey<br>RAL 7035 | Grey<br>RAL 7040 |
|--------------------|-------------------|------------------|------------------|
| Aluminum profile   | ●                 | ●                |                  |
| Medical gas casing | ●                 |                  | ●                |
| End caps           | ●                 |                  | ●                |
| Lighting unit      |                   |                  | ●                |

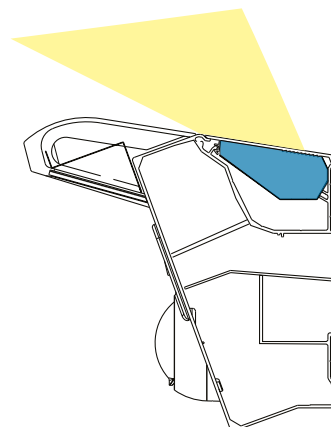


## CONTROLLED LIGHTING

Its optical design allows perfect control of the lighting, favouring the well-being of care teams and patients.

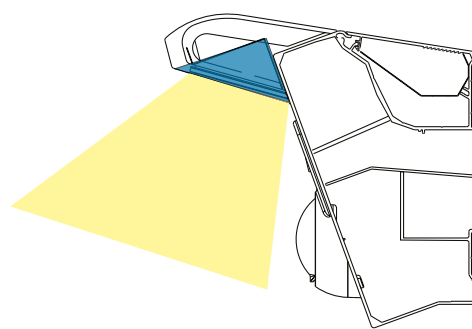
### General lighting

- Extruded PMMA\* diffuser with asymmetric grooves
- MIRO 20 SILVER® aluminum reflector



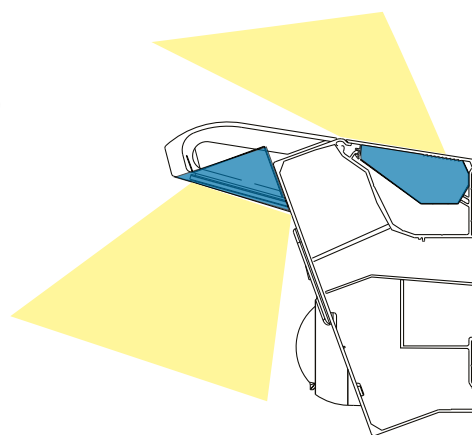
### Reading lighting

- Pressed PMMA\* micro-prismatic diffuser
- MIRO 20 SILVER® aluminum reflector



### Caring lighting

Caring lighting combines direct (reading) lighting with indirect (general) lighting.



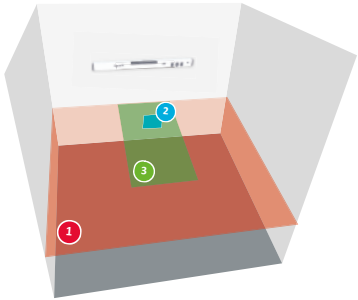
### Lighting power

| Lighting         | Modules power | Types of sources | Color temperature | Luminous flux | Consumption | System Efficiency | Driver(s)    |
|------------------|---------------|------------------|-------------------|---------------|-------------|-------------------|--------------|
| General lighting | 35,9 W (4 Ft) | LED              | 3000 K<br>4000 K  | 5965 lm       | 42,2 W      | 141,4 lm/W        | Fixed / DALI |
|                  | 44,3 W (5 Ft) | LED              | 3000 K<br>4000 K  | 7390 lm       | 51,5 W      | 143,6 lm/W        | Fixed / DALI |
| Reading lighting | 12,5 W (2 Ft) | LED              | 3000 K<br>4000 K  | 2173 lm       | 15,9 W      | 136,6 lm/W        | Fixed / DALI |
| Night light      | 1 x 3,1 W     | LED              | 3000 K            | 335 lm        | 4,9 W       | 68,1 lm/W         | Fixed        |

\*Polymethyl Metacrylate

Lighting study

- Standard room
- Dimensions of the room: 3 m x 3 m, ceiling clearance 2.5 m
- Reflection coefficients: ceiling 7, walls 5, and floor 3
- Coefficient of depreciation 0.83



|                  | <div>General lighting</div> <div>Virtual general lighting plane of a surface equal to the one of the room, located 0.85 m above the floor (3 m x 3 m for a single room).</div> | <div>Reading lighting</div> <div>Virtual reading plane 0.3 m x 0.3 m inclined at 75° located 1.1 m from the floor and 1 m from the wall where the unit is located.</div> | <div>Caring lighting</div> <div>Virtual examination plane 2 m x 0.9 m located 0.85 m from the floor, centred in width and 0.1 m from the wall.</div> |
|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| LED              | <div>4 ft module</div> <div>1</div>                                                                                                                                            | <div>2 ft module</div> <div>2</div>                                                                                                                                      | <div>General and reading lighting combined</div> <div>3</div>                                                                                        |
| Consumption      | 42,2 W                                                                                                                                                                         | 15,9 W                                                                                                                                                                   | 58,1 W                                                                                                                                               |
| Average lighting | 140 lx                                                                                                                                                                         | 326 lx                                                                                                                                                                   | 394 lx                                                                                                                                               |



**Design and Ergonomics** The HI-BEAM bed head unit features an innovative aesthetic design. Its curved shape is unique in the market.

**LED** LED sources of HI-BEAM bed head unit provide excellent energy performance.

**Medical gas casing** Gas casing are available with or without cap. They are perfectly integrated into the design of the bed head unit, with easy access for the care team.





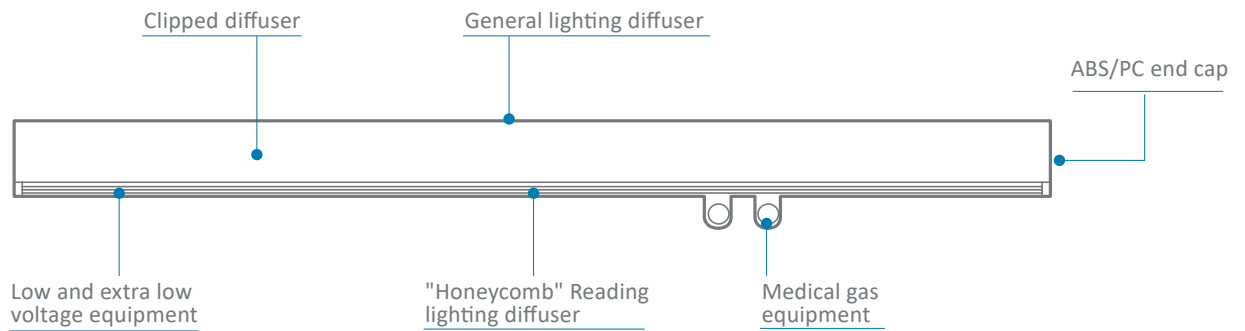
# HI-BEAM



## TECHNICAL FEATURES

The HI-BEAM is a customizable product offering an innovative, ultra-modern design. With its unique shape, it blends perfectly into normal care rooms.

### Front view



### Cross-section



### Colours

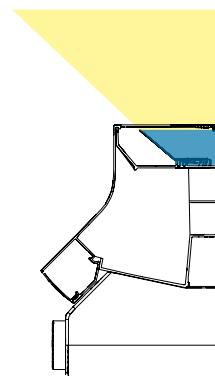
|                    | White<br>RAL 9016 | Grey<br>RAL 7035 | Grey<br>RAL 7004 | Grey<br>RAL 9006 | Black<br>RAL 7022 | Bronze |
|--------------------|-------------------|------------------|------------------|------------------|-------------------|--------|
| Aluminum profile   | ●                 |                  |                  | ●                |                   | ●      |
| Medical gas casing | ●                 |                  | ●                |                  | ●                 |        |
| Caps               | ●                 |                  | ●                |                  |                   |        |
| End caps           | ●                 | ●                |                  |                  | ●                 |        |

## CONTROLLED LIGHTING

The HI-BEAM bed head unit incorporates anti-glare reading lighting with honeycomb diffuser. The quality of the light promotes the comfort and well-being of patients and healthcare professionals.

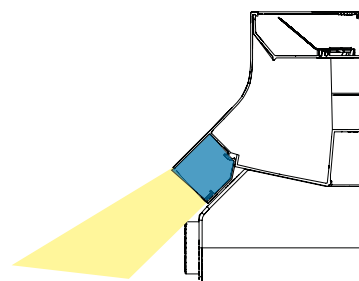
### General lighting

- Extruded clear anti-UV treated polycarbonate diffuser with asymmetric grooves
- MIRO 20 SILVER® aluminum reflector



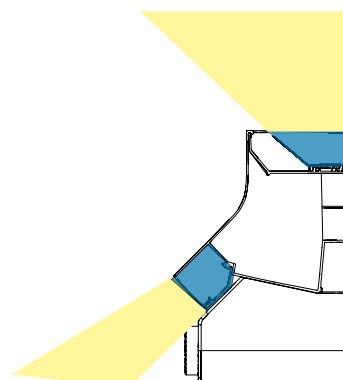
### Reading lighting

- Extruded opal anti-UV treated polycarbonate diffuser with asymmetric grooves
- MIRO 20 SILVER® aluminum reflector



### Caring lighting

Caring lighting combines direct (reading) lighting with indirect (general) lighting.

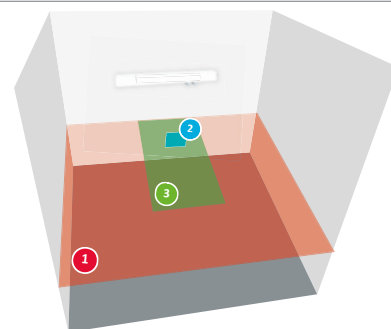


### Lighting power

| Lighting                            | Modules power | Types of sources | Color temperature   | Luminous Flux | Consumption | System Efficiency | Driver(s)    |
|-------------------------------------|---------------|------------------|---------------------|---------------|-------------|-------------------|--------------|
| General lighting                    | 35,9 W (4 Ft) | LED              | 3000 K<br>4000 K    | 5965 lm       | 42,2 W      | 141,4 lm/W        | Fixed / DALI |
| General lighting (Dynamic lighting) | 47,2 W (4 Ft) | LED              | 2700 K to<br>6500 K | 6200 lm       | 54 W        | 114,8 lm/W        | DALI         |
| Reading lighting                    | 16,1 W (2 Ft) | LED              | 3000 K<br>4000 K    | 2716 lm       | 19,8 W      | 137,3 lm/W        | Fixed / DALI |
| Night light                         | 1 x 3,1 W     | LED              | 3000 K              | 335 lm        | 4,9 W       | 68,1 lm/W         | Fixed        |

## Lighting study

- Standard room
- Dimensions of the room: 3 m x 3 m, ceiling clearance 2.5 m
- Reflection coefficients: ceiling 7, walls 5, and floor 3
- Coefficient of depreciation 0.83



| LED              | <b>General lighting</b><br>Virtual general lighting plane of a surface equal to the one of the room, located 0.85 m above the floor (3 m x 3 m for a single room). | <b>Reading lighting</b><br>Virtual reading plane 0.3 m x 0.3 m inclined at 75° located 1.1 m from the floor and 1 m from the wall where the unit is located. | <b>Caring lighting</b><br>Virtual examination plane 2 m x 0.9 m located 0.85 m from the floor, centred in width and 0.1 m from the wall. |
|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
|                  | <b>4 ft module</b><br>                                                                                                                                             | <b>2 ft module</b><br>                                                                                                                                       | <b>General and reading lighting combined</b><br>                                                                                         |
| Consumption      | 42,2 W                                                                                                                                                             | 19,8 W                                                                                                                                                       | 62 W                                                                                                                                     |
| Average lighting | 162 lx                                                                                                                                                             | 320 lx                                                                                                                                                       | 334 lx                                                                                                                                   |

## Dynamic Lighting



The HI-BEAM bed head unit is available with dynamic lighting.  
For more information please see page 304.



**Easy maintenance** MEDIVA's separate compartment for medical gas provides quick and easy access for installation and maintenance. The bed head unit can be installed quickly in just three steps, saving time and manpower.

**Design & Ergonomics** MEDIVA's electrical devices are ideally positioned, with easy access for patients and care staff. The bed head unit has smooth surfaces, making it easy to clean.

**Personalisation** Gas casing are available in seven colours, to match with the decor of normal care rooms.



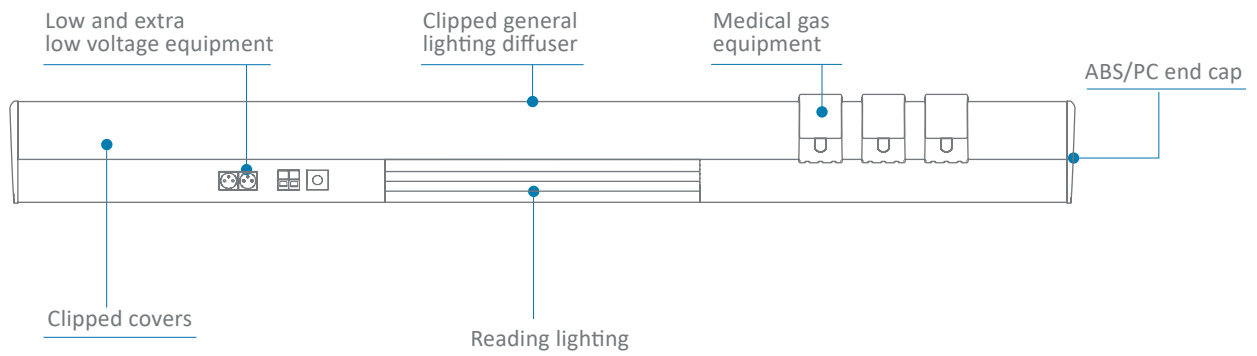




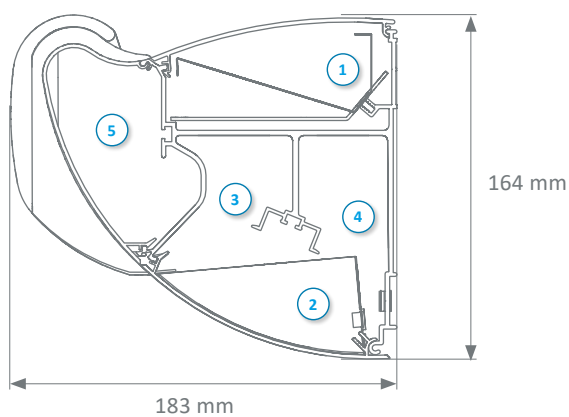
# MEDIVA

## TECHNICAL FEATURES

### Front view



### Cross-section

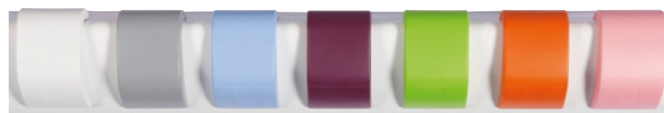


- ① General and Night light compartment
- ② Reading lighting compartment
- ③ Low voltage compartment
- ④ Extra low voltage compartment
- ⑤ Medical gas compartment

### Colours

|                  | WHITE<br>RAL 9016 | GREY<br>RAL 9006 | GREY<br>RAL 7040 | ORANGE<br>RAL 2003 | BLUE<br>RAL DESIGN<br>260 80 15 | PLUM<br>RAL DESIGN<br>330 30 35 | PINK<br>RAL DESIGN<br>010 80 20 | GREEN<br>RAL DESIGN<br>110 70 77 |
|------------------|-------------------|------------------|------------------|--------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|
| Aluminum profile | ●                 | ●                |                  |                    |                                 |                                 |                                 |                                  |
| End caps         | ●                 | ●                |                  |                    |                                 |                                 |                                 |                                  |
| Gas casing       | ●                 |                  | ●                | ●                  | ●                               | ●                               | ●                               | ●                                |

Seven gas casing, to match the MEDIVA with the decor of your normal care rooms.

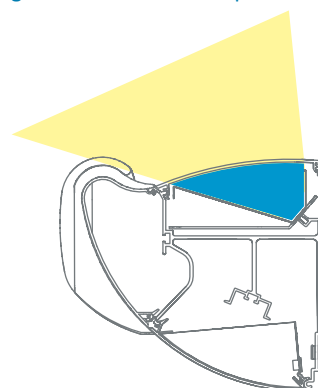


## CONTROLLED LIGHTING

The optics of the MEDIVA allow optimum control of the lighting, favouring the well-being of care teams and patients.

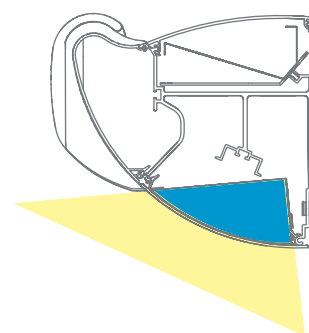
### General lighting

- Clear polycarbonate diffuser opal with anti-UV treatment
- MIRO 20 SILVER® aluminium reflector



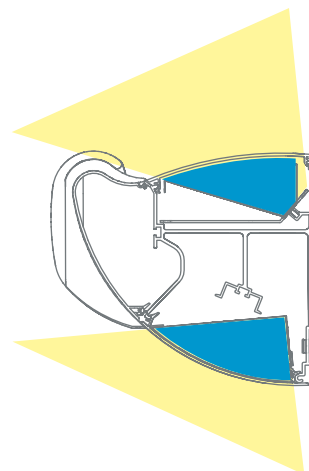
### Reading lighting

- Opal polycarbonate diffuser with anti-UV treatment
- MIRO 20 SILVER® aluminium reflector



### Caring lighting

Caring lighting combines direct (reading) lighting with indirect (general) lighting.



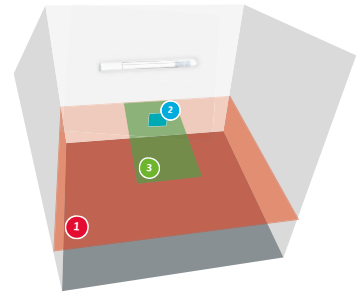
### Lighting power

| Lighting         | Modules power | Types of sources | Color temperature | Luminous Flux | Consumption | System Efficiency | Driver(s)    |
|------------------|---------------|------------------|-------------------|---------------|-------------|-------------------|--------------|
| General lighting | 35,9 W (4 Ft) | LED              | 3000 K<br>4000 K  | 5965 lm       | 42,2 W      | 141,4 lm/W        | Fixed / DALI |
|                  | 44,3 W (5 Ft) | LED              | 3000 K<br>4000 K  | 7390 lm       | 51,5 W      | 143,6 lm/W        | Fixed / DALI |
| Reading lighting | 9,8 W (2 Ft)  | LED              | 3000 K<br>4000 K  | 1756 lm       | 11,8 W      | 149,2 lm/W        | Fixed / DALI |
| Night light      | 1 x 3,1 W     | LED              | 3000 K            | 335 lm        | 4,9 W       | 68,1 lm/W         | Fixed        |

# EFFICIENT LIGHTING

## Lighting study

- Standard room
- Dimensions of the room: 3 m x 3 m, ceiling clearance 2.5 m
- Reflection coefficients: ceiling 7, walls 5, and floor 3
- Coefficient of depreciation 0.83



|                  | <b>General lighting</b><br>Virtual general lighting plane of a surface equal to the one of the room, located 0.85 m above the floor (3 m x 3 m for a single room). | <b>Reading lighting</b><br>Virtual reading plane 0.3 m x 0.3 m inclined at 75° located 1.1 m from the floor and 1 m from the wall where the unit is located. | <b>Caring lighting</b><br>Virtual examination plane 2 m x 0.9 m located 0.85 m from the floor, centred in width and 0.1 m from the wall. |
|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| LED              | <b>4 Ft module</b><br>                                                                                                                                             | <b>2 Ft module</b><br>                                                                                                                                       | <b>General and reading lighting combined</b><br>                                                                                         |
| Consumption      | 42,2 W                                                                                                                                                             | 11,8 W                                                                                                                                                       | 54 W                                                                                                                                     |
| Average lighting | 133 lx                                                                                                                                                             | 335 lx                                                                                                                                                       | 423 lx                                                                                                                                   |







**Design & Ergonomics** The pure form and the thinness of LYSA wall lighting unit make it discreet in normal care room. Low and extra low voltage equipment, integrated to the duct, are within easy reach of the users.

**Innovation** Available in LED version, LYSA wall lighting unit has an efficient and comfortable optical system for patients and caregivers. Integration of dynamic lighting simulating a 24 hours light cycle, will be helpful for the patient well-being.

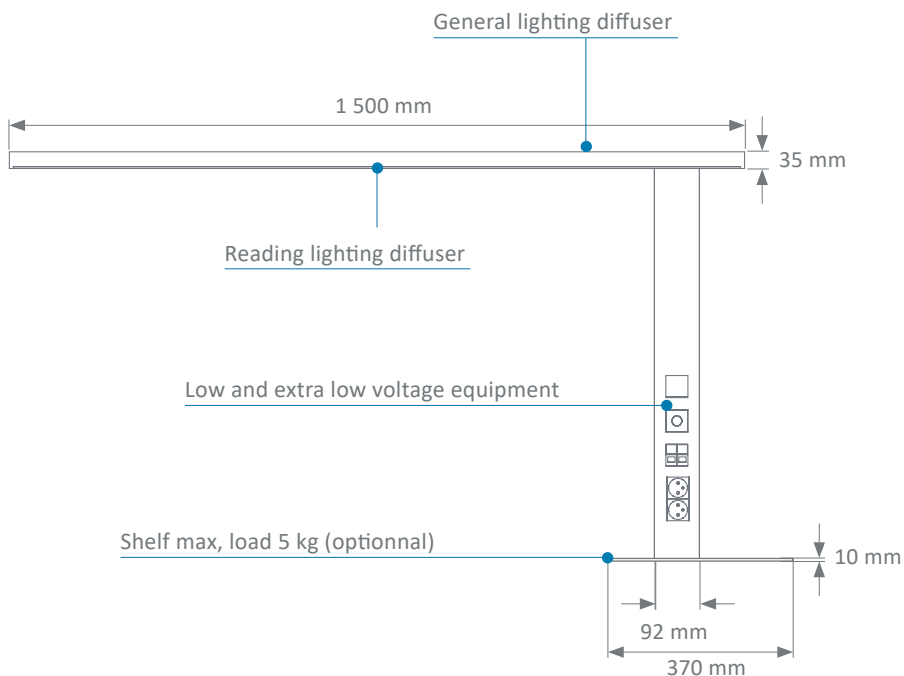




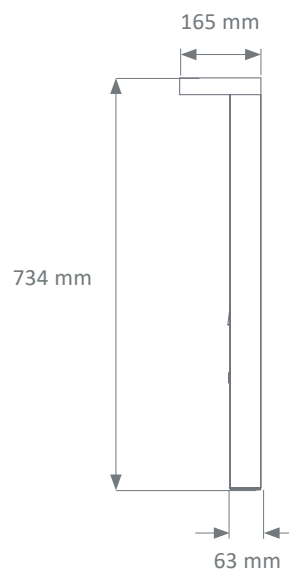
# LYSA

## Front view

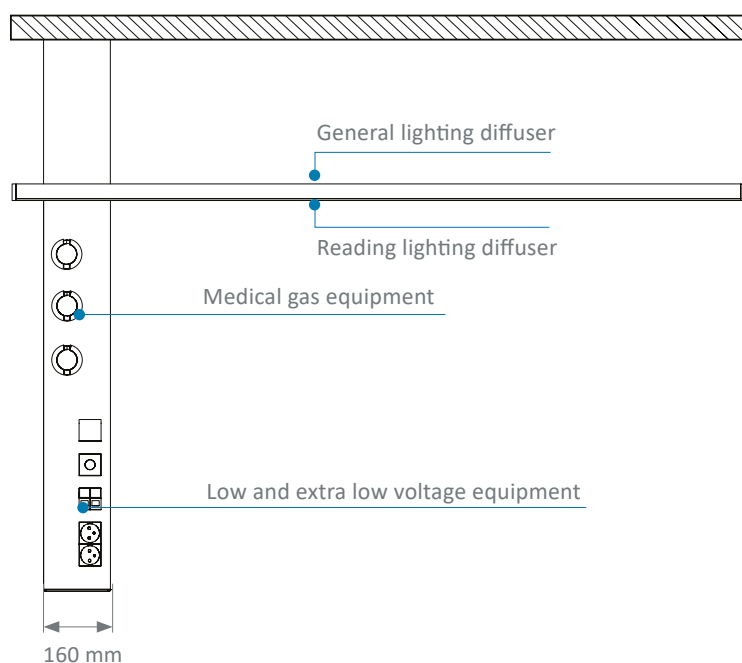
### LYSA with electrical equipment



## Side view

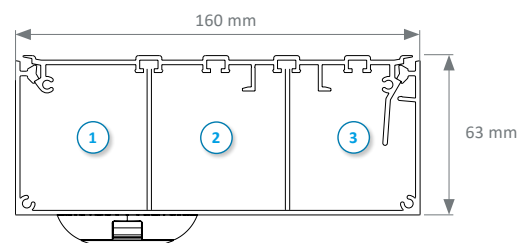


### LYSA with electrical and medical gas equipment



## Cross-section

- ① Medical gas compartment
- ② Low voltage compartment
- ③ Extra low voltage compartment



## Colours

|      | Grey RAL 9006 | Grey RAL 9007 | White RAL 9016 |
|------|---------------|---------------|----------------|
| LYSA | ●             | ●             | ●              |

## CONTROLLED LIGHTING

The LYSA bed head unit is ideal for rest homes, retirement homes, and nursing homes. The quality of the light promotes the comfort and well-being of patients and healthcare professionals.

### General lighting

- Clear polycarbonate indirect diffuser
- MIRO 20 Silver® Aluminum reflector



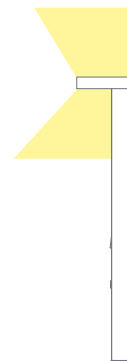
### Reading lighting

- Satin-finish polycarbonate direct diffuser
- MIRO 20 Silver® Aluminum reflector



### Caring lighting

Caring lighting combines direct (reading) lighting with indirect (general) lighting.

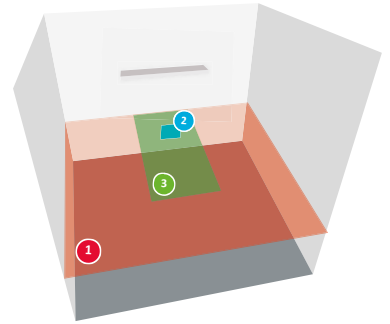


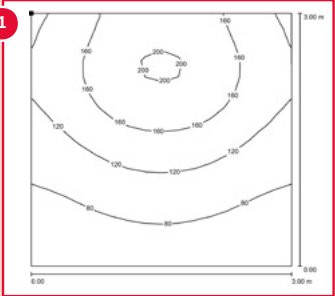
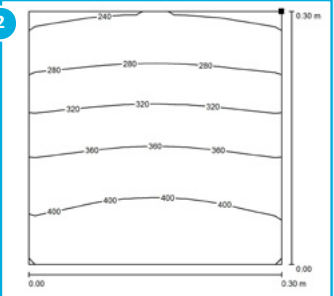
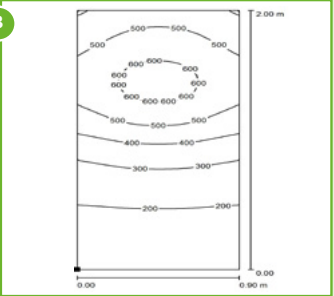
### Lighting power

| Lighting                               | Modules power | Types of sources | Color Temperature   | Luminous Flux                           | Consumption | System Efficiency | Driver(s)    |
|----------------------------------------|---------------|------------------|---------------------|-----------------------------------------|-------------|-------------------|--------------|
| General lighting                       | 28,7 W (3 Ft) | LED              | 3000 K<br>4000 K    | 5039 lm<br>(length 1050 mm)             | 33,2 W      | 151,9 lm/W        | Fixed / DALI |
|                                        | 35,3 W (4 Ft) | LED              | 3000 K<br>4000 K    | 6255 lm<br>(length 1300 mm and 1500 mm) | 40,8 W      | 153,4 lm/W        | Fixed / DALI |
| General lighting<br>(Dynamic lighting) | 38,9 W (3 Ft) | LED              | 2700 K to<br>6500 K | 5000 lm                                 | 44,9 W      | 111,4 lm/W        | DALI         |
|                                        | 47,2 W (4 Ft) | LED              | 2700 K to<br>6500 K | 6200 lm                                 | 54 W        | 114,8 lm/W        | DALI         |
| Reading lighting                       | 8,9 W (2 Ft)  | LED              | 3000 K<br>4000 K    | 1710 lm                                 | 10,8 W      | 158,8 lm/W        | Fixed / DALI |
| Night light                            | 3,1 W         | LED              | 3000 K              | 335 lm                                  | 4,9 W       | 68,1 lm/W         | Fixed        |

## Lighting study

- Standard room
- Dimensions of the room: 3 m x 3 m, ceiling clearance 2.5 m
- Reflection coefficients: ceiling 7, walls 5, and floor 3
- Coefficient of depreciation 0.83



|                  | <b>General lighting</b><br>Virtual general lighting plane of a surface equal to the one of the room, located 0.85 m above the floor (3 m x 3 m for a single room). | <b>Reading lighting</b><br>Virtual reading plane 0.3 m x 0.3 m inclined at 75° located 1.1 m from the floor and 1 m from the wall where the light fitting is mounted. | <b>Caring lighting</b><br>Virtual examination plane 2 m x 0.9 m located 0.85 m from the floor, centred in width and 0.1 m from the wall. |
|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| LED              | <b>3 Ft module</b><br>                                                           | <b>2 Ft module</b><br>                                                             | <b>General and reading lighting combined</b><br>     |
| Consumption      | 33,2 W                                                                                                                                                             | 10,8 W                                                                                                                                                                | 44 W                                                                                                                                     |
| Average lighting | 125 lx                                                                                                                                                             | 353 lx                                                                                                                                                                | 397 lx                                                                                                                                   |

## Dynamic Lighting



The LYSA vertical bed head unit is available with dynamic lighting.

For more information please see page 304.







**Design & Ergonomics** The configuration of the Cocoon set apart the patient space from the medical atmosphere. The bedside table integrated to the bed head unit is suspended for easy floor cleaning. One ergonomic drawer is included for easy access when patient is lying down.

**Innovation** Available in LED version, LYSA wall lighting unit has an efficient and comfortable optical system for patients and hospital staff. Integration, as option, of dynamic lighting simulating a 24 hours light cycle, will be helpful for the patient well-being.





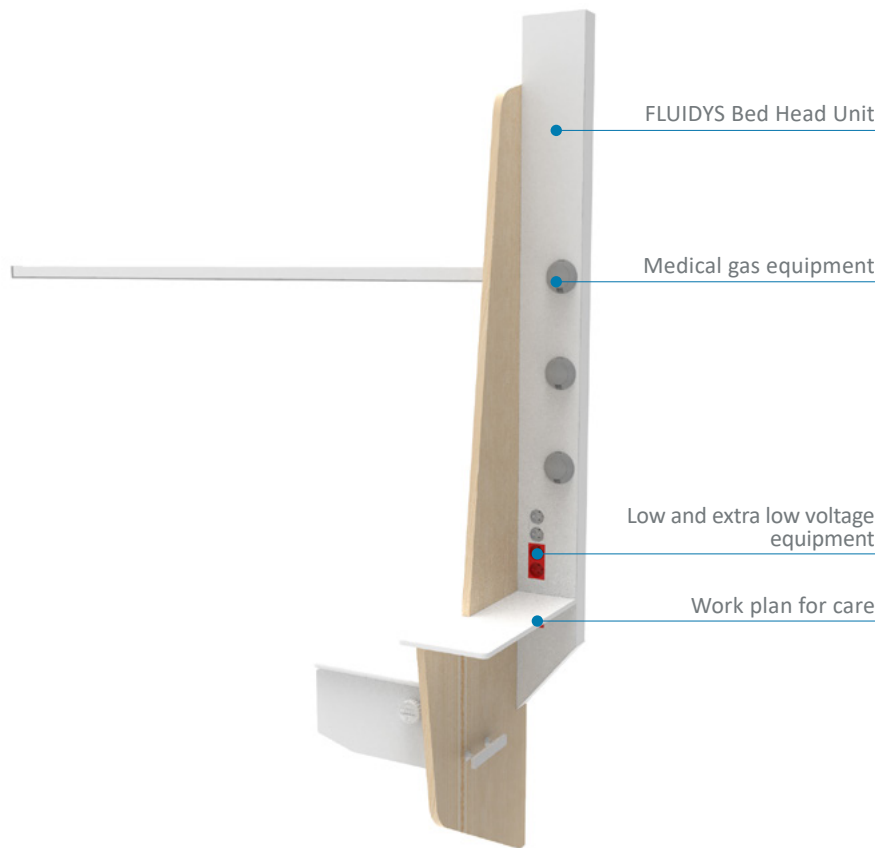
# COCOON

## STRENGTHS

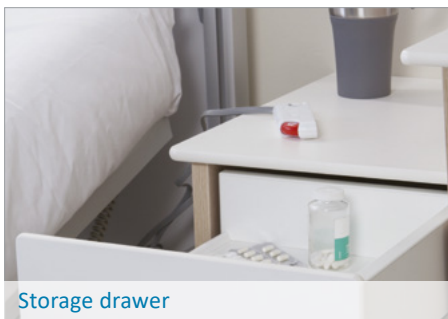
### Nursing side



Accessory mounting rail (optional)



### Patient side



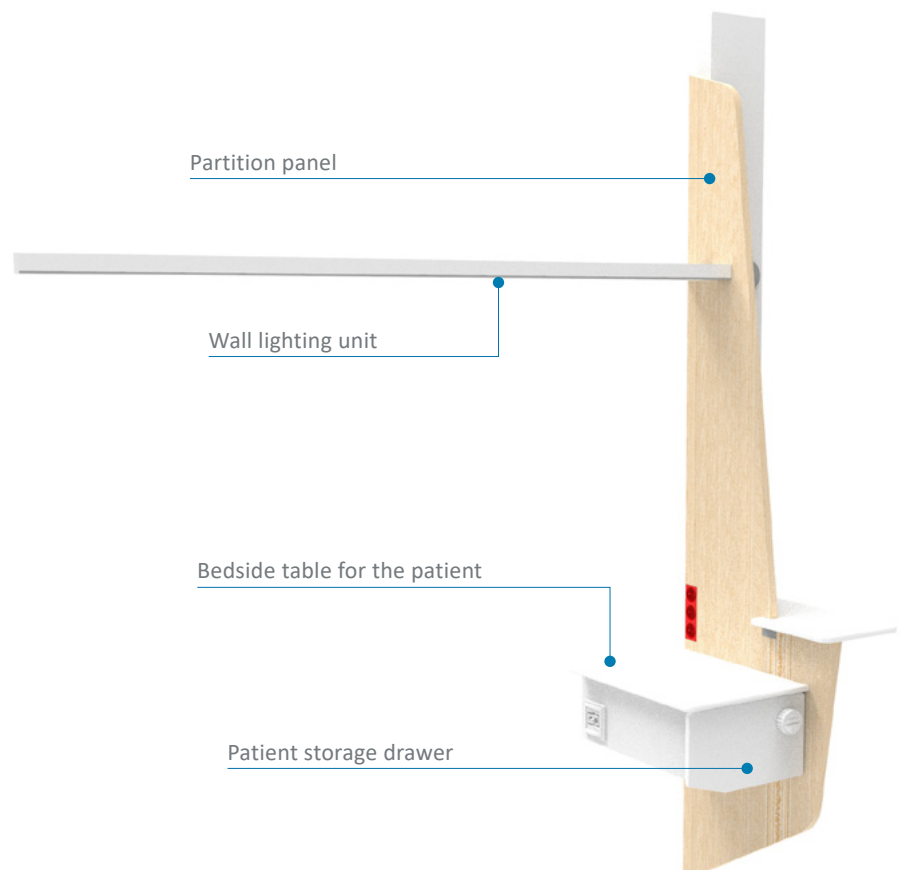
Storage drawer



Fridge (option)



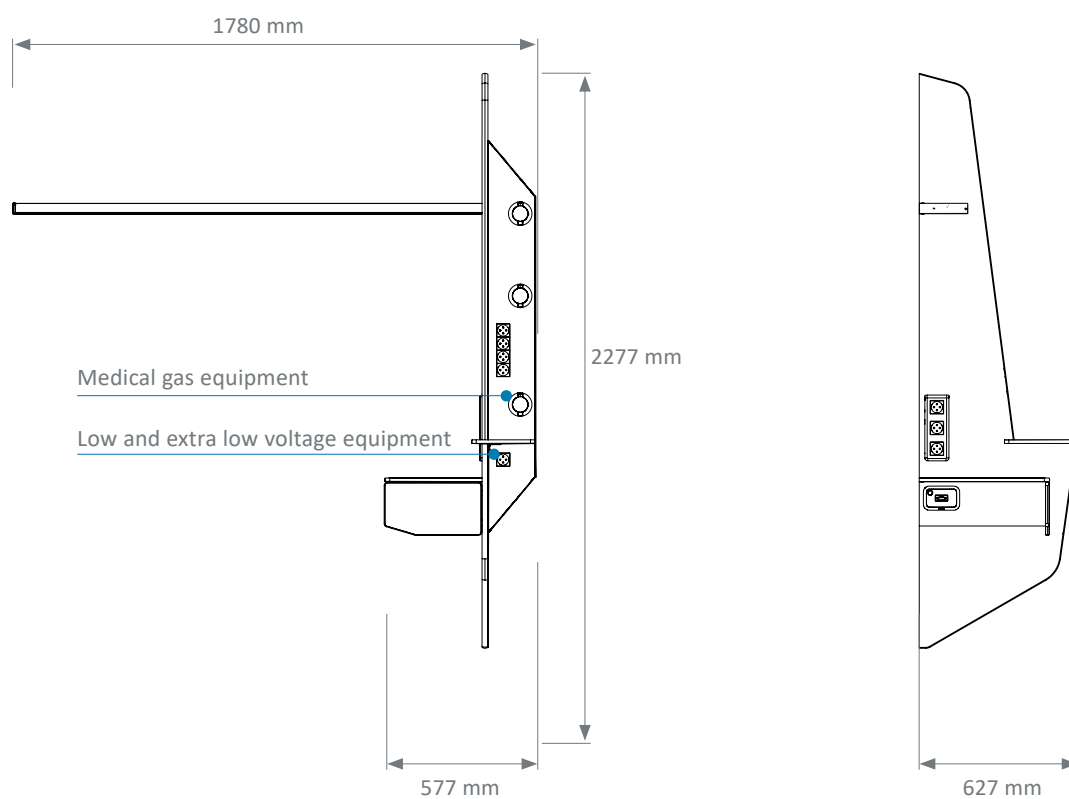
Lock (optional)



## Front view

## Side view

### COCOON with LYSA lighting unit



## Colors

|                    | GREY RAL 9006 | GREY RAL 9007 | WHITE RAL 9016 |
|--------------------|---------------|---------------|----------------|
| Wall lighting unit | ●             | ●             | ●              |
| Aluminium profile  | ●             |               | ●              |
| Panel              | SEE PAGE 302  |               |                |



## CONTROLLED LIGHTING

The COCOON concept is ideal for all type of health institution. The quality of the light promotes the comfort and well-being of patients and healthcare professionals.

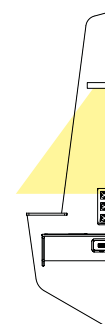
### General lighting

- Clear polycarbonate indirect diffuser
- MIRO 20 Silver® Aluminum reflector



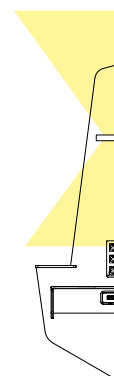
### Reading lighting

- Satin-finish polycarbonate direct diffuser
- MIRO 20 Silver® Aluminum reflector



### Caring lighting

Caring lighting combines direct (reading) lighting with indirect (general) lighting.

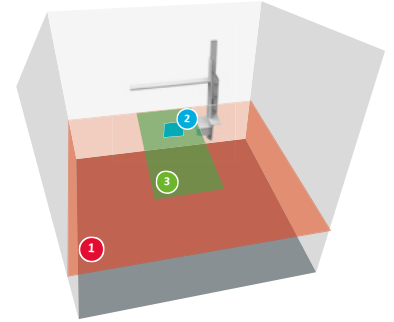


### Lighting power

| Lighting                               | Modules power | Types of sources | Color temperature   | Luminous Flux               | Consumption | System Efficiency | Driver(s)    |
|----------------------------------------|---------------|------------------|---------------------|-----------------------------|-------------|-------------------|--------------|
| General lighting                       | 28,7 W (3 Ft) | LED              | 3000 K<br>4000 K    | 5039 lm<br>(length 1050 mm) | 33,2 W      | 151,9 lm/W        | Fixed / DALI |
|                                        | 35,3 W (4 Ft) | LED              | 3000 K<br>4000 K    | 6255 lm<br>(length 1300 mm) | 40,8 W      | 133,4 lm/W        | Fixed / DALI |
| General lighting<br>(Dynamic lighting) | 38,9 W (3 Ft) | LED              | 2700 K to<br>6500 K | 5000 lm                     | 44,9 W      | 111,4 lm/W        | DALI         |
|                                        | 47,2 W (4 Ft) | LED              | 2700 K to<br>6500 K | 6200 lm                     | 54 W        | 114,8 lm/W        | DALI         |
| Reading lighting                       | 8,9 W (2 Ft)  | LED              | 3000 K<br>4000 K    | 1710 lm                     | 10,8 W      | 158,8 lm/W        | Fixed / DALI |
| Night light                            | 3,1 W         | LED              | 3000 K              | 335 lm                      | 4,9 W       | 68,1 lm/W         | Fixed        |

## Lighting study

- Standard room
- Dimensions of the room: 3 m x 3 m, ceiling clearance 2.5 m
- Reflection coefficients: ceiling 7, walls 5, and floor 3
- Coefficient of depreciation 0.83



| LED              | <b>General lighting</b><br>Virtual general lighting plane of a surface equal to the one of the room, located 0.85 m above the floor (3 m x 3 m for a single room). | <b>Reading lighting</b><br>Virtual reading plane 0.3 m x 0.3 m inclined at 75° located 1.1 m from the floor and 1 m from the wall where the light fitting is mounted. | <b>Caring lighting</b><br>Virtual examination plane 2 m x 0.9 m located 0.85 m from the floor, centred in width and 0.1 m from the wall. |
|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
|                  | <b>3 ft module</b><br>                                                                                                                                             | <b>2 ft module</b><br>                                                                                                                                                | <b>General and reading lighting combined</b><br>                                                                                         |
| Consumption      | 33,2 W                                                                                                                                                             | 10,8 W                                                                                                                                                                | 44 W                                                                                                                                     |
| Average lighting | 125 lx                                                                                                                                                             | 353 lx                                                                                                                                                                | 397 lx                                                                                                                                   |

## Dynamic Lighting



The COCOON bed head unit is available with dynamic lighting.  
For more information, please see page 304.













## **VERTICAL BED HEAD UNITS ASSOCIATED WITH WALL LIGHTING UNIT**

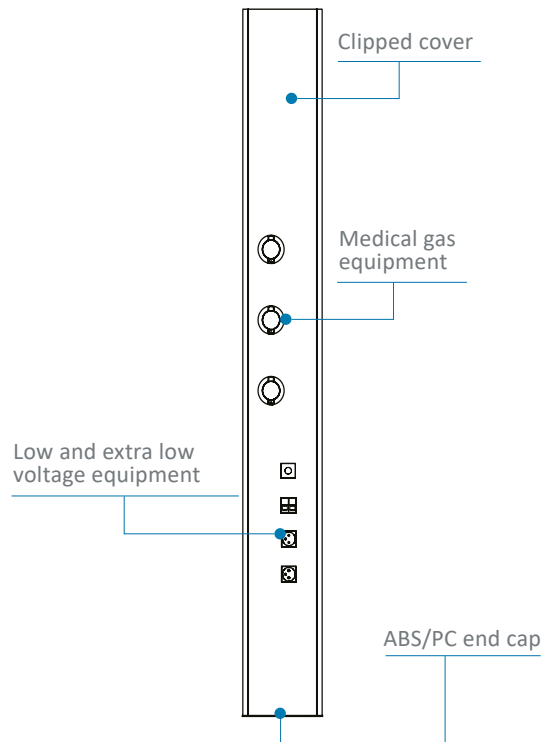
FLUIDYS  
SIMPLE-CARE  
SILEA

p.64  
p.68  
p.70



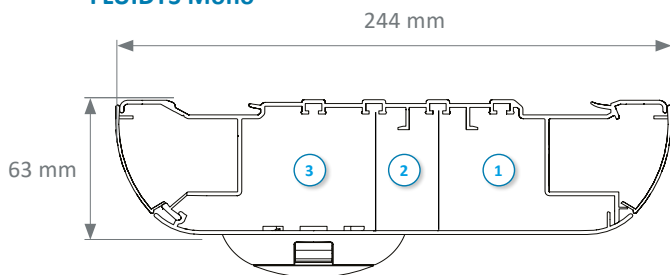
# FLUIDYS

## Front view

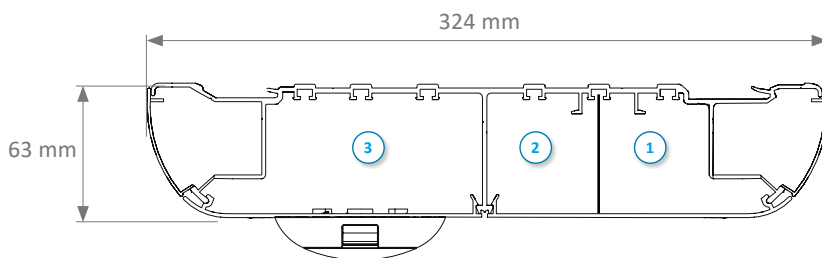


## Cross-section

### FLUIDYS Mono



### FLUIDYS Duo



- ① Extra low voltage compartment
- ② Low voltage compartment
- ③ Medical gas compartment

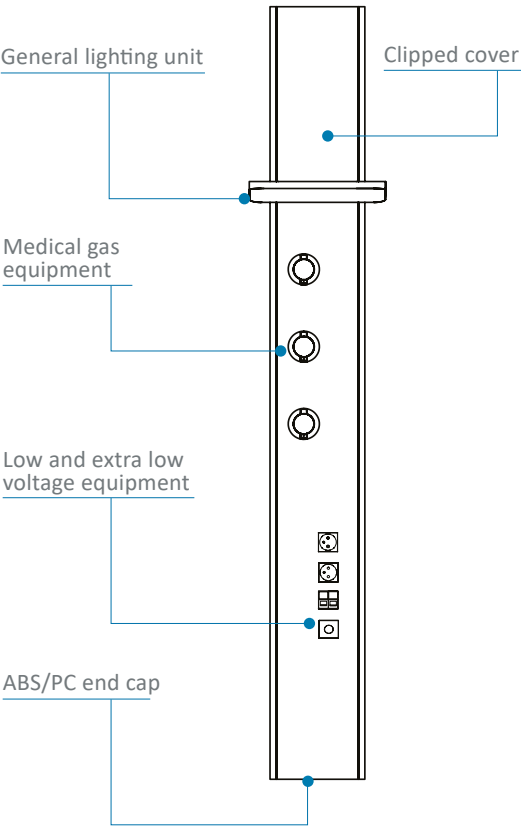
## Colours

|                    | White<br>RAL 9016 | Grey<br>RAL 7040 | Grey<br>RAL 9006 |
|--------------------|-------------------|------------------|------------------|
| Aluminum profile   | ●                 |                  | ●                |
| Medical gas casing | ●                 | ●                |                  |
| End caps           | ●                 | ●                |                  |

# AS OPTION: VERTICAL BED HEAD UNIT WITH LUMIA LIGHTING UNIT

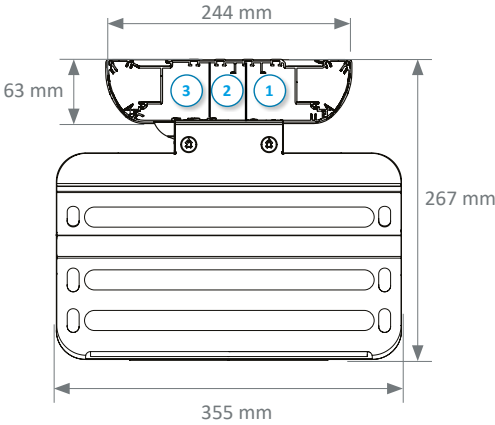
The FLUIDYS bed head unit with LUMIA lighting unit offers many possible options for integrating electrical and medical gas equipment. It provides efficient, high-quality indirect lighting to contribute to the well-being of care teams and patients. LUMIA lighting unit is equipped with a clear glass diffuser with an aluminum reflector.

## Front view

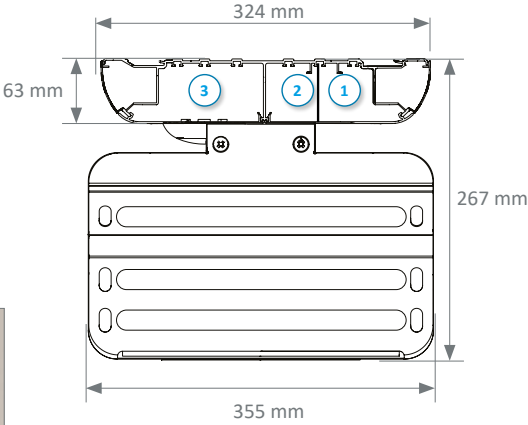


## Cross-section

### LUMIA Mono lighting unit



### LUMIA Duo lighting unit



- 1 Extra low voltage compartment
- 2 Low voltage compartment
- 3 Medical gas compartment

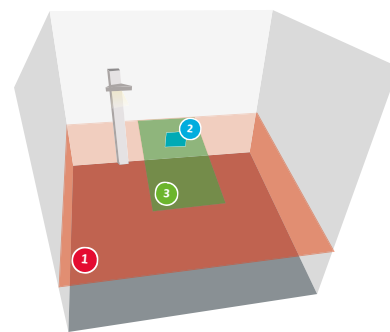
## Colours

|               | White<br>RAL 9016 | Grey<br>RAL 9006 |
|---------------|-------------------|------------------|
| Lighting unit | ●                 | ●                |

# EFFICIENT LIGHTING

## Lighting study for FLUIDYS bed head unit with LUMIA lighting unit

- Standard room
- Dimensions of the room: 3 m x 3 m, ceiling clearance 2.5 m
- Reflection coefficients: ceiling 7, walls 5, and floor 3
- Coefficient of depreciation 0.83



|                  | <b>General lighting</b><br>Virtual general lighting plane of a surface equal to the one of the room, located 0.85 m above the floor (3 m x 3 m for a single room). | <b>Reading lighting</b><br>Virtual reading plane 0.3 m x 0.3 m inclined at 75° located 1.1 m from the floor and 1 m from the wall where the light fitting is mounted. | <b>Caring lighting</b><br>Virtual examination plane 2 m x 0.9 m located 0.85 m from the floor, centred in width and 0.1 m from the wall. |
|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| <b>LED</b>       | <b>3 ft module</b><br>                                                                                                                                             | <b>1 ft module</b><br>                                                                                                                                                | <b>General and reading lighting combined</b><br>                                                                                         |
| Consumption      | 37,6 W                                                                                                                                                             | 4,9 W                                                                                                                                                                 | 42,5 W                                                                                                                                   |
| Average lighting | 149 lx                                                                                                                                                             | 339 lx                                                                                                                                                                | 304 lx                                                                                                                                   |

## Lighting power

| Lighting         | Modules power | Types of sources | Color Temperature | Luminous Flux | Consumption | System Efficiency | Driver(s)    |
|------------------|---------------|------------------|-------------------|---------------|-------------|-------------------|--------------|
| General lighting | 32,3 W (3 Ft) | LED              | 3000 K<br>4000 K  | 5531 lm       | 37,6 W      | 147,3 lm/W        | Fixed / DALI |
| Reading lighting | 3,1 W (1 Ft)  | LED              | 4000 K            | 335 lm        | 4,9 W       | 68,1 lm/W         | Fixed        |

EEI\* **A<sup>+</sup>**

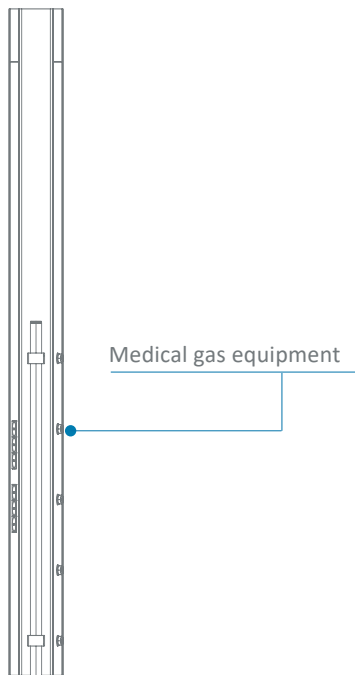




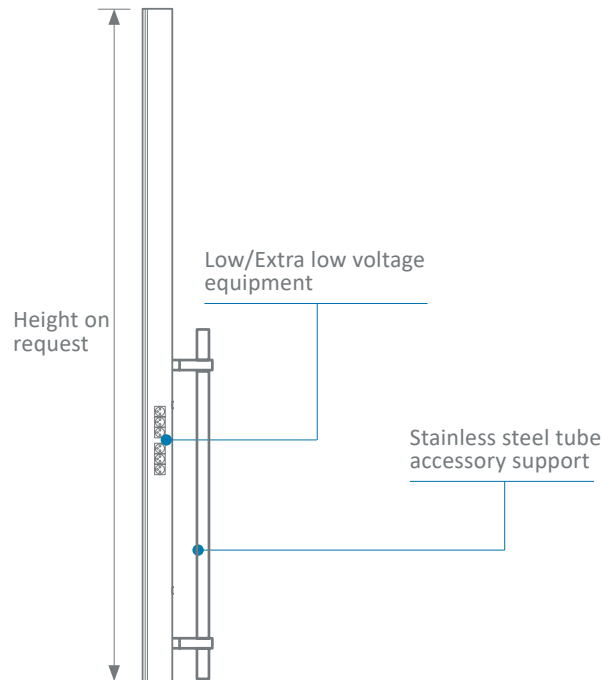
# SIMPLE-CARE

## TECHNICAL FEATURES

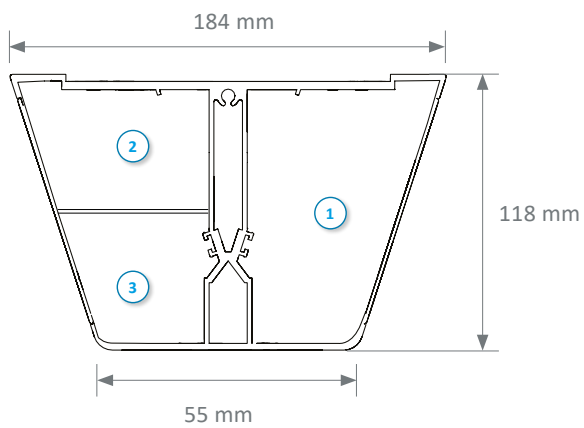
### Front view



### Side view



### Cross-section



- 1 Medical gas compartment
- 2 Low voltage compartment
- 3 Extra low voltage compartment

### Colours

White  
RAL 9016

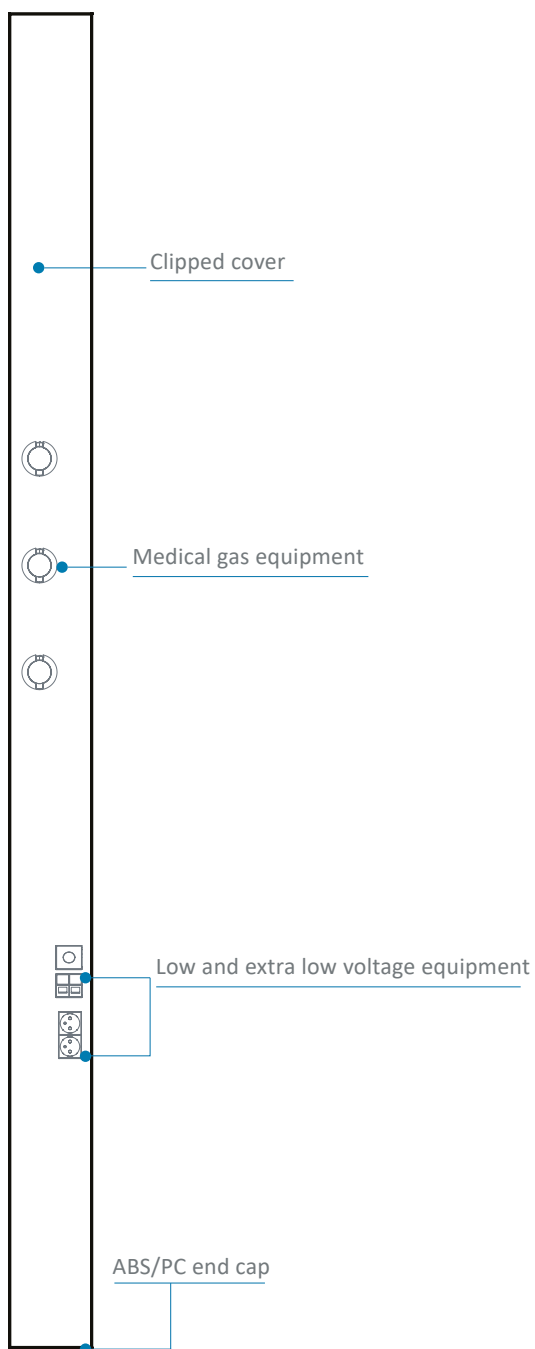
SIMPLE-CARE



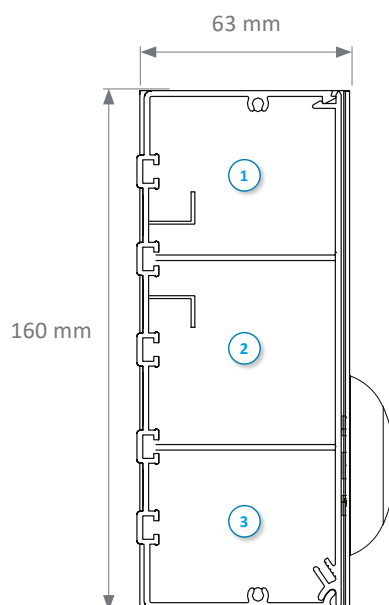


# SILEA

## Front view



## Cross-section



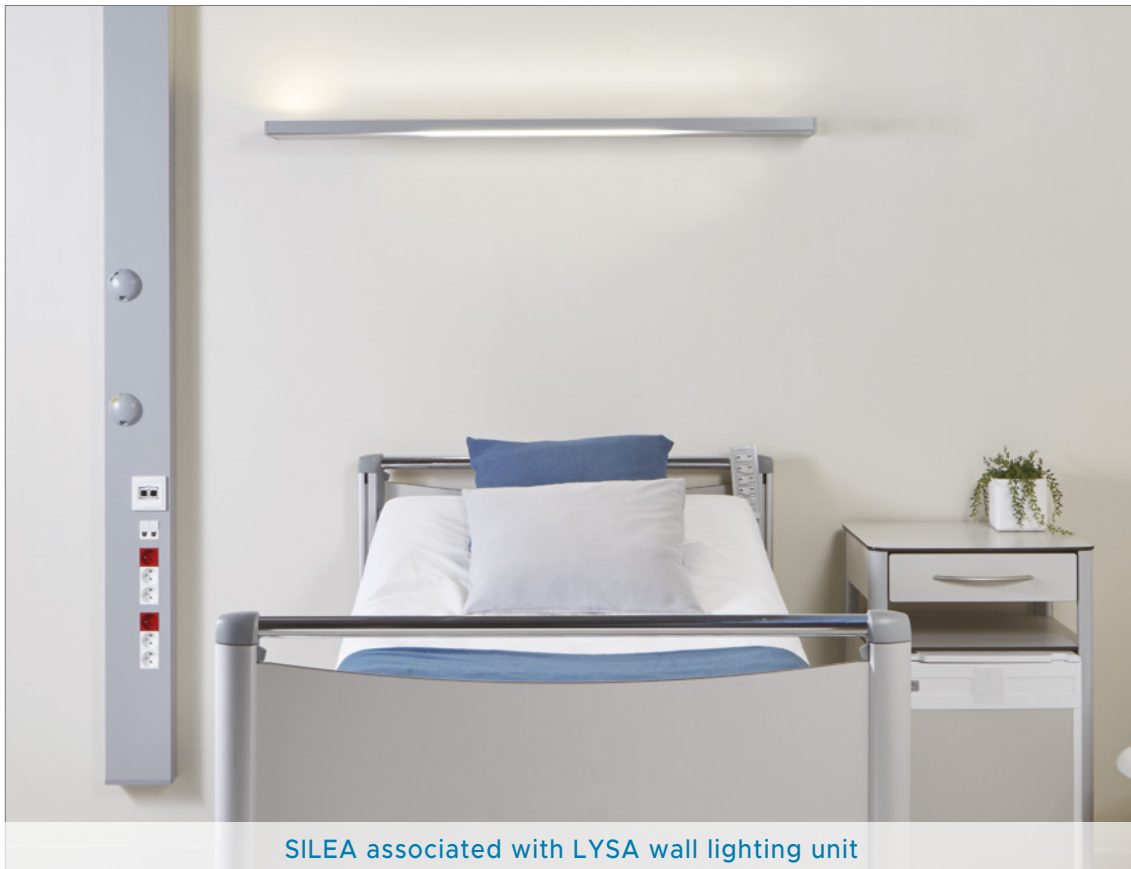
- ① Extra low voltage compartment
- ② Low voltage compartment
- ③ Medical gas compartment

## Colours

|                    | White<br>RAL 9016 | Grey<br>RAL 9006 | Grey<br>RAL 7040 |
|--------------------|-------------------|------------------|------------------|
| Aluminum profile   | ●                 | ●                |                  |
| Medical gas casing | ●                 |                  | ●                |
| End caps           | ●                 |                  | ●                |

## VERTICAL BED HEAD UNITS LIGHTING

Combined with a wall-mounted lighting unit from the TLV range, the FLUIDYS, SIMPLE-CARE and SILEA bed head units offer a comfortable and efficient lighting solution to contribute to the well-being of patients and healthcare professionals.



SILEA associated with LYSA wall lighting unit



SIMPLE-CARE associated with LINA wall lighting unit





## Optionnal lighting

Reading spot lamp FLEX-E LED (flexible stem grey).



LED night light built into the bottom end cap.







# ARCHITECTURAL CONCEPTS

|               |       |
|---------------|-------|
| GOODWOOD      | p.76  |
| GOODWOOD MOVE | p.86  |
| MADEIRA       | p.92  |
| ARTIDYS       | p.102 |

**Custom made design** GOODWOOD's panels are fully customized (colours, materials, decorative film) and can match with decor of any room.

**Lighting** GOODWOOD lets you have an individual wall-mounted lighting unit for each bed (GOODLIGHT) or an integrated cap incorporating the light sources.







# GOODWOOD



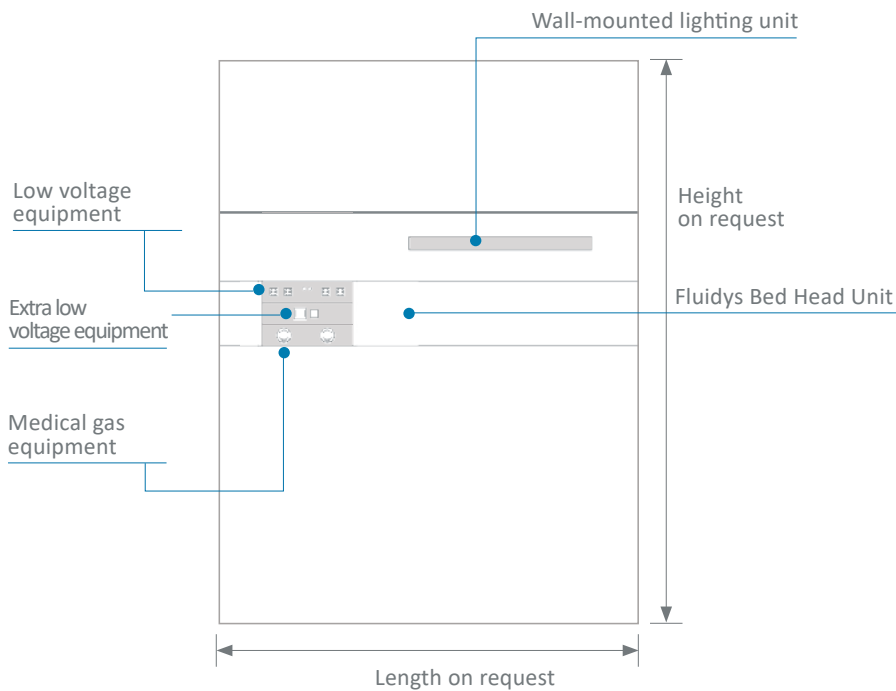
## TECHNICAL FEATURES

The GOODWOOD architectural concept offers many possible options for integrating electrical and medical gas equipment. Thanks to its slim profile, it is easy to incorporate into your caring area. It can also be equipped with an optional stainless steel accessory mounting rail (25x10 mm).

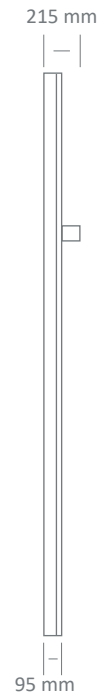
### 1 bed standard configuration

#### Front view

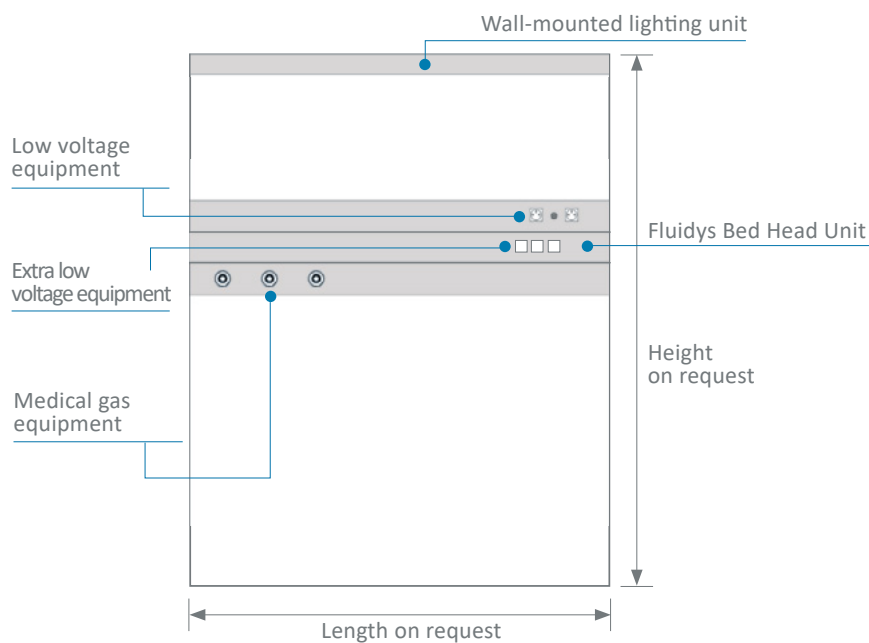
GOODWOOD with GOODLIGHT lighting unit



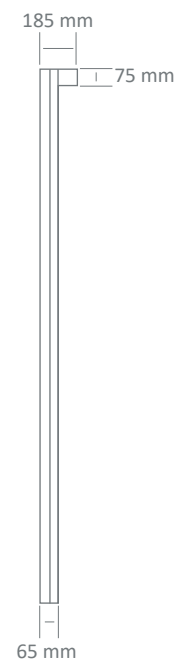
#### Side view



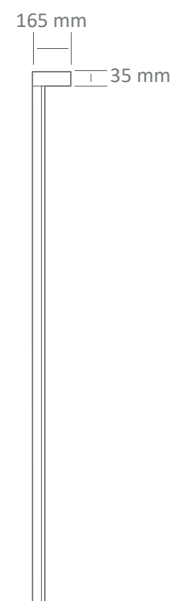
GOODWOOD with GOODLIGHT or LYSA lighting unit



GOODLIGHT

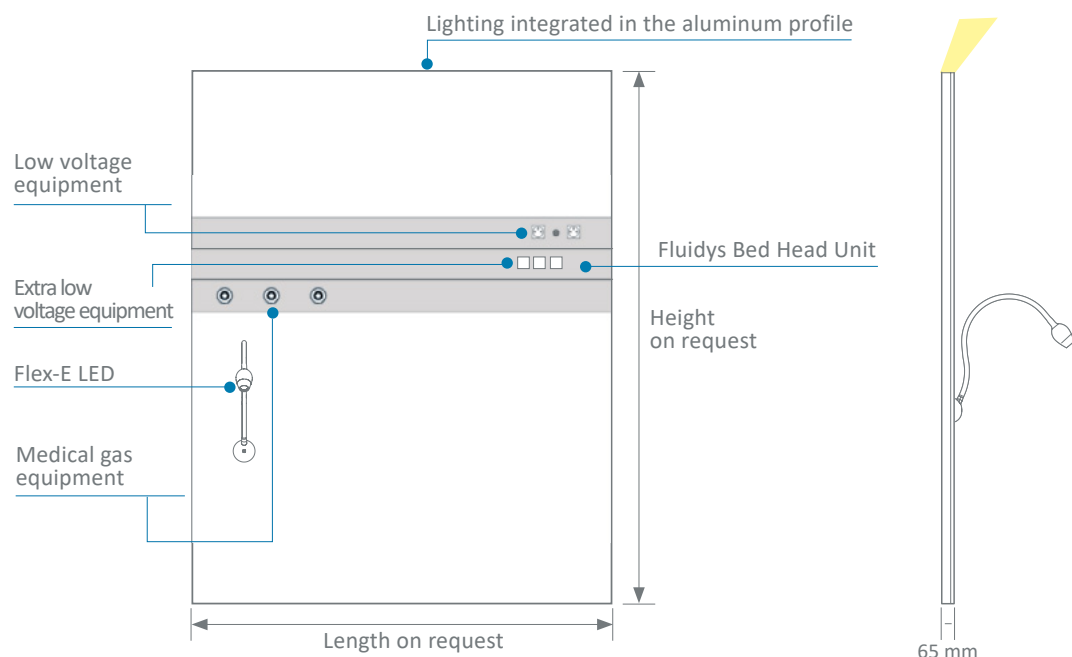


LYSA



## CONFIGURATIONS

### GOODWOOD with integrated aluminum profile



See the colors of laminated panels page 302

### Configuration examples

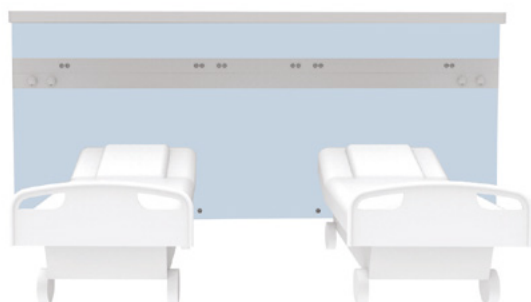
**2-beds Goodwood with Goodlight wall lighting unit and built-in bedside tables**



**2-beds Goodwood with Goodlight wall lighting unit and built-in bedside tables**



**2-beds Goodwood with Goodlight wall lighting unit**



**1-bed Goodwood with Goodlight wall lighting unit**



**1-bed Goodwood with Goodlight wall lighting unit and accessory mounting rail**

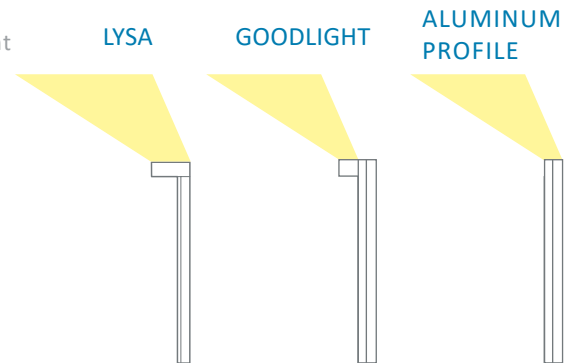


## CONTROLLED LIGHTING

The GOODWOOD concept offers lighting unit on the front panel, or a GOODLIGHT unit overhanging its front panel. It also incorporates LED night light at the bottom.

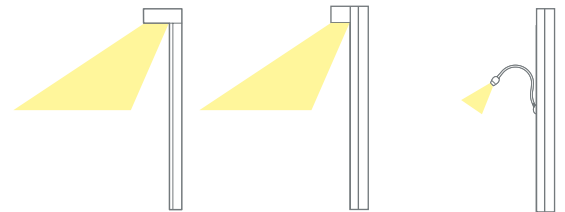
### General lighting

- Clear satin-finish PMMA diffuser with anti-UV treatment
- MIRO 20 SILVER® Aluminum reflector (for LYSA and GOODLIGHT)



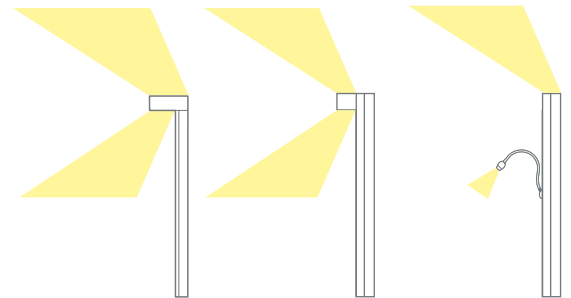
### Reading lighting

- Satin-finish PMMA diffuser
- MIRO 20 SILVER® Aluminum reflector (for LYSA and GOODLIGHT)



### Caring lighting

Caring lighting combines direct (reading) and indirect (general) lighting.



### Lighting power (LYSA or GOODLIGHT)

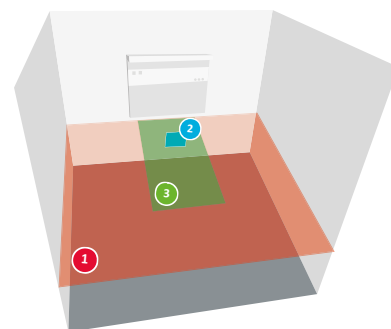
| Lighting                            | Modules power | Types of sources | Color temperature | Luminous Flux | Consumption | System Efficiency | Driver(s)    |
|-------------------------------------|---------------|------------------|-------------------|---------------|-------------|-------------------|--------------|
| General lighting                    | 28,7 W (3 Ft) | LED              | 3000 K<br>4000 K  | 5039 lm       | 33,2 W      | 151,9 lm/W        | Fixed / DALI |
| General lighting (Dynamic lighting) | 38,9 W (3 Ft) | LED              | 2700 K to 6500 K  | 5000 lm       | 44,9 W      | 111,4 lm/W        | DALI         |
| Reading lighting                    | 8,9 W (2 Ft)  | LED              | 3000 K<br>4000 K  | 1710 lm       | 10,8 W      | 158,8 lm/W        | Fixed / DALI |
| Night light                         | 1 x 3,1 W     | LED              | 3000 K            | 335 lm        | 4,9 W       | 68,1 lm/W         | Fixed        |

Lighting powers for the aluminum profile configuration will be available in summer 2021

\* PMMA: Polymethyl methacrylate

## Lighting study

- Standard room
- Dimensions of the room: 3 m x 3 m, ceiling clearance 2.5 m
- Reflection coefficients: ceiling 7, walls 5, and floor 3
- Coefficient of depreciation 0.83



## GOODLIGHT lighting unit

### General lighting

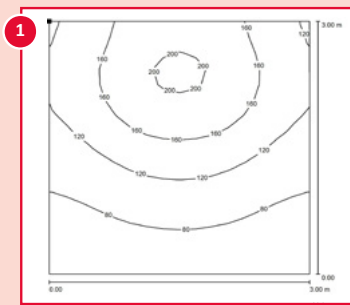
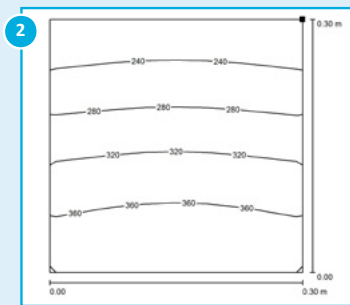
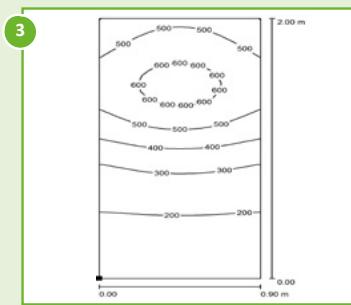
Virtual general lighting plane of a surface equal to the one of the room, located 0.85 m above the floor (3 m x 3 m for a single room).

### Reading lighting

Virtual reading plane 0.3 m x 0.3 m inclined at 75° located 1.1 m from the floor and 1 m from the wall where the light fitting is mounted.

### Caring lighting

Virtual examination plane 2 m x 0.9 m located 0.85 m from the floor, centred in width and 0.1 m from the wall.

| LED              | 3 ft module                                                                        | 2 ft module                                                                         | General and reading lighting combined                                                |
|------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|                  |  |  |  |
| Consumption      | 33,2 W                                                                             | 10,8 W                                                                              | 44 W                                                                                 |
| Average lighting | 125 lx                                                                             | 350 lx                                                                              | 379 lx                                                                               |

## Dynamic Lighting



The GOODWOOD architectural concept is available with dynamic lighting.  
For more information, please see page 304.

















**Custom made design** GOODWOOD MOVE's panels are fully personalisable (colours, material, decorative film) to match the decor of any room. In addition, the sliding panel can be installed on the right or on left side of the patient according to the need, or both sides for a maternity room for example.

**Hidden equipment** Medical gas outlets and low and extra low voltage equipment are hidden behind a sliding panel to give a hotel aesthetic to product.

**Custom lighting** Depending on the needs, the GOODWOOD MOVE concept offers different LED lighting solutions: indirect lighting tray and reading spot FLEX-E LED, GOODLIGHT or LYSA wall lighting units.







# GOODWOOD MOVE

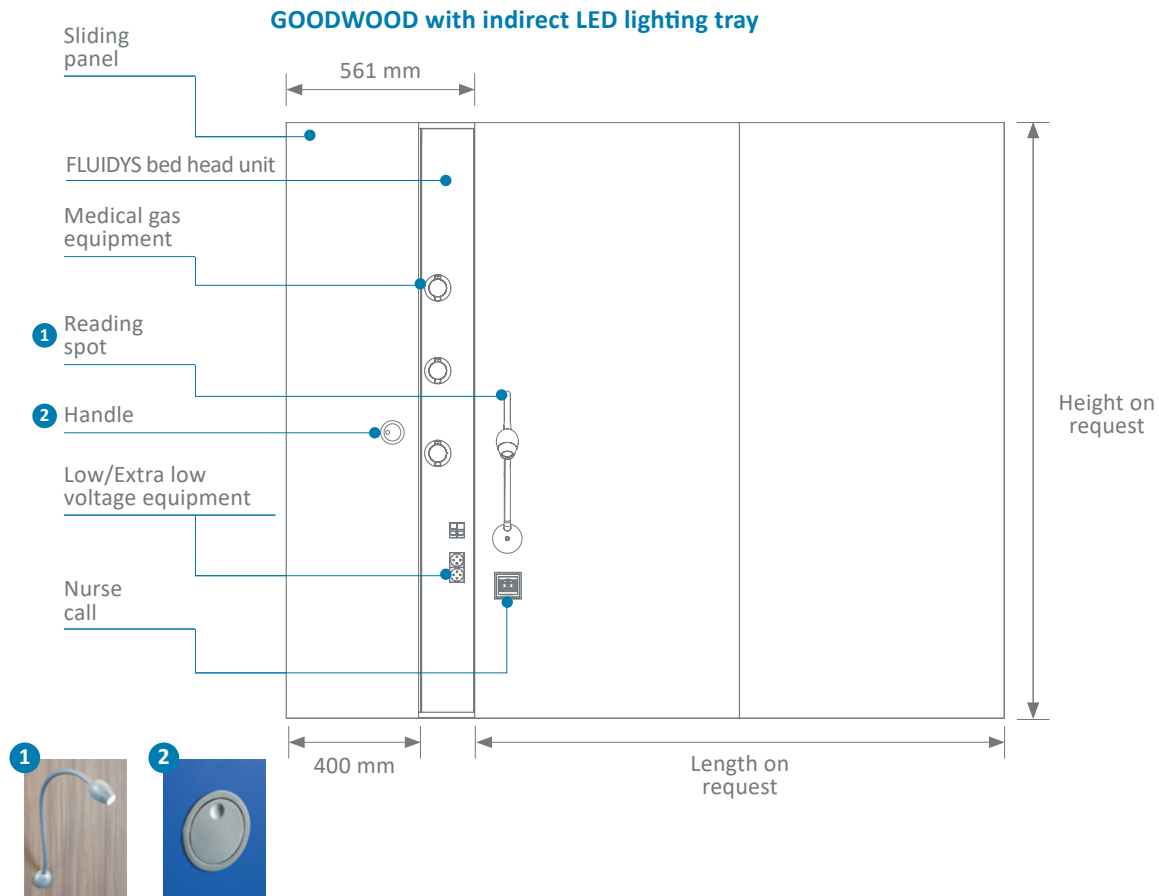


## TECHNICAL FEATURES

GOODWOOD MOVE architectural concept hides electrical equipment and medical gas outlets behind a sliding panel. It brings atmosphere to the hospital room and contributes to the overall aesthetic of the room.

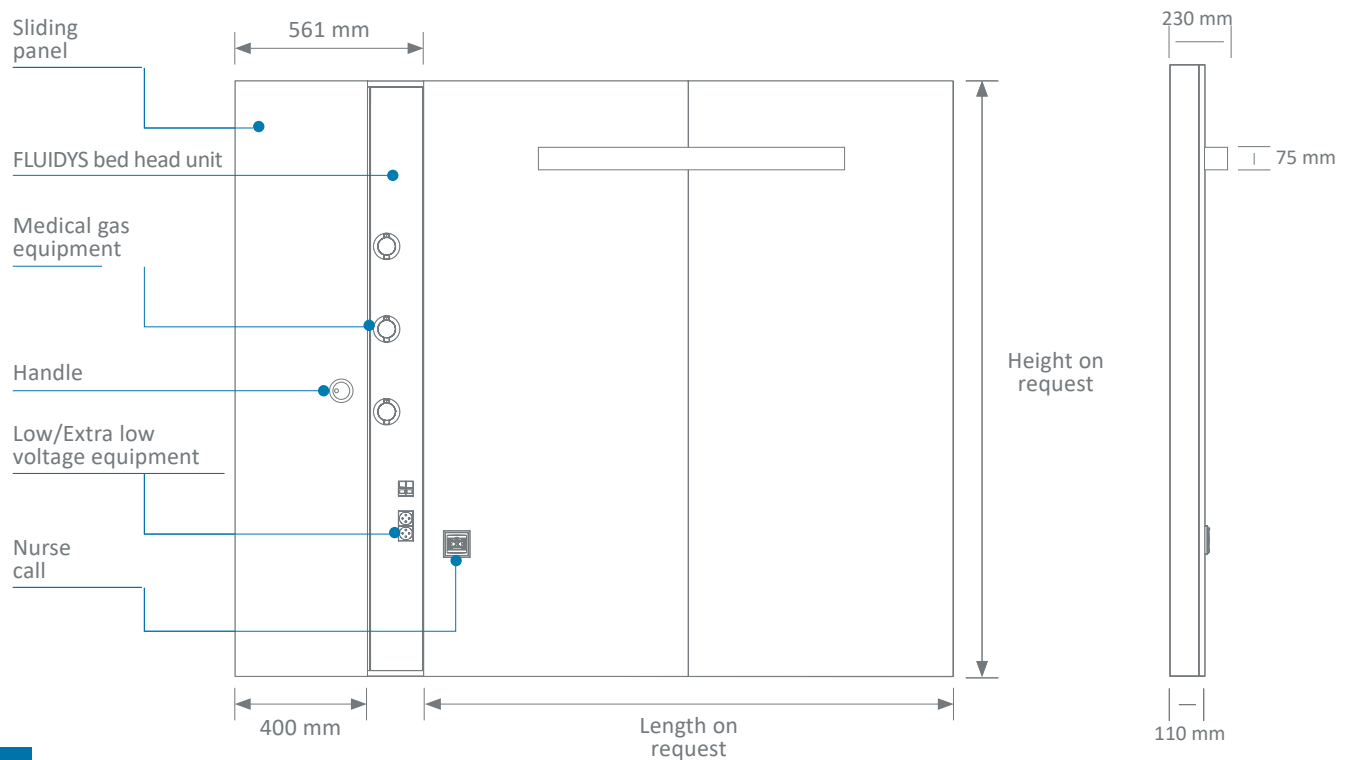
### Configuration

#### Front view



#### Side view

#### GOODWOOD with GOODLIGHT wall lighting unit



See the colors of laminated panels page 302.

### Configuration examples



## CONTROLLED LIGHTING

The GOODWOOD MOVE concept offers comfortable LED lighting.

### GOODWOOD MOVE with GOODLIGHT LED wall lighting unit

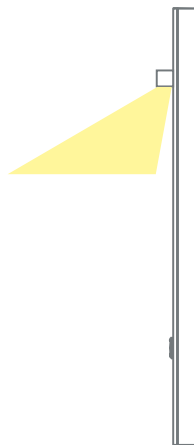
#### General lighting

- Clear satin-finish PMMA\* diffuser with anti-UV treatment
- MIRO 20 SILVER® Aluminum reflector



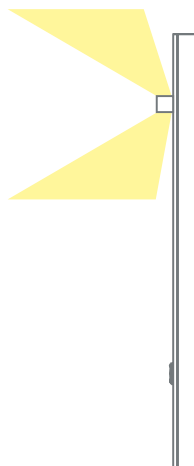
#### Reading lighting

- Satin-finish polycarbonate direct diffuser
- MIRO 20 SILVER® Aluminum reflector



#### Caring lighting

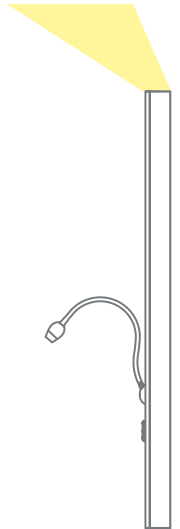
Caring lighting combines direct (reading) and indirect (general) lighting.



### GOODWOOD MOVE with indirect LED lighting tray and FLEX-E LED

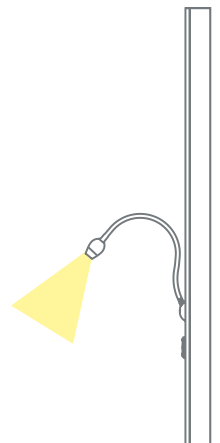
#### General lighting

- Clear polycarbonate diffuser
- Pre-lacquered reflector



#### Reading lighting

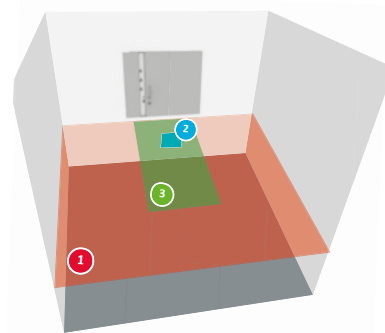
PMMA\* lens



\* PMMA: Polymethyl methacrylate

## Lighting study

- Standard room
- Dimensions of the room: 3 m x 3 m, ceiling clearance 2.5 m
- Reflection coefficients: ceiling 7, walls 5, and floor 3
- Coefficient of depreciation 0.83



### Version

with GOODLIGHT LED  
wall lighting unit

#### General lighting

Virtual general lighting plane of a surface equal to the one of the room, located 0.85 m above the floor (3 m x 3 m for a single room).

#### Reading lighting

Virtual reading plane 0.3 m x 0.3 m inclined at 75° located 1.1 m from the floor and 1 m from the wall where the light fitting is mounted.

#### Caring lighting

Virtual examination plane 2 m x 0.9 m located 0.85 m from the floor, centred in width and 0.1 m from the wall.

| LED              | 3 ft module | 2 ft module | General and reading lighting combined |
|------------------|-------------|-------------|---------------------------------------|
|                  |             |             |                                       |
| Consumption      | 33,2 W      | 10,8 W      | 44 W                                  |
| Average lighting | 125 lx      | 350 lx      | 379 lx                                |

### Lighting power

| Lighting                            | Modules power | Types of sources | Color temperature | Luminous Flux | Consumption | System Efficiency | Driver(s)    |
|-------------------------------------|---------------|------------------|-------------------|---------------|-------------|-------------------|--------------|
| General lighting                    | 28,7 W (3 Ft) | LED              | 3000 K<br>4000 K  | 5039 lm       | 33,2 W      | 151,9 lm/W        | Fixed / DALI |
| General lighting (Dynamic lighting) | 38,9 W (3 Ft) | LED              | 2700 K to 6500 K  | 5000 lm       | 44,9 W      | 111,4 lm/W        | DALI         |
| Reading lighting                    | 8,9 W (2 Ft)  | LED              | 3000 K<br>4000 K  | 1 710 lm      | 10,8 W      | 158,8 lm/W        | Fixed / DALI |
| Night light                         | 1 x 3,1 W     | LED              | 3000 K            | 335 lm        | 4,9 W       | 68,1 lm/W         | Fixed        |

The lighting powers for the LED tray configuration will be available in summer 2021









**Custom design** The MADEIRA is fully customized and can be configured by integrating: door, drawer, and technical equipment (x-ray film viewer, multimedia screen, haemodialysis water purifier, wardrobe, bedside table, etc.).

**Design and ergonomics** Available with a wide choice of materials and colours, to adapt the panels to your needs. The smooth surfaces of the MADEIRA make it easy to clean and disinfect.



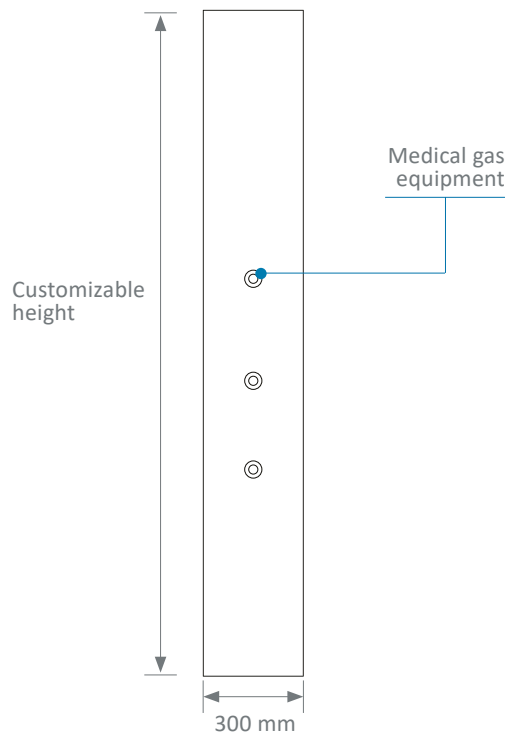


# MADEIRA

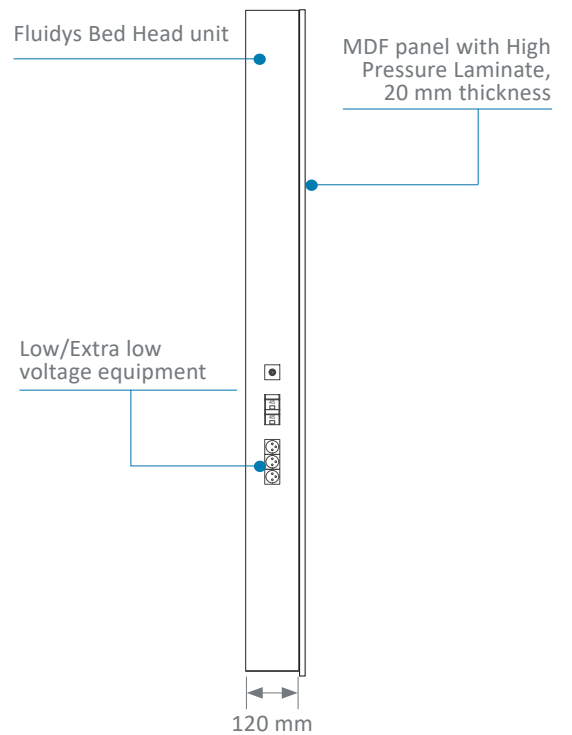


## 1 bed standard configuration

**Front view**

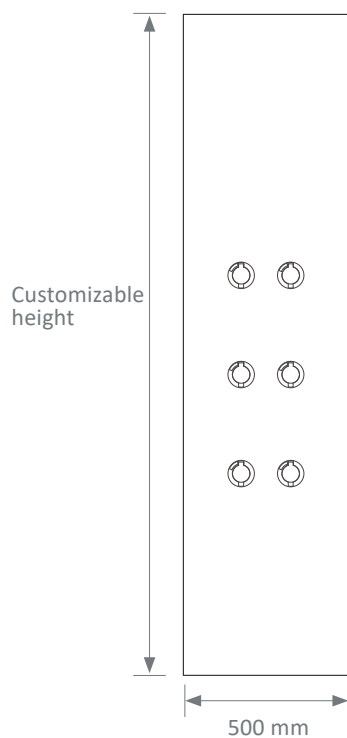


**Side view**

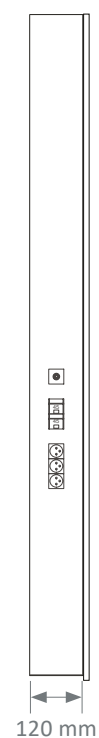


## 2 beds standard configuration

**Front view**



**Side view**



See the colors of laminated panels page 302

### Lighting

Combined with a wall-mounted lighting unit from the TLV range (LINA, LYSA, LUMIA or GOODLIGHT), the concept MADEIRA provides a comfortable, efficient lighting solution to contribute to the well-being of patients and healthcare professionals.

It can optionally be equipped with the following:

A FLEX-E LED reading spotlight on flexible.  
For more information, see page 138.



LED night light built into the  
bottom fitting.



### Optionnal Equipment

The MADEIRA concept is also available in **custom made configuration**. It can incorporate extra low/low voltage devices and medical gas on the front panel or on the sides. If necessary, the side profiles can be equipped with a rail (on the right and/or left-hand side), where biomedical accessories can be fixed.

It can include your choice of technical devices, for example :

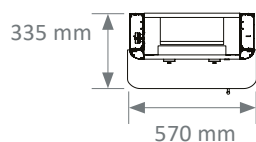
Haemodialysis water purifier



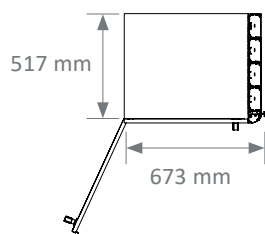


## Example of MADEIRA custom-made configurations

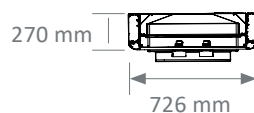
With a bedside table and cabinet in the lower part.



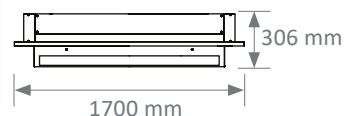
With a cupboard at the top and a wardrobe equipped with safe.



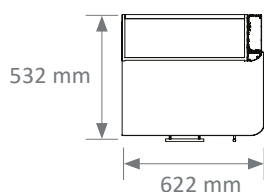
With a haemodialysis water purifier.



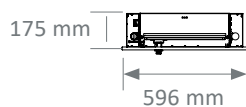
With a wall lighting unit



With upper niches and a bedside table in the lower part, where a fridge can be integrated.



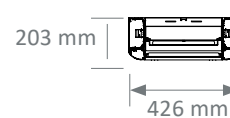
With wood panels covering the electrical distribution profiles.



With steel front panel.



With flush mounted wood panels between the electrical distribution profiles.











**Design and Ergonomics** The frame of ARTIDYS is fully customized with the decoration of your choice. Its aesthetic and technical characteristics provide a discreet, convenient way to make equipment available. This architectural concept can easily be combined with wall lighting units from the TLV range.

**Easy maintenance** The sliding frame mounted on a ball bearing system makes it easy to open for access to the operational devices, which are protected from dust. The built-in distribution unit and its compartments, are separated by independent covers for easy maintenance.





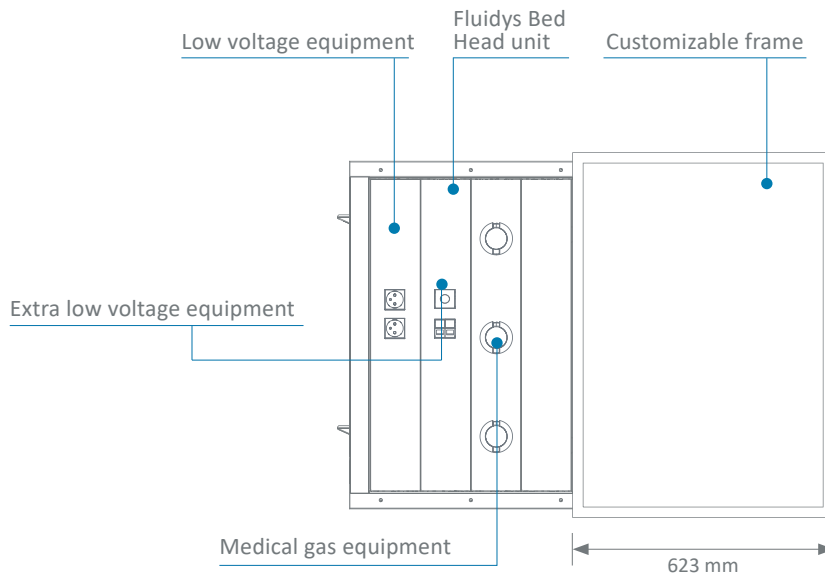


# ARTIDYS

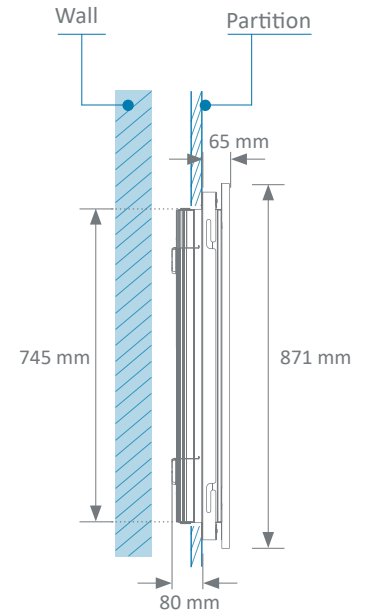
## TECHNICAL FEATURES

The Artidys combines aesthetics and ergonomics to facilitate access to functionalities for care teams.

### Front view

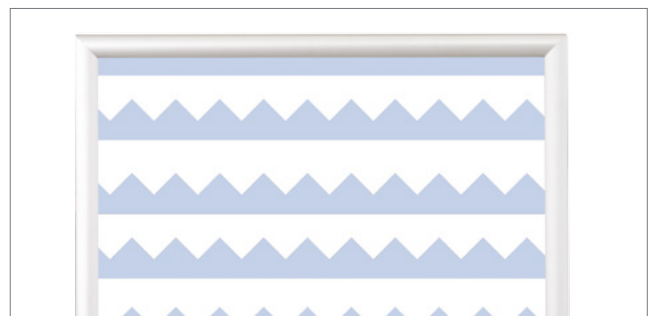
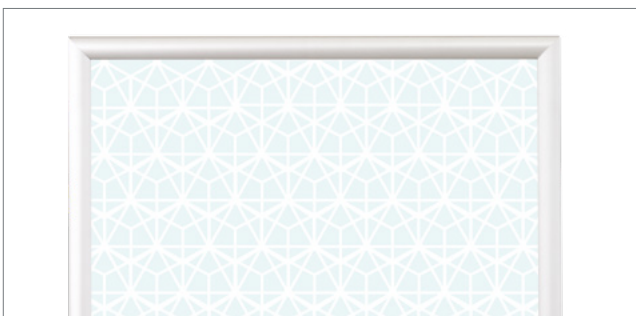
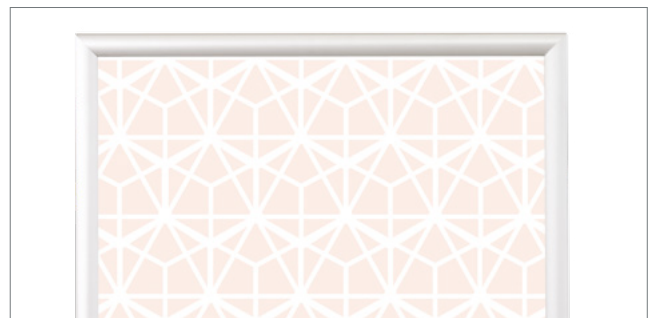


### Side view



### Customisation

The ARTIDYS architectural concept can be customised with your choice of decoration. It therefore blends in perfectly with caring facilities.



Note: These are decoration examples only.

## LIGHTING

---

ARTIDYS architectural concept can easily be combined with wall lighting units from TLV range to offer a discreet and elegant solution for normal care rooms and provide comfort and safety to patients and healthcare professionals.





## NON-MEDICALIZED WALL LIGHTING UNITS

|        |       |
|--------|-------|
| LYSA   | p.48  |
| LINA   | p.108 |
| AVOLYS | p.114 |

## WALL LIGHTING UNITS

|           |       |
|-----------|-------|
| LYSA      | p.120 |
| GOODLIGHT | p.126 |
| LUMIA     | p.132 |



The new LINA wall lighting unit has an elegant design. It is ideal for lighting retirement homes and clinics. Thanks to its built-in electrical devices and its direct and indirect lighting, it satisfies the needs of medical teams and remains comfortable for the patient.

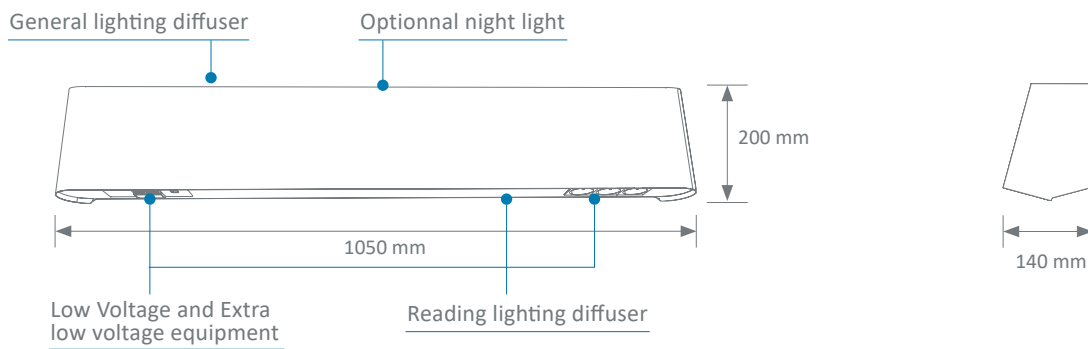




# LINA

## TECHNICAL FEATURES

### Front view



### Colors

|      |                  |
|------|------------------|
|      | GRIS<br>RAL 9007 |
| LINA | ●                |

Other color on request.

### Colors examples

|                                                                                                          |                                                                                                           |                                                                                                       |
|----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
| <br>Blue Pantone 2707 C | <br>Pink Pantone 217 C | <br>Blue RAL 5015  |
| <br>Beige RAL 1013      | <br>Yellow RAL 1018    | <br>Green RAL 6021 |

### Low and extra low voltage equipment

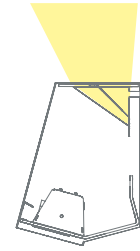
The LINA light fitting meets lighting and electrical distribution requirements of normal care rooms, and can integrate up to six electrical devices (power sockets, call button, switches, etc...).



## CONTROLLED LIGHTING

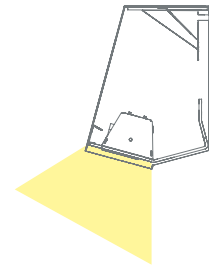
### General lighting

- PMMA\* choc frost opal direct diffuser
- MIRO 20 ® aluminum reflector



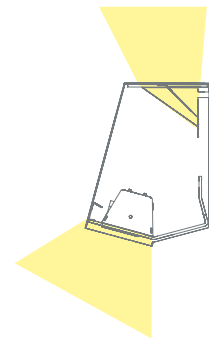
### Reading lighting

- Diffuser made of clear indirect PMMA\*
- MIRO 20 ® aluminum reflector



### Caring lighting

Caring lighting combines direct (reading) and indirect (general) lighting.

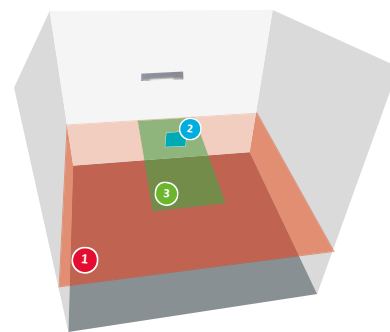


### Lighting power

| Lighting                               | Modules power | Types of sources | Color temperature     | Luminous Flux | Consumption | System Efficiency | Driver(s)    |
|----------------------------------------|---------------|------------------|-----------------------|---------------|-------------|-------------------|--------------|
| General lighting                       | 26,9 W (3 Ft) | LED              | 3 000 K<br>4 000 K    | 4482 lm       | 31,4 W      | 142,6 lm/W        | Fixed / DALI |
| General lighting<br>(Dynamic lighting) | 38,9 W (3 Ft) | LED              | 2 700 K to<br>6 500 K | 5000 lm       | 44,9 W      | 111,4 lm/W        | DALI         |
| Reading lighting                       | 16,1 W (2 Ft) | LED              | 3 000 K<br>4 000 K    | 2716 lm       | 19,8 W      | 137,3 lm/W        | Fixed / DALI |
| Night light                            | 1 x 3,1 W     | LED              | 3 000 K               | 335 lm        | 4,9 W       | 68,1 lm/W         | Fixed        |

## Lighting study

- Standard room
- Dimensions of the room: 3 m x 3 m, ceiling clearance 2.5 m
- Reflection coefficients: ceiling 7, walls 5, and floor 3
- Coefficient of depreciation 0.83



|                  | <b>General lighting</b><br>Virtual general lighting plane of a surface equal to the one of the room, located 0.85 m above the floor (3 m x 3 m for a single room). | <b>Reading lighting</b><br>Virtual reading plane 0.3 m x 0.3 m inclined at 75° located 1.1 m from the floor and 1 m from the wall where the light fitting is mounted. | <b>Caring lighting</b><br>Virtual examination plane 2 m x 0.9 m located 0.85 m from the floor, centred in width and 0.1 m from the wall. |
|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| LED              | <b>3 ft module</b><br>                                                                                                                                             | <b>2 ft module</b><br>                                                                                                                                                | <b>General and reading lighting combined</b><br>                                                                                         |
| Consumption      | 31,4 W                                                                                                                                                             | 19,8 W                                                                                                                                                                | 51,2 W                                                                                                                                   |
| Average lighting | 105 lx                                                                                                                                                             | 304 lx                                                                                                                                                                | 357 lx                                                                                                                                   |

## Dynamic Lighting



The LINIA wall lighting unit is available with dynamic lighting.  
For more information, please see page 304.





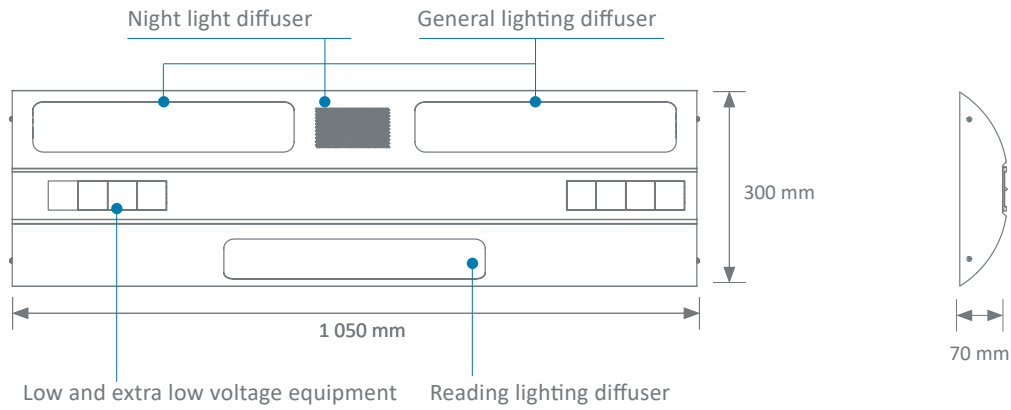
Thanks to its IK08, AVOLYS wall lighting unit is suitable for lighting secure environments such as psychiatric departments, alzheimer units, or prisons. It provides comfortable, high-quality lighting for patients and care teams.





# AVOLYS

## Front view



## Colours

|        |                   |
|--------|-------------------|
|        | White<br>RAL 9016 |
| AVOLYS | ●                 |

## Ergonomics

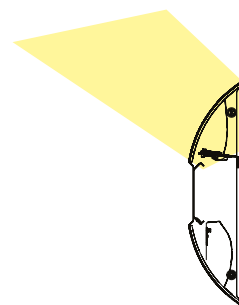
AVOLYS satisfies the lighting and electrical distribution needs of normal care rooms, and can incorporate up to eight electrical accessories.

The wall-mounted lighting unit also impact resistance rating (IK08), providing maximum safety to patients and healthcare professionals working in a secure environment (nursing home, Alzheimer units, specialist hospitals, prisons, and psychiatric departments).



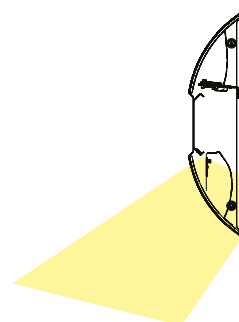
## General lighting

- PMMA \* diffuser
- MIRO 20 SILVER® Aluminum reflector



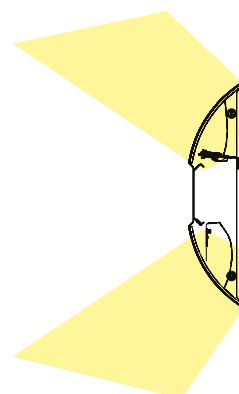
## Reading lighting

- PMMA diffuser
- MIRO 20 SILVER® Aluminum reflector



## Caring lighting

Caring lighting combines direct (reading) and indirect (general) lighting.



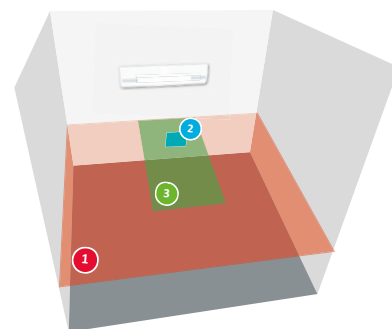
## Lighting power

| Lighting         | Modules power | Types of sources | Colour temperature | Luminous Flux | Consumption | System Efficiency | Driver(s)    |
|------------------|---------------|------------------|--------------------|---------------|-------------|-------------------|--------------|
| General lighting | 22,1 W (2 Ft) | LED              | 3000 K             | 3771 lm       | 25,9 W      | 145,6 lm/W        | Fixed / DALI |
| Reading lighting | 8,4 W (1 Ft)  | LED              | 3000 K             | 1481 lm       | 10,2 W      | 145,1 lm/W        | Fixed / DALI |
| Night light      | 1 x 3,1 W     | LED              | 3000 K             | 335 lm        | 4,9 W       | 68,1 lm/W         | Fixed        |



## Lighting study

- Standard room
- Dimensions of the room: 3 m x 3 m, ceiling clearance 2.5 m
- Reflection coefficients: ceiling 7, walls 5, and floor 3
- Coefficient of depreciation 0.83



|                  | <b>General lighting</b><br>Virtual general lighting plane of a surface equal to the one of the room, located 0.85 m above the floor (3 m x 3 m for a single room). | <b>Reading lighting</b><br>Virtual reading plane 0.3 m x 0.3 m inclined at 75° located 1.1 m from the floor and 1 m from the wall where the light fitting is mounted. | <b>Caring lighting</b><br>Virtual examination plane 2 m x 0.9 m located 0.85 m from the floor, centred in width and 0.1 m from the wall. |
|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| LED              | <b>2 Ft module</b><br>                                                                                                                                             | <b>1 Ft module</b><br>                                                                                                                                                | <b>General and reading lighting combined</b><br>                                                                                         |
| Consumption      | 25,9 W                                                                                                                                                             | 10,2 W                                                                                                                                                                | 36,1 W                                                                                                                                   |
| Average lighting | 78 lx                                                                                                                                                              | 378 lx                                                                                                                                                                | 305 lx                                                                                                                                   |



Available in 3 colors, the LYSA wall lighting unit is ideal for retirement homes and clinics. The pure form and the thinness of LYSA make it discreet in the normal care room. The quality of the light promotes the comfort and well-being of patients and healthcare professionals.

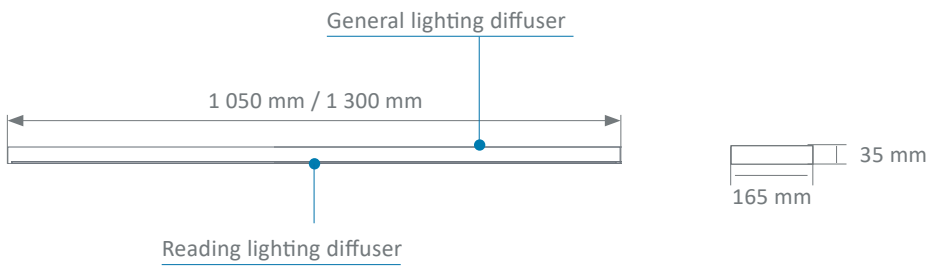




# LYSA

TECHNICAL FEATURES

Front view / Side view



Colours

|      | Grey RAL 9006 | Grey RAL 9007 | White RAL 9016 |
|------|---------------|---------------|----------------|
| LYSA | ●             | ●             | ●              |

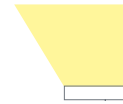




## CONTROLLED LIGHTING

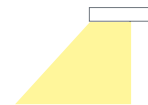
### General lighting

- Clear polycarbonate indirect diffuser
- MIRO 20 Silver® Aluminum reflector



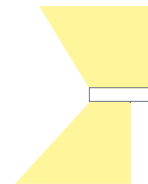
### Reading lighting

- Satin-finish polycarbonate direct diffuser
- MIRO 20 Silver® Aluminum reflector



### Caring lighting

Caring lighting combines direct (reading) lighting with indirect (general) lighting.



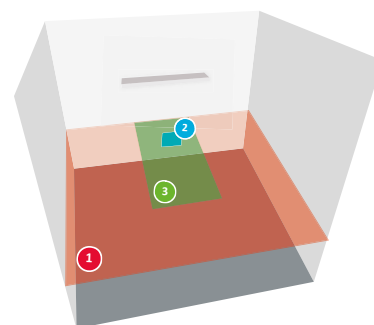
### Lighting power

| Lighting                               | Modules power | Types of sources | Color Temperature   | Luminous Flux               | Consumption | System Efficiency | Driver(s)    |
|----------------------------------------|---------------|------------------|---------------------|-----------------------------|-------------|-------------------|--------------|
| General lighting                       | 28,7 W (3 Ft) | LED              | 3000 K<br>4000 K    | 5039 lm<br>(length 1050 mm) | 33,2 W      | 151,9 lm/W        | Fixed / DALI |
|                                        | 35,3 W (4 Ft) | LED              | 3000 K<br>4000 K    | 6255 lm<br>(length 1300 mm) | 40,8 W      | 153,4 lm/W        | Fixed / DALI |
| General lighting<br>(Dynamic lighting) | 38,9 W (3 Ft) | LED              | 2700 K to<br>6500 K | 5000 lm                     | 44,9 W      | 111,4 lm/W        | DALI         |
|                                        | 47,2 W (4 Ft) | LED              | 2700 K to<br>6500 K | 6200 lm                     | 54 W        | 114,8 lm/W        | DALI         |
| Reading lighting                       | 8,9 W (2 Ft)  | LED              | 3000 K<br>4000 K    | 1710 lm                     | 10,8 W      | 158,8 lm/W        | Fixed / DALI |
| Night light                            | 3,1 W         | LED              | 3000 K              | 335 lm*                     | 4,9 W       | 68,1 lm/W         | Fixed        |

\* Only available for Lysa 1300 mm

## Lighting study

- Standard room
- Dimensions of the room: 3 m x 3 m, ceiling clearance 2.5 m
- Reflection coefficients: ceiling 7, walls 5, and floor 3
- Coefficient of depreciation 0.83



| LED              | <b>General lighting</b><br>Virtual general lighting plane of a surface equal to the one of the room, located 0.85 m above the floor (3 m x 3 m for a single room). | <b>Reading lighting</b><br>Virtual reading plane 0.3 m x 0.3 m inclined at 75° located 1.1 m from the floor and 1 m from the wall where the light fitting is mounted. | <b>Caring lighting</b><br>Virtual examination plane 2 m x 0.9 m located 0.85 m from the floor, centred in width and 0.1 m from the wall. |
|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
|                  | <b>3 Ft module</b><br>                                                                                                                                             | <b>2 Ft module</b><br>                                                                                                                                                | <b>General and reading lighting combined</b><br>                                                                                         |
| Consumption      | 33,2 W                                                                                                                                                             | 10,8 W                                                                                                                                                                | 44 W                                                                                                                                     |
| Average lighting | 125 lx                                                                                                                                                             | 353 lx                                                                                                                                                                | 397 lx                                                                                                                                   |

## Dynamic Lighting



The LYSA wall lighting unit is available with dynamic lighting.  
For more information, please see page 304.



Thanks to its timeless and simple design, GOODLIGHT wall lighting unit is suitable for retirement homes or in addition to an architectural concept in hospital room. It provides comfortable, high-quality lighting for patients and care teams.



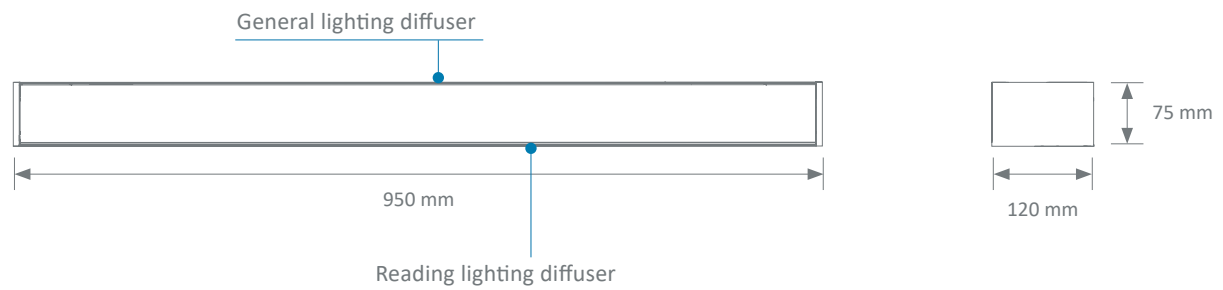


# GOODLIGHT



## TECHNICAL FEATURES

### Back view



### Colours

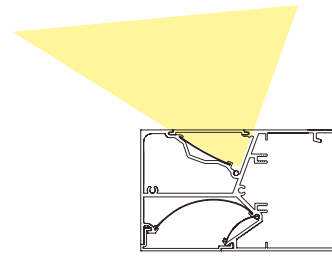
|           | GREY<br>RAL 9006 | GREY<br>RAL 9007 | WHITE<br>RAL 9016 |
|-----------|------------------|------------------|-------------------|
| GOODLIGHT | ●                | ●                | ●                 |



## CONTROLLED LIGHTING

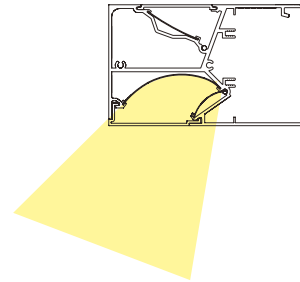
### General lighting

- Clear satin-finish PMMA\* diffuser with anti-UV treatment
- MIRO 20 SILVER® Aluminum reflector



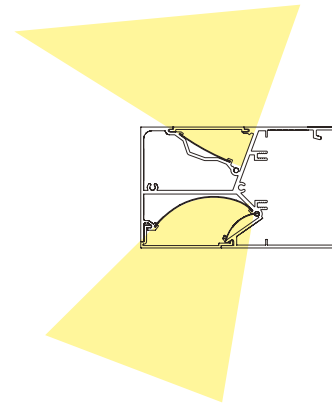
### Reading lighting

- Satin-finish polycarbonate diffuser
- MIRO 20 SILVER® Aluminum reflector



### Caring lighting

Caring lighting combines direct (reading) lighting with indirect (general) lighting.



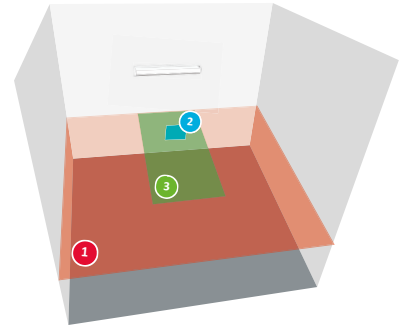
### Lighting power

| Lighting                            | Modules power | Types of sources | Color temperature   | Luminous Flux | Consumption | System Efficiency | Driver(s)    |
|-------------------------------------|---------------|------------------|---------------------|---------------|-------------|-------------------|--------------|
| General lighting                    | 28,7 W (3 Ft) | LED              | 3000 K<br>4000 K    | 5039 lm       | 33,2 W      | 151,9 lm/W        | Fixed / DALI |
| General lighting (Dynamic lighting) | 38,9 W (3 Ft) | LED              | 2700 K to<br>6500 K | 5000 lm       | 44,9 W      | 111,4 lm/W        | DALI         |
| Reading lighting                    | 8,9 W (2 Ft)  | LED              | 3000 K<br>4000 K    | 1710 lm       | 10,8 W      | 158,8 lm/W        | Fixed / DALI |
| Night light                         | 1 x 3,1 W     | LED              | 3000 K              | 335 lm        | 4,9 W       | 68,1 lm/W         | Fixed        |

\* PMMA: Polymethyl methacrylate

## Lighting study

- Standard room
- Dimensions of the room: 3 m x 3 m, ceiling clearance 2.5 m
- Reflection coefficients: ceiling 7, walls 5, and floor 3
- Coefficient of depreciation 0.83



|                  | <b>General lighting</b><br>Virtual general lighting plane of a surface equal to the one of the room, located 0.85 m above the floor (3 m x 3 m for a single room). | <b>Reading lighting</b><br>Virtual reading plane 0.3 m x 0.3 m inclined at 75° located 1.1 m from the floor and 1 m from the wall where the light fitting is mounted. | <b>Caring lighting</b><br>Virtual examination plane 2 m x 0.9 m located 0.85 m from the floor, centred in width and 0.1 m from the wall. |
|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| LED              | 3 ft module<br>                                                                                                                                                    | 2 ft module<br>                                                                                                                                                       | General and reading lighting combined<br>                                                                                                |
| Consumption      | 33,2 W                                                                                                                                                             | 10,8 W                                                                                                                                                                | 44 W                                                                                                                                     |
| Average lighting | 125 lx                                                                                                                                                             | 350 lx                                                                                                                                                                | 379 lx                                                                                                                                   |

## Dynamic Lighting



The GOODLIGHT wall lighting unit is available with dynamic lighting.

For more information, please see page 304.



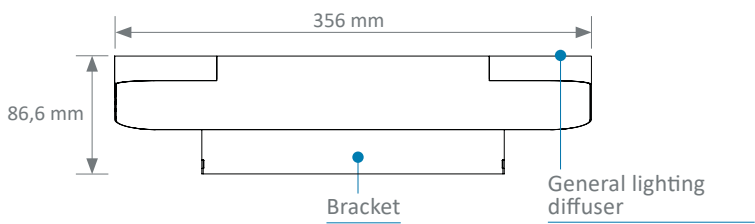
The LUMIA wall lighting unit provides high-performance and comfortable indirect lighting, contributing to the well-being of care teams and patients.



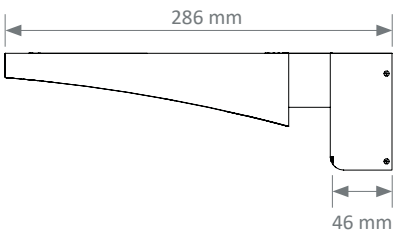


# LUMIA

Front view



Side view



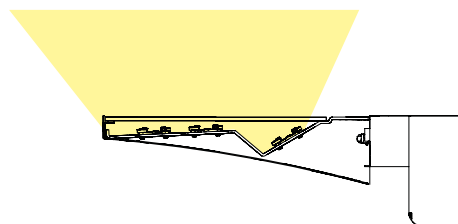
Colours

|       | White<br>RAL 9016 | Grey<br>RAL 9006 |
|-------|-------------------|------------------|
| LUMIA | ●                 | ●                |

## CONTROLLED AND EFFICIENT LIGHTING

### General lighting

- Clear glass diffuser
- Aluminum reflector



### Lighting study

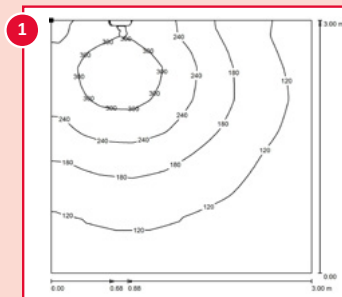
- Standard room
- Dimensions of the room: 3m x 3 m, ceiling clearance 2.5 m
- Reflection coefficients: ceiling 7, walls 5, and floor 3
- Coefficient of depreciation 0.83

### General lighting

Virtual general lighting plane of a surface equal to the one of the room, located 0.85 m above the floor (3 m x 3 m for a single room).

### LED

### Module 3 ft



Consumption

37,6 W

Average lighting

171 lx

### Lighting power

| Lighting         | Modules power | Types of sources | Color Temperature | Luminous Flux | Consumption | System Efficiency | Driver(s)    |
|------------------|---------------|------------------|-------------------|---------------|-------------|-------------------|--------------|
| General lighting | 32,3 W (3 Ft) | LED              | 3000 K<br>4000 K  | 5531 lm       | 37,6 W      | 147,3 lm/W        | Fixed / DALI |





## EXTRA LIGHTING

FLEX-E LED  
NATLYS

p.138  
p.140





# FLEX-E LED



(Fluidys, Madeira, Medissima, Goodwood)



139

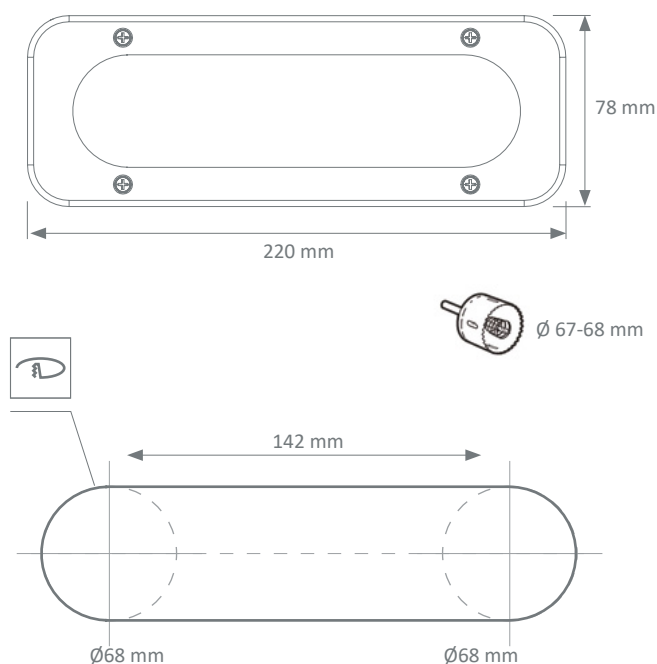


# NATLYS

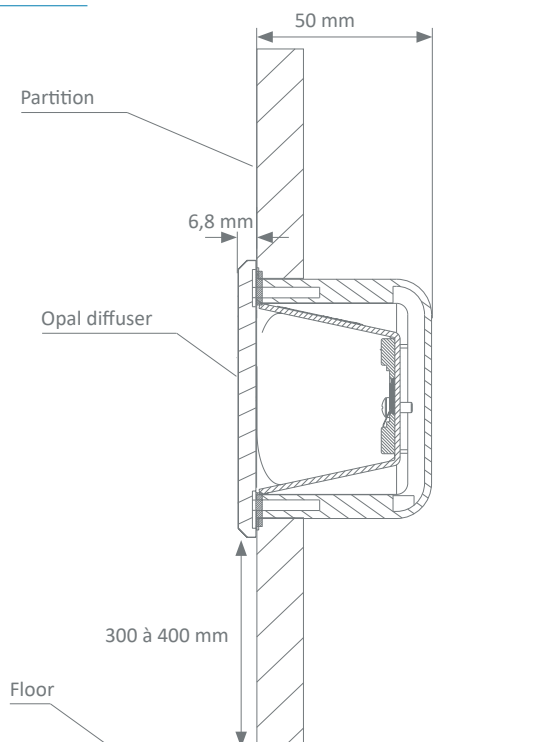
## TECHNICAL FEATURES

NATLYS is a orientation light that allows hospital staff or patients who need to leave their bed during the night to move without disturbing sleeping patients. The orientation light can be installed on plasterboard, plywood or wood panels.

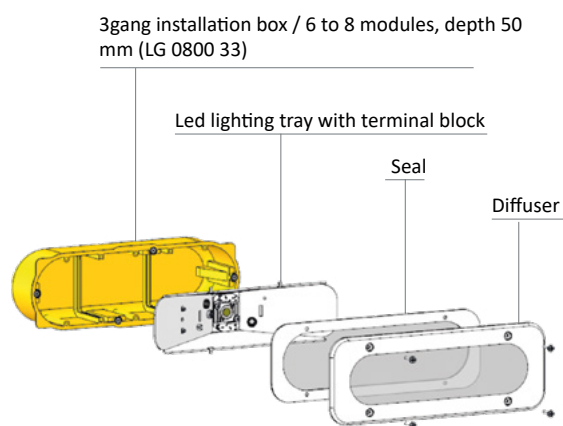
### Front view



### Side view



### Exploded view



### Driver

Fixed

### Standards

Class I 650° IP20 IP65

### Efficiency energy index

A<sup>+</sup>

| Lighting    | Modules power | Type of sources | Colour Temperature | Level of illumination | Consumption | Driver |
|-------------|---------------|-----------------|--------------------|-----------------------|-------------|--------|
| Orientation | 3,1W          | LED             | 3 000 K / 4 000 K  | 335 lm                | 4,9W        | Fixed  |

### Characteristics:

- Power supply: 220 - 240V ~
- Frequency: 50 - 60 Hz
- IK 08 on the front (5 joules)
- Colour : white RAL 9016
- CRI 90
- Light surface 185x45 mm
- IP65 only on the front panel (Secondary IP).

### Standards:

- Complies with EN 60598-1
- DIRECTIVE 2014/35 / EU
- DIRECTIVE 2014/30 / EU





## OT/ICU RESUSCITATION RANGE

Special care bed head units  
Suspended columns  
Suspended beams  
Ceiling pendants  
Sealed lighting





## SPECIAL CARE BED HEAD UNITS

|                               |       |
|-------------------------------|-------|
| MEDICAL GAS CASING            | p.146 |
| SILEA                         | p.152 |
| FLUIDYS (horizontal mounting) | p.156 |
| MULTIDYS                      | p.164 |
| FLUIDYS (vertical mounting)   | p.174 |
| SIMPLE-CARE                   | p.180 |

TLV offers wall-mounted or recessed gas casing for the distribution of medical gases. They are suitable for OT/ICU Resuscitation. ABS / PC medical gas casings are available with flap for AFNOR gas outlets.





# MEDICAL GAS CASING



## ■ WALL-MOUNTED MEDICAL GAS CASING (SILEA AND FLUIDYS PROFILES)

### STANDARD CONFIGURATION

| Number of outlets | Standard dimensions<br>NF / DIN outlets | Standard dimensions<br>BS outlets |
|-------------------|-----------------------------------------|-----------------------------------|
|                   | Length (mm)                             | Length (mm)                       |
| 2                 | 260 mm                                  | 290 mm                            |
| 3                 | 380 mm                                  | 410 mm                            |
| 4                 | 500 mm                                  | 545 mm                            |
| 5                 | 620 mm                                  | 680 mm                            |
| 6                 | 740 mm                                  | 815 mm                            |
| 7                 | 860 mm                                  | 950 mm                            |
| 8                 | 980 mm                                  | 1085 mm                           |

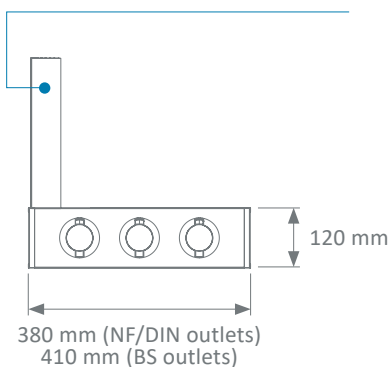
### Colors

|                    | WHITE<br>RAL 9016 | GREY<br>RAL 9006 | GREY<br>RAL 7040 |
|--------------------|-------------------|------------------|------------------|
| Aluminum profile   | ●                 | ●                |                  |
| Medical gas casing | ●                 |                  | ●                |
| End caps           | ●                 |                  | ●                |

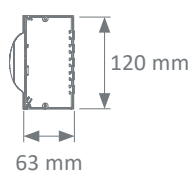
### ■ Horizontal box

#### Front view

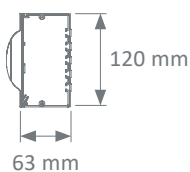
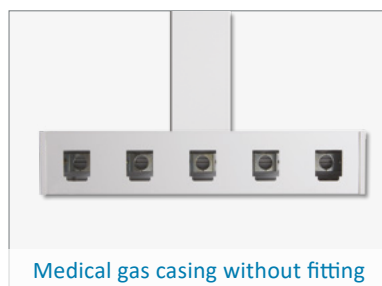
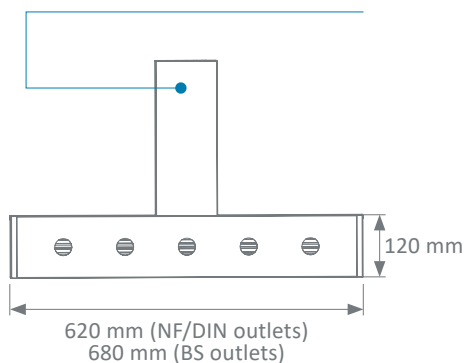
Feeding from the side or central section : 35x63 mm or 120x63mm



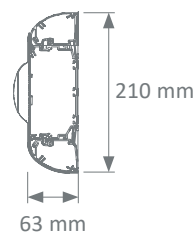
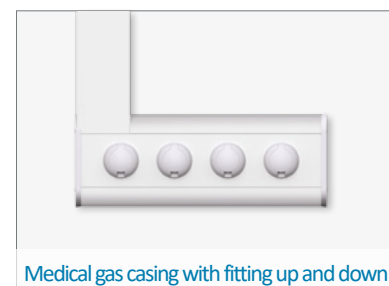
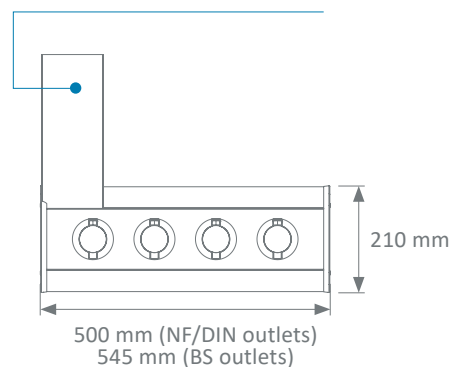
#### Cross-section



Feeding from the side or central section : 35x63 mm or 120x63mm



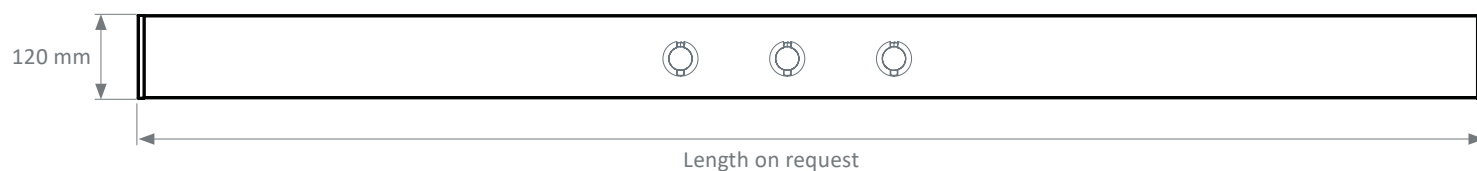
Feeding from the side or central section : 120x63 mm



## CUSTOM MADE CONFIGURATION

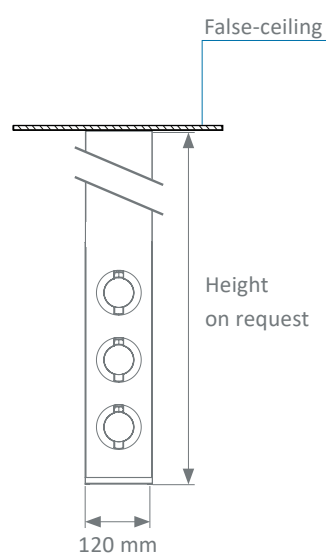
### ■ Horizontal unit

#### Front view

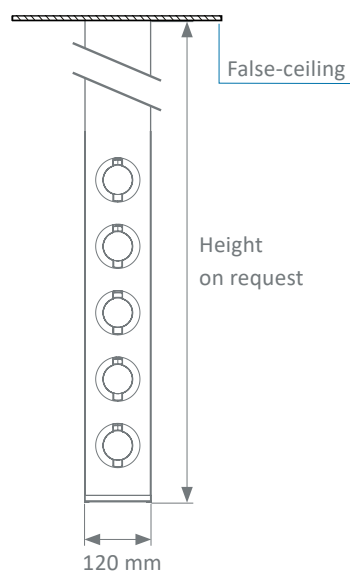


### ■ Vertical unit

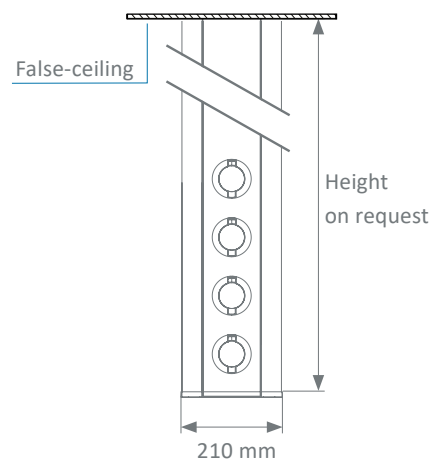
#### Front view



Medical gas casing without fitting

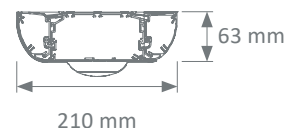
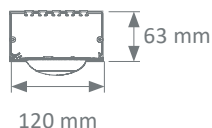
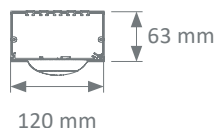


Medical gas casing without fitting



Medical gas casing with fitting

#### Cross-section



## ■ RECESSED MEDICAL GAS CASING

### Colors

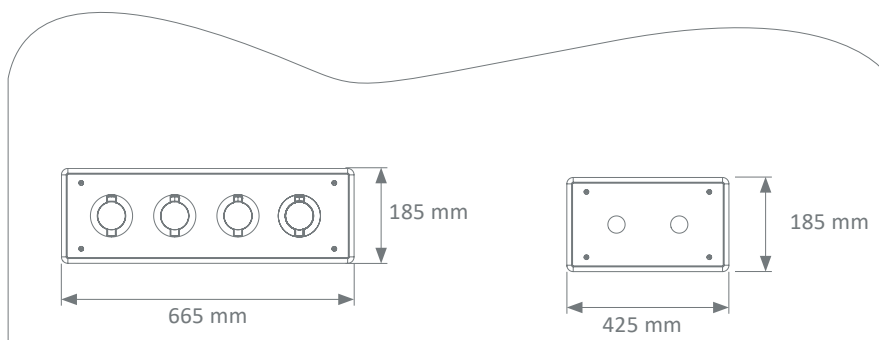
|                    | WHITE<br>RAL 9016 | GREY<br>RAL 9006 | GREY<br>RAL 7040 | Other<br>RAL  |
|--------------------|-------------------|------------------|------------------|---------------|
| Front panel        | ●                 | ●                |                  | Consult<br>us |
| Medical gas casing | ●                 |                  | ●                |               |

Standard dimensions - NF / DIN / BS outlets

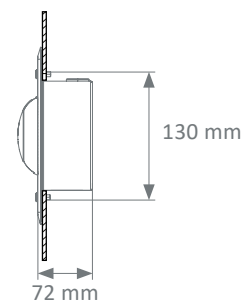
| Number of outlets | Front panel overall dimensions<br>L x W x D (mm) | Recessed cut out<br>L x W (mm) |
|-------------------|--------------------------------------------------|--------------------------------|
| 2                 | 425 x 185 x 72 mm                                | 370 x 130 mm                   |
| 3                 | 545 x 185 x 72 mm                                | 490 x 130 mm                   |
| 4                 | 665 x 185 x 72 mm                                | 610 x 130 mm                   |
| 5                 | 785 x 185 x 72 mm                                | 730 x 130 mm                   |
| 6                 | 905 x 185 x 72 mm                                | 850 x 130 mm                   |
| 7                 | 1025 x 185 x 72 mm                               | 970 x 130 mm                   |
| 8                 | 1145 x 185 x 72 mm                               | 1090 x 130 mm                  |

## ■ Horizontal box

### Front view



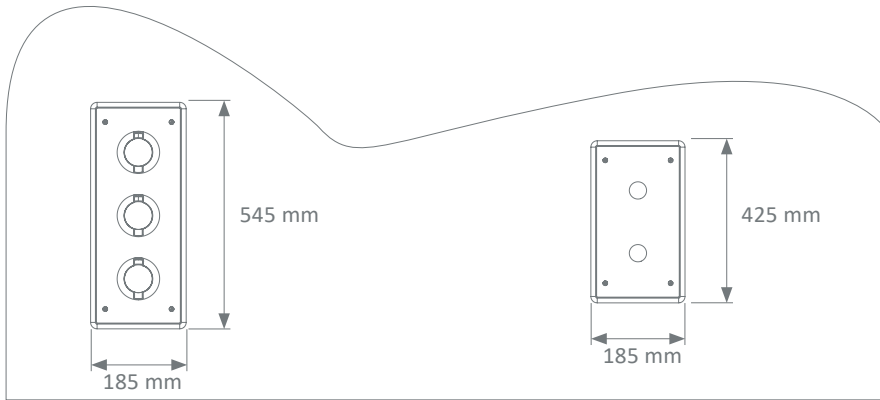
### Cross-section



\* NB : The installation company may re-inforce the plaster wall when the solution is recessed

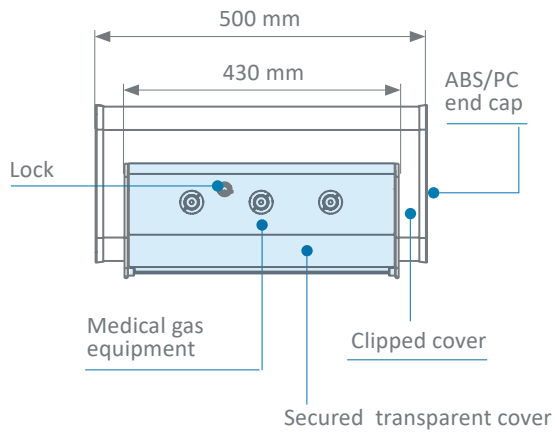
## ■ Vertical box

### Front view

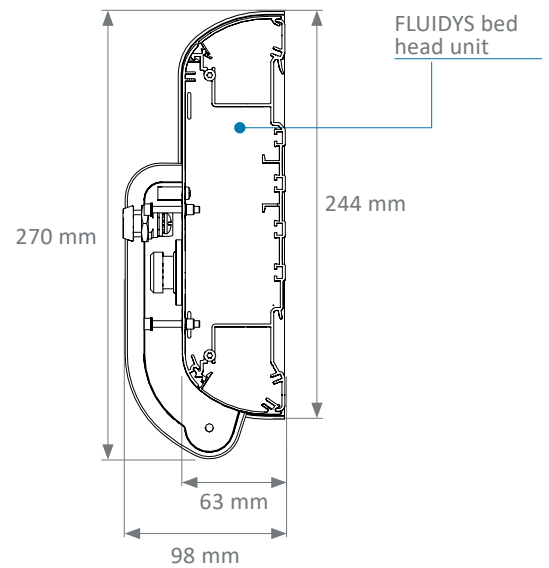


## ■ SECURED MEDICAL GAS CASING

### Front view



### Cross-section



The medical gas casing has a specific cover secured by key for medical gas. Made of PMMA (Polymethyl methacrylate), the transparent cover is resistant and can be adapted to environments which require a maximum security. It has a high impact resistance rating IK 07.

The SILEA special care bed head unit adapts to requirements of health professionals. It is available in horizontal or vertical version. It enables an easy access to electrical and medical gas equipment. The SILEA is suitable for intensive care or recovery room.



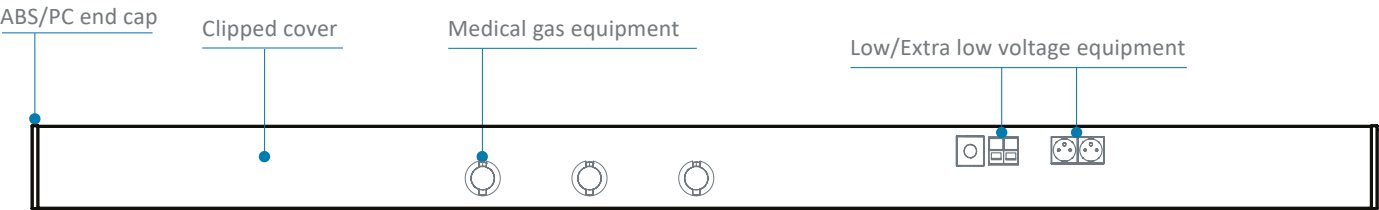




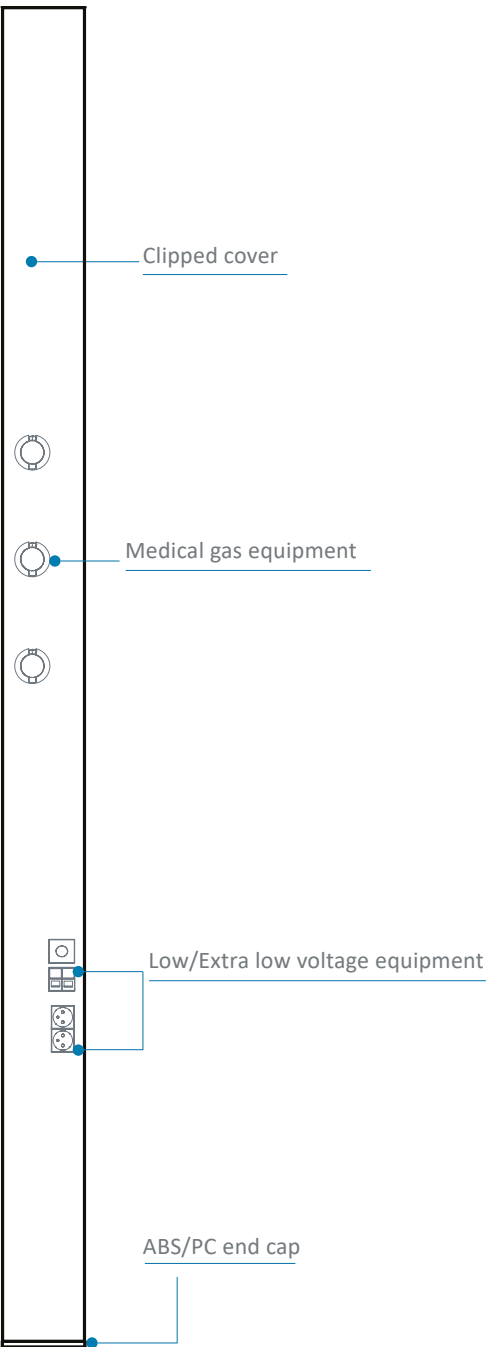
# SILEA

Front view

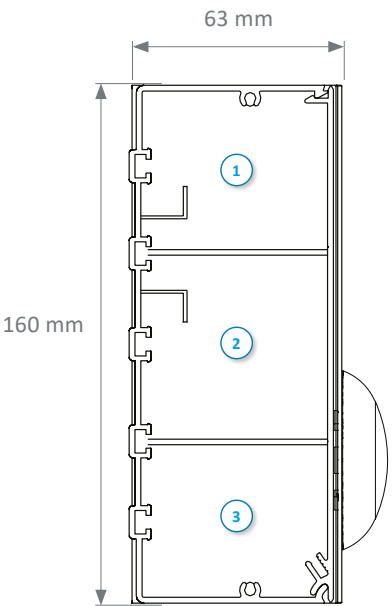
SILEA (horizontal)



SILEA (vertical)



Cross-section



- 1 Extra low voltage compartment
- 2 Low voltage compartment
- 3 Medical gas compartment

Colors

|                  | White<br>RAL 9016 | Grey<br>RAL 9006 | Grey<br>RAL 7040 |
|------------------|-------------------|------------------|------------------|
| Aluminum profile | ●                 | ●                |                  |
| Gas casing       | ●                 |                  | ●                |
| End caps         | ●                 |                  | ●                |



The horizontal FLUIDYS bed head unit was designed to be ergonomic and user-friendly for healthcare professionals. It is perfect for intensive care units or recovery rooms. Custom-made, it enables flexibility and modularity equipment to match of the healthcare teams needs. All functionality are grouped into one system: medical gas equipment, low and extra low voltage equipment, lighting (optional) or accessory mounting rail (optional).

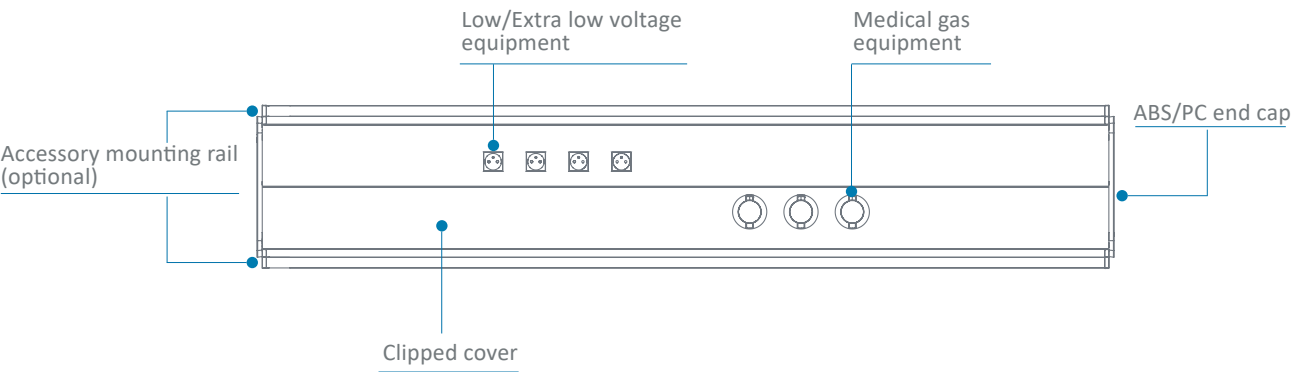




# FLUIDYS

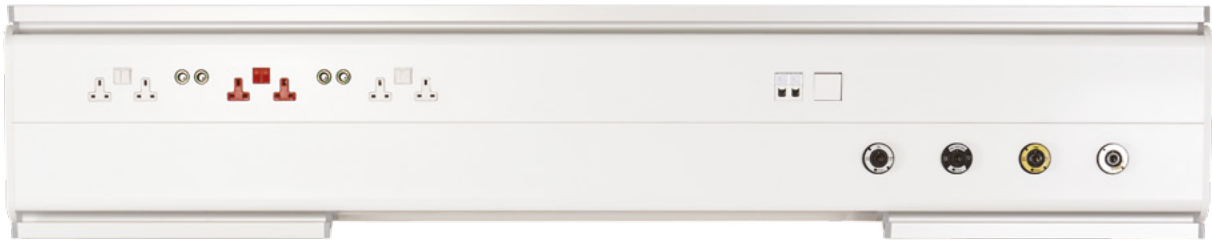


Front view



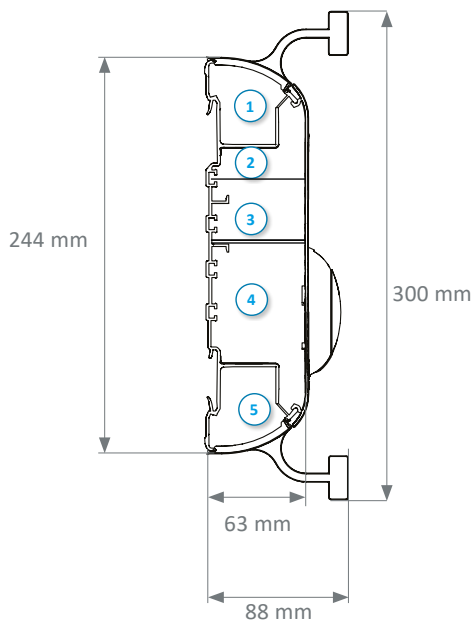
Colors

|                  | White<br>RAL 9016 | Grey<br>RAL 7040 | Grey<br>RAL 9006 | Anodized |
|------------------|-------------------|------------------|------------------|----------|
| Aluminum profile | ●                 |                  | ●                |          |
| End caps         | ●                 | ●                |                  |          |
| Gas casing       | ●                 | ●                |                  |          |
| Rail(s)          |                   |                  |                  | ●        |

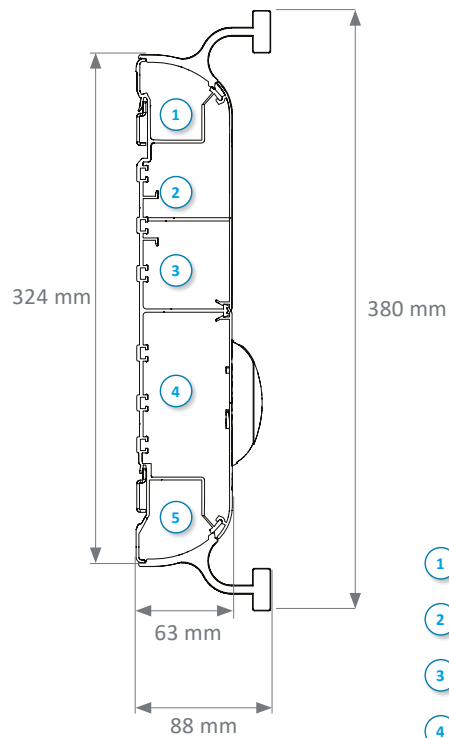


## Cross-section

**Fluidys Mono**

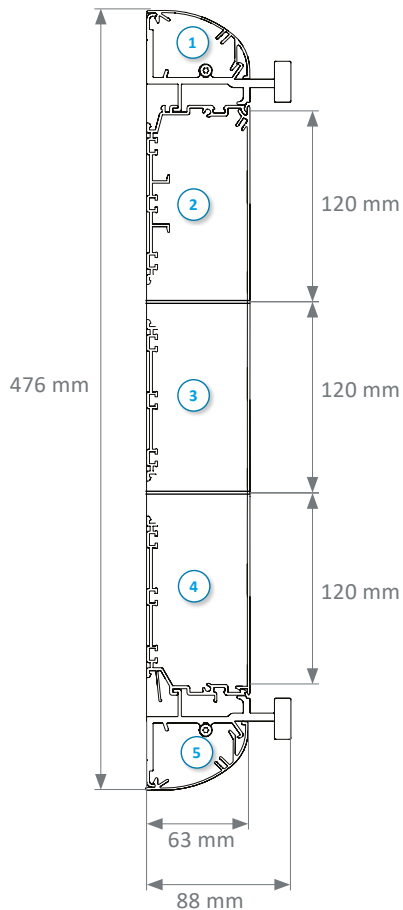


**Fluidys Duo**

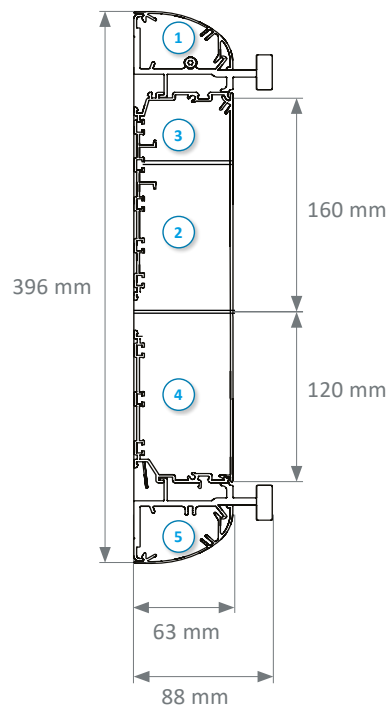


- ① General lighting compartment
- ② Extra low voltage compartment
- ③ Low voltage compartment
- ④ Medical gas compartment
- ⑤ Reading lighting compartment

**Fluidys 3 x 120**



**Fluidys 160 + 120**

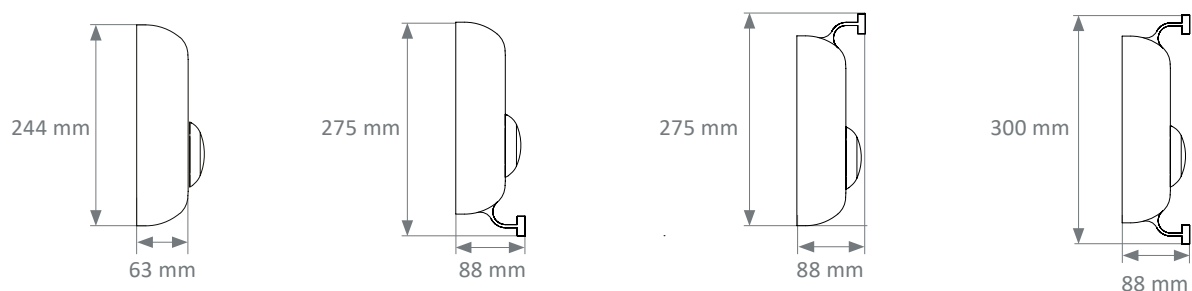


The Fluidys is available in monobloc or multiprofiles.  
See the various version offered on page 160.

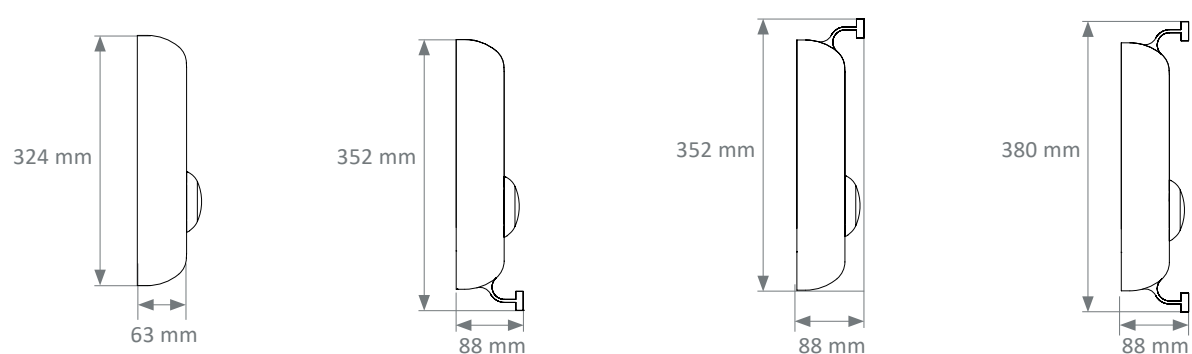
## CONFIGURATIONS

### Configuration examples

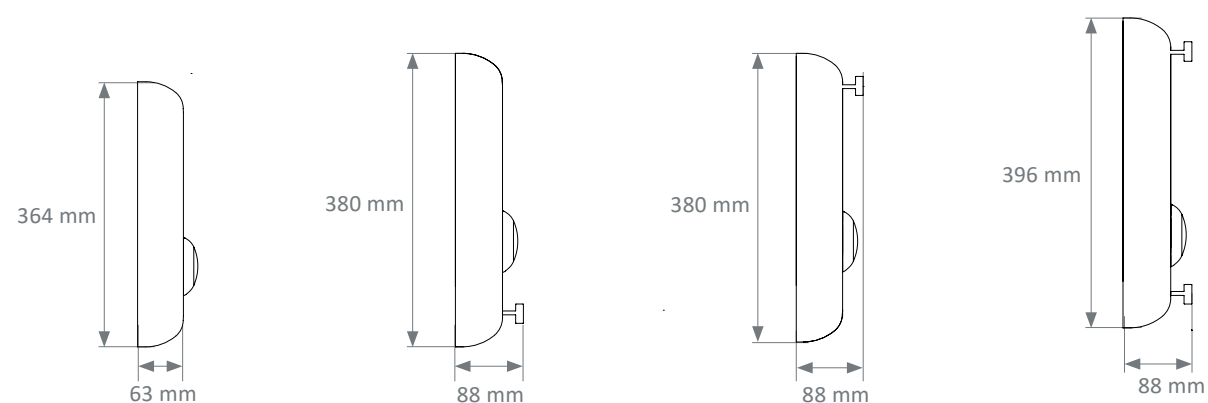
#### Fluidys Mono\*



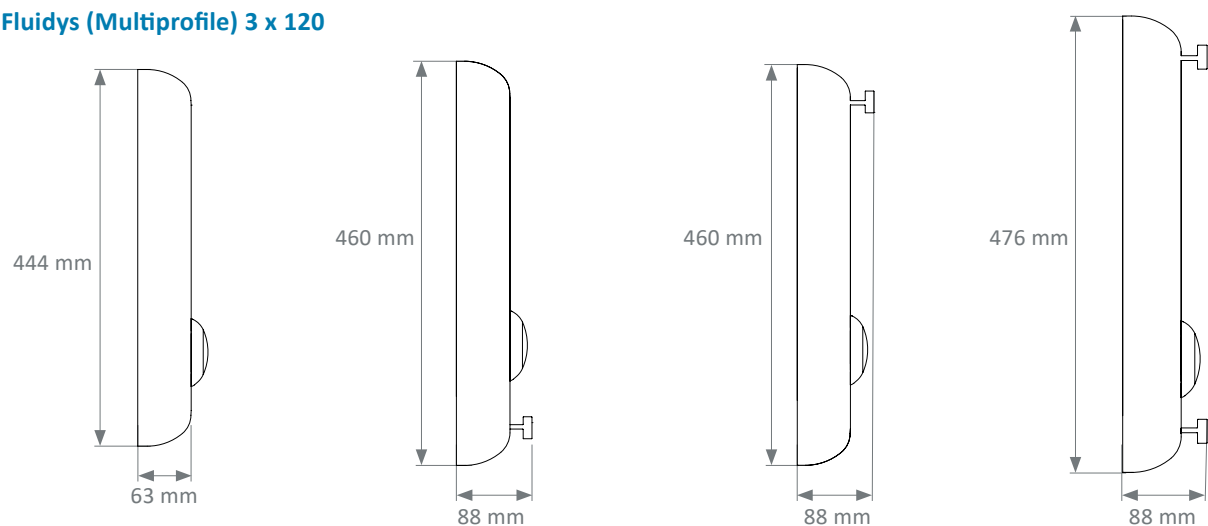
#### Fluidys Duo \*



#### Fluidys (Multiprofile) 160 + 120



#### Fluidys (Multiprofile) 3 x 120



\* In case of integrated light, when the unit has an upper and/or lower rail, the rails can not be continuous.

## EQUIPMENT

### Rail(s)

The accessory mounting rails can accommodate several pieces of biomedical equipment. Loading capacity: upper rail 50 kg /m and lower rail 20 kg /m.

### Trolley(s)

The sliding trolleys with  $\varnothing$  38 mm stainless steel tubes are used to carry shelves and drawers with a loading capacity of 90 kg.

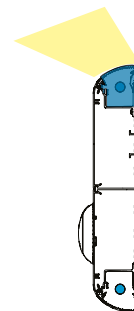


## CONTROLLED LIGHTING

The FLUIDYS horizontal special care bed head unit allows the option of integrating indirect and/or direct lighting, with or without rail.

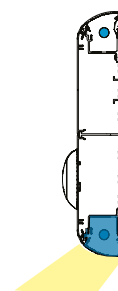
### General lighting

- Extruded polycarbonate diffuser
- MIRO 20 SILVER® aluminum reflector



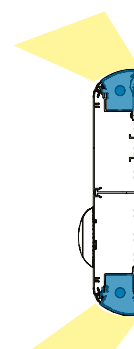
### Reading lighting

- Extruded polycarbonate diffuser
- MIRO 20 SILVER® aluminum reflector



### Caring lighting

Caring lighting combines direct (reading) lighting with indirect (general) lighting.



### Lighting power\*\*

| Lighting                            | Modules power | Types of sources | Color temperature | Luminous Flux | Consumption | System Efficiency | Driver(s)    |
|-------------------------------------|---------------|------------------|-------------------|---------------|-------------|-------------------|--------------|
| General lighting                    | 35,9 W (4 Ft) | LED              | 3000 K<br>4000 K  | 5965 lm       | 42,2 W      | 141,4 lm/W        | Fixed / DALI |
|                                     | 44,3 W (5 Ft) | LED              | 3000 K<br>4000 K  | 7390 lm       | 51,1 W      | 143,6 lm/W        | Fixed / DALI |
| General lighting (Dynamic lighting) | 54,8 W (5 Ft) | LED              | 2700 K to 6500 K  | 7300 lm       | 62,4 W      | 117 lm/W          | DALI         |
| Reading lighting                    | 16,1 W (2 Ft) | LED              | 3000 K<br>4000 K  | 2581 lm       | 19,8 W      | 130,5 lm/W        | Fixed / DALI |
| Night light                         | 1 x 3,1 W     | LED              | 3000 K            | 335 lm        | 4,9 W       | 68,1 lm/W         | Fixed        |





The recessed Multidys solution provides ideally extra low, low voltage and gases. It particularly suits the needs of the caring personnel.

In Operating Theatre this device can be used in addition to the TECH-CARE pendants.





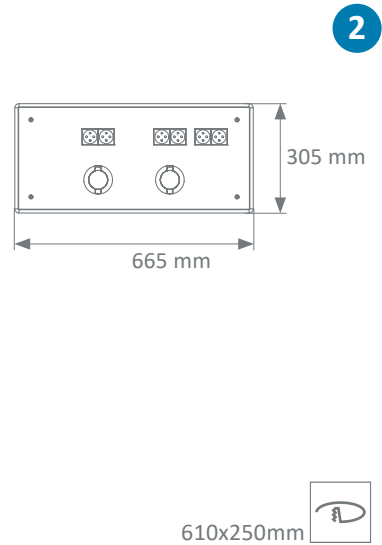
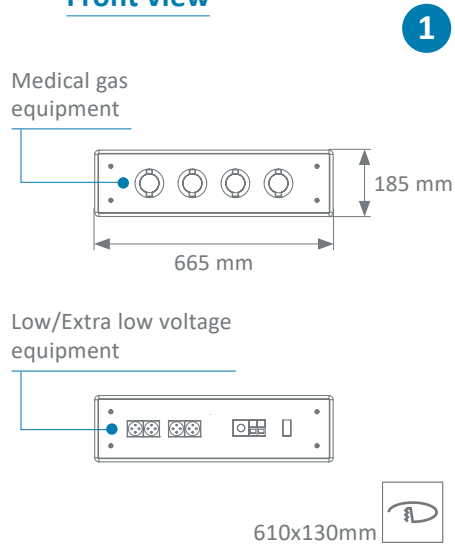
# MULTIDYS RANGE

## ■ TECHNICAL CHARACTERISTICS

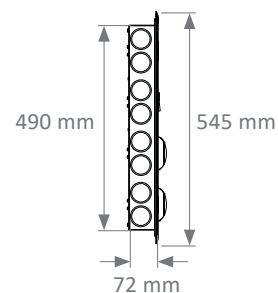
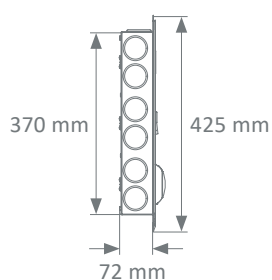
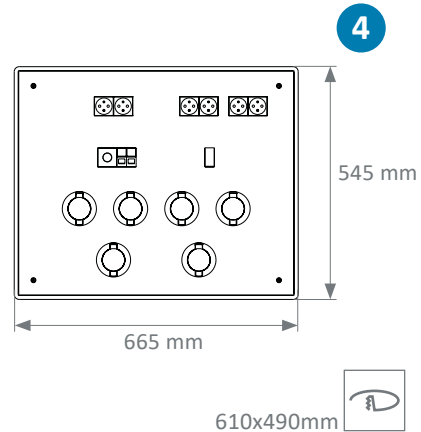
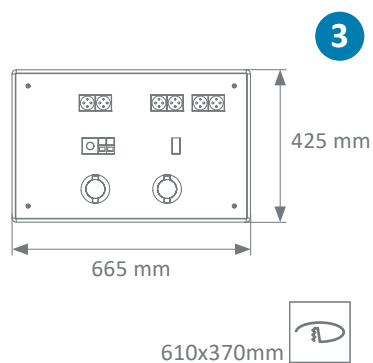
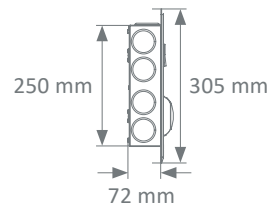
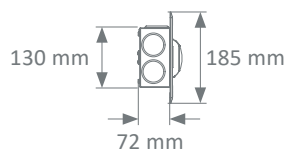
The recessed Multidys solution provides ideally extra low, low voltage and gases. It particularly suits the needs of the caring personnel.

In Operating Theatre this device can be used in addition to the TECH-CARE pendants.

### Front view

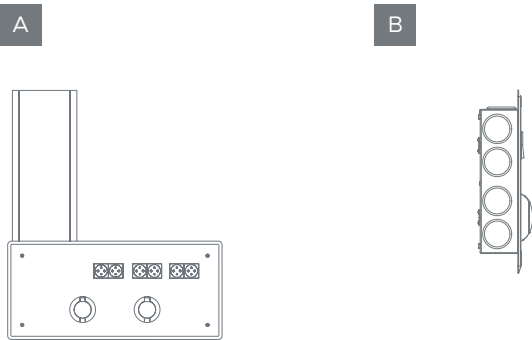


### Cross-section



Supplies

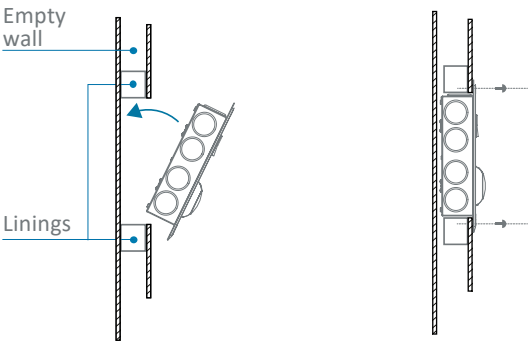
- MULTIDYS is designed to be fed :
- From the ceiling, via a flush mounted duct (A)
  - From the side, via two or three supplies per channels (B)



Installation

Because it is quick and easy to recess into the wall, the bed head unit saves time and labor.

The installation company is required to provide linings on the partition for MULTIDYS installation.



Colors

|                                                      | WHITE - RAL 9016 | GREY - RAL 9006 | GREY - RAL 7040 |
|------------------------------------------------------|------------------|-----------------|-----------------|
| Standard Aluminium cover                             | ●                | ●               |                 |
| Medical gas casing (only if French type gas outlets) | ●                |                 | ●               |

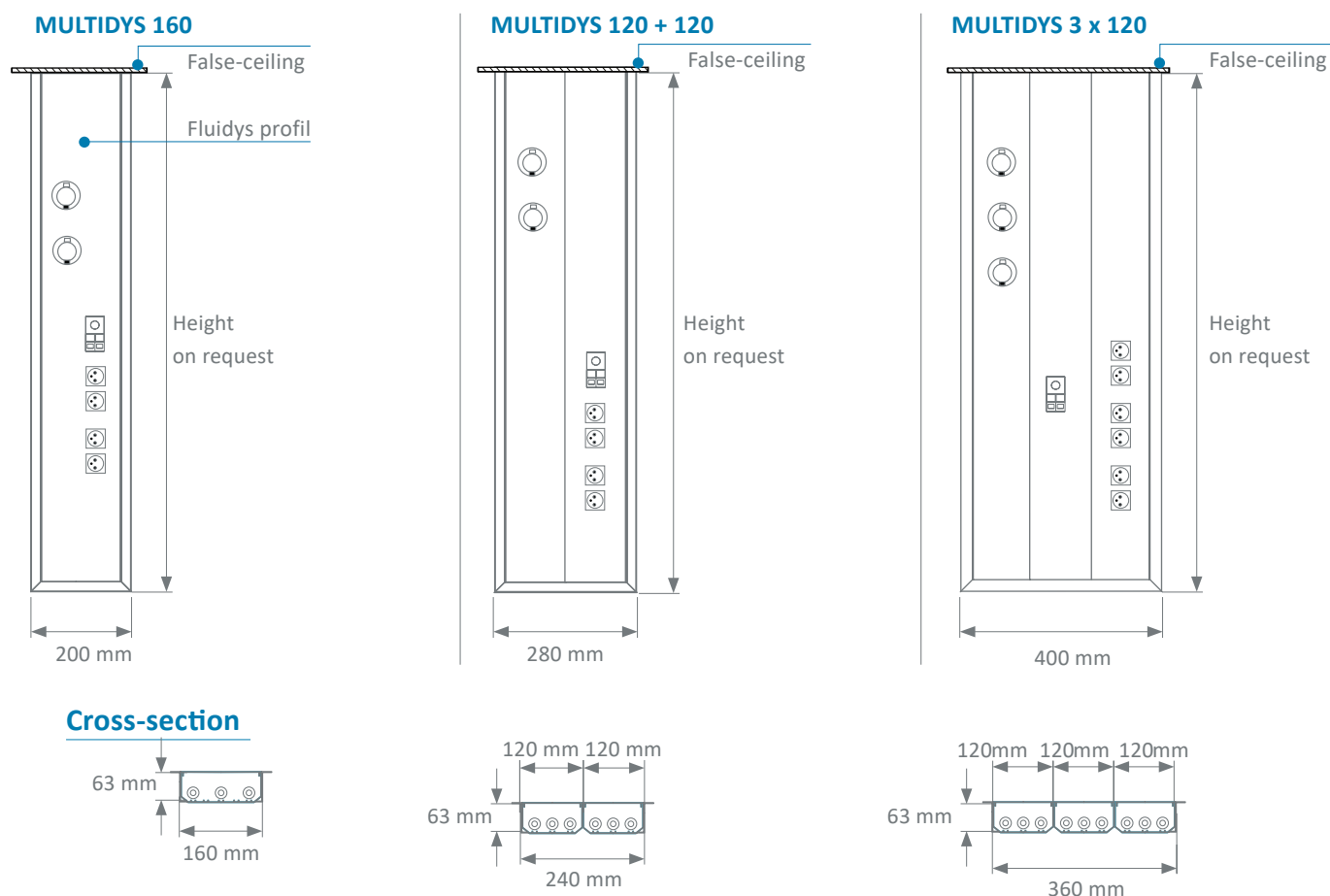




# CUSTOMIZABLE MULTIDYS BED HEAD UNITS

## ■ TECHNICAL CHARACTERISTICS

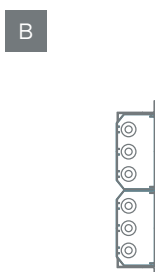
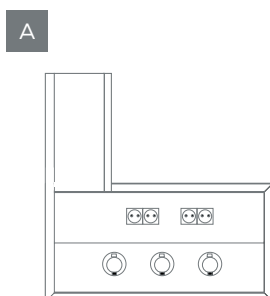
All configurations are available in horizontal version.



### Supplies

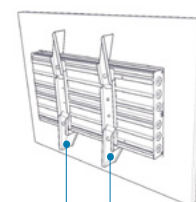
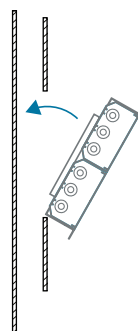
MULTIDYS is designed to be fed :

- From the ceiling, via a flush mounted duct (A)
- From the side, via three supplies per channel (B)



### Installation

Because it is quick and easy to recess into the wall, the bed head unit saves time and labor.



Stretcher (optional)

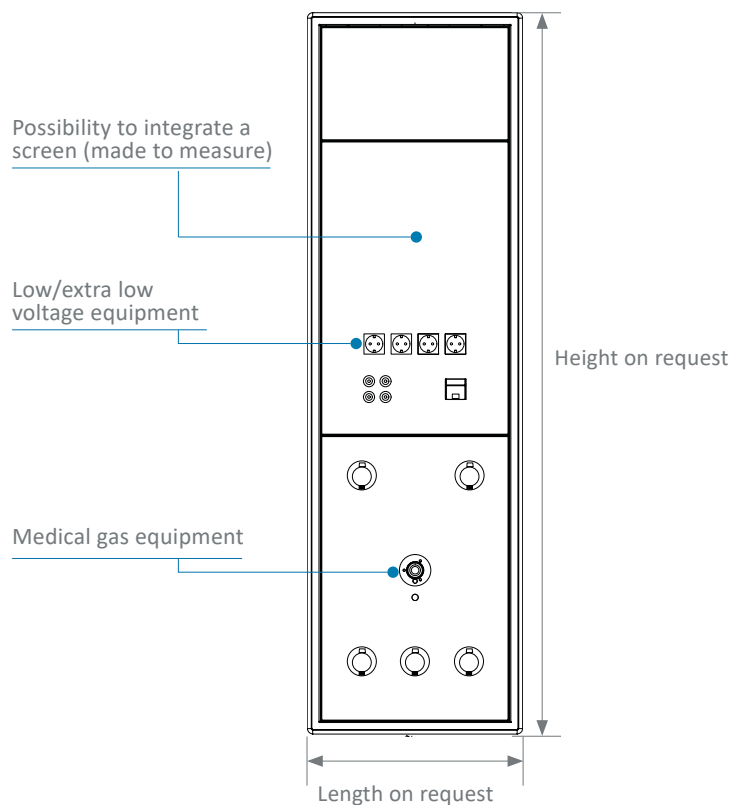
### Colors

|                                  | WHITE - RAL 9016 | GREY - RAL 9006 | GREY - RAL 7040 |
|----------------------------------|------------------|-----------------|-----------------|
| Custom made cover                | ●                | ●               |                 |
| Medical gas casing (french type) | ●                |                 | ●               |

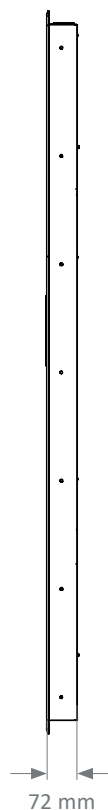


## ■ TECHNICAL CHARACTERISTICS

### Front view



### Side cross-section



### Top cross-section

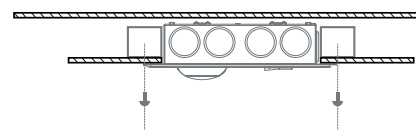
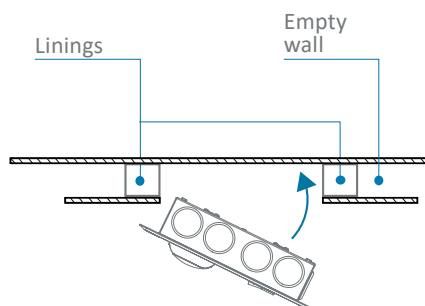


The MULTIDYS panel is custom-made. Manufactured in stainless steel or powder coated steel RAL 9016, it enables the distribution of low, extra low voltage and medical gases.

The product is recessed in the partition. A minimum depth of 72 mm is required.

### Installation

Quick and easy to recess into the wall, the bed head unit will allow to save time and labor. The installation company is required to provide linings on the partition for MULTIDYS installation.











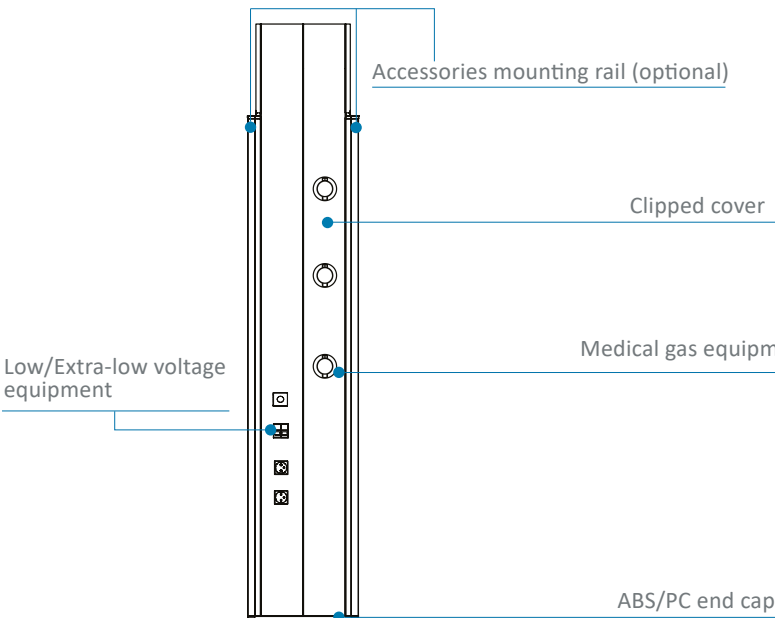
FLUIDYS special care bed head unit is suitable for intensive care units or recovery rooms. Custom-made it enable flexibility and modularity equipment to match to the healthcare teams needs. All functionality are grouped into one system: medical gas equipment, low and extra-low voltage equipment or accessories mounting rail (optional).



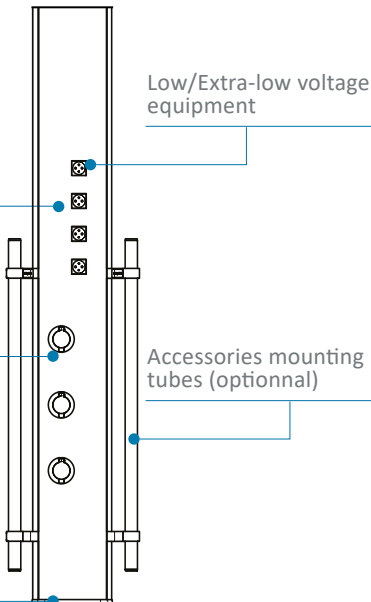
# FLUIDYS

Front view

Fluidys Duo with rails



Fluidys Mono with tubes



Coloris

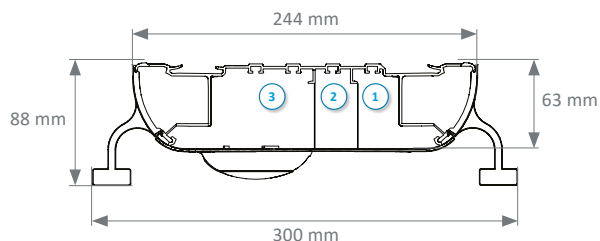
|                  | WHITE<br>RAL 9016 | GREY<br>RAL 7040 | GREY<br>RAL 9006 | ANODIZED | STAINLESS<br>STEEL |
|------------------|-------------------|------------------|------------------|----------|--------------------|
| Aluminum profile | ●                 |                  | ●                |          |                    |
| End caps         | ●                 | ●                |                  |          |                    |
| Gas casings      | ●                 | ●                |                  |          |                    |
| Rail(s)          |                   |                  |                  | ●        |                    |
| Tube(s)          |                   |                  |                  |          | ●                  |

The accessories mounting rails or tubes can accommodate several pieces of biomedical equipment including tray and drawer units. Their loading capacity is 100 kg (for each rail).

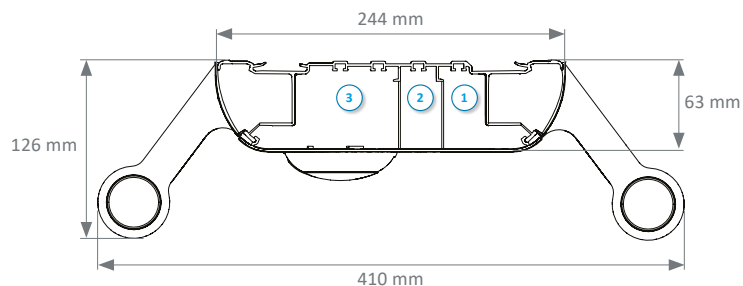


## Cross-section

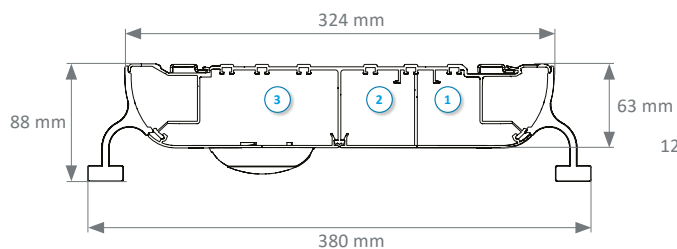
**Fluidys Mono (Rails)**



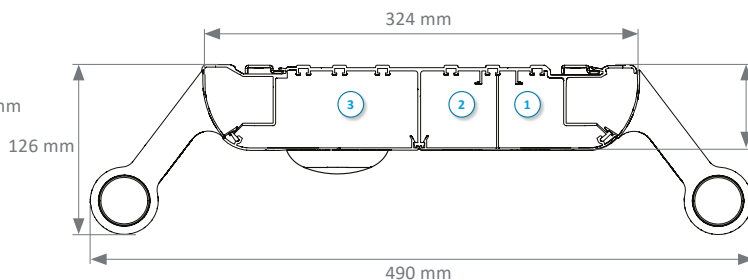
**Fluidys Mono (Tubes)**



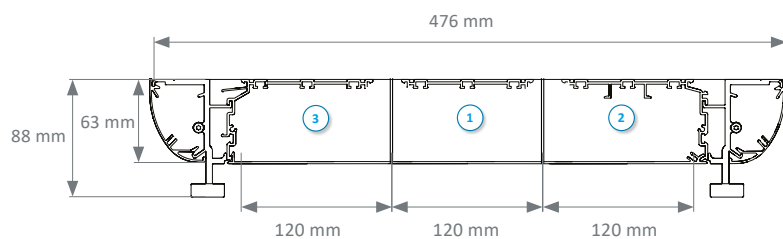
**Fluidys Duo (Rails)**



**Fluidys Duo (Tubes)**



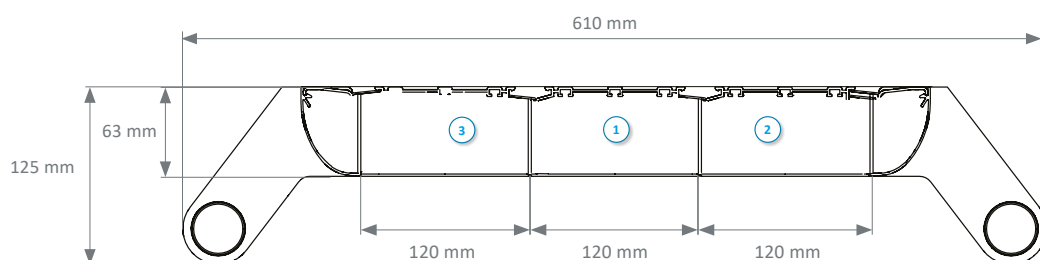
**Fluidys 3 x 120**



- ① Extra low voltage compartment
- ② Low voltage compartment
- ③ Medical gas compartment

The vertical Fluidys is available in monobloc or multi-profiles. See various version offered on page 178.

**Fluidys 3 x 120 with tubes**





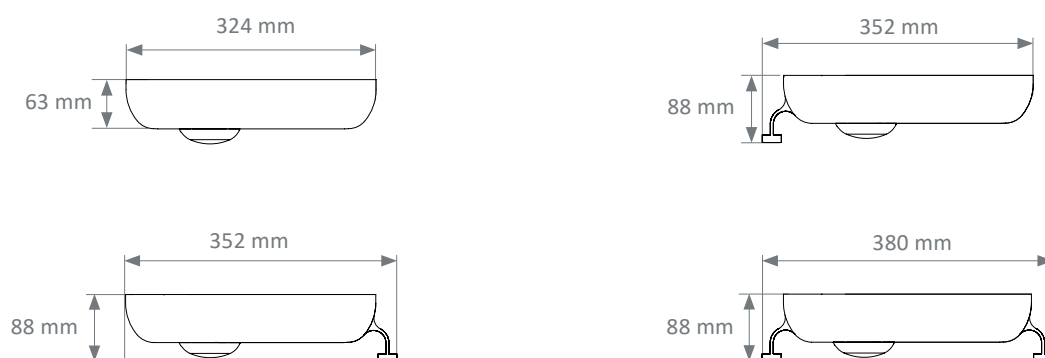
## CONFIGURATIONS

### Configuration examples

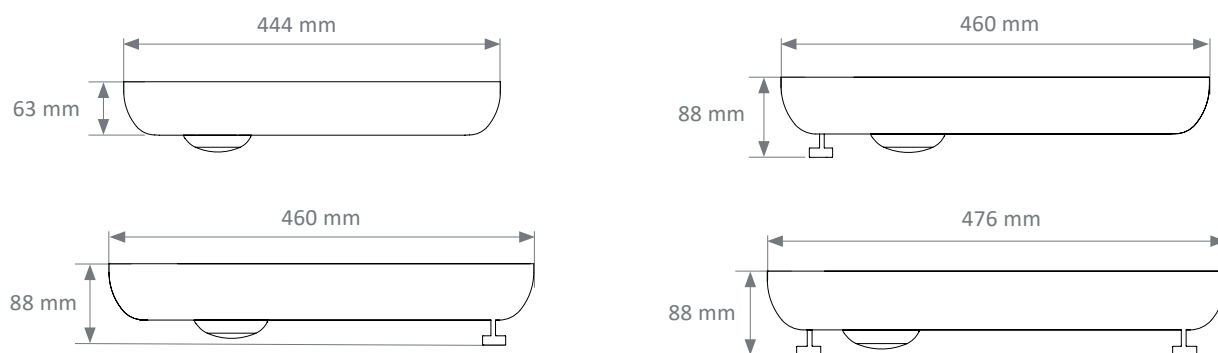
#### Fluidys Mono



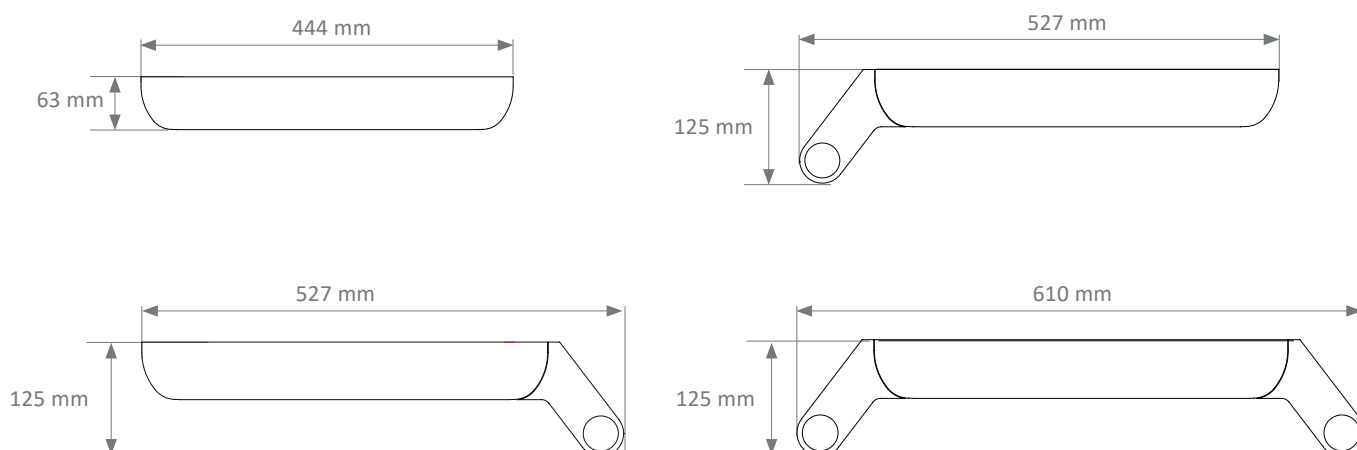
#### Fluidys Duo



#### Fluidys 3 x 120



#### Fluidys 3 x 120 with or without tubes





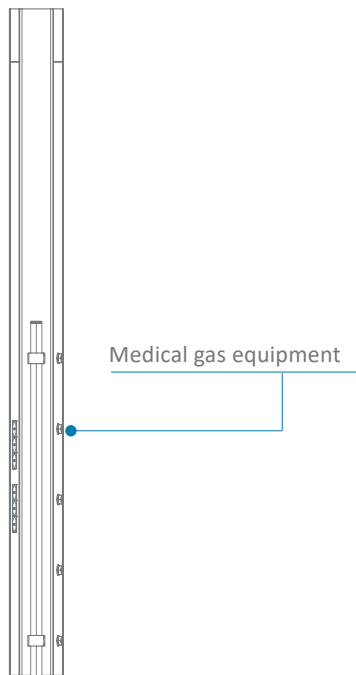
The SIMPLE-CARE special care bed head unit offers many possible options for integrating electrical and medical gas equipment. It enables mounting several accessories for the connection and attachment of all biomedical accessories, such as stainless steel tube, tray(s) and drawer(s) or examination lamp. It can be combined with a wall mounted lighting unit from TLV range.



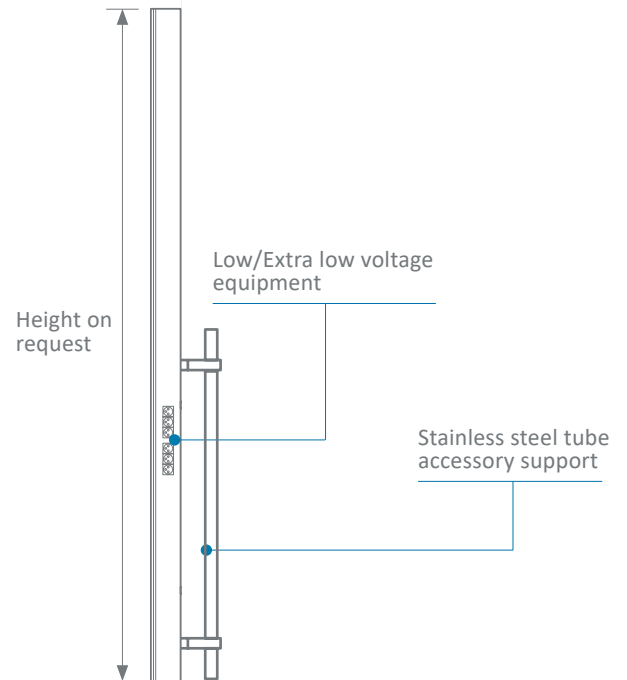
# SIMPLE-CARE

## TECHNICAL CHARACTERISTICS

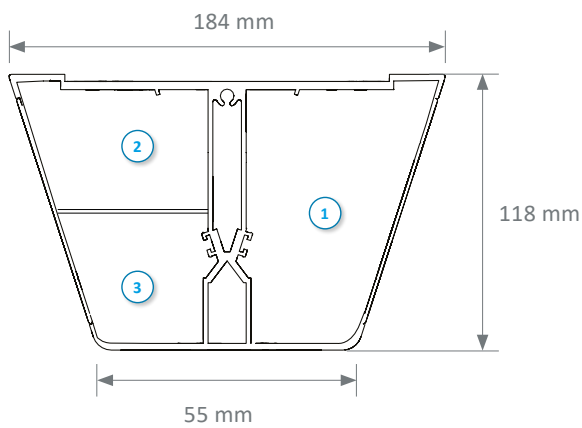
### Front view



### Side view



### Cross-section



- ① Medical gas compartment
- ② Low voltage compartment
- ③ Extra low voltage compartment

### Colors

White  
RAL 9016

SIMPLE-CARE



### Equipment

The profile may be equipped, if necessary, with a stainless steel tube Ø38 accessory support on the front, to mount biomedical accessories and/or tray/drawer units with up to 100 kg payload.



### Lighting

Combined with a wall-mounted lighting unit from the TLV range, the SIMPLE-CARE provides a comfortable, high-performance lighting solution to help to the well-being of patients and healthcare professionals.

**The vertical unit can optionally be equipped with:**

An examination lamp on articulated arm



LED night light built into the bottom fitting.



1 x 1,2W









# SUSPENDED COLUMNS

MULTICARE EVOLUTION

p.188

FLUIDYS CONCEPT FOR  
AMBULATORY USE

p.196

The MULTICARE EVOLUTION column is ideal for the distribution of medical gases and extra low/low voltage supplies in recovery rooms, intensive care units, resuscitation units, or other OT/ICU Resuscitation departments.

Its ergonomics makes it adaptable to the treatment area and optimizes access to the patient and the care team's work area.

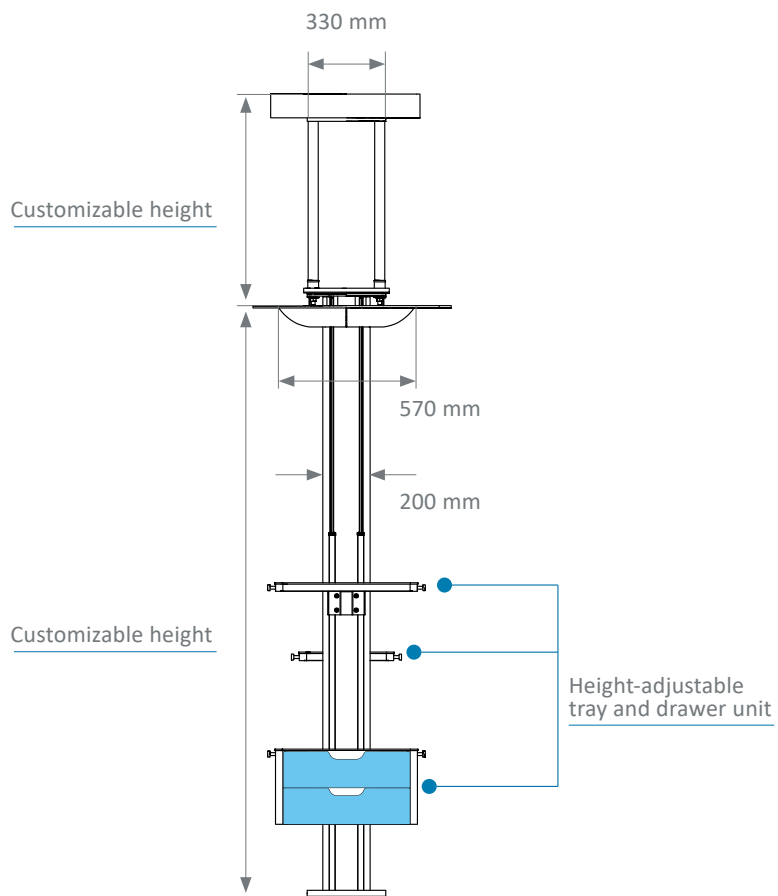


# MULTICARE EVOLUTION

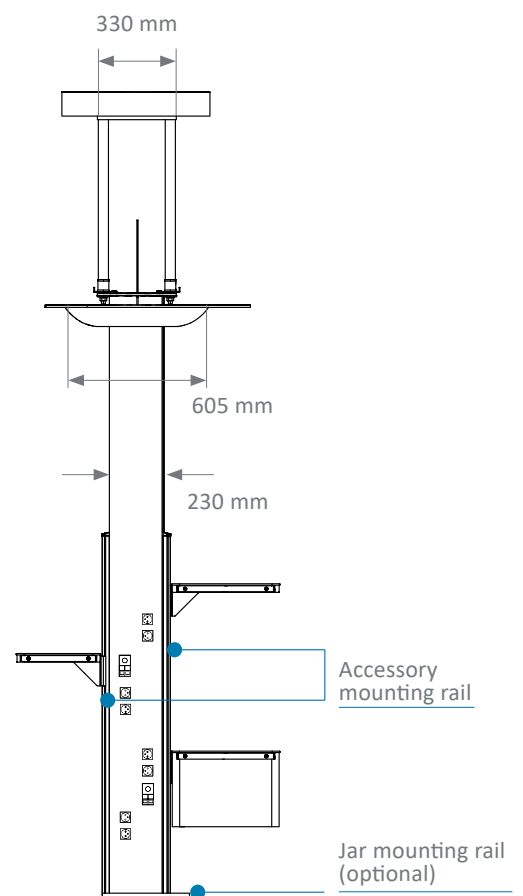


## TECHNICAL CHARACTERISTICS

### Front view



### Side view



### Colors

|                     |                   |
|---------------------|-------------------|
|                     | White<br>RAL 9016 |
| MULTICARE EVOLUTION | ●                 |



### Rails

Several pieces of biomedical equipment can be hung thanks to the accessories mounting rails, located on the front and back.



The column can incorporate an optional jar support, located at the bottom.



### Optional equipment

- Double-jointed mobile arm with maximum loading capacity 40 kg
- Distribution box, height 605 mm, equipped with one or two Ø38 x 605 mm stainless steel biomedical accessory support tubes distributes extra-low/low voltage and medical gases.



### Extra tube system to hold accessories

This device clamps onto the vertical service head and makes it possible to hang main biomedical accessories.



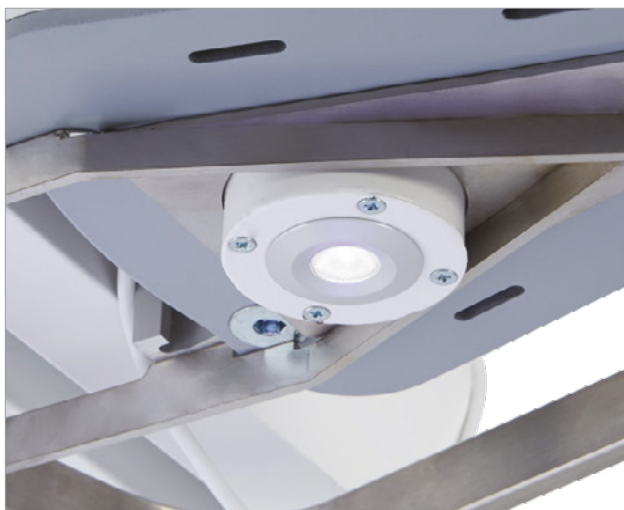
## LIGHTING

The MULTICARE EVOLUTION column can incorporate the following optional equipment:

- Examination lighting mounted on an articulated arm, with maximum travel 1857 mm



- LED night light at the bottom (1.2 W)



- Treatment or minor surgery lighting mounted on an articulated arm, with maximum travel 1330 mm



- A FLEX-E LED spot reading light (grey)













The ambulatory concept is manufactured with FLUIDYS suspended profiles to which wooden panels are attached. These custom partitions enable the patient to be isolated from activity and from other people. It preserves comfort and privacy.



# FLUIDYS

## AM



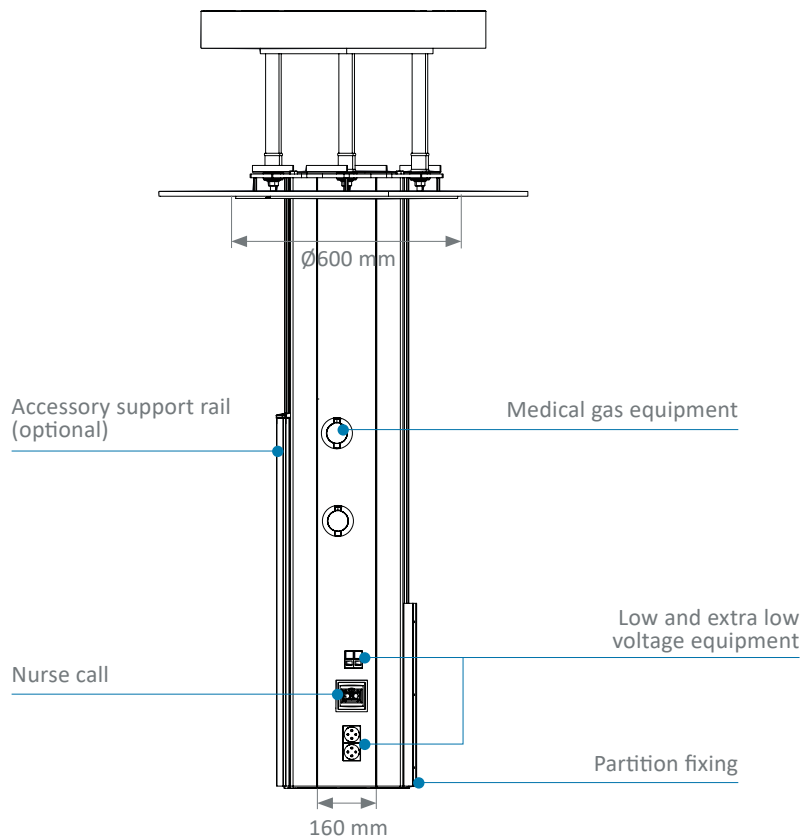
# S CONCEPT FOR IBULATORY USE

## TECHNICAL FEATURES

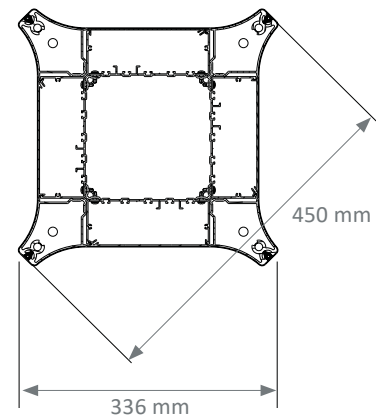
The custom-made design of the panels, in 10 mm HPL, ensures optimum stability. They can be cut to the size and shape of your choice \*. Only one supply point is necessary for 4 treatment stations.

It is suspended from the ceiling and the partitions stand on feet to ensure optimal asepsis and easy cleaning.

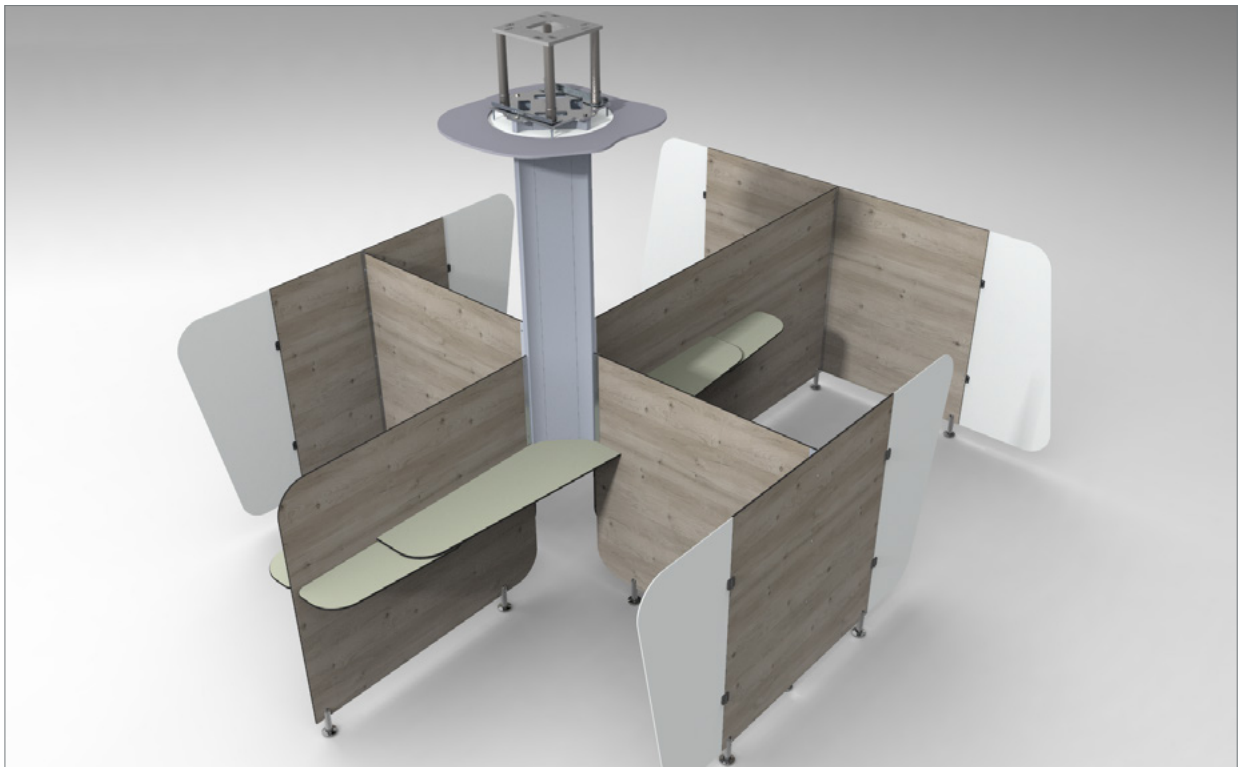
### Front view



### Cross-section



### Example configuration



\*Within the limit of the maximum dimension of the panel

For TLV's laminate panel colors, see page 302

### Hinged door (optional)



The hinged doors located on the partitions enhance privacy while contributing to the overall design of the space.

### Rotating shelf (optional)



The custom-made rotating shelf enable you to have a snack tray and / or the patient's personal effects.

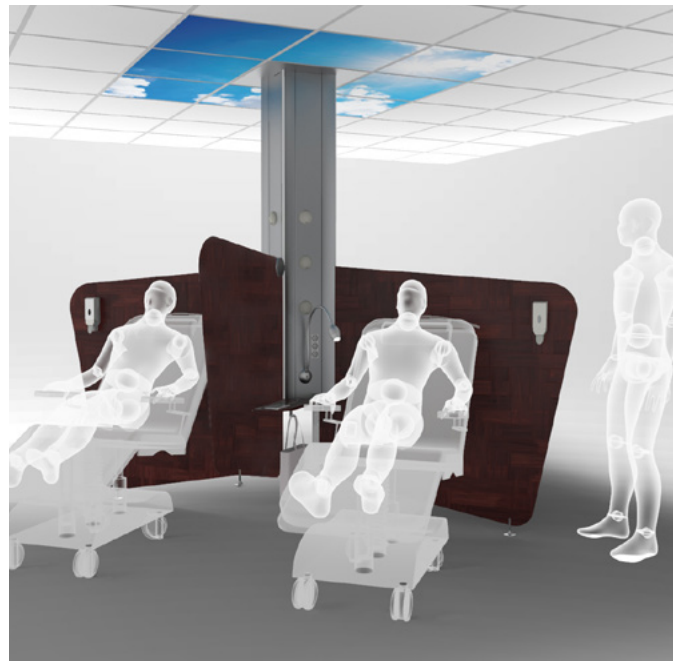
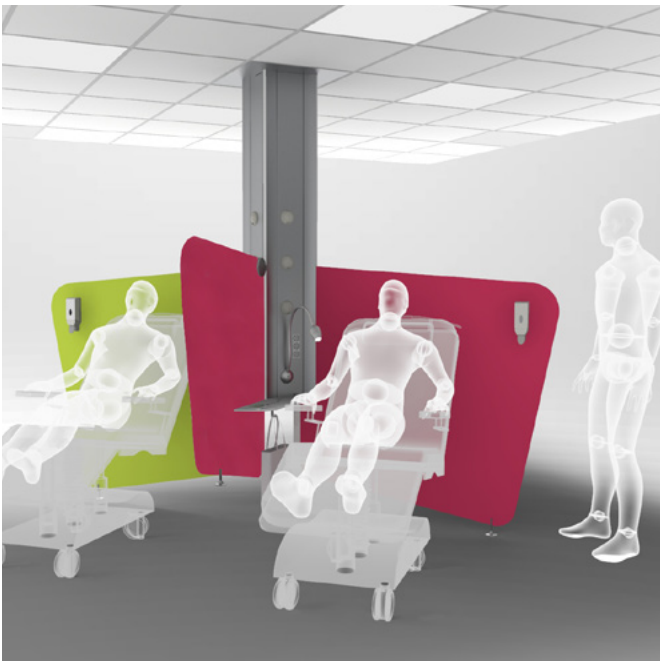
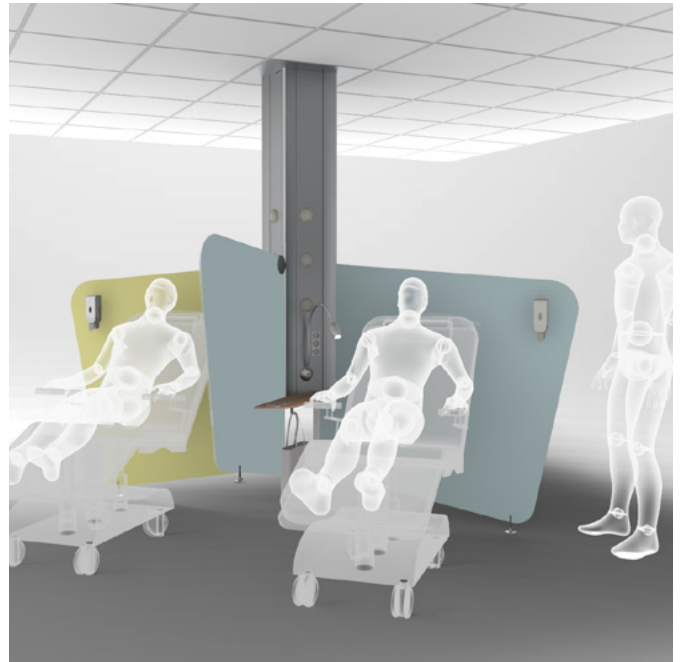
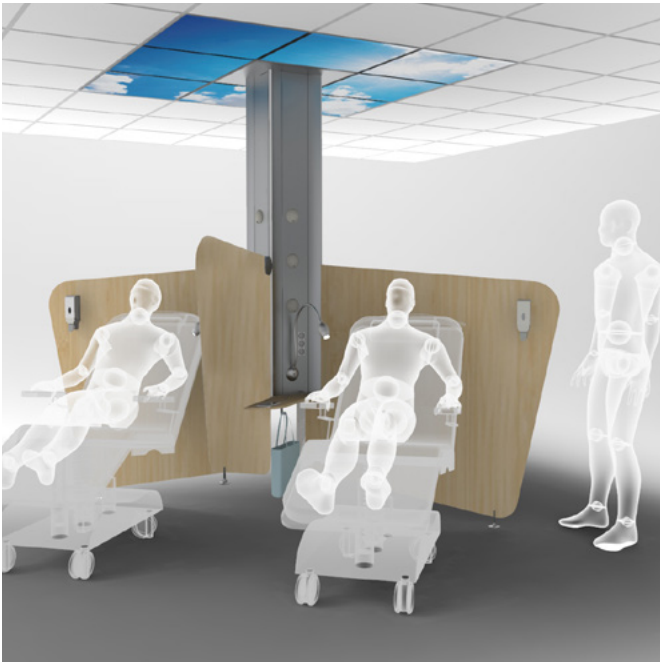
### FLEX-E LED (as option)



A spot makes it possible to discreetly integrate reading lighting on the bed head unit.



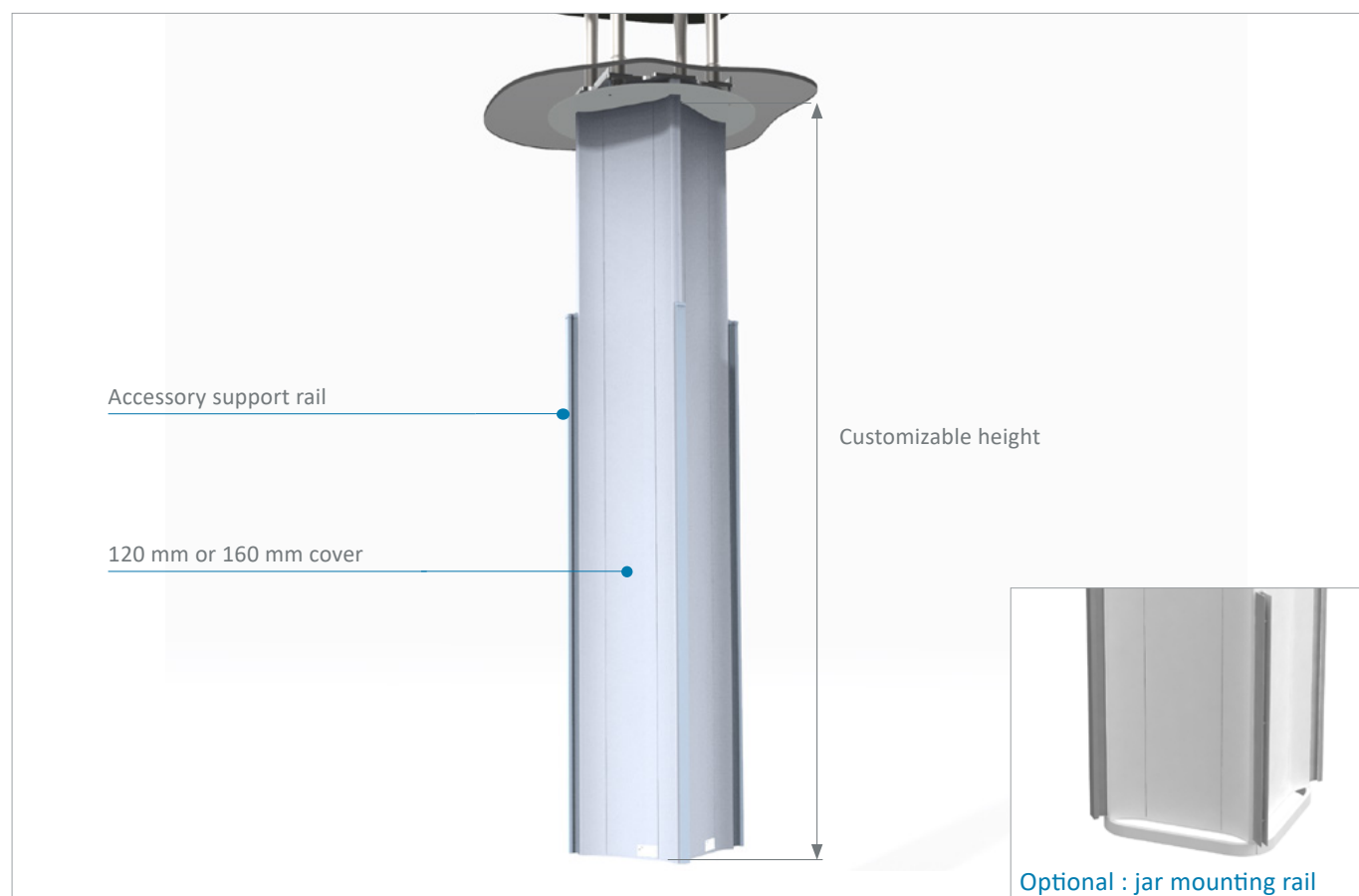
## EXAMPLES OF CONFIGURATIONS



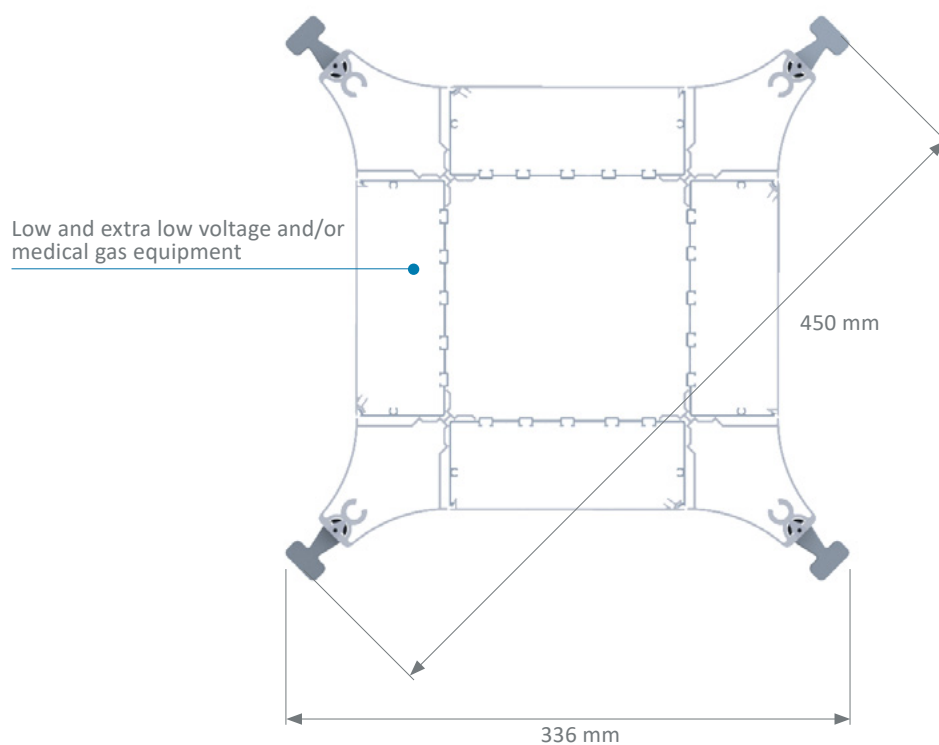
Registered models

## OPTION : FLUIDYS COLUMN FOR OT / ICU RESUSCITATION

The 4 sides FLUIDYS column can be equipped with or without accessory support rail depending on the needs.



### Cross-section (160 mm cover)















## SUSPENDED BEAMS

HI-CARE  
FLUIDYS

p.206  
p.220

The HI-CARE peripheral suspended beam optimizes the quality of surgical procedures by giving surgeons, anesthesiologists, and OR teams easy access to electrical power supplies and medical gases, which can easily be positioned within arm's reach. Patient access, working conditions, and cleanliness of treatment areas are therefore optimized.







# HI-CARE



## FUNCTIONALITY

The advantage of the multidisciplinary operating room concept is that it pools most of the human resources in the anesthesia and surgical teams and therefore improves patient rotation and the sequence of programs, while centralizing activities in a single location.

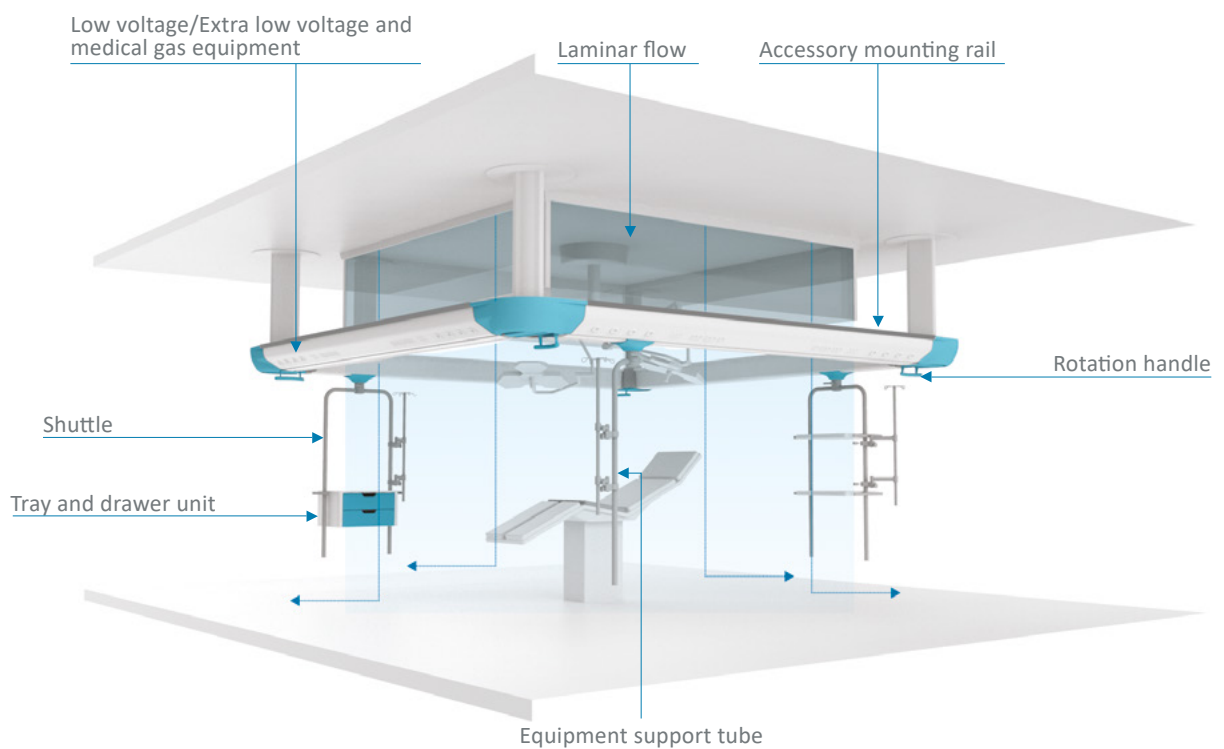
It also has the advantage of allowing shared use of heavy equipment, reducing the need to move it around. It also adapts to most types of table: Fixed, transfer, or mobile, so that their accessories can be pooled.

HI-CARE offers significant time savings in terms of OR availability. With its rounded shapes and smooth surfaces and thanks to the flush-mounting of all equipment, it is easy to clean and disinfect after each procedure.

### Air flow

HI-CARE is carefully designed for compatibility with all (laminar flow) air filtration ceiling-mounted systems. It contributes to reduce the risk of infection and airborne contamination thanks to all equipment being centralized in one compact unit.

It also offers the opportunity to protect the air flow in the surgical area from peripheral turbulence by equipping it with additional glass shielding made by the external suppliers of your choice (air processing specialists).



### Integration of electrical equipment

Waterjet cutting gives HI-CARE's cover a precise, custom finish. This allows the possibility of integrating sockets and outlets of all different shapes. Electrical devices are flush-mounted, for easy cleaning and disinfection of the product.



### Integration of gases

Every type of gas outlet standard (DIN, BS, AFNOR) can be integrated into the beam.



Thanks to these various configurations, the HI-CARE beam provides a modular concept to suit most situations and fulfil the needs of surgical teams.

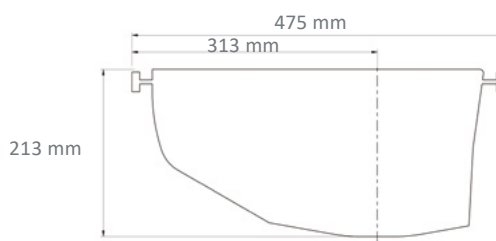
### Rails

The HI-CARE beam incorporates a 25 x 10 mm accessory mounting rail on its inner and outer faces all along its periphery.

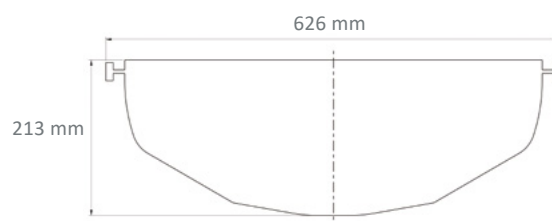


### Beam characteristics

Outer face equipped with power sockets and medical gas outlets. Outer and inner rails.

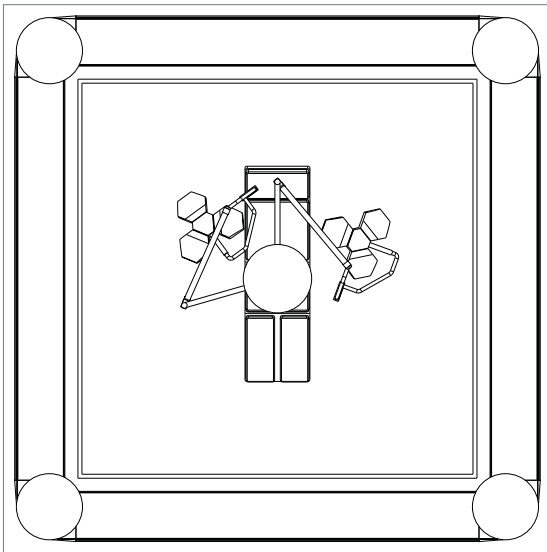


Outer and inner faces equipped with power sockets and medical gas outlets, and outer and inner rails.

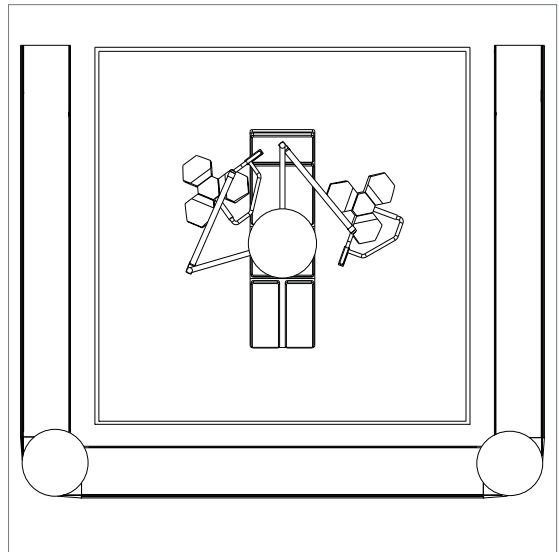


## CONFIGURATIONS

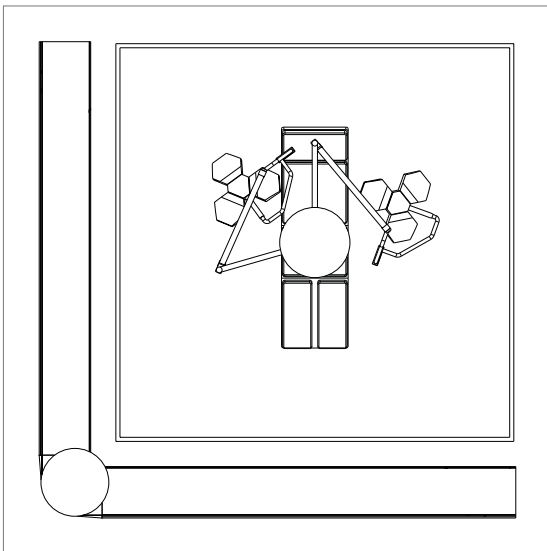
□ Configuration



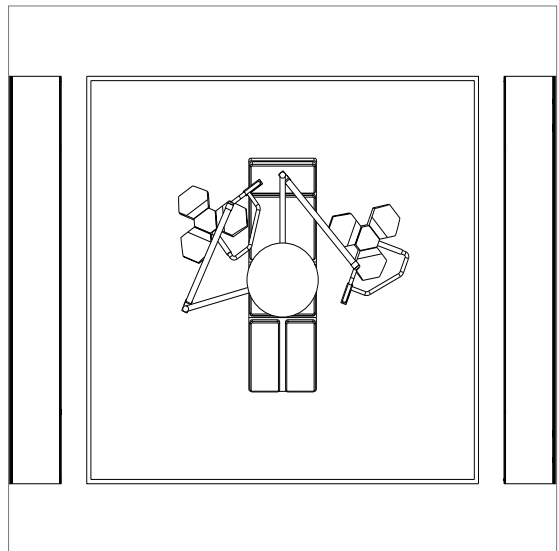
U Configuration



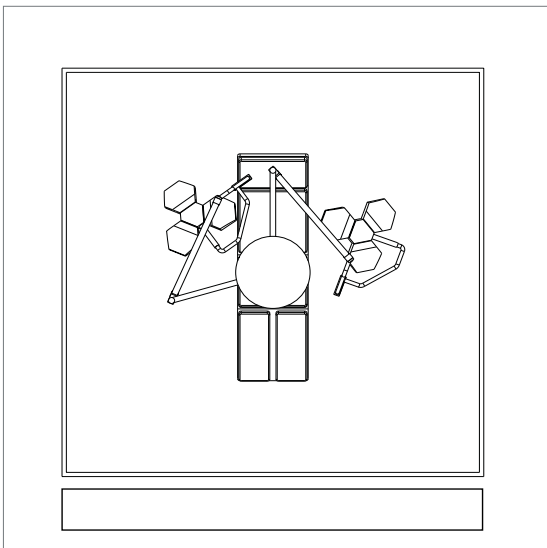
L Configuration



Parallel configuration



Beam configuration



## SHUTTLES CONFIGURATION

Shuttles are equipped with a sliding trolley mounted on ball bearings.

With the indexed rotation angles, the position of therapeutic equipment and accessories can be adjusted between procedures, quickly and along the whole periphery of the beam. This provides an optimized work area for anesthesiologists, surgeons, and their teams.

The shuttle translation and rotation locking system, using a joystick, makes it easy and safe to handle the trolleys and the biomedical equipment.

### Easy positioning of shuttles



Shuttles are equipped with  $\varnothing$  38 mm stainless steel tubes. They come in a choice of 800 mm or 1500 mm in height, and their payload is 150 kg.



Vertical equipment support tube

## DISTRIBUTION BOX CONFIGURATION

To optimize the work area, this can be equipped with a distribution box mounted on a trolley or arm, according to your requirements.

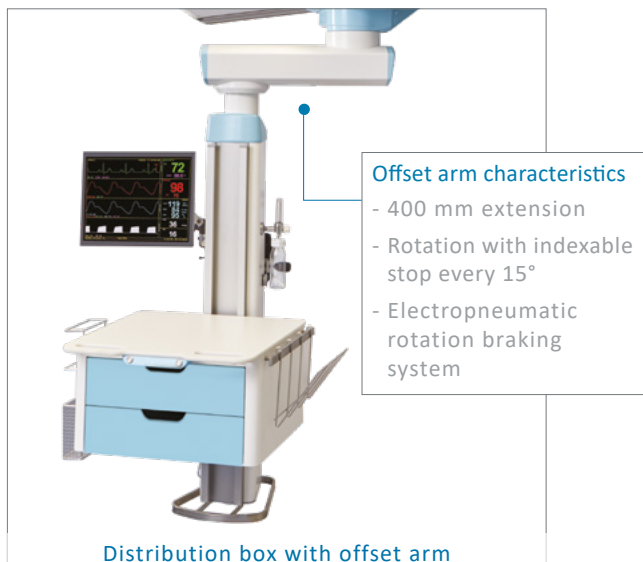
Its sliding trolley mounted on ball bearings is equipped with a cable and hose control system allowing sliding of 1200 mm and electropneumatic braking of the translation movement.

### Technical characteristics of boxes

The distribution box of HI-CARE suspended beam is available with or without offset arm.



Distribution box without offset arm



#### Offset arm characteristics

- 400 mm extension
- Rotation with indexable stop every 15°
- Electropneumatic rotation braking system

Distribution box with offset arm

### Vertical

- Aluminum profile
- Equipped with three accessory mounting rails, 25 x 10 mm (two on the front panel and one on the back)
- Adjustable friction braking of rotation
- Optional LED position lighting located at the bottom
- Loading capacity : 150 kg without offset arm and 120 kg with offset arm
- Three height for vertical box : 600 mm, 1200 mm or 1500 mm



### Horizontal

- RAL 9016 with lacquered steel body
- Equipped with two vertical Ø 38 mm accessory support tubes 800 or 1500 mm long
- Adjustable friction braking of rotation
- Optional : bottom accessory mounting rail
- Loading capacity : 150 kg
- Dimension of the box (L x W x D) : 760 x 324 x 267 mm





## DISTRIBUTION BOX CONFIGURATION

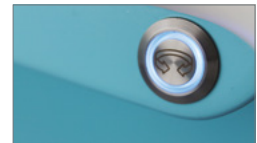
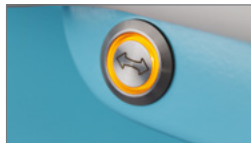
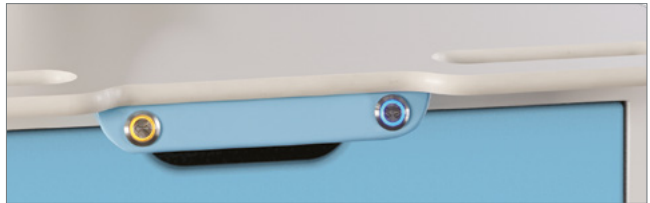
### Translation system



The distribution box is fed by the suspended beam.

### Braking control

Located on the shelf, controls with illuminated button allow easy and ergonomic use of the arm rotation and translation system. They are engraved to allow intuitive operation of the box.

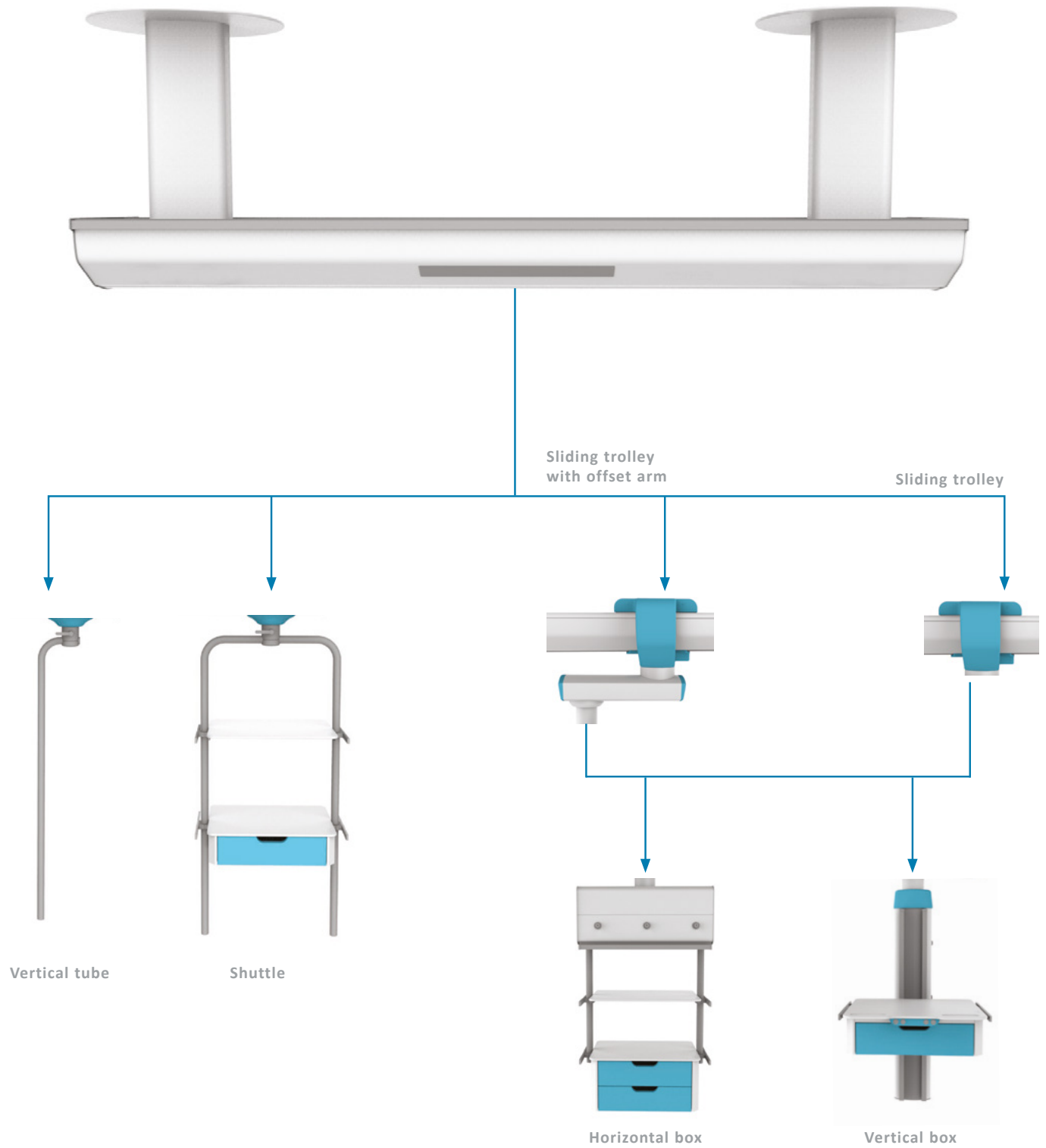


### Extra tube system to hold accessories page 283

This device clamps onto the vertical service head (1200 and 1500 mm) and makes it possible to hang main biomedical accessories.

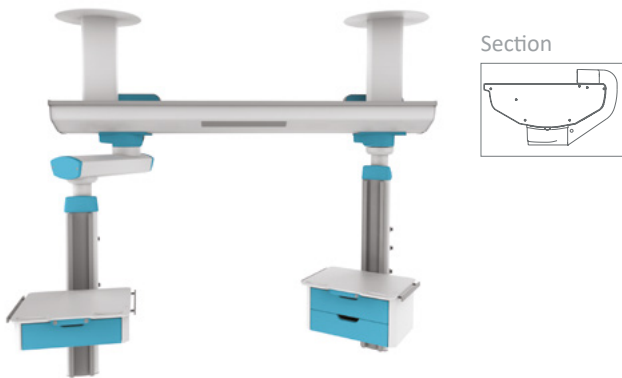


## CONFIGURATIONS



## CONFIGURATIONS

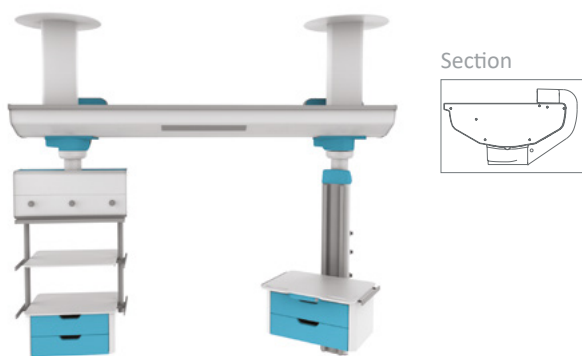
HI-CARE suspended beam configuration with vertical box with and without offset arm



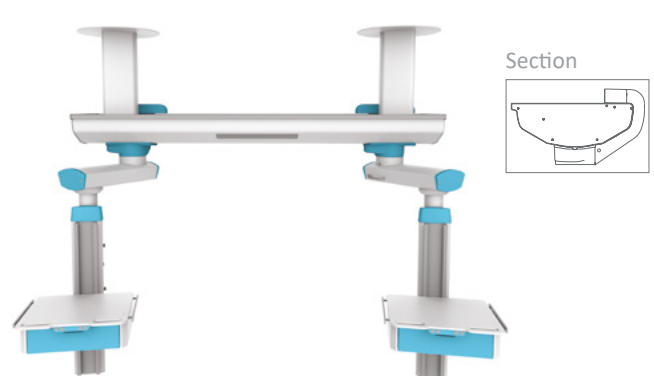
HI-CARE suspended beam configuration with vertical box with offset arm and horizontal box



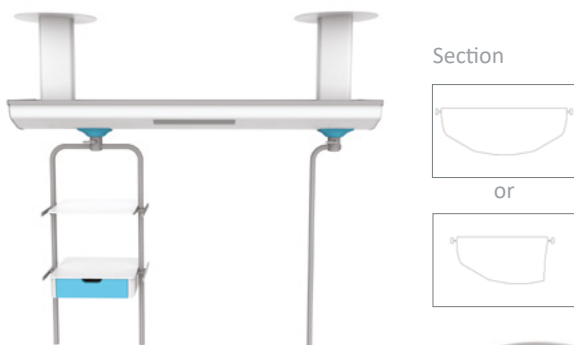
HI-CARE suspended beam configuration with horizontal and vertical box



HI-CARE suspended beam configuration with vertical box with offset arm



HI-CARE suspended beam configuration with shuttle and vertical equipment support tube



HI-CARE suspended beam configuration with horizontal box and shuttle



HI-CARE ☐ configuration with shuttles and vertical equipment support tube



## LIGHTING

The HI-CARE offers the following types of lighting:

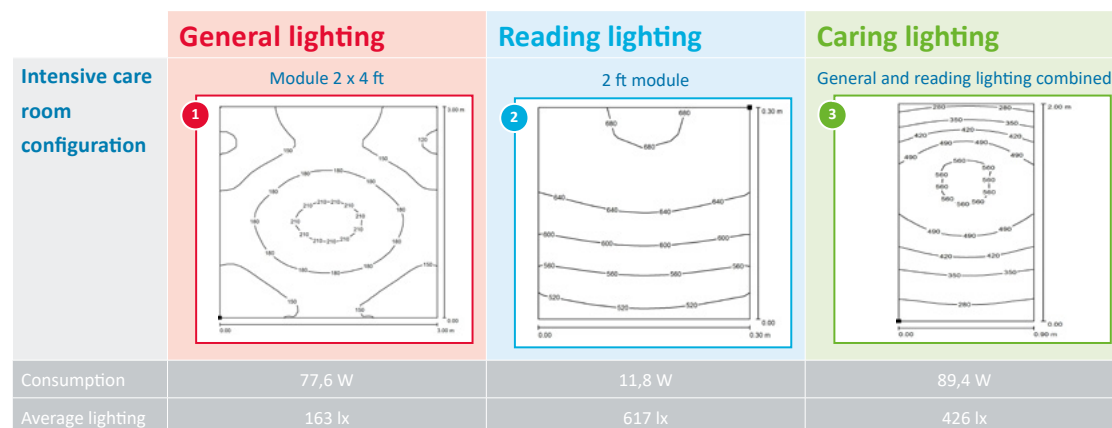
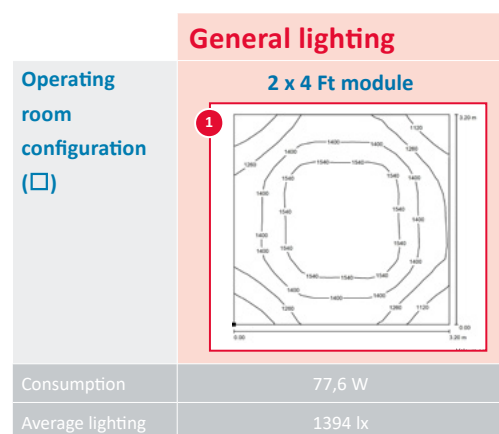
- 100% LED general lighting
- Indirect with RGB LED modules
- Night light, located at the top



### Lighting power

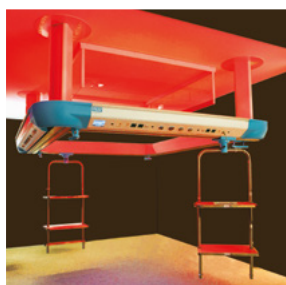
| Lighting         | Modules power   | Types of sources | Color temperature | Luminous Flux | Consumption | System Efficiency | Driver(s)    |
|------------------|-----------------|------------------|-------------------|---------------|-------------|-------------------|--------------|
| General lighting | 68 W (2 x 4 Ft) | LED              | 3000 K<br>4000 K  | 11 398 lm     | 77,6 W      | 146,8 lm/W        | Fixed / DALI |
| Reading lighting | 9,8 W (2 Ft)    | LED              | 3000 K<br>4000 K  | 1756 lm       | 11,8 W      | 149,2 lm/W        | Fixed / DALI |
| Night light      | 3,1 W           | LED              | -                 | 350 lm        | 5,2 W       | 67,5 lm/W         | Fixed        |

### Lighting study



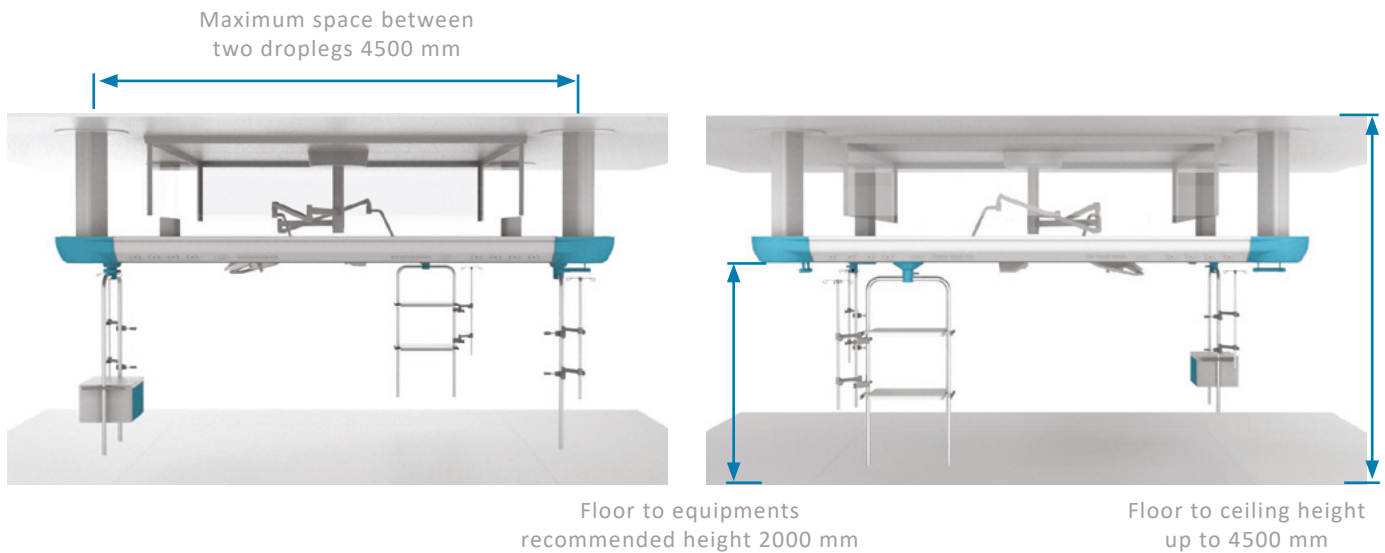
### Lighting to suit every context

□ configurations examples



Equipped with LED RGB lighting, dimmable, HI-CARE makes possible to change or configure your working environment. I.E, green color is recommended for endoscopy, red color can be used for cardiac surgery and blue color can be helpful for concentrating.

## TECHNICAL CHARACTERISTICS



|                                                 |                                                                                                                                                                                                                                            |
|-------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Ceiling mounting</b>                         | <p>Special design for each building</p> <p>Suspension up to 1500 mm plenum height</p> <p>Beam length up to 4500 mm without additional suspension</p>                                                                                       |
| <b>Suspended beam</b>                           | <p>Custom length (up to 5000 mm in single profile)</p> <p>Loading capacity 450 kg per segment</p> <p>Recommended height for accessories 2000 mm</p>                                                                                        |
| <b>Equipment &amp; accessory mounting</b>       | <p>Outer and inner rail(s), 25 x 10 mm</p> <p>Loading capacity on rail 20 kg/linear meter</p>                                                                                                                                              |
| <b>Equipment &amp; accessory holder shuttle</b> | <p>Translation and positioning all along the length of the beam</p> <p>Mounted on silent ball bearings, mechanical lock for stability</p> <p>Dimensions: width 450 mm or 650 mm, height 800 or 1500 mm</p> <p>Loading capacity: 150 kg</p> |
| <b>Vertical distribution box</b>                | <p>Translation and positioning over 1200 mm</p> <p>Loading capacity without offset arm: 150 kg</p> <p>Loading capacity with offset arm: 120 kg</p>                                                                                         |
| <b>Horizontal distribution box</b>              | <p>Loading capacity: 150 kg</p>                                                                                                                                                                                                            |
| <b>Colors</b>                                   | <p>White RAL 9016</p>                                                                                                                                                                                                                      |









The FLUIDYS suspended distribution beam is a compact medical device providing all the essential functionality for your emergency room, intensive care, and resuscitation teams.

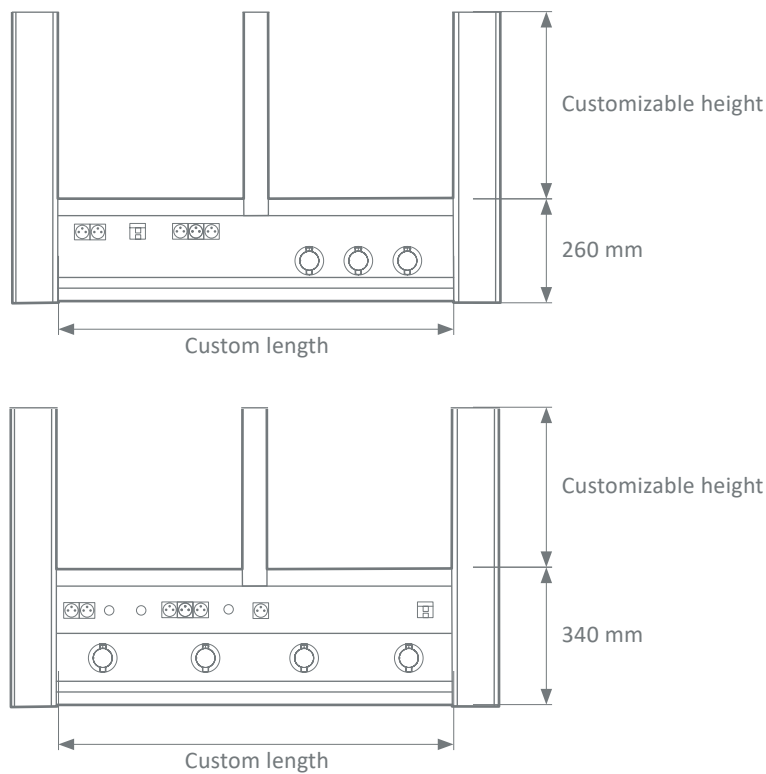




# FLUIDYS

# TECHNICAL CHARACTERISTICS

Front view



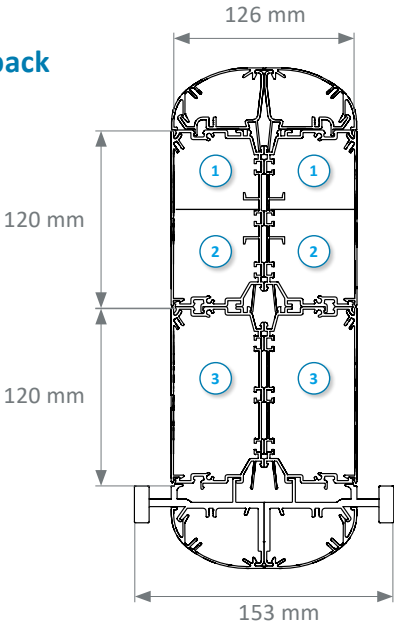
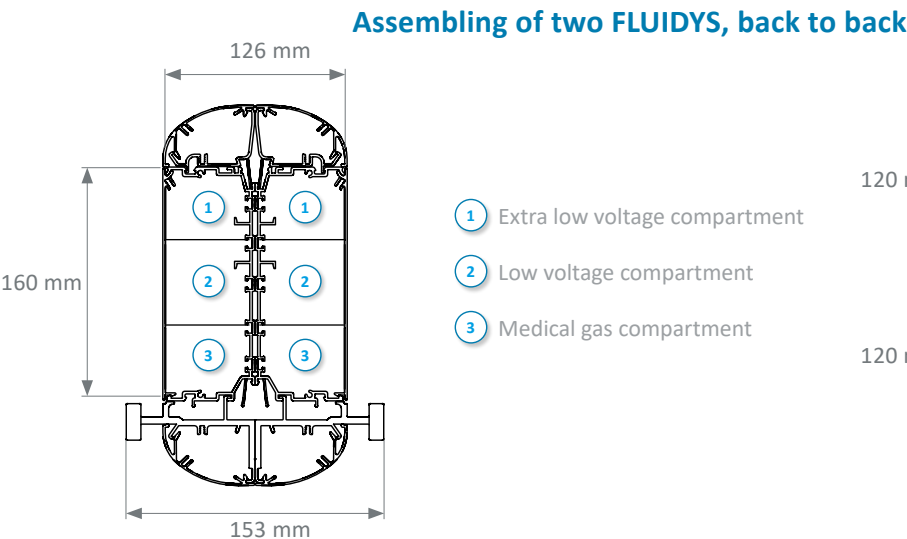
Side view



Cross-section

Fluidys 160

Fluidys 120 + 120



Colors

|                  | White<br>RAL 9016 | Grey<br>RAL 7040 | Anodized |
|------------------|-------------------|------------------|----------|
| Aluminum profile | ●                 |                  |          |
| Gas casing       | ●                 | ●                |          |
| Rail(s)          |                   |                  | ●        |

### Shuttles

Shuttles are equipped with Ø 38 mm stainless steel tubes. They come in a choice of 800 mm or 1500 mm in height, and their payload is 70 kg.



### Rails

The beam will be equipped with a 25x10 mm lower accessory mounting rail along its entire length, at the front and back. This is used to install biomedical accessories and shuttles.

### Lighting

FLUIDYS has high-performance, comfortable, controlled lighting. It provides efficient general, reading, and caring lighting. The optics allow optimum control of the lighting, favouring the well-being of care teams and patients.



## TECHNICAL SPECIFICATIONS

|                          |                                                                                              |
|--------------------------|----------------------------------------------------------------------------------------------|
| <b>Material</b>          | 160 mm aluminum profile or two 120 mm profiles                                               |
| <b>Ceiling mounting</b>  | Special design for each building<br>Additional drop leg: every 2500 mm                       |
| <b>Suspended beam</b>    | Custom length (up to 5000 mm in single profile)<br>Recommended clearance under beam: 1700 mm |
| <b>Equipment mount</b>   | One 25 x 10 horizontal rail or two rails (on either side)                                    |
| <b>Indirect lighting</b> | LED : 7093 lumens (5ft)                                                                      |
| <b>Direct lighting</b>   | LED : 2581 lumens (2ft)                                                                      |
| <b>Night light</b>       | LED : 350 lumens                                                                             |





## CEILING PENDANTS

TECH-CARE AUTOLIFT & ERGOFIX  
TECH-CARE EASYLIFT

p.228  
p.240

The ceiling-mounted pendants from the TECH-CARE range (Autolift and Ergofix) satisfy most requirements of healthcare professionals and provide convenience and safety when lifting and transporting biomedical devices and accessories (such as endoscopy trolley, ventilator, and anesthesia machine). The motorized version of the Autolift arm lets you lift equipment quickly and effortlessly.







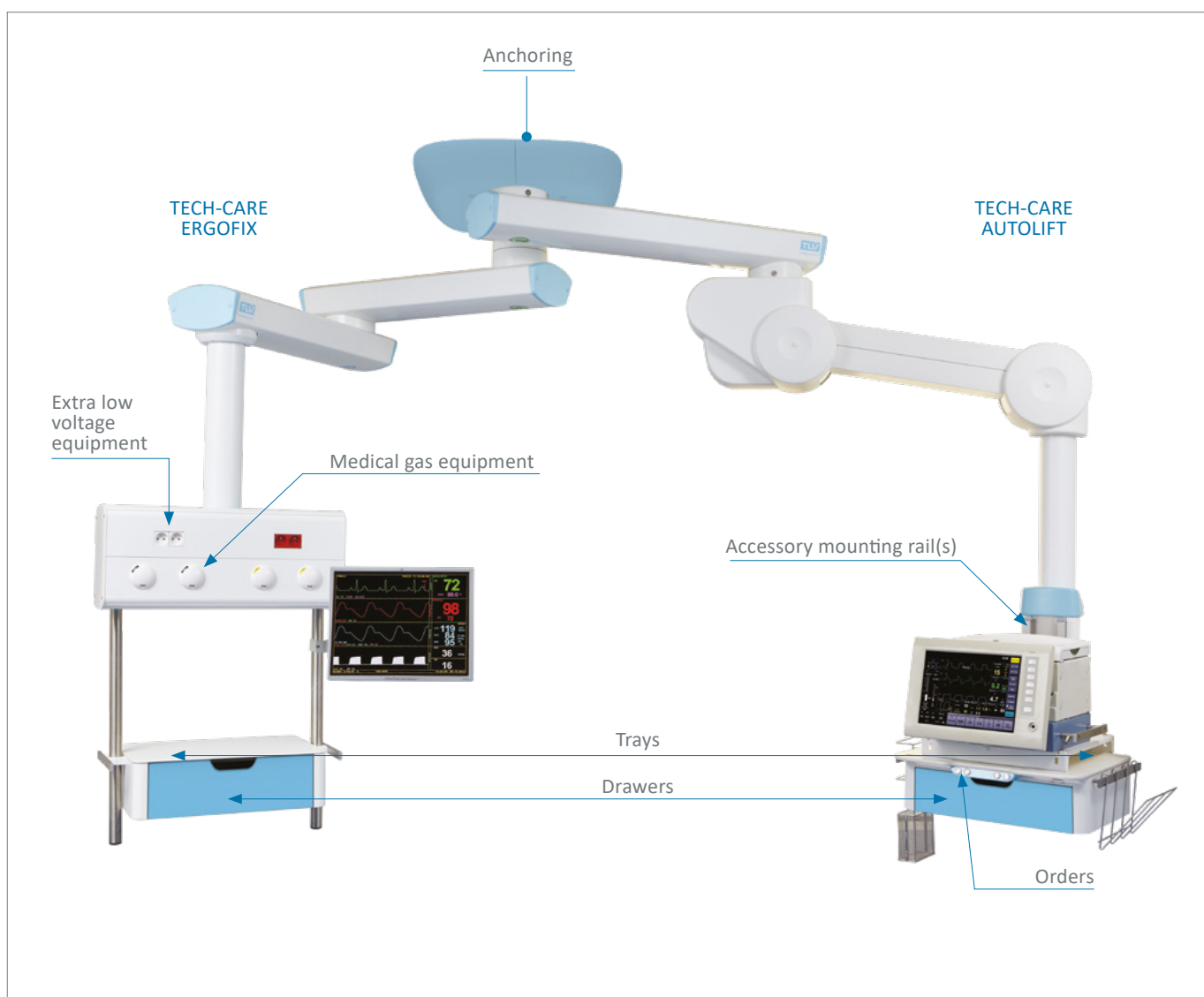
# TECH-CARE

## AUTOLIFT & ERGOFIX

## FUNCTIONALITY

The ceiling-mounted pendants from the TECH-CARE range (Autolift and Ergofix) satisfy most requirements of healthcare professionals and provide convenience and safety when lifting and transporting biomedical devices and accessories (such as endoscopy trolley, ventilator, and anesthesia machine). The motorized version of the Autolift arm lets you lift equipment quickly and effortlessly.

Their custom technical and ergonomic configuration provides modularity and a radius of movement from 45° to 315°. The flexibility of the arms optimizes patient access, working conditions, and cleaning of treatment areas.



**New : The TECH-CARE pendant is available with electromagnetic braking system**

The TECH-CARE pendant allows horizontal travel of 500 to 2000 mm according to configuration. Its motorized version provides 680 mm vertical travel. Its standard version is equipped with a mechanical friction rotation braking system, and an optional electropneumatic or electromagnetic braking system is available.

The boxes are designed to be ergonomic and user-friendly for all care teams. They distribute extra-low/low voltage and medical gases.

### Technical characteristics of boxes

#### Vertical

- Aluminum profile
- High loading capacity: 150 kg
- Three heights for vertical box: 600, 1200 or 1500 mm
- Equipped with three accessory mounting rails, 25 x 10 mm (two on the front panel and one on the back)
- Can be equipped with optional LED position lighting located at the bottom



#### Horizontal

- RAL 9016 white lacquered steel body
- Loading capacity 150 kg
- L x H x P (without rail): 760 mm x 324 mm x 267 mm
- Equipped with two vertical Ø 38 mm accessory support tubes, 800 or 1500 mm long
- Located on the side, the control buttons allow up/down system and rotation



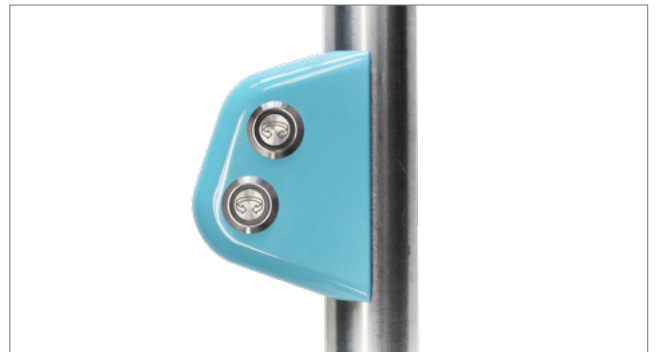
### Controls with illuminated button

They are located on the front panel of the tray, allowing easy and ergonomic use of the motorized arm braking and up/down system.

With their color coding, they allow intuitive operation of the arm.



### Horizontal box: control system on the tube (optional)



### Extra tube system to hold accessories

This device clamps onto the vertical service head and makes it possible to hang main biomedical accessories.







## MONO CONFIGURATIONS

Mono configuration, single arm, vertical box



Mono configuration, double arm, vertical box



Mono configuration, single motorized arm, vertical box



Mono configuration, double motorized arm, vertical box



Vertical column configuration



## DUO CONFIGURATIONS

Duo configuration, single arm with vertical box, single motorized arm with vertical box



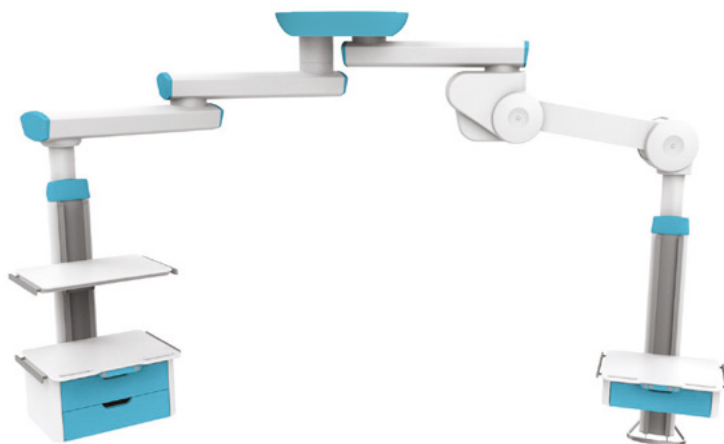
Duo configuration, double arm with vertical box, vertical column



Duo configuration, single arm: vertical box, horizontal box



Duo configuration, double arm with vertical box, double motorized arm with vertical box



Duo configuration, double arm: vertical box, horizontal box



## TECHNICAL CHARACTERISTICS

| <b>Ceiling mounted</b>              | Anchoring distance ceiling / false ceiling up to 1500 mm                                          |                                 |                        |                          |
|-------------------------------------|---------------------------------------------------------------------------------------------------|---------------------------------|------------------------|--------------------------|
| <b>Configuration</b>                | Mono or Duo                                                                                       |                                 |                        |                          |
| <b>Arm lengths</b>                  | 500 mm, 750 mm and 1000 mm                                                                        |                                 |                        |                          |
| <b>Loading capacity</b>             | <b>Single arm</b>                                                                                 | <b>Motorized tilt mechanism</b> | <b>ø 120 mm column</b> | <b>Distribution box*</b> |
|                                     | 500 mm                                                                                            | No                              | 300 kg                 | 150 kg                   |
|                                     | 750 mm                                                                                            | No                              | 300 kg                 | 150 kg                   |
|                                     | 1000 mm                                                                                           | No                              | 300 kg                 | 150 kg                   |
|                                     | 1000 mm                                                                                           | Yes                             | 180 kg                 | 150 kg                   |
|                                     | <b>Double arm</b>                                                                                 |                                 |                        |                          |
|                                     | 500 + 500 mm                                                                                      | No                              | 300 kg                 | 150 kg                   |
|                                     | 750 + 500 mm                                                                                      | No                              | 300 kg                 | 150 kg                   |
|                                     | 1000 + 500 mm                                                                                     | No                              | 280 kg                 | 150 kg                   |
|                                     | 750 + 750 mm                                                                                      | No                              | 280 kg                 | 150 kg                   |
|                                     | 1000 + 750 mm                                                                                     | No                              | 250 kg                 | 150 kg                   |
|                                     | 1000 + 1000 mm                                                                                    | No                              | 250 kg                 | 150 kg                   |
|                                     | 500 + 1000 mm                                                                                     | Yes                             | 180 kg                 | 150 kg                   |
|                                     | 750 + 1000 mm                                                                                     | Yes                             | 180 kg                 | 150 kg                   |
|                                     | 1000 + 1000 mm                                                                                    | Yes                             | 180 kg                 | 150 kg                   |
| <b>Height of vertical box</b>       | 600 mm, 1200 mm and 1500 mm                                                                       |                                 |                        |                          |
| <b>Dimensions of horizontal box</b> | 760 mm x 324 mm x 267 mm                                                                          |                                 |                        |                          |
| <b>Rotations</b>                    | Arm: 45 to 315°, stop indexing every 25,5°<br>Box: 30 to 330°                                     |                                 |                        |                          |
| <b>Rotation braking</b>             | Arm: adjustable mechanical (standard) or electromagnetic (optional)<br>Box: adjustable mechanical |                                 |                        |                          |
| <b>Amplitude of tilting arm</b>     | 580 mm max                                                                                        |                                 |                        |                          |
| <b>Colors</b>                       | White RAL 9016                                                                                    |                                 |                        |                          |

\* The carrying capacity is the maximum acceptable load on the distribution box. This value should be reduced by the weight of the trays and accessories supported by the box. Therefore TLV mentions the acceptable weight by visible label on each box, rail and tray, avoiding the risk of overload.











The TECH-CARE Easylift ceiling-mounted pendant is designed to be ergonomic and user-friendly for care teams. Because it is compact, it easily adapts to any architectural configuration. It supplies low/extra-low voltage and medical gases.



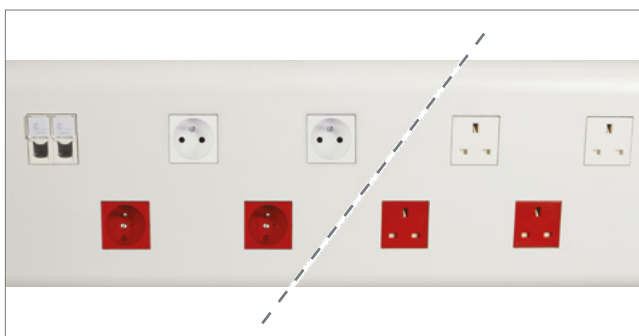


# TECH-CARE

## EASYLIFT

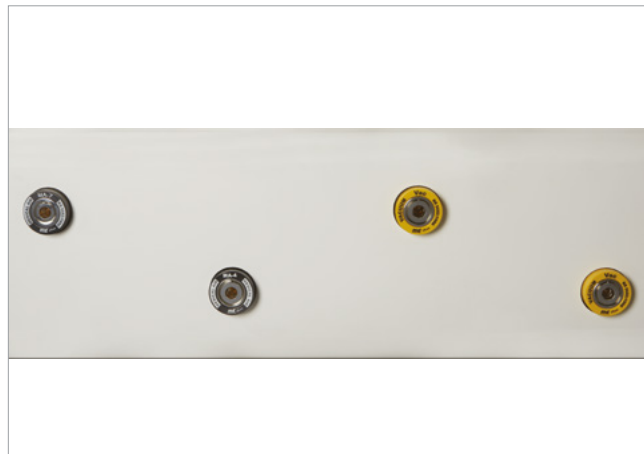
### Integration of electrical equipment

The TECH-CARE cover is cut by water jet, providing a precise, tailor-made finish so that sockets of any shape can be built into it. Electrical devices are flush-mounted, for easy cleaning and disinfection of the product.



### Integration of gases

The distribution boxes incorporate every type of gas outlet standard (DIN, BS, AFNOR).



### Technical characteristics of boxes

- Aluminum profile
- Length: 750 mm
- Equipped with a handle so that care teams can operate it quickly and easily
- Mechanical friction braking of rotation
- Vertical travel of 580 mm
- As option : mounting on an offset arm allowing 500 mm, 750 mm or 1000 mm extension, according to configuration

### Lock button

Located close to the handle, the illuminated control button of the electromagnetic system enables to hold the arm in the bottom or top position.



## CONFIGURATIONS

Easylift mono configuration, simple arm



Mono configuration, double arm



Duo configuration, single arm : Easylift and horizontal box



Duo configuration, double arm : Easylift and horizontal box



Duo configuration, single arm : vertical box and Easylift



Duo configuration, double arm : vertical box and Easylift





## TECHNICAL CHARACTERISTICS

|                                       |                                          |
|---------------------------------------|------------------------------------------|
|                                       |                                          |
| <b>Ceiling mounted</b>                | Anchoring: plenum up to 1500 mm          |
| <b>Arm length (overhall)</b>          | 1300 mm                                  |
| <b>Configurations</b>                 | 500 mm + Easylift                        |
|                                       | 750 mm + Easylift                        |
|                                       | 1000 mm + Easylift                       |
| <b>Box length</b>                     | 750 mm                                   |
| <b>Rotations</b>                      | Arm: 30 to 330°, stop indexing every 15° |
| <b>Rotation braking</b>               | Box: adjustable mechanical (standard)    |
| <b>Vertical travel of tilting arm</b> | 580 mm                                   |
| <b>Colors</b>                         | White RAL 9016                           |



## TRAYS AND DRAWERS EQUIPMENTS

The trays are designed to comply with the strictest standards concerning hygiene and durability. Their surface is made of white core compact material (HPL).

The tray units can accommodate one or two drawers made of antibacterial Kydex. The drawers are removable for easy cleaning.

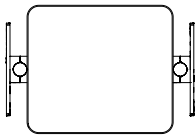
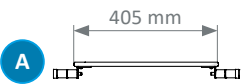
### CONFIGURATIONS

#### Load table

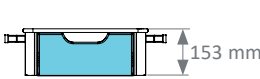
|          | TRAY DIMENSION | MAX PAYLOAD |
|----------|----------------|-------------|
| <b>A</b> | 405 x 355 mm   | 40 kg       |
| <b>B</b> | 605 x 455 mm   | 60 kg       |

#### Shuttles

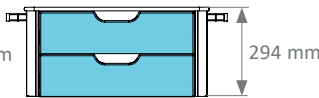
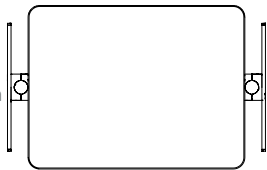
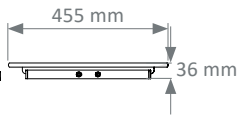
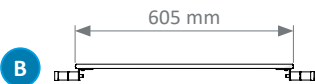
##### Trays



##### One drawer



##### Two drawers



For HI-CARE, FLUIDYS (suspended)

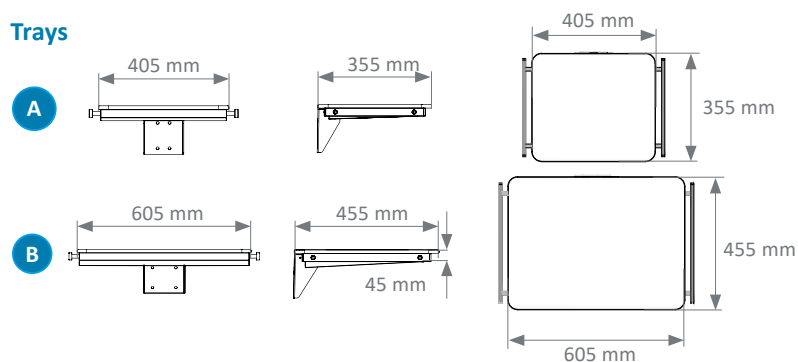


HI-CARE Shuttle

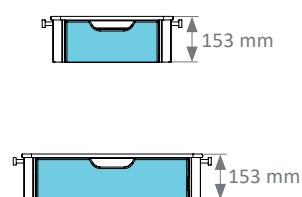
## TRAYS AND DRAWERS EQUIPMENTS

**Box / columns / vertical bed head unit / mono-tube trolley ø 38**

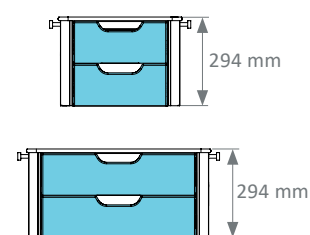
### Trays



### One drawer



### Two drawers

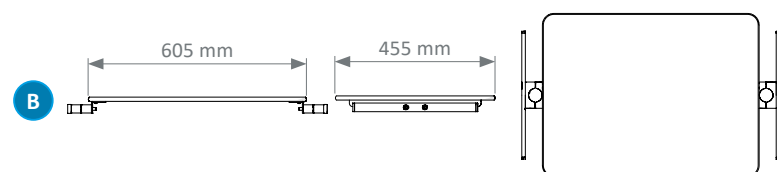


For **MULTICARE EVOLUTION, FLUIDYS, TECH-CARE**



### Horizontal box

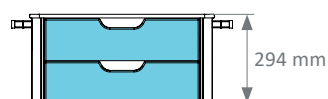
#### Trays



### One drawer



### Two drawers



For **TECH-CARE, HI-CARE**



\* See the trays and drawers references in our accessories range p 296.







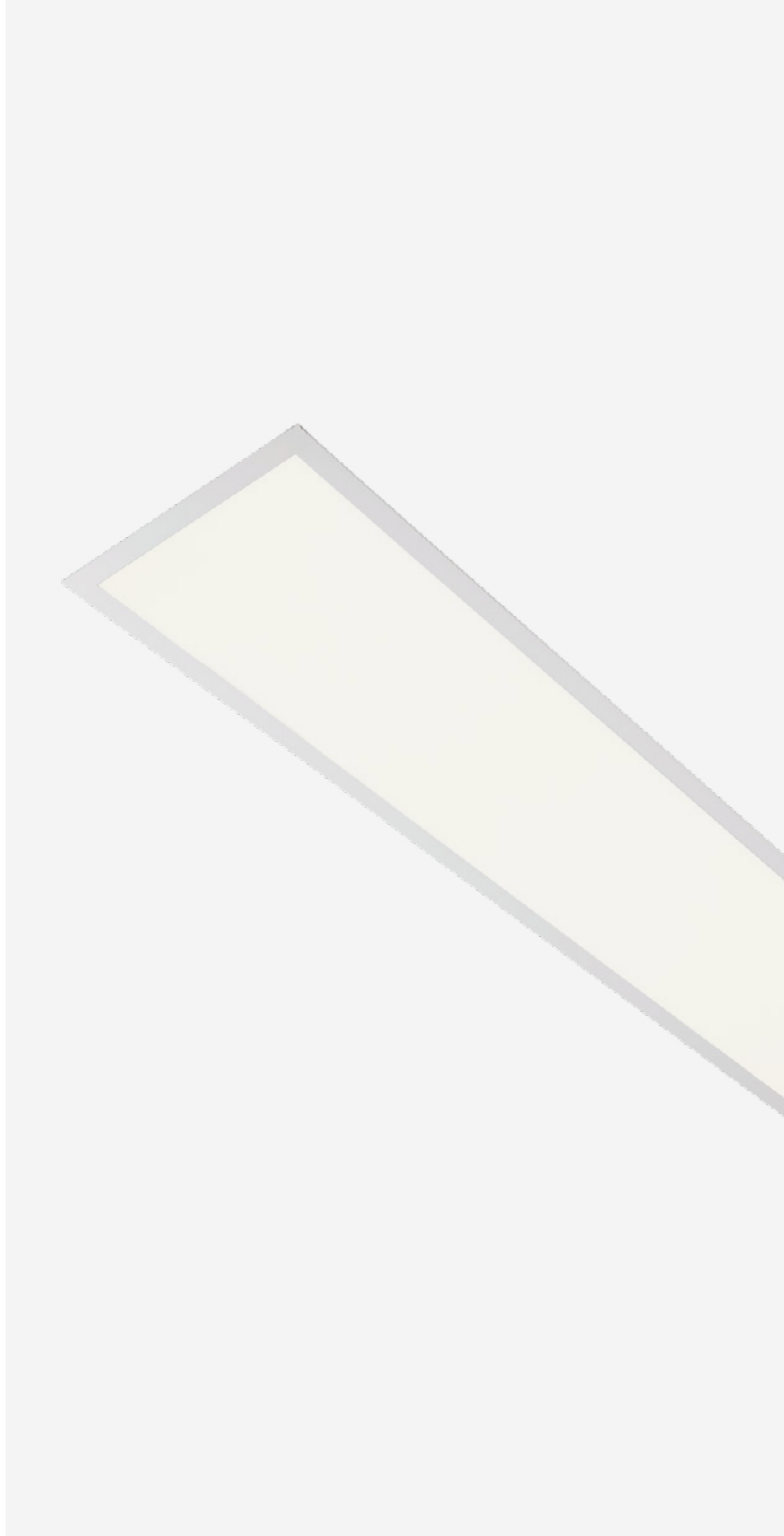
## SEALED LIGHTINGS

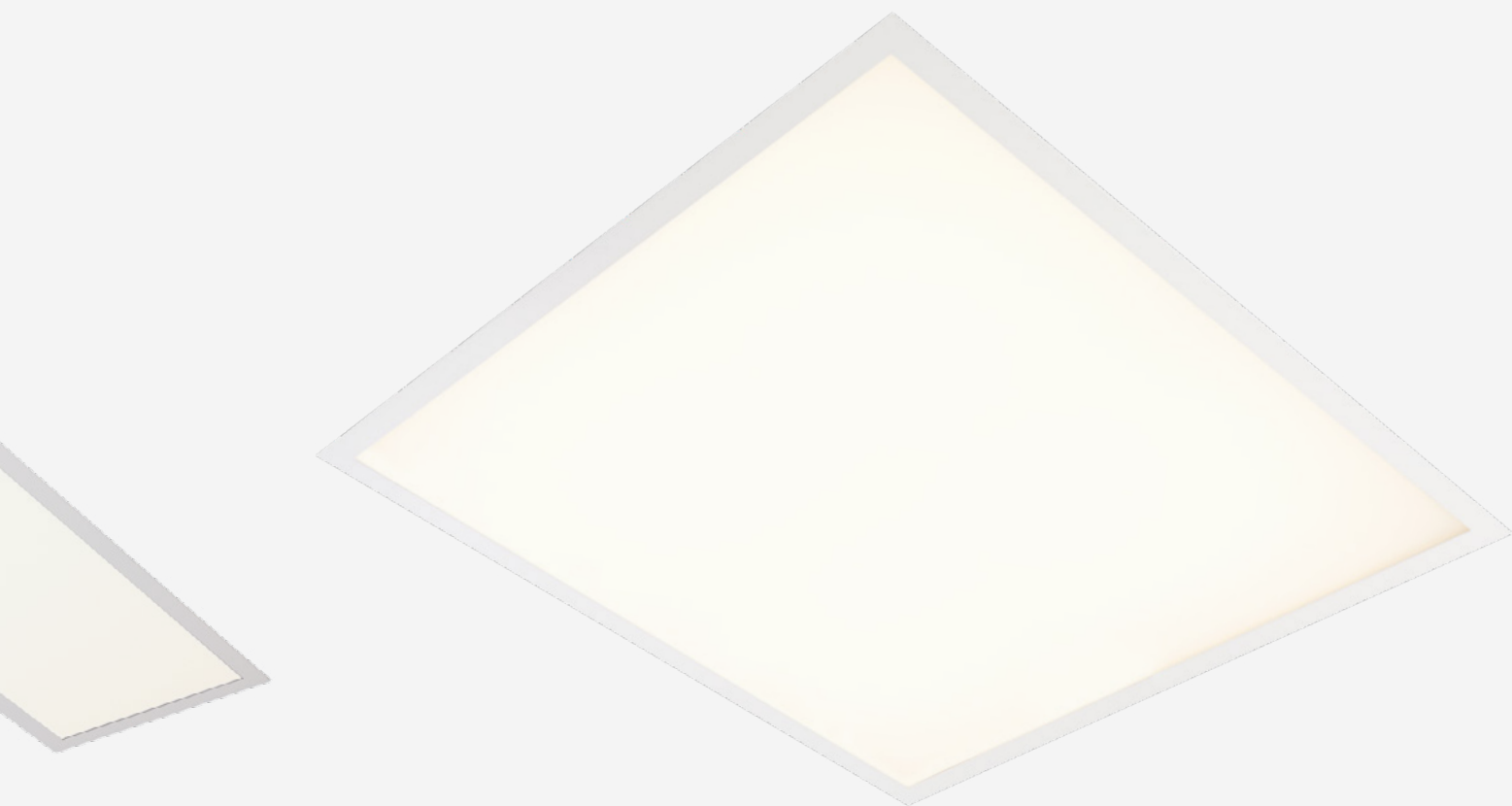
ILUS  
SKYDECO  
STAGNO

p.250  
p.258  
p.266



The ILUS range is perfect for operating rooms, circulations, clean rooms, changing rooms and any other area in hospitals.





# ILUS

## TECHNICAL CHARACTERISTICS

The ILUS range is perfect for operating rooms circulations, clean rooms, changing rooms and any other area in hospitals.

- Recessed luminaire with LED modules, maximum 7800 lumens
- Working life 50 000 hours
- Opal diffuser made of Polymethyl methacrylate (PMMA)
- Lay-in (LI)
- Lay-out (LO) version offered with visible frame
- Lacquer coated white steel body
- Static cooling system
- Built-in quick connectors (GST)
- Color(s): White RAL 9016 satin finish
- Warranty: 5 years\*
- CRI: 90

### Driver(s)

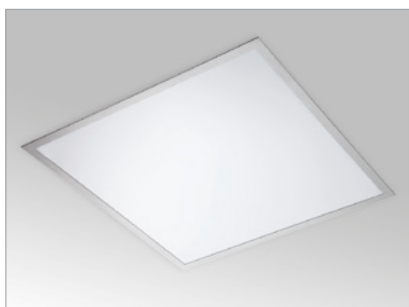
|       |      |
|-------|------|
| Fixed | Dali |
|-------|------|

### Classifications

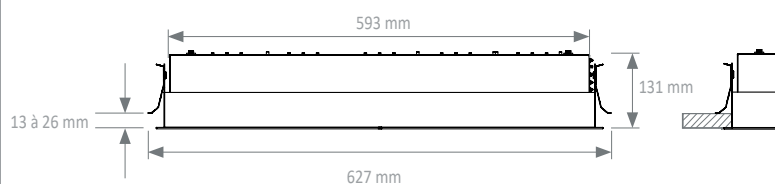
|             |      |
|-------------|------|
| Classe<br>I | 650° |
|-------------|------|



IP6X  
LI



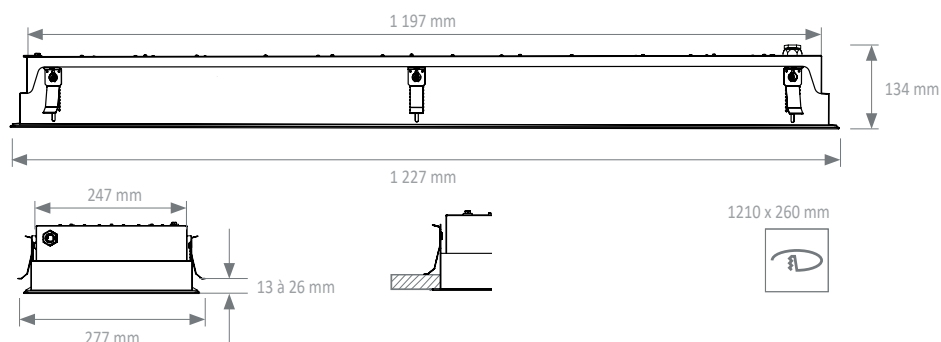
IP65  
Under ceiling  
LO



610 x 610 mm



IP65  
Under ceiling  
LO



1210 x 260 mm



\* See Terms and Conditions

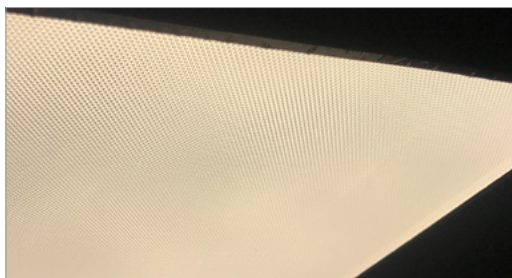
## TECHNICAL FEATURES

### Lighting power

| Item                                                                               | Luminous flux   | Color temperature | CRI | Consumption | System Efficiency | Drivers    | Mounting | Reference        |
|------------------------------------------------------------------------------------|-----------------|-------------------|-----|-------------|-------------------|------------|----------|------------------|
|   | 5000 lumens     | 4000 K            | 90  | 32,9 W      | 154,6 lm/W        | DALI Fixed | LI       | 207424<br>207426 |
|   | 5000 lumens     | 4000 K            | 90  | 32,9 W      | 154,6 lm/W        | Fixed DALI | LO       | 207576<br>207771 |
|   | 6500 lumens     | 4000 K            | 90  | 44 W        | 149,9 lm/W        | DALI Fixed | LI       | 207428<br>207429 |
|   | 6500 lumens     | 4000 K            | 90  | 44 W        | 149,9 lm/W        | Fixed DALI | LO       | 207430<br>207726 |
|   | 7800 lumens     | 4000 K            | 90  | 51,9 W      | 148,6 lm/W        | Fixed DALI | LI       | 207431<br>207432 |
|   | 7800 lumens     | 4000 K            | 90  | 51,9 W      | 148,6 lm/W        | Fixed DALI | LO       | 207433<br>207621 |
|   | 7800 lumens     | 4000 K            | 90  | 49,7 W      | 153,4 lm/W        | Fixed DALI | LO       | 207600<br>207622 |
|  | 5000 lumens max | 2700 K - 6500 K   | 83  | 35,1 W max  | 142,5 lm/W max    | DALI       |          | 208451           |

### UGR <19 specific configurations (in 4H 8H 7 5 2) microprismatic diffuser

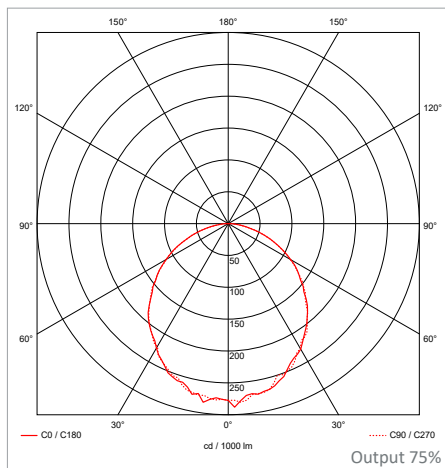
| Item                                                                                | Luminous flux | Color temperature | CRI | Consumption | System Efficiency | Drivers    | Mounting | Reference        |
|-------------------------------------------------------------------------------------|---------------|-------------------|-----|-------------|-------------------|------------|----------|------------------|
|  | 5000 lumens   | 4000 K            | 90  | 32,9 W      | 154,6 lm/W        | DALI Fixed | LI       | 800424<br>800426 |
|  | 5000 lumens   | 4000 K            | 90  | 32,9 W      | 154,6 lm/W        | Fixed DALI | LO       | 800576<br>800771 |
|  | 6500 lumens   | 4000 K            | 90  | 44 W        | 149,9 lm/W        | DALI Fixed | LI       | 800428<br>800429 |
|  | 6500 lumens   | 4000 K            | 90  | 44 W        | 148,6 lm/W        | Fixed DALI | LO       | 800430<br>800726 |
|  | 7800 lumens   | 4000 K            | 90  | 51,9 W      | 148,6 lm/W        | Fixed DALI | LI       | 800431<br>800432 |
|  | 7800 lumens   | 4000 K            | 90  | 51,9 W      | 148,6 lm/W        | Fixed DALI | LO       | 800433<br>800621 |
|  | 7800 lumens   | 4000 K            | 90  | 49,7 W      | 153,4 lm/W        | Fixed DALI | LO       | 800600<br>800622 |



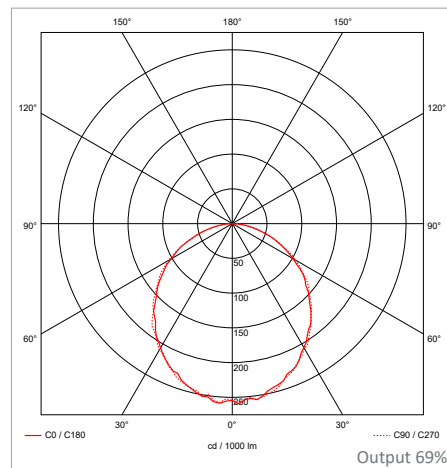
ILUS with microprismatic diffuser UGR <19



## ILUS 600x600 mm

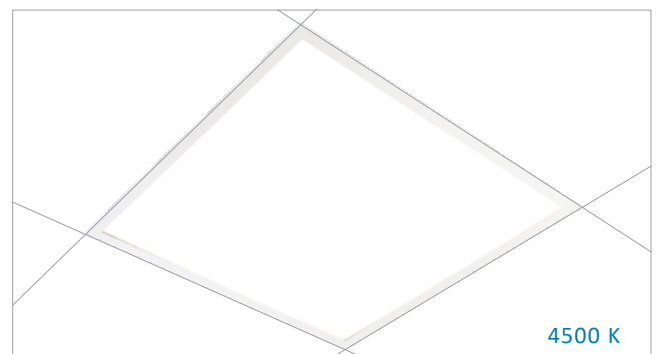
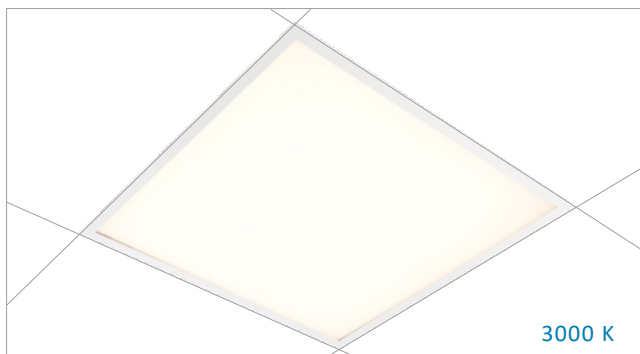


## ILUS 1200x250 mm



## Optional lighting

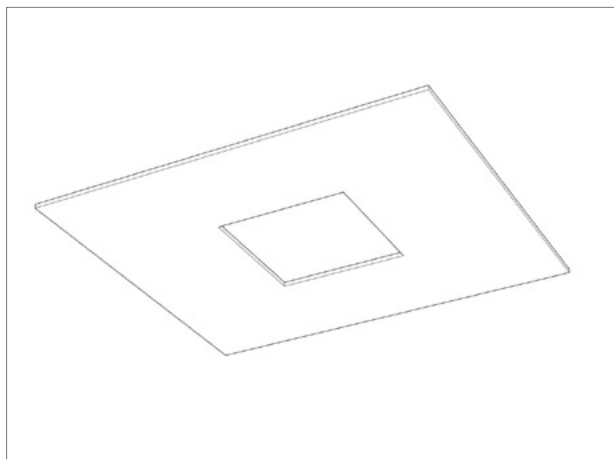
### Dynamic lighting\*



\* For more information about dynamic lighting, see page 304

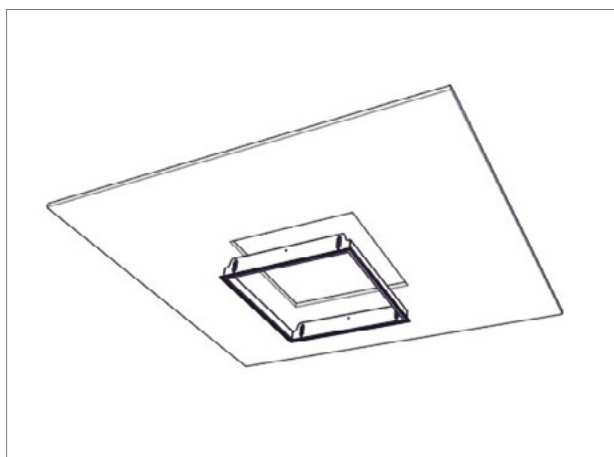
### Quick installation in 3 steps

1



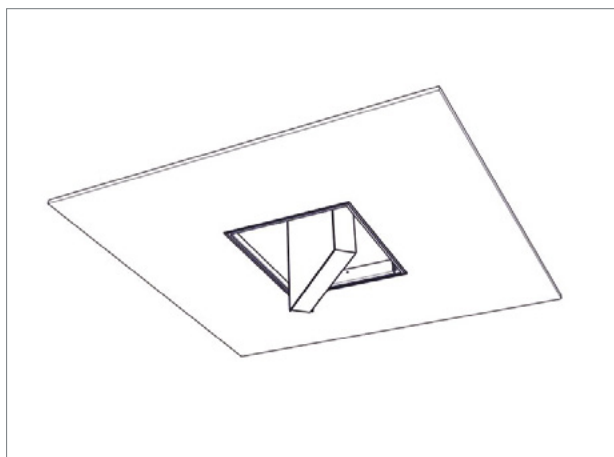
600 x 600 mm luminaire recessed cut out in the ceiling.

2



Installation of the luminaire support frame with springs and peripheral sealing gaskets.

3



Place the luminaire in its frame.

Salon  
de sortie



↓ BLOCS 15 à 21  
BOX

ENTRÉE CHAUFFAGE  
POUR BOÎTE

Blocs  
01 à 12



Salon 1

Salon 2





Applied to the ILUS 600 x 600 mm range, the process consists in printing images on the luminaire diffuser thus reproducing a realistic vision of the sky. The luminaire also fits perfectly with standard size false ceilings. Patients and caring personnel enjoy a luminous and decorative add-on favouring well-being in the working spaces where there is no daylight.





# SKYDECO



# TECHNICAL CHARACTERISTICS

Applied to the ILUS 600 x 600 mm range, the process consists in printing images on the luminaire diffuser thus reproducing a realistic vision of the sky. The luminaire also fits perfectly with standard size false ceilings.

Patients and caring personnel enjoy a luminous and decorative add-on favouring well- being in the working spaces where there is no daylight.

- Recessed luminaire with LED modules
- Working life 50 000 hours
- Opal diffuser made of Polymethyl methacrylate (PMMA)
- Lacquer coated white steel body
- Static cooling system
- Built-in quick connectors (GST)
- Color(s): White RAL 9016 satin finish
- Warranty: 5 years\*

### Driver(s)

Dali

### Classifications

Class  
I

650°

| Luminous flux | Sources  | Color temperature | Drivers |
|---------------|----------|-------------------|---------|
| 600x600 mm    | 5000 lm  | 6500 K            | DALI    |
| 1200x600 mm   | 10000 lm | 6500 K            | DALI    |

IP6X

LI

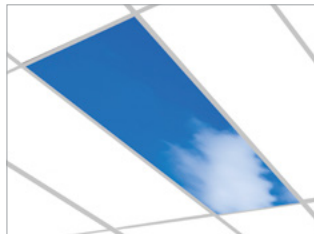


600 x 600 mm

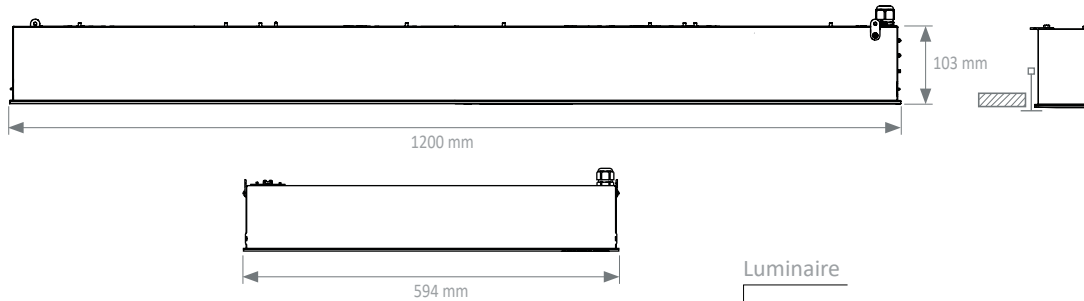


New

LI

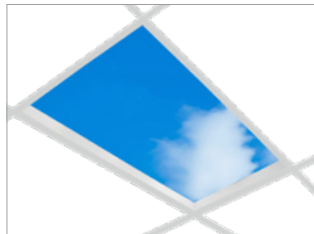


600 x 1200 mm

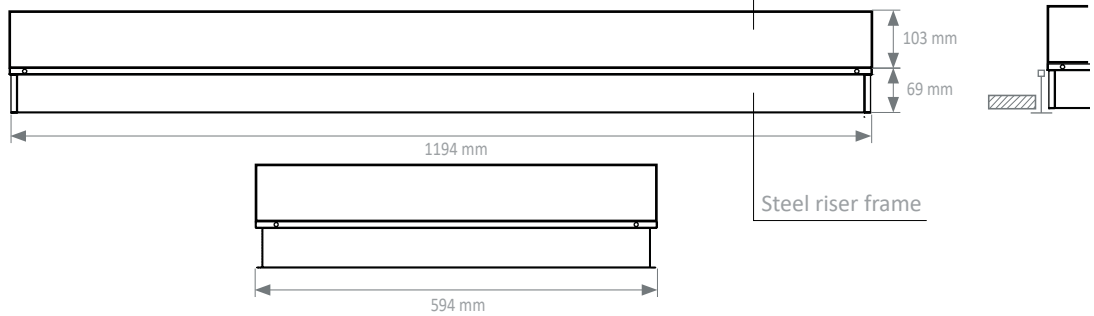


New

LI

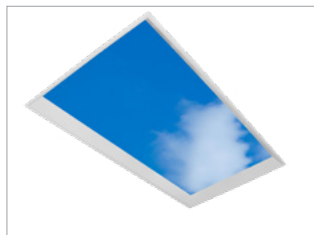


600 x 1200 mm

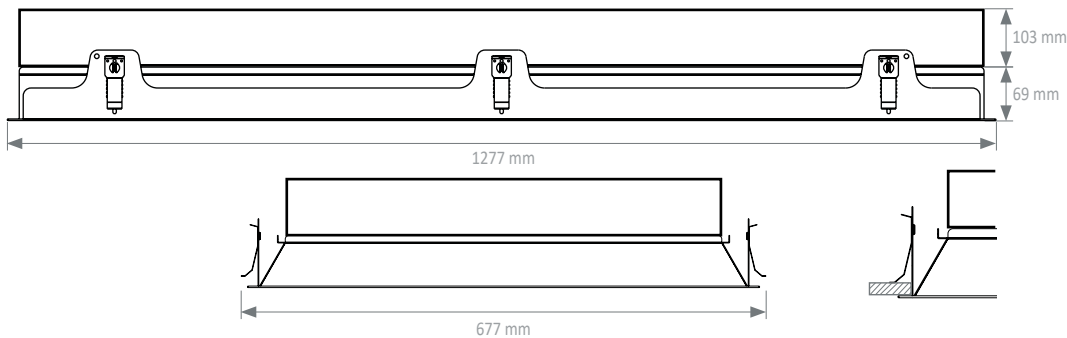


New

LO



600 x 1200 mm



\* See Terms and Conditions

## Applications

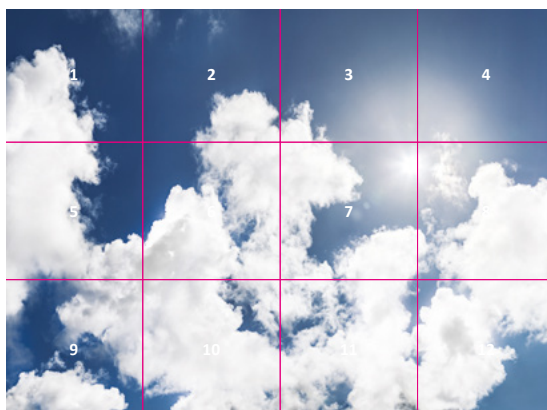
- Scanner
- Recovery room
- Radiology
- Pediatrics
- Dialysis
- Waiting room
- Hall and Circulation
- Offices

## Configurations (600 mm x 600 mm)

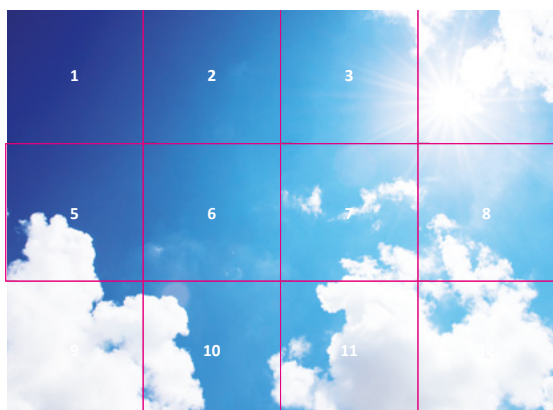
Design A



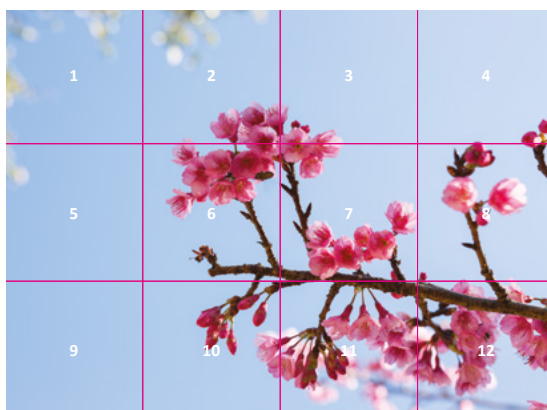
Design B



Design C



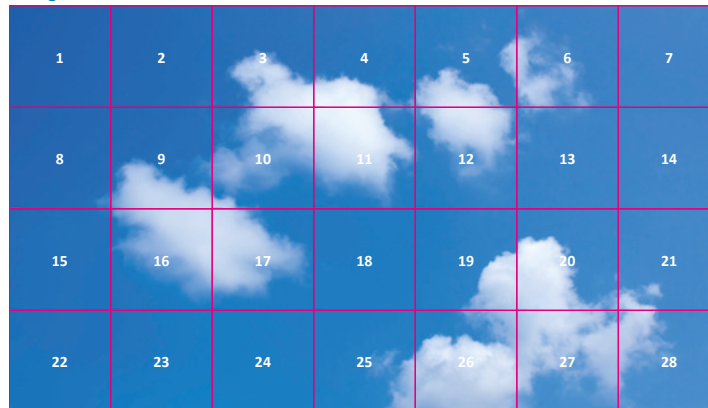
Design D



Design E - Max dimensions: 2m40 x 1m80



Design G - Max dimensions: 4m20 x 2m40



NB : To provide your own picture, the minimum size required are:

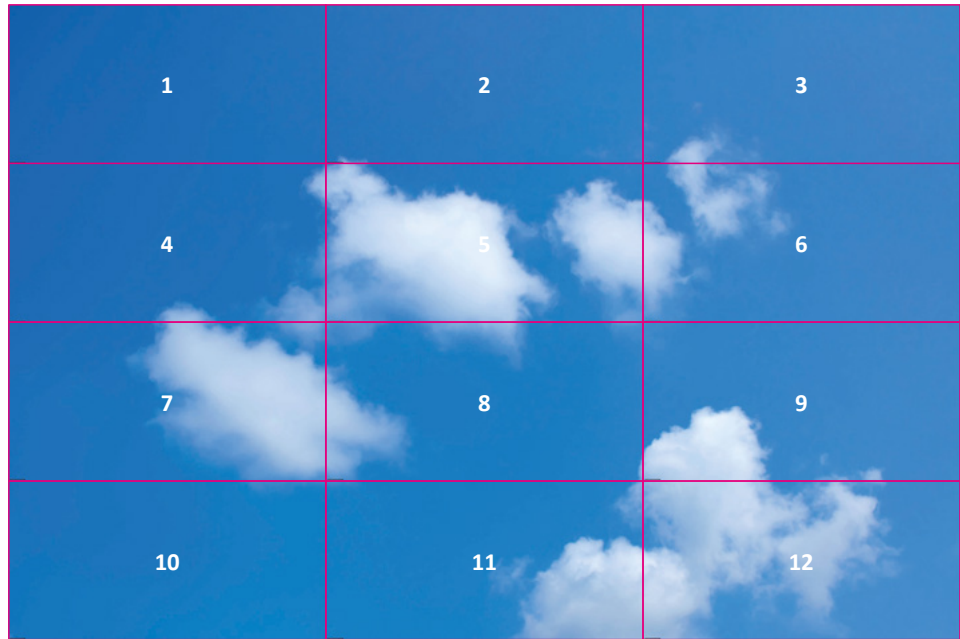
- 4 SKYDECO : 1200 x 1200 mm : 5669 x 5669 px - 150 dpi minimum
- 6 SKYDECO : 1800 x 1200 mm : 8504 x 5669 px - 150 dpi minimum
- 12 SKYDECO : 2400 x 1800 mm : 11339 x 8504 px - 150 dpi minimum

Configurations (600 mm x 1200 mm)

Design K - Max dimensions: 2m40 x 1m80



Design L - Max dimensions: 3m60 x 2m40



NB : To provide your own picture, the minimum size required are:

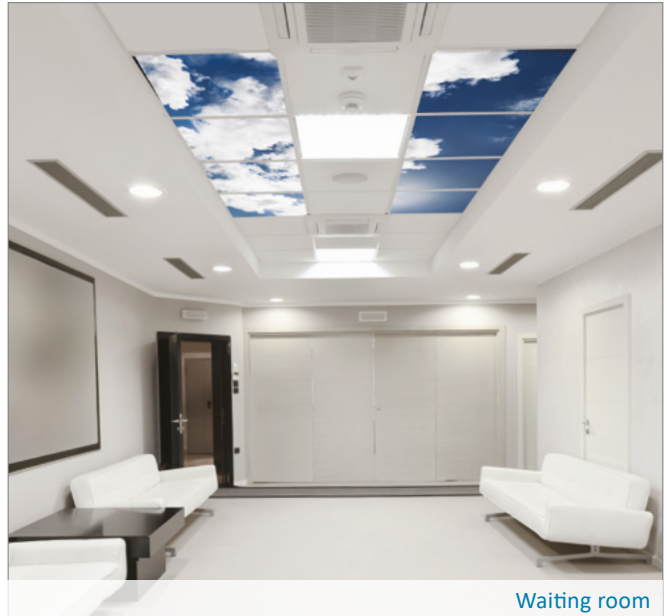
- 2 SKYDECO : 2400 x 600 mm : 14173 x 3543 px - 150 dpi minimum
- 4 SKYDECO : 2400 x 1200 mm : 14173 x 7087 px - 150 dpi minimum
- 6 SKYDECO : 2400 x 1800 mm : 14173 x 10630 px - 150 dpi minimum



## REALISATIONS



Delivery room



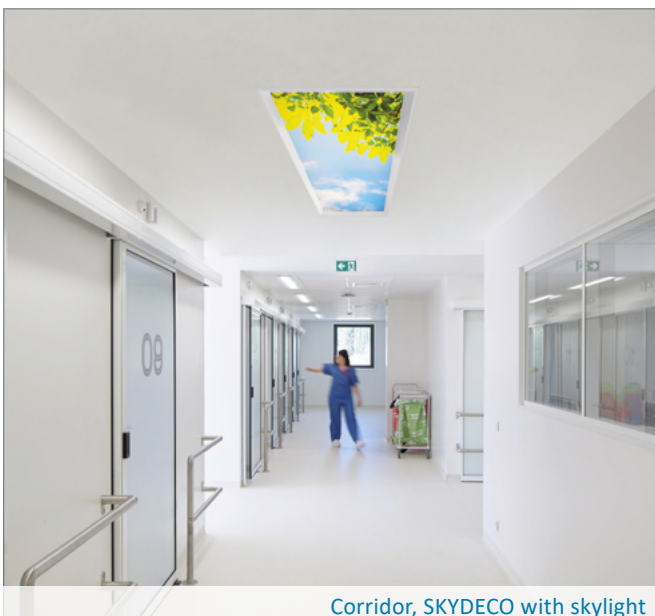
Waiting room



Recovery room



Patients waiting



Corridor, SKYDECO with skylight



Corridor, SKYDECO with skylight









The range STAGNO is suitable for operating rooms or clean rooms.



# STAGNO

## TECHNICAL FEATURES

The range STAGNO is suitable for operating rooms or clean rooms.

- Recessed luminaire for LED modules
- Depolished diffuser with MIRO 4 aluminum symmetric reflector for square and rectangular depolished versions
- Lay-in (LI)
- Lay-Out (LO) version offered with visible frame
- Easy mounting
- Powder painted white RAL 9003 housing
- Standard configuration CRI 90
- **New : available as option, UGR < 19 with microprismatic diffuser**

### Driver(s)

|       |      |
|-------|------|
| Fixed | Dali |
|-------|------|

### Classifications

|          |      |      |
|----------|------|------|
| Classe I | 650° | IK07 |
|----------|------|------|

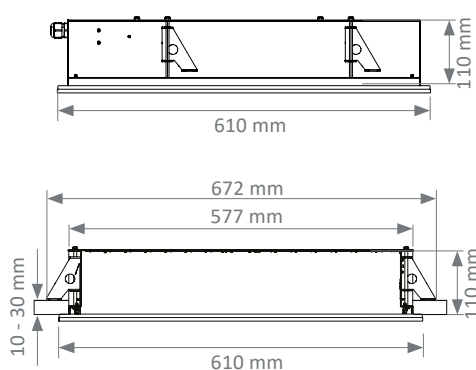
### Sealed

|                       |                |
|-----------------------|----------------|
| IP65<br>Under ceiling | IP40<br>Plenum |
|-----------------------|----------------|

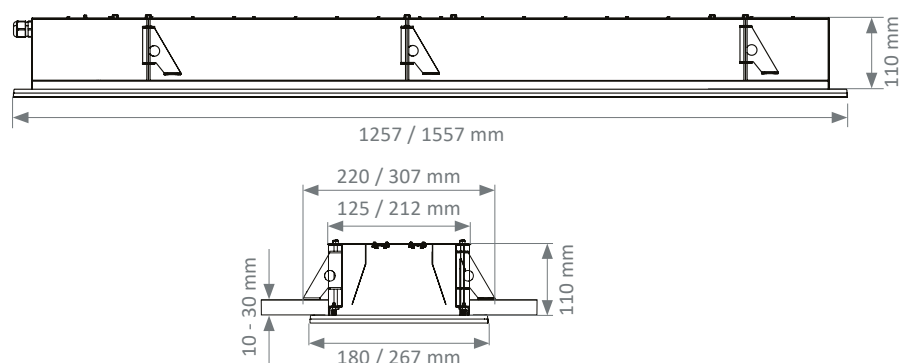
### Available in 2 versions



Square frosted glass version



Rectangular depolished version



## TECHNICAL FEATURES

| LED                                      | Item                                                                              | Luminous flux | Color Temperature | CRI | Modules Power | Consumption | System Efficiency | Driver(s)  | Mounting | Reference        |
|------------------------------------------|-----------------------------------------------------------------------------------|---------------|-------------------|-----|---------------|-------------|-------------------|------------|----------|------------------|
| Square frosted glass version             |  | 5000 lm       | 4000 K            | 90  | 28,3 W        | 32,9 W      | 154,7 lm/W        | Fixed Dali | LO       | 208490<br>208491 |
|                                          |  | 5000 lm       | 4000 K            | 90  | 28,3 W        | 32,9 W      | 154,7 lm/W        | Fixed Dali | LI       | 208500<br>208501 |
| Rectangular depolished version mono 1200 |  | 4400 lm       | 4000 K            | 90  | 24,9 W (4 Ft) | 29,3 W      | 149,07 lm/W       | Fixed Dali | LO       | 208482<br>208483 |
| Rectangular depolished version mono 1500 |  | 5500 lm       | 4000 K            | 90  | 35 W (5 Ft)   | 41,2 W      | 136,15 lm/W       | Fixed Dali | LO       | 208486<br>208487 |
| Rectangular depolished version duo 1200  |  | 8800 lm       | 4000 K            | 90  | 49,8 W (6 Ft) | 57,5 W      | 151,86 lm/W       | Fixed Dali | LO       | 208484<br>208485 |
| Rectangular depolished version duo 1500  |  | 11000 lm      | 4000 K            | 90  | 69,2 W (8 Ft) | 79,7 W      | 140,73 lm/W       | Fixed Dali | LO       | 208488<br>208489 |

**NEW**

### UGR <19 specific configurations (in 4H 8H 7 5 2)

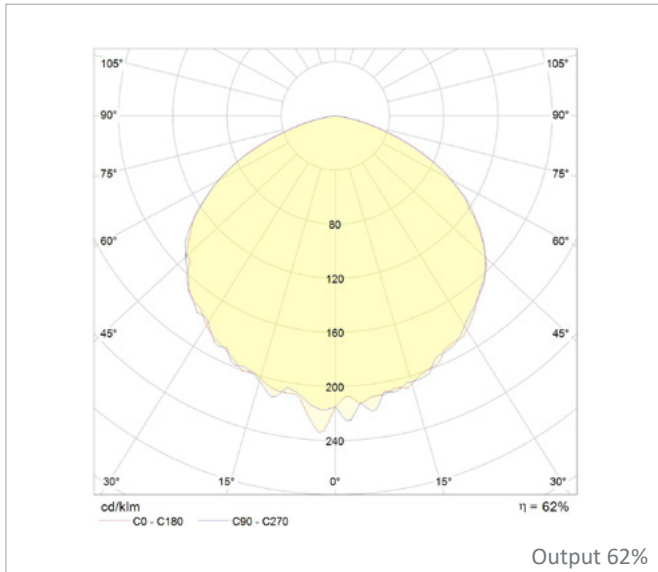
| Item                          |                                                                                     | Luminous flux | Color Temperature | CRI | Modules Power | Consumption | System Efficiency | Driver(s)  | Mounting | Reference        |
|-------------------------------|-------------------------------------------------------------------------------------|---------------|-------------------|-----|---------------|-------------|-------------------|------------|----------|------------------|
| Square version                |  | 5000 lm       | 4000 K            | 90  | 28,3 W (4 Ft) | 32,9 W      | 154,7 lm/W        | Fixed Dali | LO       | 802163<br>802164 |
| Square version                |  | 5000 lm       | 4000 K            | 90  | 23,5 W        | 32,9 W      | 154,7 lm/W        | Fixed Dali | LI       | 802165<br>802166 |
| Rectangular version mono 1200 |  | 4400 lm       | 4000 K            | 90  | 24,9 W (4 Ft) | 29,3 W      | 149,07 lm/W       | Fixed Dali | LO       | 802155<br>802156 |
| Rectangular version mono 1500 |  | 5500 lm       | 4000 K            | 90  | 35 W (5 Ft)   | 41,2 W      | 136,15 lm/W       | Fixed Dali | LO       | 802159<br>802160 |
| Rectangular version duo 1200  |  | 8800 lm       | 4000 K            | 90  | 49,8 W (6 Ft) | 57,5 W      | 151,86 lm/W       | Fixed Dali | LO       | 802157<br>802158 |
| Rectangular version duo 1500  |  | 11000 lm      | 4000 K            | 90  | 69,2 W (8 Ft) | 79,7 W      | 140,73 lm/W       | Fixed Dali | LO       | 802161<br>802162 |



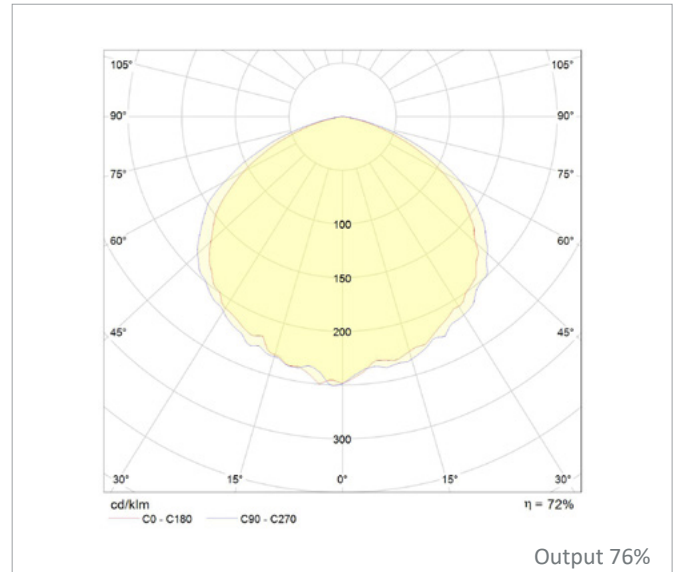
**STAGNO with microprismatic diffuser UGR <19**



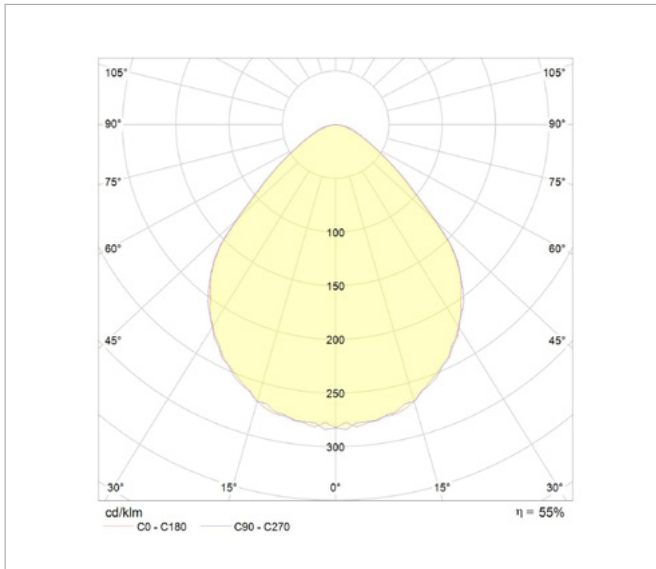
## 600x600 STAGNO



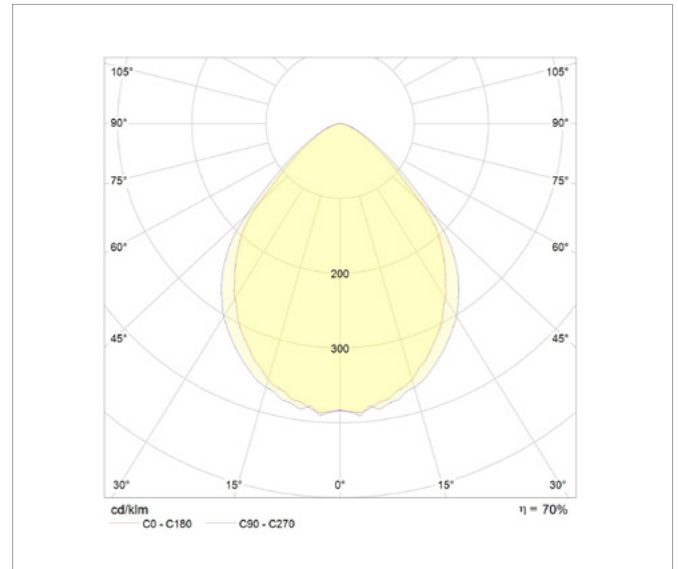
## Duo rectangular STAGNO 1200



## STAGNO microprismatic Square



## STAGNO microprismatic Rectangular Duo 1200



## MOUNTING

### Lay-Out (LO)

Bracket  
False ceiling  
Silicone seal all around the peripheral  
6 mm tempered glass thickness  
Diffuser mounting screws

### Lay-In (LI)

Rail ceiling frame  
False ceiling  
Silicone seal all around the peripheral seal  
6 mm tempered glass thickness  
Diffuser mounting screws

This type of installation requires to follow the recessed cut out dimensions of the luminaire.

This mounting is made directly on 600 x 600 mm false ceiling.









# BIOMEDICAL EQUIPEMENT

Medical gases monnitoring  
Biomedical accessories

SECURIDYS medical gas monitoring are dedicated to centralized or decentralized monitoring (production, care units, bottles, etc.) of the distribution of medical gases. They are equipped with modbus RTU or Modbus TCP/IP. They have a 5-inch touch screen and a USB port. The SECURIDYS offers an optional recessed box. Every SECURIDYS have 8 analog inputs and 16 logic inputs.

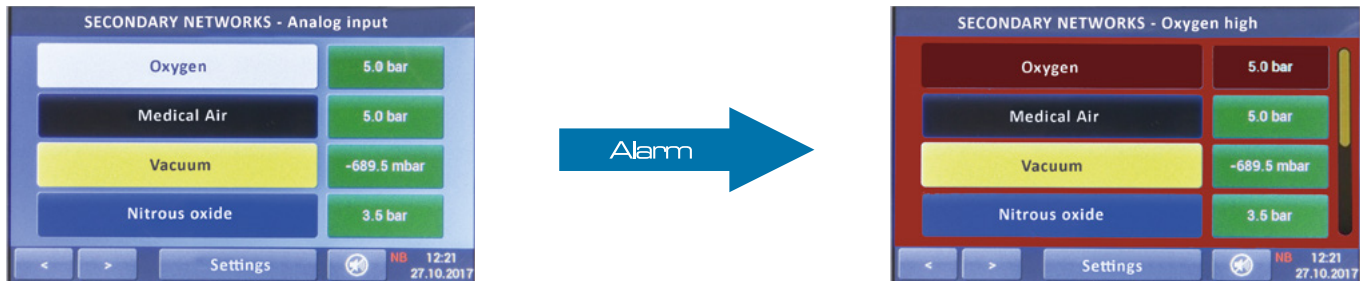




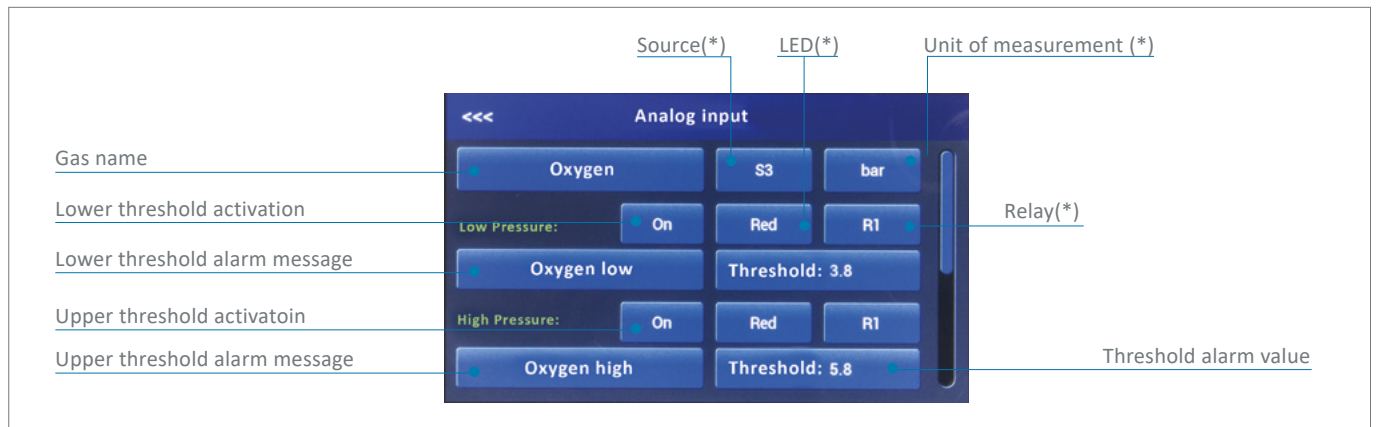
# SECURIDYS

## Signalling & Alarms

SECURIDYS 816 (8 analog inputs and 16 logic inputs) units have been awarded the CE Marking. They can be configured according to your needs, to monitor medical compressed gas distribution and vacuum systems in accordance with the standards and regulations in force. The analog and logic channels on eight different networks (sources, tanks, compressors...) can all be monitored by the same unit.



## Control



### \*Configuration :

- Unit of measurement: bar or mbar.
- Relay: R1 (activation of relay 1), R2 (activation of relay 2), R1-R2 (activation of relay), - (no activation of relay).
- LED: Red, Yellow, - (no LED).
- Affected source: S1, S2, S3, S4.

The dimensions of the box allow it to be installed in line with most medical gas devices on the market, with easy access for installation, wiring, configuration, and maintenance.



## FUNCTIONALITY

The various parameters of each of the analog or logic inputs and their transmitters (see table below) can easily be fine-tuned according to your specifications by entering an access code according to the standards and regulations in force.

### Background

|                          |              |
|--------------------------|--------------|
| Memory capacity          | 108 elements |
| Date display             | dd/mm/yy     |
| Page display             | active/total |
| Display of stored events | Yes          |
| Time display             | hh :mm       |



### Analog input

|                                          |                           |
|------------------------------------------|---------------------------|
| Type of network                          | One-press/ Two-press      |
| Section(s) monitored (1)                 | 1 to 4 (S1, S2, S3, S4) * |
| Gas name                                 | Name + color              |
| Unit of measurement                      | b or mb                   |
| Upper threshold alarm message            | 30 characters             |
| Upper pressure threshold                 | - 1000 to 1000            |
| Upper threshold alarm activation         | Activated or not          |
| Upper threshold audible and visual alarm | 2 options (2)             |
| Lower threshold alarm message            | 30 characters             |
| Lower pressure threshold                 | 0 to 1000 or 0 to -1000   |
| Lower threshold alarm activation         | Activated or not          |
| Lower threshold audible and visual alarm | 2 options (2)             |



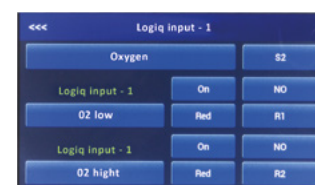
### Analog sensor

|                                                  |                  |
|--------------------------------------------------|------------------|
| Pressure corresponding to 20 mA                  | - 1000 to 1000   |
| Pressure corresponding to 4 mA                   | - 1000 to 1000   |
| Pressure correction (offset)                     | - 1000 to 1000   |
| Sensor error alarm message                       | 30 characters    |
| Sensor error alarm activation                    | Activated or not |
| Sensor error audible and visual alarm indication | 2 options (2)    |
| Sensor error alarm indication delay              | 0 to 250 seconds |



### Logic input

|                                             |                                                                                   |
|---------------------------------------------|-----------------------------------------------------------------------------------|
| Type of network                             | One press -> individual logic input<br>Two press -> Logic inputs coupled (S2 ;S3) |
| Section(s) controlled (1)                   | S1, S2, S3, S4*                                                                   |
| Gas name                                    | 30 characters                                                                     |
| Digital alarm message                       | 30 characters                                                                     |
| Digital alarm activation                    | Activated or not                                                                  |
| Digital audible and visual alarm indication | 2 options (2)                                                                     |
| Digital contact type                        | NC or NO                                                                          |



\* S1 : Supply source  
S2 : Primary network  
S3: Secondary network  
S4: Single supply

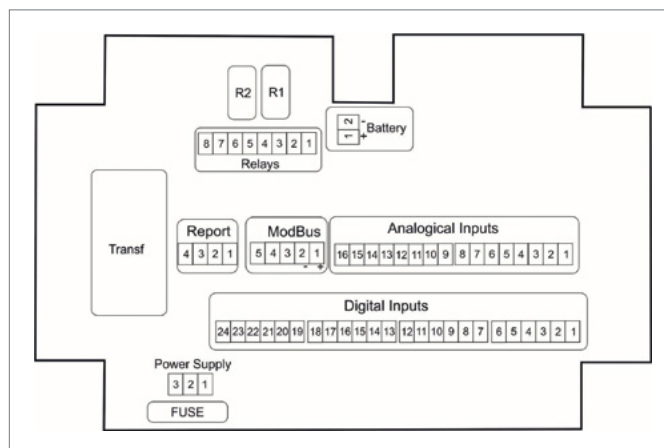
(1) In double pressure configuration only  
(2) Emergency operation

## INSTALLATION

The box can be connected either from the wall or any of the four sides of the box.

### Maintenance

All the equipment is grouped in the front of the case and secured to the facade. The connectors are unpluggable, equipped with a polarizing device and identified according to the diagram below:



The saving and loading of the client configuration are achieved through the USB interface and via the 5 " touch screen.

### Signal report

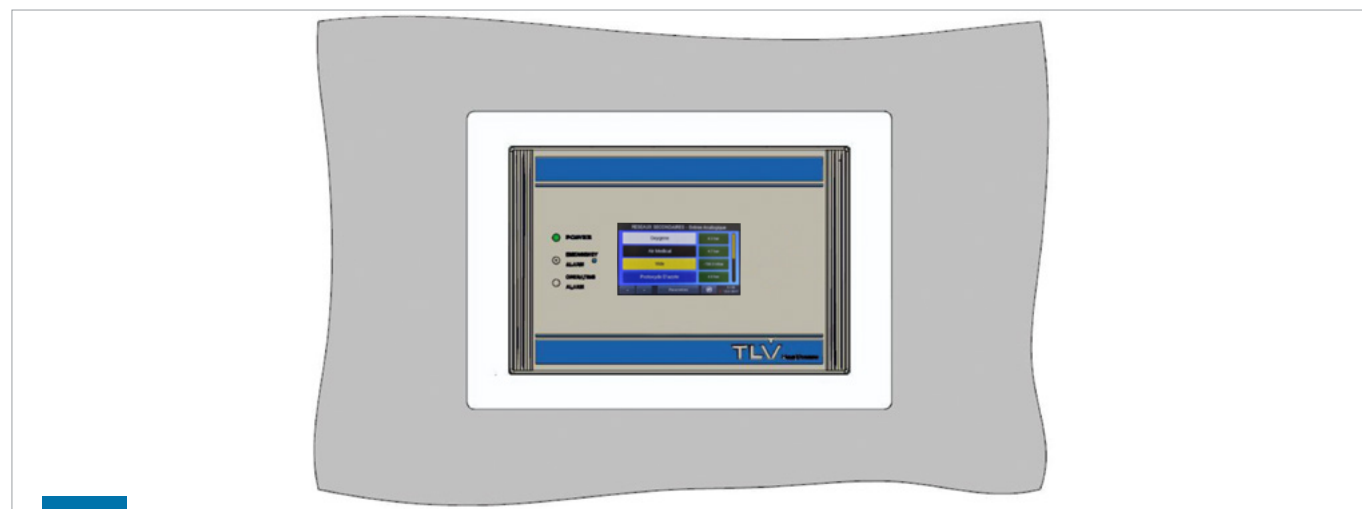
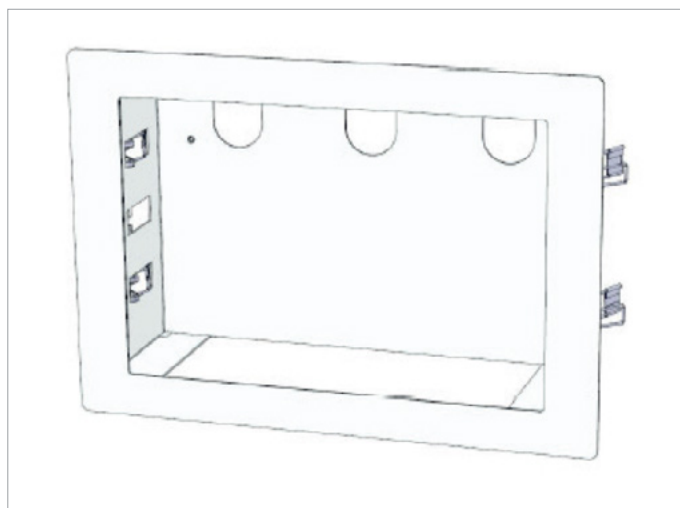
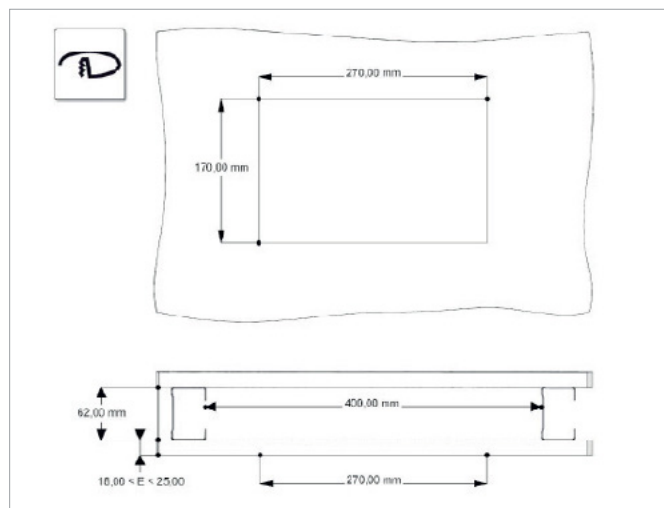
Communication via the RS 485 BUS dedicated to transfer offers all the possibilities of signal transfer to the transfer modules via two-pair cables from one transfer to another over a cable distance of up to 1000 meters\*.



The OLED screen of the SEC MIR report displays all the information and alarms of the unit. The OLED screen module lets you view the same data as a mirror unit but at lower cost and with the advantage of a more compact unit.

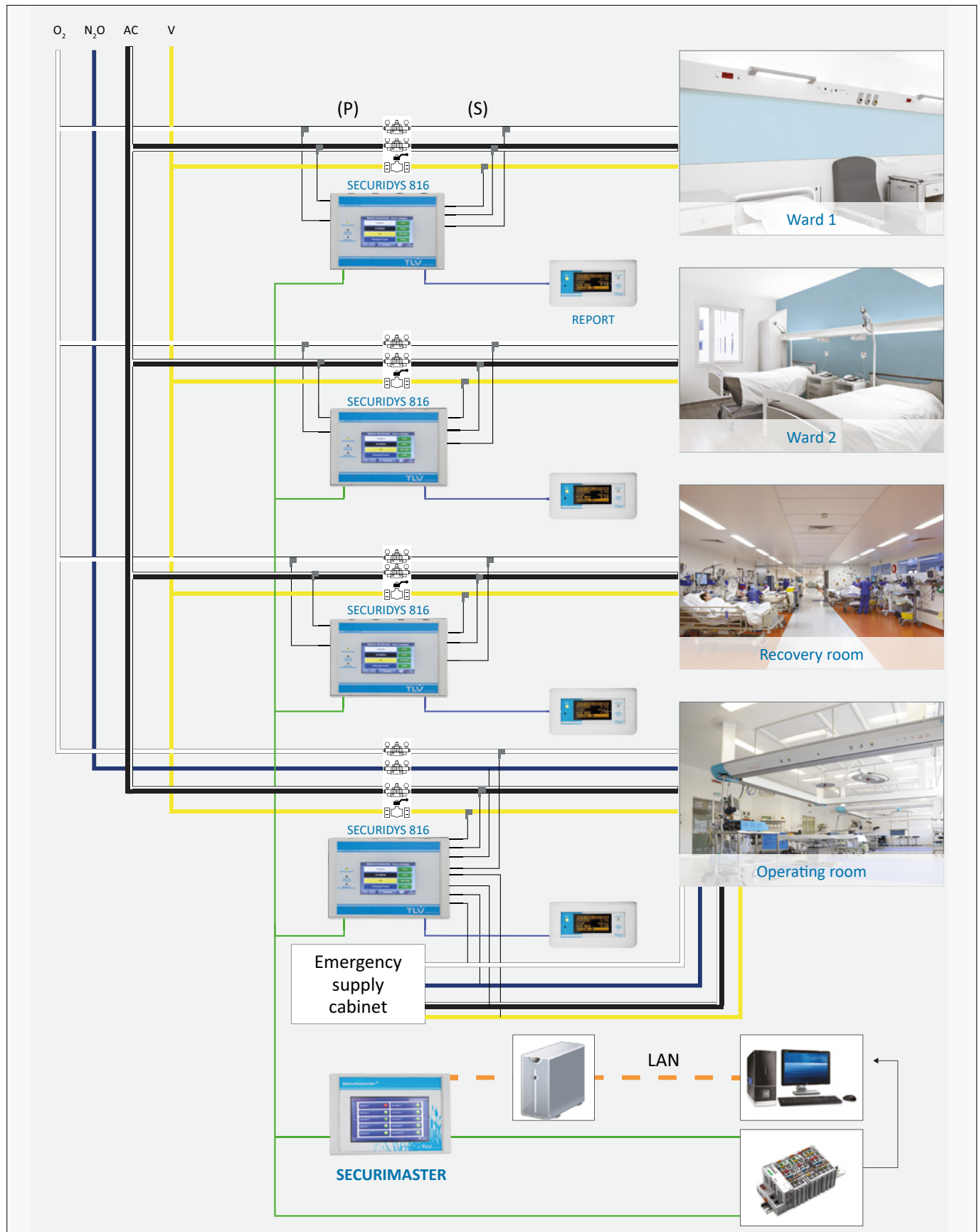
The flush or surface mounting are easier by using MOSAIC 45 dimension.

The SECURIDYS offers asoption, a recessed box.



## ENHANCED MONITORING OF YOUR MEDICAL GASES NETWORKS

The various solutions offered by the SECURIDYS product range allow easy transmission of signals and alarms in your medical gases networks.



- RS 485 BUS transfer cable\*
- 485 Modbus\*RTU or TCP/IP
- TCP/IP Ethernet cable

- (P) Primary
- (S) Secondary



## SIGNAL TRANSMISSION

The real-time availability and storage of signals is essential, whether this concerns a maintenance standby signal or connection to a CTM or BMS software package.

The SECURIDYS range offers every possible technological opportunity to send, centralize, save, and analyze information obtained by monitoring your medical gas networks.

### With the RS 485 RTU BUS or TCP/IP protocol, transfer all the data concerning the status of your gas

Information is transferred from the units to the transfer modules by a different RS 485 BUS from the one dedicated to Centralized Technical Management or the Building Management System. The Securidys is able to manage two communication protocols: ModBus RTU and ModBus TCP / IP.

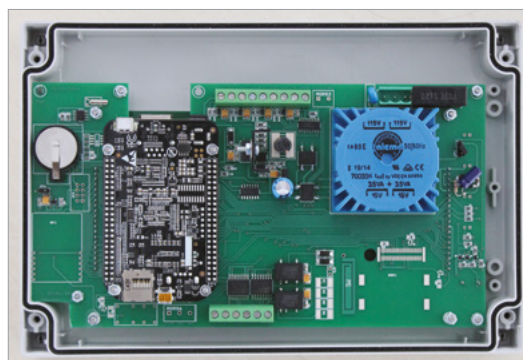
The ModBus RTU protocol of SECURIDYS units, with their built-in power supply, allow data to be transferred safely over a distance of 1000 meters via a Belden 9841 or equivalent cable.

The ModBus TCP / IP protocol uses the intranet network of the hospital for the transfer of information.

### With SECURIMASTER, it is easy to centralize the data on your touch screen

When connected to the units via the RS 485 BUS, SECURIMASTER lets you centralize the monitoring and alarm data from 30 SECURIDYS or five SECURIMASTER units.

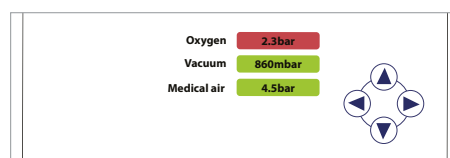
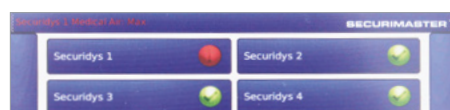
The SECURIMASTER supervision module provides you with remote information via the Modbus RS485 TCP/IP or BACNET protocols.



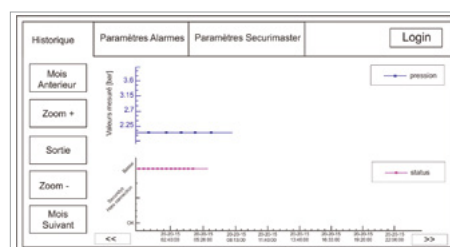
### Data processing

On the SECURIMASTER screen, you can monitor the status of each SECURIDYS alarm unit connected.

Select one of the icons to switch to a screen representing the alarm unit of the service concerned, with the gas pressure values.



Select one of the gases to view its data history.



## TECHNICAL AND NORMATIVE SPECIFICATIONS

### Monitoring and alarm system for compressed gas distribution and vacuum networks

#### SECURIDYS alarm units

| Part No. | Model          | Description                                                                           |
|----------|----------------|---------------------------------------------------------------------------------------|
| 519368   | SECURIDYS 816  | 8 analog inputs and 16 logic inputs with MODBUS interface                             |
| 519347   | SECURIMASTER + | Supervision unit for 30 units or five supervision units with interface MODBUS RTU     |
| 815699   | SECURIMASTER + | Supervision unit for 30 units or five supervision units with interface TCP/IP MODBUS  |
| 815700   | SECURIMASTER + | Supervision unit for 30 units or five supervision units with interface TCP/IP BAC NET |
| 519361   | SECURIREP      | Amplifier module / repeater / RS 485 MODBUS (1) signal isolator                       |
| 517061   | SEC a          | 12 V DC power supply for amplifier module                                             |
| 518369   | SEC b          | Spare battery for SECURIDYS 816                                                       |

(1) 12 V DC power supply not included

#### SECURIDYS alarm report

| Part No. | Model         | Description                                                   |
|----------|---------------|---------------------------------------------------------------|
| 519222   | SECURIDYS MIR | OLED screen alarm information transfer module (2)             |
| 519209   | SECURIDYS BMS | Surface-mounted transfer module box (LEGRAND Cat. No. 802 85) |
| 500569   | SECURIDYS BME | Flush-mounted transfer module box (LEGRAND Cat. No. 800 42)   |

(2) On five-module MOSAIC support (LEGRAND Cat. No. 802 52) supplied with horizontal plate (LEGRAND Cat. No. 788 15)

#### SECURIDYS sensors and accessories

| Part No. | Model   | Description                                                                     |
|----------|---------|---------------------------------------------------------------------------------|
| 815601   | SEC 206 | Degreased pressure sensor 0 / 16 bar (4 - 20 mA) (3)                            |
| 815602   | SEC 207 | Negative pressure sensor 0bar / -1000 bar (4 - 20 mA) (3)                       |
| 519214   | SEC 201 | Pressure switch, adjustment range 4 to 9 bar, maximum pressure 20 bar           |
| 519215   | SEC 202 | Pressure switch, adjustment range 9 to 15 bar, maximum pressure 20 bar          |
| 519218   | SEC 205 | Negative pressure switch, adjustment range -150 to -1000 mbar                   |
| 519220   | SEC 210 | Weldable microleak mounting base for M10 sensor on pipe                         |
| 519228   | SEC CCF | Replacement cable for analog sensor, length 2 meters, and M10 (IP 67) connector |
| 815690   | Z4052   | Recessed box for SECURIDYS                                                      |

(3) All of our sensors are supplied with 2-m cable and M12 (IP67) connector

TLV offers a large range of biomedical accessories, examination lamps, tilting swivel arm for screen, monitor, keyboard, telescopic IV pole, rails, trays, drawers, nurse call...



# BIOMEDICAL ACCESSORIES

## CARE AND EXAMINATION LAMPS

LED



### Care LED lamp with dimming on articulated arm with clamp

This lamp is really convenient for examinations and is suitable for resuscitation ward or patient rooms.

Length : 885 mm  
Light output 30000 Lux / 0,5 m  
Field of illumination 300 mm / 0,5 m  
Color temperature 4400 K  
CRI > 93

For horizontal rail, ref : 815652

For vertical tube or rail, ref : 815653

LED



### Care LED lamp on articulated arm

This lamp can be used in examination rooms or ICU. It provides reliable and ideal lighting for medical examinations.

#### 1 color temperature, with clamp

Length : 940 mm  
Light output 50000 Lux / 0,5 m  
Field of illumination 180 mm  
Color temperature 4 400 K  
CRI > 93

For horizontal rail, ref : 815654

For vertical tube or rail, ref : 815655

#### 3 color temperatures, with clamp, 5 gradation level

Light output 50000 Lux / 0,5 m  
Field of illumination 180 mm  
Color temperature 3 300 K / 3 800 K / 4 400 K  
CRI > 93

For horizontal rail, ref : 815656

For vertical tube or rail, ref : 815657

LED



### LED lamp on flexible arm

This lamp is suitable for daily medical examinations.

Length : 1000 mm  
Light output 50000 Lux / 0,5 m  
Field of illumination 180 mm  
Color temperature 4 400 K  
CRI > 93

For horizontal rail, ref : 815714

For vertical tube or rail, ref : 815715



## CARE AND EXAMINATION LAMPS

LED



### LED lamp on articulated arm with clamp

Length : 991 mm  
Light output 50000 Lux / 0,5 m  
Field of illumination 100 mm  
Color temperature 4 300 K

For horizontal rail, ref : 815662

For vertical tube or rail, ref : 815663

LED



### LED minor spot and examination lamp with double joint rigid arm (clamp included)

This care lamp is ideal for emergencies, neonatology or in addition in operating rooms for small or ambulatory surgeries. It can be screwed onto the ceiling anchoring of the TECH-CARE pendant.

Length : 1750 mm (+ tige verticale min 700 - max 1200)  
Light output 80000 Lux / 1m  
Field of illumination 180 mm  
Color temperature 4 500 K  
CRI > 95

For ceiling mounting, ref : 815706

For wall mounting, ref : 815707

LED



### Wall-mounted LED lamp

Length : 1850 mm  
Light output > 40000 Lux / 1 m  
Field of illumination < 240 mm  
Color temperature 4 500 K

Ref : 519143

## EXAMINATION LAMPS

LED



### LED lamp on articulated arm, 2 color temperatures with clamp, 4 dimming level

This lamp is perfect for sensitive areas like neonatology or ICU/Resuscitation.

Length : 1080 mm

Light output 60000 Lux / 0,5 m

Field of illumination 210 mm

Color temperature 3 500 K / 4 500 K

CRI > 93

For horizontal rail, ref : 815658

For vertical tube or rail, ref : 815659

## CARE AND READING LAMPS

LED



Option without switch

### Care and reading LED lamp on flexible arm

It is particularly recommended for reading in the patient rooms of hospitals or retirement homes.

Length : 800 mm

Light output 1100 Lux / 0,5 m

Field of illumination 600 mm

Color temperature 3 000 K

CRI > 80

For horizontal rail, ref : 815708

For vertical tube or rail, ref : 815709

#### As option:

This lamp is available without switch. In this case the control will be done directly from the nurse call pear.

For horizontal rail, ref : 815710

For vertical tube or rail, ref : 815711

LED



### Care and reading LED lamp on flexible arm

This lamp is mainly used for reading in retirement homes. The handle integrates a luminous ON/OFF switch. It enables easy use and positioning.

Length : 820 mm

Light output 1000 Lux / 0,5 m

Field of illumination 450 mm

Color temperature 3 000 K

CRI > 95

For horizontal rail, ref : 815712

For vertical tube or rail, ref : 815713

## Monitor stand

Swivel arm, length 300 mm, for VESA quick-fit panel (18 kg max.)



For horizontal rail, ref : 511508



For wall vertical rail, ref : 511510



For vertical Ø38 tube, ref : 519126

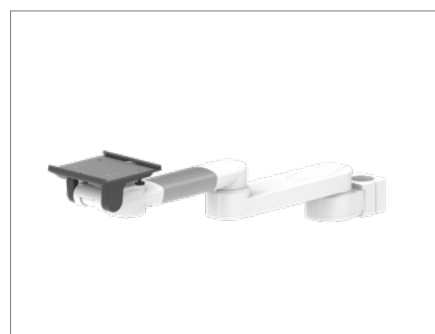
Swivel arm, length 300+300 mm, for VESA quick-fit panel (18 kg max.)



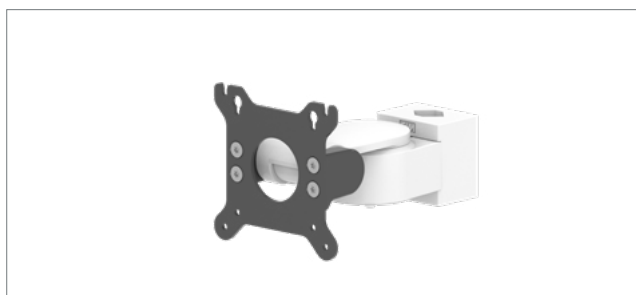
For horizontal rail, ref : 511509



For vertical rail, ref : 511511



For vertical Ø38 tube, ref : 511524



VESA 75 /100 mm monitor stand on clamp for tube (Ø 23-40 mm)

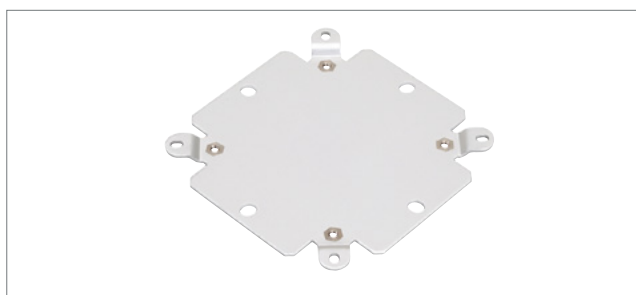
Ref : 815489



Height adjustable arm 450 mm offset 438 mm vertical travel for VESA monitor (16 kg max)

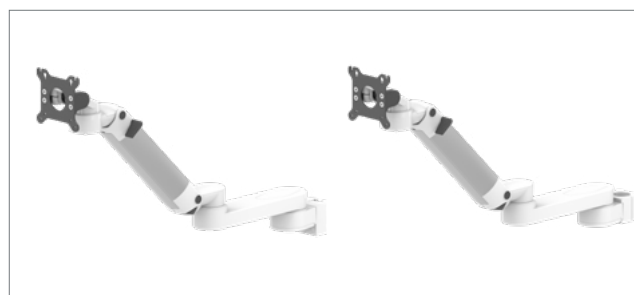
For vertical rail, ref : 511512

For vertical Ø38 tube, ref : 511525



VESA quick adapter panel

Ref : 519131

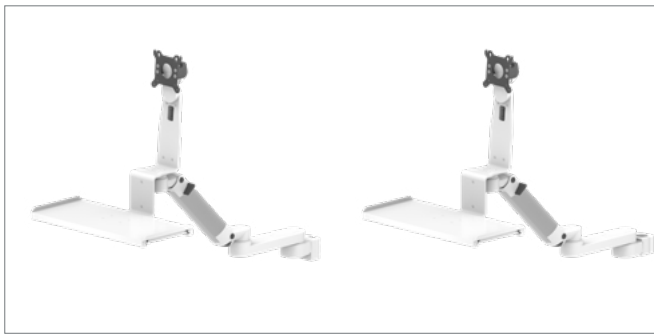


Height adjustable arm 450 mm offset, 438 mm vertical travel with 230 mm extension for VESA monitor (16 kg max)

For vertical rail, ref : 511513

For vertical Ø38 tube, ref : 511526

## TILTING SWIVEL ARM FOR KEYBOARD AND MOUSE



**Height-adjustable monitor/keyboard stand, 450 mm offset, 438 mm vertical travel with 230 mm extension (16 kg max)**

For vertical rail, ref : 511514

For vertical Ø38 tube, ref : 511530



**Height adjustable arm, 450 mm offset, 438 mm vertical travel with 230 mm extension (5 kg max on the tray)**

For vertical rail, ref : 511694

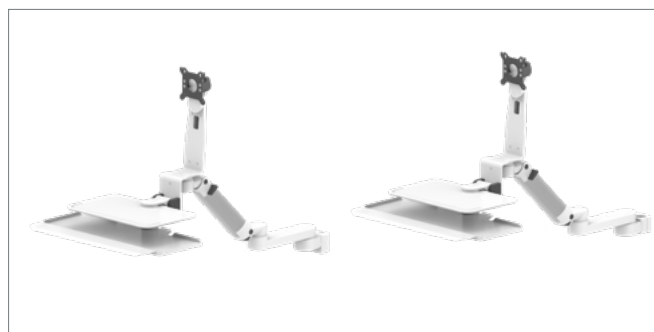
For vertical Ø38 tube, ref : 511695



**Monitor/keyboard stand with height-adjustable work surface, 450 mm offset, 438 mm vertical travel (14 kg max)\***

For vertical rail, ref : 511580

For vertical Ø38 tube, ref : 511577



**Monitor/keyboard stand with height-adjustable work surface, 450 mm offset, 438 mm vertical travel with 230 mm extension (14 kg max)\***

For vertical rail, ref : 511578

For vertical Ø38 tube, ref : 511579

\* For other loads, please consult us.

## TILTING SWIVEL ARM FOR KEYBOARD AND MOUSE

---



**Height adjustable arm, 524 mm horizontal extension, vertical travel 330 mm**

**Load max : 9 kg**

For vertical rail, ref : 815349

For vertical Ø38 tube, ref : 815339



**Height adjustable arm, 524 mm horizontal extension, vertical travel 330 mm**

For vertical rail, ref : 815350

For vertical Ø38 tube, ref : 815340



**Height adjustable screen and keyboard stand with work surface 433 mm horizontal extension, vertical travel 508 mm (max 14,5 kg)**

For vertical Ø38 tube, ref : 815687



## ACCESSORIES



**Universal cable conduit  
for 25x10 rail or Ø38  
tube (batch of 4)**

Ref : 815121



**Universal clamp**

Ref : 519100



**Ø25 tube clamp**

Ref : 519101



**Ø18 tube clamp**

Ref : 519129



**Telescopic IV pole, 4 hooks  
on arm with 300 mm  
horizontal extension  
Load max :  
all 32 kg and 2 kg / hook**

For vertical rail or tube,  
ref : 815487

For horizontal rails,  
ref : 815196



**Secondary stainless steel  
tube Ø25 x 1000 mm  
on arm with 300 mm  
horizontal extension  
Load max : 28 kg**

For vertical rail or tube,  
ref : 815125

For horizontal rails,  
ref : 815526



**Set of two telescopic IV  
poles, 4 hooks for Ø38  
mono tube trolley  
Load max :  
all 32 kg and 2 kg / hook**

Ref : 815488



**Telescopic IV pole, 4  
hooks for horizontal rail  
Load max : 2 kg / hook**

Ref : 519108



**Telescopic IV pole, 6  
hooks for horizontal rail  
Load max : 2 kg / hook**

Ref : 519109



**Telescopic elbowed  
IV pole, 3 hooks for  
horizontal rail (bed head  
unit or wall mounted)  
Load max : 2 kg / hook**

Ref : 519110

## ACCESSORIES



**Telescopic elbowed IV pole, 4 hooks for horizontal rail (bed head unit or wall mounted)**  
Load max : 2 kg / hook

Ref : 519111



**Telescopic IV pole, 4 hooks for horizontal rail**  
Load max : 2 kg / hook

Ref : 519112



**Elbowed IV pole with 6 hooks**  
Load max : 3 kg

Ref : 815076



**Articulated arm (approx. 1000 mm) with 4 hooks for Ø23 tube (clamp not included)**

Ref : 519113



**Monitor shelf, 540 x 360 mm / 40 kg**

Ref : 519114



**Monitor shelf, 540 x 360 mm / 40 kg with one 420 x 310 mm drawer**

Ref : 519115



**Monitor shelf, 540 x 360 mm / 40 kg with two 420 x 310 mm drawer**

Ref : 519116



**Off-center rail on clamp 25 x 10 x 355 mm**  
Load max : 14 kg

Ref : 519117



**Centered rail on clamp 25 x 10 x 355 mm**  
Load max : 14 kg

Ref : 519118



**Tilt shelf 300 x 300 mm on offset arm / 10 kg**

Ref : 915083

## ACCESSORIES



**Shelf, 300 x 200 mm / 4 kg**

Ref : 519134



**Fixed shelf, 365 x 290 mm / 15 kg**

Ref : 519061



**Folding shelf, 465 x 300 mm / 6 kg**

Ref : 519060



**Probe holder with one compartment, 410 x 160 x 70 mm, with 2 hooks for horizontal rail**

Ref : 519056



**Probe holder with three compartments, 510 x 380 x 70 mm, with 2 hooks for horizontal rail**

Ref : 519057



**Document holder**

Ref : 519066

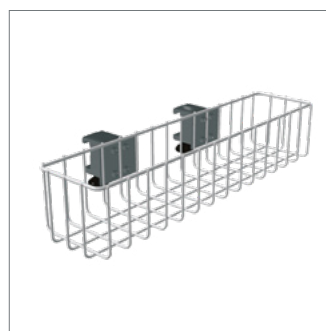


**Stainless steel support for 8 L bags**

Ref : 519063

**8 L bags, Qty. 50**

Ref : 519064



**Basket made of powder-coated steel 500 x 120 x 100 mm with 2 clamps for horizontal rail**

Ref : 519163



**Basket made of powder-coated steel 250 x 90 x 200 mm with clamp for horizontal rail**

Ref : 519162



**Glove box holder 260 x 132 x 100 mm with clamp for horizontal rail**

Ref : 519128

## ACCESSORIES



**Glove box holder**  
200 x 134 x 90 mm with 2  
hooks for horizontal rail

Ref : 519164



**Mask stand**

Ref : 519062



**Double rail for shuttle**  
25 x 10 x 650 mm  
Load max : 20 kg

Ref : 815104



**Jar-holder rail for vertical  
box or Multicare. Load  
max : 30 kg**

Ref : 815451



**Wall rail made of  
aluminum 25 x 10 mm  
(per meter)**

Ref : 535506



**Secondary stainless steel  
tube Ø25 x 500 mm on  
clamp**

Ref : 815126



**Secondary stainless steel  
tube Ø38x1500 mm on  
clamp for horizontal bed  
head rail / wall rail  
Load max : 30 kg**

Ref : 815127

**Secondary stainless steel  
tube Ø38x1500 mm on  
clamp for horizontal rails  
Load max : 30 kg**

Ref : 815128



**Sliding trolley SM 60  
Ø38 Mono tube (tray not  
included)**

Ref : 815325



**View protection  
assembly (140 x 120 cm)**

Ref : 519067

**View protection  
assembly (230 x 140 cm)**

Ref : 519069



**Mounting interface  
for view protection  
assembly.**

For rail or Ø38 vertical  
tube, ref : 815090

For horizontal rail,  
ref : 815341

## ACCESSORIES



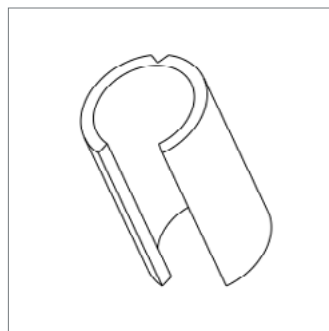
**Secondary stainless steel tube Ø38 x 1000 mm, for vertical rail**

Ref : 815243



**Extra tube system to hold accessories Ø30**

Réf : 815702



**Adapter Ø30 for tube Ø38**

Ref : 510088



## ACCESSORIES



**Nurse call pear push with normally open contact and two-pin plug**

Close contact, ref : 517100  
Open contact, ref : 517212

**Four-function handset (general, reading, call + indicator light) with 10-pin plug**

Ref : 517193

**Two-function handset (reading, call + indicator light) with 10-pin plug**

Ref : 517199

**Three-function handset (general, reading, aux., call + indicator light) with 10-pin plug**

Ref : 517190

**Five-function handset (general, reading, up, down, call + indicator light) with 10-pin plug**

Ref : 517191



**DIN 10-pin plug on Mosaic 45 two-module support**

Ref : 504017



**Male/Female pull-out cord**

Ref : 517200



**Wall bracket for handset**

Ref : 549150



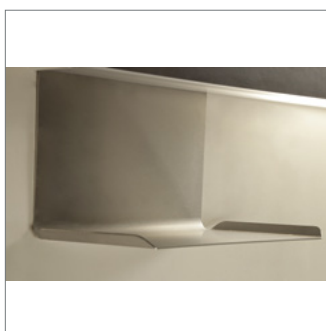
**Horizontal box handset**

Ref : 517241



**Stainless steel vertical tube support for accessories, dedicated to AXIS**

Ref : 825317



**Stainless steel tablet support for accessories, dedicated to AXIS**

Ref : 825316

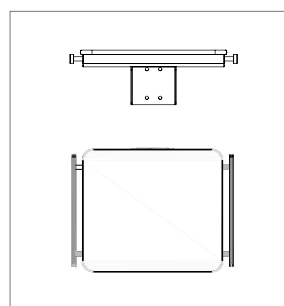


**NATLYS circulation lighting**

Ref : 891230

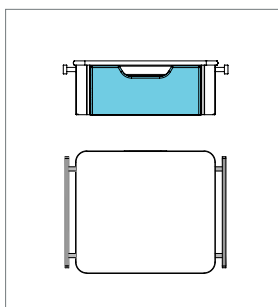
## ACCESSORIES

### Tray(s) / drawer(s) for column, box, bed head unit or ø 38 tube



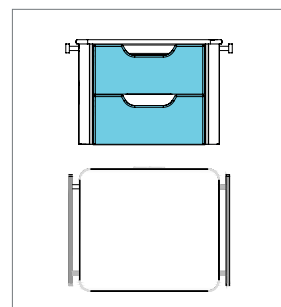
**Tray 405x355 mm with lateral rail without mount (40 kg max)**

Compact white finish  
Ref : 815671



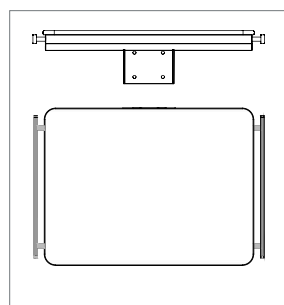
**Tray unit 405x355 mm with single drawer and lateral rails without mount (40 kg max)**

Compact white finish  
Ref : 815673



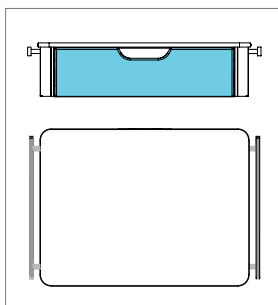
**Tray unit 405x355 mm with double drawer and lateral rails without mount (40 kg max)**

Compact white finish  
Ref : 815675



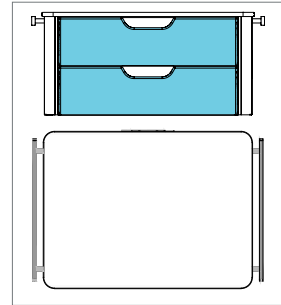
**Tray 605x455 mm with lateral rails without mount (60 kg max)**

Compact white finish  
Ref : 815677



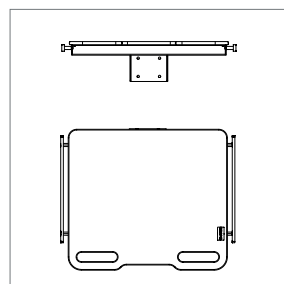
**Tray unit 605x455 mm with single drawer and lateral rails without mount (60 kg max)**

Compact white finish  
Ref : 815679



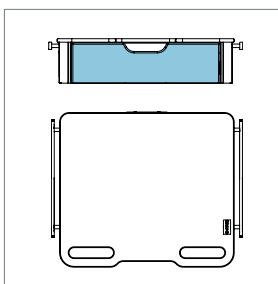
**Tray unit 605x455 mm with double drawer and lateral rails without mount (60 kg max)**

Compact white finish  
Ref : 815681



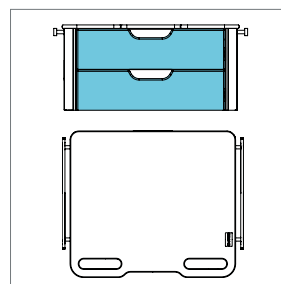
**Tray unit 605x455 mm with lateral rails with handles (60 kg max)**

Compact white finish  
Ref : 815648



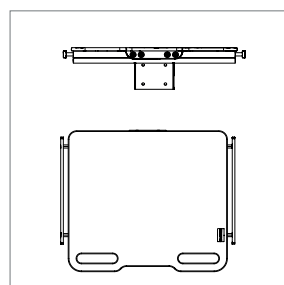
**Tray unit 605x455 mm with single drawer and lateral rails with handles (60 kg max)**

Compact white finish  
Ref : 815649



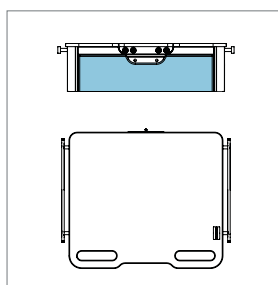
**Tray unit 605x455 mm with double drawer and lateral rails with handles (60 kg max)**

Compact white finish  
Ref : 815650



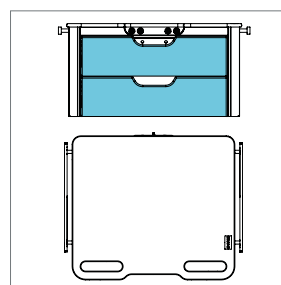
**Tray unit 605x455 mm with lateral rails with handles and control buttons (60 kg max)**

Compact white finish



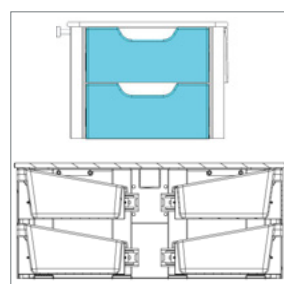
**Tray unit 605x455 mm with single drawer and lateral rails with handles and control buttons (60 kg max)**

Compact white finish  
Ref : contact us



**Tray unit 605x455 mm with double drawer and lateral rails with handles and control buttons (60 kg max)**

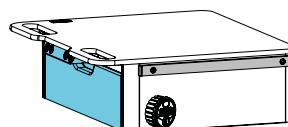
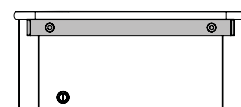
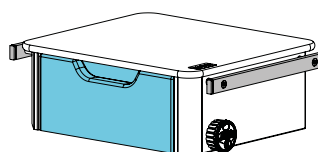
Compact white finish  
Ref : contact us



**Tray unit 687x405 mm with double drawer and front rails without mount (60 kg max). Matching 815683, 815685 and 815686 mounting interface.**

Compact white finish  
Ref : 815717

**Optional : key or code lock – Contact us for more information.**



## ACCESSOIRES

Choose the mounting interface to fit your tray and drawer units :

Mounting interface for trays/drawers unit 400 x 355 mm for single vertical rail - Ref : 815682

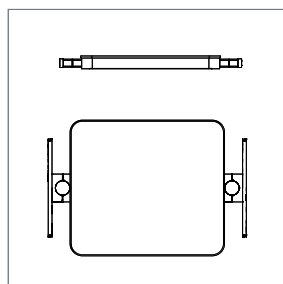
Mounting interface for trays/drawers unit 605x455 mm for MULTICARE column and vertical box TECH-CARE - Ref : 815683

Mounting interface for vertical Ø38 tube - Ref : 815684

Mounting interface for mono FLUIDYS T with 2 lateral rails - Ref : 815685

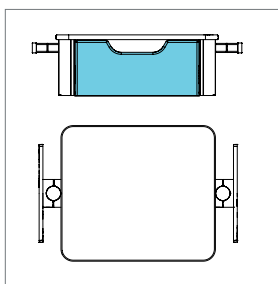
Mounting interface for duo FLUIDYS T with 2 lateral rails - Ref : 815686

### Tray(s) / drawer(s) for trolley or horizontal box



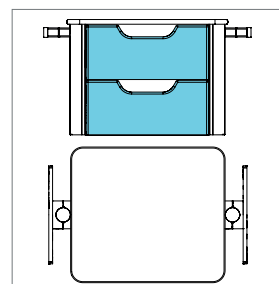
Tray 405x355 mm, with lateral rails (40 kg max)

Compact white finish  
Ref : 815624



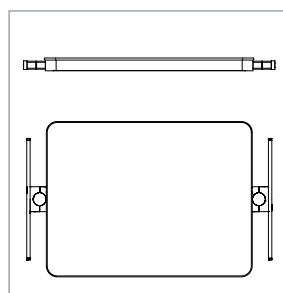
Tray unit 405x355 mm with single drawer and lateral rails (40 kg max)

Compact white finish  
Ref : 815630



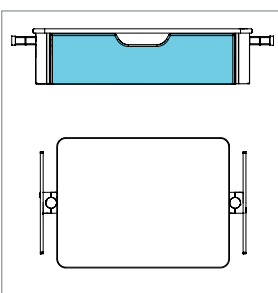
Tray unit 405x355 mm with double drawer and lateral rails (40 kg max)

Compact white finish  
Ref : 815632



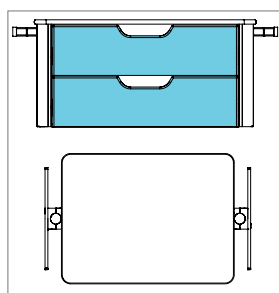
Tray 605x455 mm with lateral rails (60 kg max)

Compact white finish  
Ref : 815622



Tray unit 605x455 mm with single drawer and lateral rails (60 kg max)

Compact white finish  
Ref : 815626

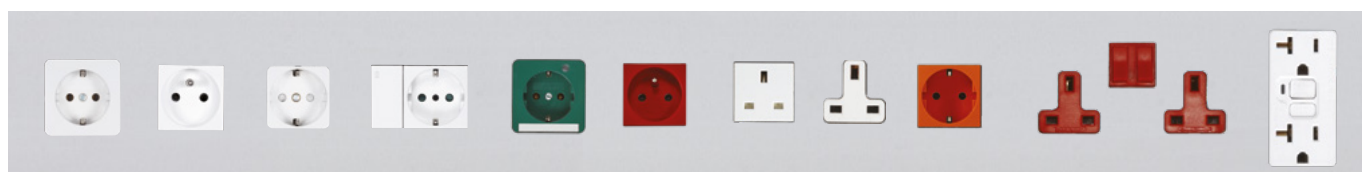


Tray unit 605x455 mm with double drawer and lateral rails (60 kg max)

Compact white finish  
Ref : 815628

## Electrical equipment

TLV products are cut by water jet, providing a precise, tailor-made finish so that sockets of any shape can be built into them. Electrical devices are flush-mounted, for easy cleaning and disinfection of products.



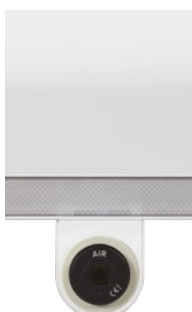
## Medical gas equipment

TLV has developed casings for gas outlets, to enhance the appearance of its products. For quick and easy access to equipment, the boxes, columns, and beams of our OT/ICU Resuscitation range do not include casings.

Medissima



Hi-beam



Fluidys / Simple Care



Mediva



### The many advantages of LED technology

- Production of light free from ultraviolet and infrared rays, hence no thermal radiation in the direction of the objects being illuminated
- Maximisation of the direction of the lighting
- Improved optical performance of the luminaires (high Efficiency)
- Excellent sustainability of the luminous flux over time (80% at 50,000 hours)
- Long service life that can be as long as 50,000 hours, providing a significant reduction in maintenance costs
- Reduction in energy consumption
- Ease of control for creating dynamic lighting
- Instantaneous illumination
- Comfortable lighting
- Ease of recycling (absence of mercury)
- Also enables new forms of luminaire to be created

### Luminous flux and Efficiency

The luminous flux is the quantity of light emanating from the LED chip or LED module. In the lighting trade the actual luminous flux of the luminaire is more important as it demonstrates the Efficiency of the whole of an appliance. Efficiency is measured in lumens per watt (lm/W).

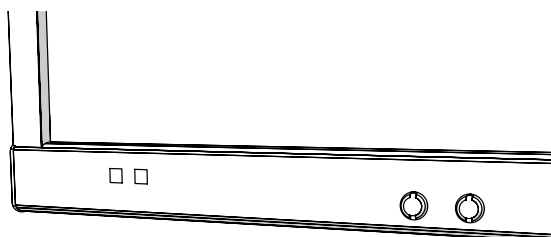
The luminous flow is the amount of light from a source (LED chip, LED module or luminaire). Today, the Efficiency of LED luminaire is 80% higher than a fluorescent luminaire.



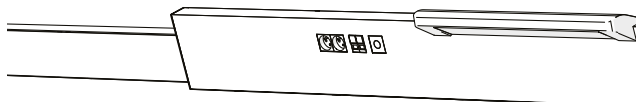
## SUPPLY DUCTS

The ducts vary depending on the product chosen and the configuration wanted.

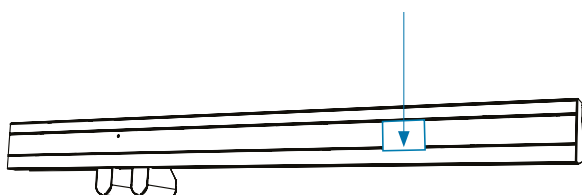
### Supply from the ceiling (via a distribution duct)



### Supply from the side (via a distribution duct)



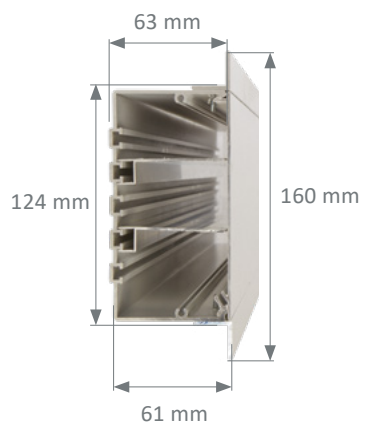
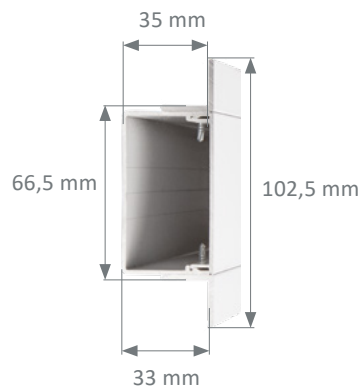
### Supply from behind by a cut-out in the bed head unit



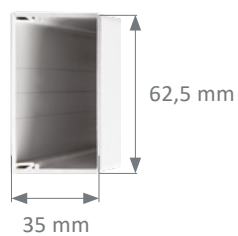
### Examples



## Flush-mounted ducts



## Wall mounted ducts



## LAMINATE PANELS COLORS FOR AXIS, COCOON, GOODWOOD, GOODWOOD MOVE, MADEIRA, FLUIDYS CONCEPT FOR AMBULATORY USE

### Colors

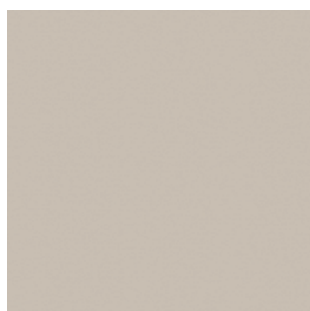
AXIS and COCOON bed head units and GOODWOOD, GOODWOOD MOVE and MADEIRA architectural concepts, offer a wide range of colors. Only the laminate panels proposed below have an antibacterial SANITIZED® treatment.



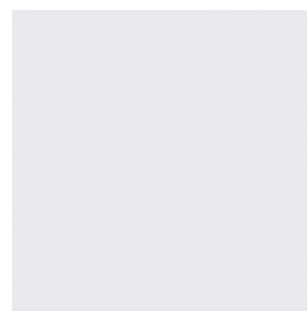
### Plains colors



Blue B086  
Finish : FA



Beige B116  
Finish : FA



White B117  
Finish : FA



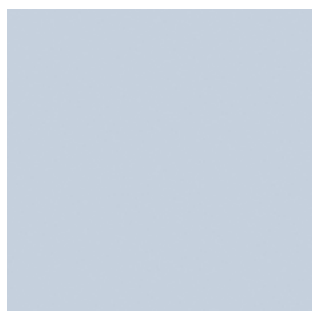
Blue B124  
Finish : FA



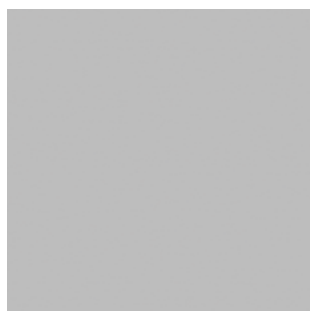
Blue C118  
Finish : FA



Celadon C190  
Finish : FA



Smoke F008  
Finish : FA



Gray G044  
Finish : FA



Orange G078  
Finish : FA



Yellow J018  
Finish : FA

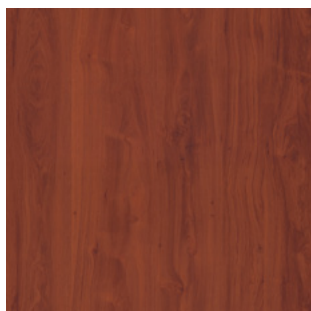


Green P092  
Finish : FA

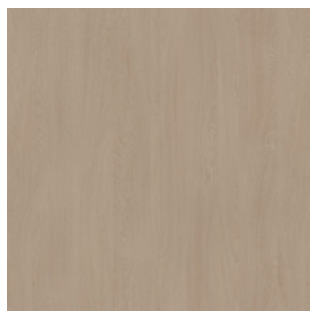


Pink R058  
Finish : FA

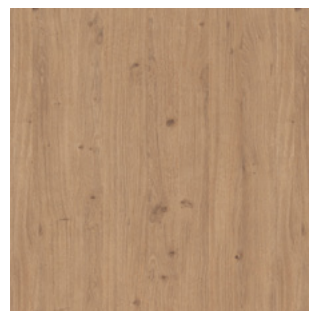
## Woods



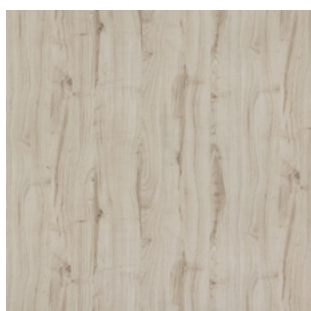
**Pecan Wood B023**  
Finish : FA



**Washed Oak C103**  
Finish : SEV



**Vendome Oak C133**  
Finish : SEV



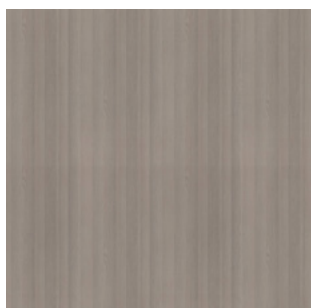
**Natural Cherry tree C181**  
Finish : EXM



**Northern Maple E028**  
Finish : FA



**Faroese Maple E103**  
Finish : EXM



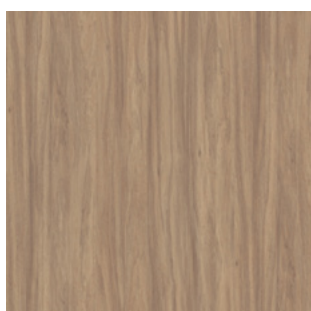
**Crystal Ash F058**  
Finish : SEV



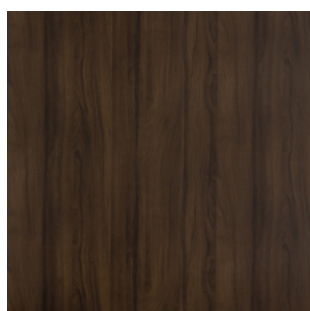
**Monreale Ash F061**  
Finish : SEV



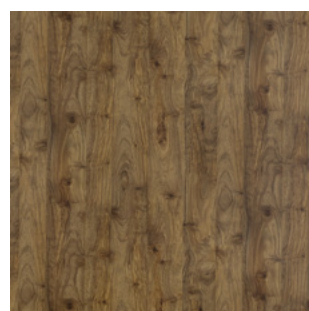
**Bergen Beech H028**  
Finish : EXM



**Natural Hazel N056**  
Finish : EXM



**Walnut Havana N114**  
Finish : EXM



**Appalachian Walnut N118**  
Finish : EXM

FA Finish: Light satin finish with an extra fine grain and soft texture

EXM Finish: Extra matt with a rough texture that recreates the authenticity of the original materials

SEV Finish: The fibre of wood underpinned by a subtly irregular and silky grained surface

NB : The colors shown here may differ from finished products.  
Contact our sales force to view our samples. Other colors, on request.

## THE EFFECT OF DYNAMIC LIGHTING

TLV products equipped with Dynamic Lighting combine two innovative technologies. By equipping a system with LED sources, energy efficiency can be improved and therefore the overall consumption of the system can be reduced, whilst the effects of natural lighting from sunrise to sunset are simulated by artificial intelligence.

This means that the lighting automatically adjusts its colour temperature and its brightness throughout the day and without requiring any intervention.

The intelligence of the TLV Dynamic Lighting system resides in its ability to satisfy the lighting needs of health-care facilities and its ability to simulate the biological effects of natural light, which contributes to improving the day-to-day comfort of residents and medical personnel alike.

Dynamic Lighting creates a natural and stimulating light environment inside buildings. It boosts human feelings of well-being. It can also be adapted to the needs of its users. In a hospital setting, Dynamic Lighting can be a means to improve the comfort of patients and care personnel.

### ■ Advantages and benefits for patients and care teams

- Improves the patient environment
- More pleasant wake cycle
- Stimulating light during the daytime
- A feeling of well-being thanks to light that is closer to natural light
- Helps resynchronise the circadian rhythm
- Positive effect on mood and feelings of well-being
- Promotes concentration in care teams

### ■ TLV products available with Dynamic Lighting

| Products  | Dynamic Lighting |
|-----------|------------------|
| FLUIDYS   | •                |
| HI-BEAM   | •                |
| LUMIA     | •                |
| LYSA      | •                |
| GOODLIGHT | •                |
| LINA      | •                |
| ILUS      | •                |
| SKYDECO   | •                |

## APPLICATIONS IN A HOSPITAL ENVIRONMENT

Dynamic Lighting can be used in normal care rooms, OT/ICU Resuscitation areas, and passageways.

### ■ Normal care rooms

One of the essential functions of the system is to use light to restore a temporal reference to people whose circadian rhythm has been upset.



Gain FLUIDYS bed head unit

### ■ OT/ICU resuscitation areas and passageways in health-care facilities

Surgery times in the operating theatre, lack of exposure to natural light, examination cubicles where patient privacy must be protected: all of these situations require medical personnel to work in artificial lighting, cut off from any temporal reference. Dynamic Lighting can compensate for this.



ILUS sealed ceiling lights

### ■ Retirement homes and nursing homes

Chronobiological changes in the elderly can result in a phase shift in the sleepwake cycle, leading to an earlier bedtime and earlier rising compared to socio-cultural norms.

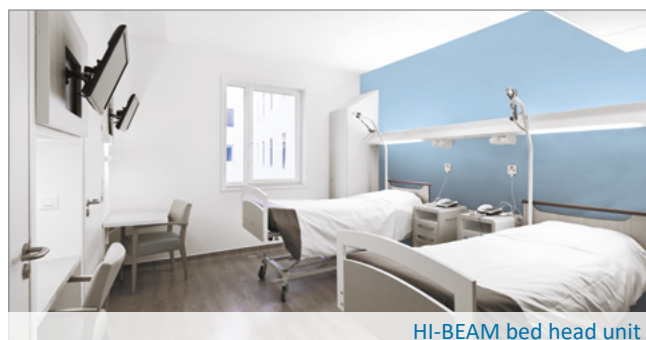
To remedy this problem, the Dynamic Lighting option synchronized to the (24-hour) circadian cycle allows residents to resynchronize their biological rhythm and avoid a significant offset of their day/night cycles. This makes the sleep-wake cycles more pleasant, because the lighting adapts gradually.



LYSA non-medical wall lighting unit

### ■ Alzheimer Units

Alzheimer patients can be subject to changes in their circadian rhythm, and sometimes their sleepwake cycle becomes disrupted. Dynamic Lighting contributes to resynchronising the internal biological clock.



HI-BEAM bed head unit



## OPERATION

Thanks to its embedded electronics, the TLV Dynamic Lighting system is just as easy to use as a standard product.

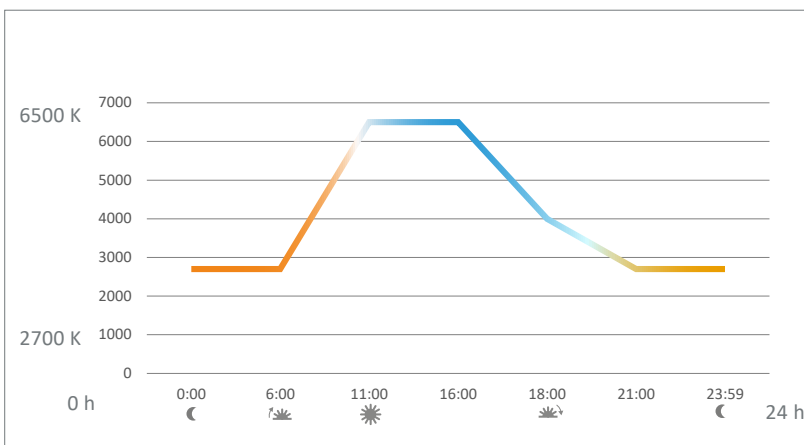
When it is switched on, the colour temperature is automatically adjusted according to the location, the time, and the position of the sun. The colour temperature is then adjusted throughout the day.

In parallel, the artificial lighting can be adjusted (optionally) according to the natural light available. This saves energy.

For areas without natural light, it is possible to vary the brightness according to the time of day. In this operating mode, the behaviour of the product tends to reproduce a circadian cycle, for a gentler awakening phase and a more pleasant end to the day.

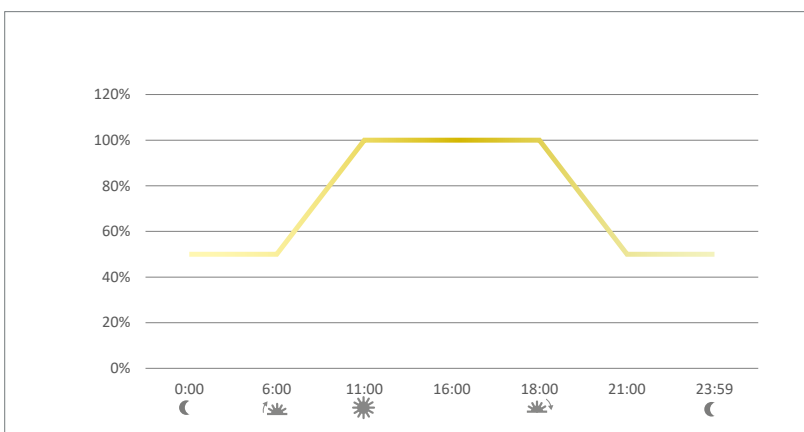
The caring lighting control can be used at any time to switch the Dynamic Lighting to 100% intensity with a neutral tone. This care mode, combined with the reading lighting, provides high-performance lighting in accordance with AFE\* recommendations.

### ■ Variation in colour temperature and intensity over a 24-hour cycle.



The curve adjusts automatically according to location and season.

- The brightness control can be synchronised:
  - To the colour temperature variation curve.
  - With an optional brightness sensor, for the light intensity to adapt automatically to the natural light available.



The curve adjusts spontaneously according to the location and seasons or the automatic light-up and lights-out time, depending on the requirements of the department. This means that patients can be woken up with a warm tone just before breakfast.

\* AFE : French Lighting Association

## LIGHT: AN ESSENTIAL ELEMENT OF OUR DAILY LIVES

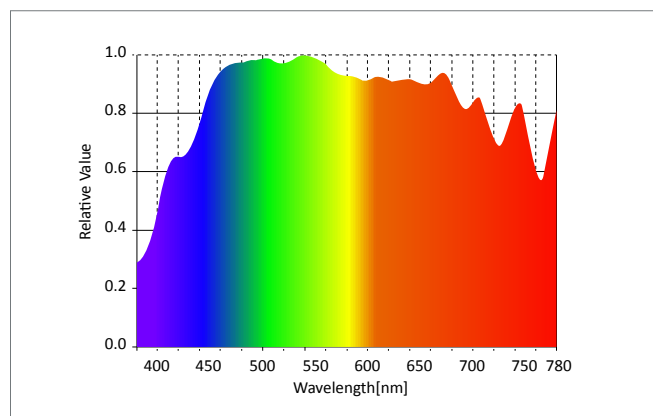
TLV's Dynamic Lighting technology provides health-care facilities with a quality of light much closer to that of natural light—an essential element for our biological rhythms.

The effects of natural light in our daily lives are partly thanks to the spectrum that makes up this light. Until now, the use of fluorescent light sources did not allow us to properly reproduce the spectrum of daylight, whose wavelengths are continuous and fall between 380 and 780 nm.

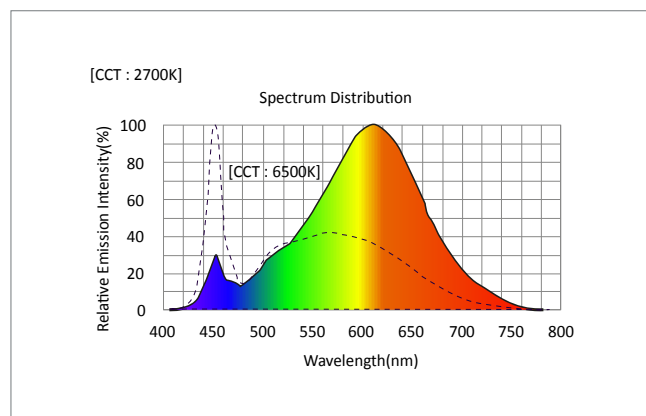
Thanks to the use of TLV technology, which combines the use of high-performance LEDs with embedded artificial intelligence, the light emitted is far more similar to the spectrum of sunlight. The characteristic rays of fluorescent sources are gone, and are replaced by a more complete, more natural, and therefore more pleasant spectrum.

To do this, TLV uses two light spectra: a 2700K spectrum and a 6500K spectrum. These are mixed appropriately according to the time of day, to obtain the most natural lighting possible. The warm light spectrum provides significant red content, like the light at sunrise and sunset. The cold light spectrum provides significant blue content, which is invigorating.

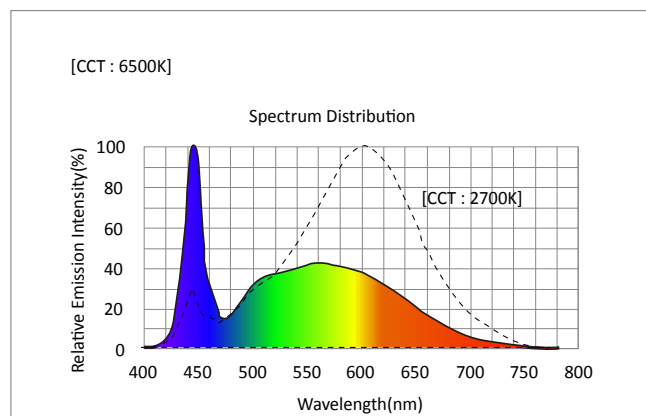
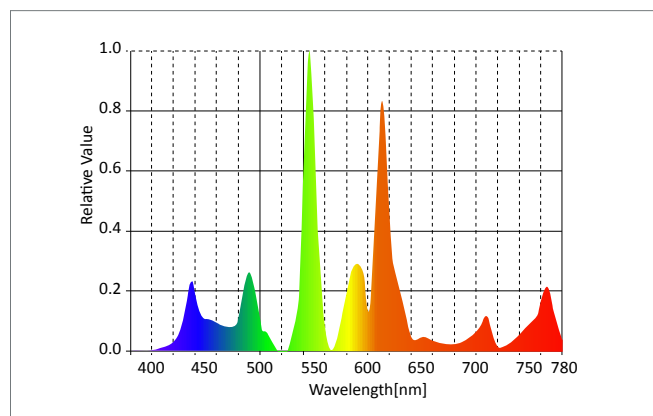
### ■ Natural light



### ■ TLV artificial tunable white light



### ■ Fluorescent artificial light



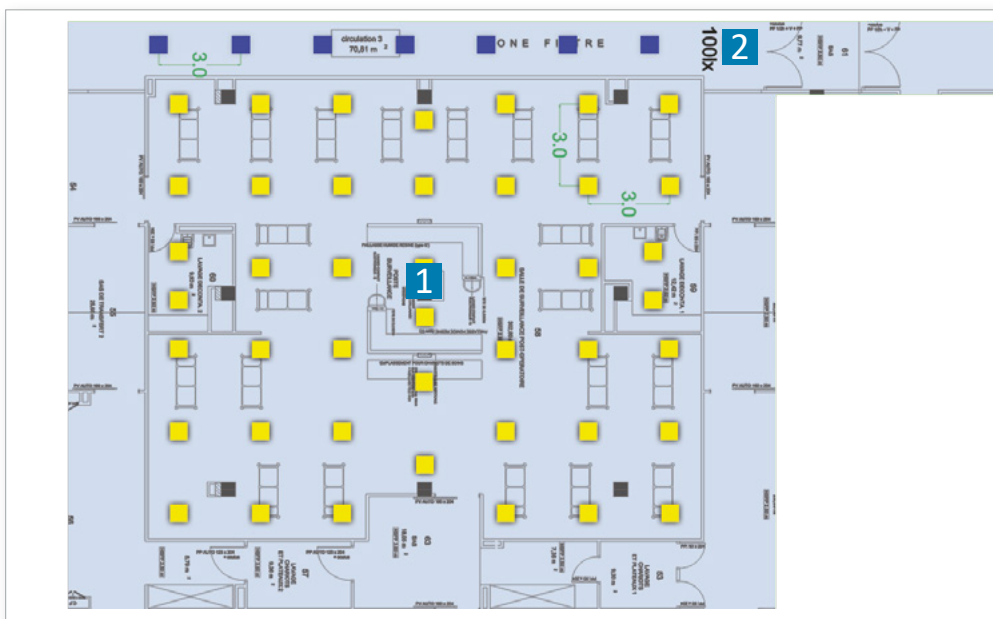
## CIRCULATION LIGHTING

TRATO, TLV sister company, specialized in lighting, offers many products for circulation spaces, offices and waiting rooms. The different LED solutions provide efficient and effective lighting contributing to the comfort of patients and caregivers. For more product information, visit [www.trato.fr](http://www.trato.fr).

**TRATO**  
Lighting



## AREA 1 Recovery room - Circulation



1 Recovery room

2 Circulations

1



Recessed  
luminaire  
LE 4060 LED



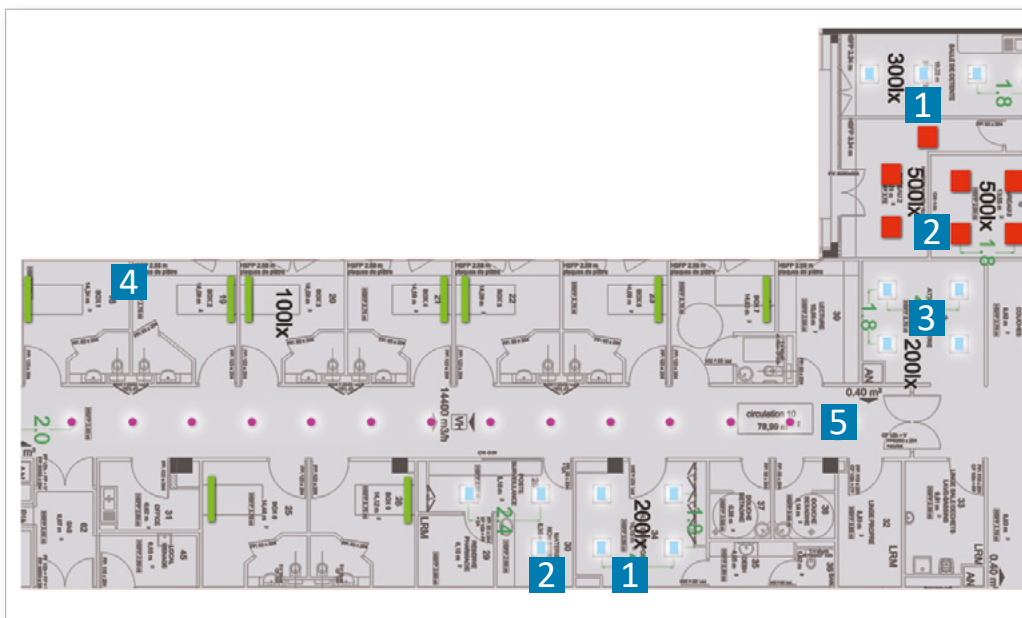
2



Recessed  
luminaire  
LE 4060 LED



## AREA 2 Normal care – Circulation – Offices – Waiting rooms



1 Break rooms

2 Offices

3 Waiting room

4 Normal care

5 Circulation

1 2 3 4



Recessed  
luminaire  
ILUS



2



Recessed  
luminaire  
LE 4060 LED



6



Downlight  
DL 2380 LED



5



AXIS  
Bed head  
unit



5



FLUIDYS  
Bed head  
unit



5



HI-BEAM  
Bed head  
unit





- 1** Assembly room
- 2** Reception
- 3** Offices
- 4** Circulation

**1 3**



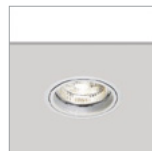
Recessed  
luminaire  
**LE 4060 LED**



**2**



Downlight  
**DL 3921 LED**



**4**



Lighting  
system  
**SE 3581 LED**



**4**



Asymmetrical  
continuous  
rows  
**LC 3833 FLUO**







- EN ISO 9001 and EN ISO 13485: Quality management systems
- Low Voltage Directive (LVD) 2014/35/UE
- CE Medical Devices Marking according to 93/42/EEC Directive
- EN ISO 11197: Medical supply units
- EN ISO 7396-1: Medical gas pipeline systems - Part 1
- EN 60601-1: Medical electrical equipment - Part 1
- EN 60598: Luminaires - Part 1: General requirements and tests - Part 2-25: Luminaires for use in clinical areas of hospitals and health care buildings
- Directive 2014/30/UE: Electromagnetic Compatibility (EMC)
- Article EC5 safety regulation against the risks of fire and panic in public buildings
- European rules for caring centers lighting

### Photo credits

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Bed head units, Wall lighting units, Ceiling pendants, Suspended Beams & Columns,  
Special care bed head units, Sealed lightings, Medical gas monitoring & Biomedical  
Accessories

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