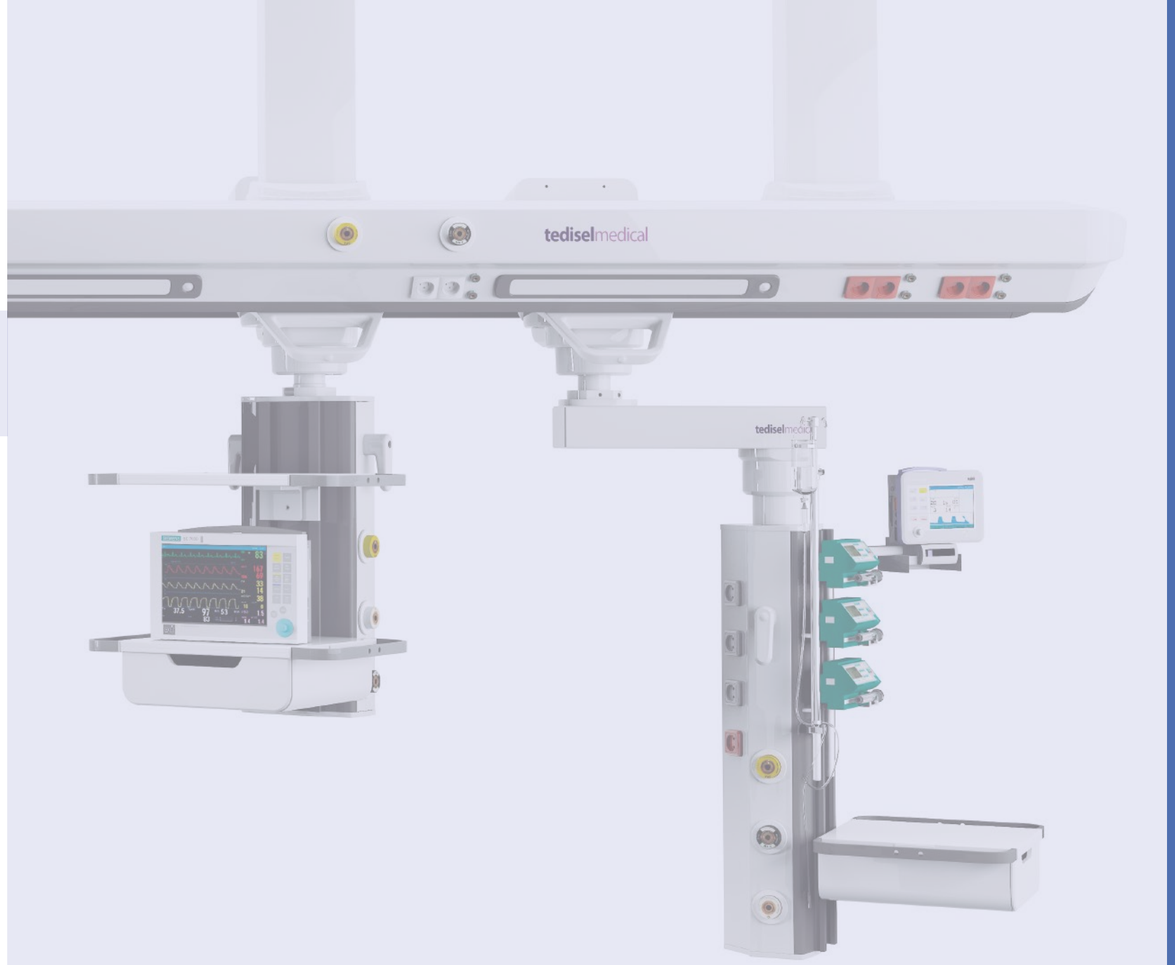

quality

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TÜVRheinland CERTIFIED — Management System EN ISO 13485:2016 — www.tuv.com ID 0000025756

CE 0197

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08-2018

tediselmedical

Abitus

Ceiling suspended system, designed for critical areas

High efficiency in critical areas

Ergonomic

Guarantees efficient and safe workflow, reducing the response time to face emergencies.

Versatile

It allows modification of its components and accessories according to the demands and requirements of each area.

Higher Equipment Capacity

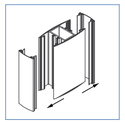
In the I.C.U., the equipment requirements are greater than in other areas.

Abitus in detail

Ceiling suspension pipes

To support, separate and guide

The gas pipping and electrical wiring are separated by independent compartments inside the ceiling suspension pipes, accessible through pressure fixed aluminium end covers, facilitating the accessibility and maintenance.



Design

Its linear design makes it possible to adapt the length to the available space.
It permits equipping I.C.U. zones in an individual or shared way.

Multi-function horizontal unit

This is the main profile of Abitus. It fulfils the following functions:

- It distributes gases, electricity and communication material.
- It contains sockets for electricity, gas, communication, direct lighting, indirect lighting and monitor lighting.
- It supports and guides the trolleys, service heads and medical equipments.

Equipment

Abitus provides the option to use the front and rear faces of the horizontal profile for electrical elements and gases.

Gas outlets and electrical sockets are adapted to the local standards.

Wt
Wet Trolley

Dt
Dry Trolley

Hs
Horizontal Service head

Vs
Vertical Service head

Maxim ergonomics
Rotation of 330°

Va
Service head with arm

Trolleys

The suspended unit offers the option to be equipped with mobile trolleys.

- The trolleys rotate 330°.
- The translation movement throughout the entire profile is limited with mobile stops.
- The translation and rotation movement can be controlled with a manually operated mechanical system.

Wt - Wet Trolley

It is designed as support for the wet elements such as infusion pumps or infusion bags units.

For this purpose, it can be equipped with different accessories such as technical rails, infusion stands, etc.

Dt - Dry Trolley

Designed to contain elements such as monitors, ventilators, etc.
For this purpose, they are equipped with different accessories such as trays, drawers, technical rails, monitor holder, etc.

Service heads

It increases the equipment capacity for gas outlets, electrical and communication sockets and are within reach of patient and care personnel.

All three models can integrate trays, drawers, technical rails which can be used as support for infusion pumps, infusion stands, monitors, etc.

- The trolleys rotate 330°.
- Pneumatic or electromagnetic brake system to control translation and rotation movement.

Hs - Horizontal Service head

Integrates the functions of the trolleys and service heads in one single equipment unit.

Vs - Vertical Service head
has a DIN standard built-in double technical rail in its body, for attachment of accessories such as infusion pumps, IV stands, monitor holder arms, etc.

Va - Service head with arm,
move the sockets and accessories from the Care zone and offers flexibility to the work space around the patient.

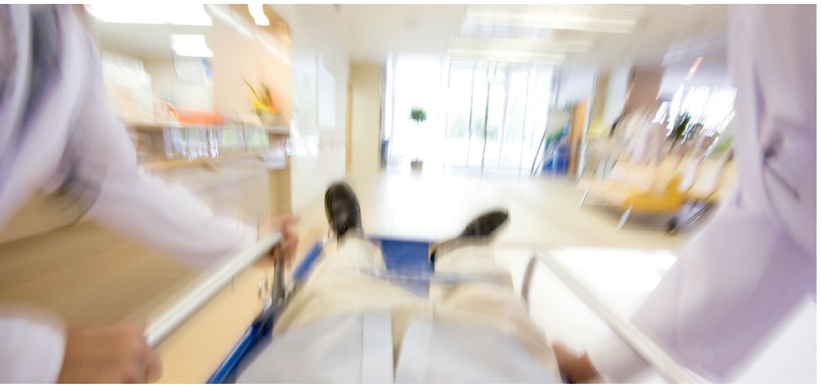
Abitus is a ceiling suspended system, designed by Tedisel, to provide support in critical areas such as:

· Intensive Care Units. (I.C.U.)

· Neonatology.

· Intermediate Care Units.

· Recovery Rooms for adults.



Abitus in **Critical Areas** offers specific solutions to satisfy requirements such as:

· Easy access to the patient.

· Safety of the personnel and patient.

· Maximum Hygiene.

Aspects highly valued by health care personnel, since they permit quick and efficient assistance.

Some References:

· **Hospital San Juan de Dios,** León · Spain

· **Hospital Provincial Nuestra Señora de Gracia,** Zaragoza · Spain

· **Clinica Iván Mañero,** Sant Cugat · Barcelona · Spain

· **Hospital Gernika,** Vitoria – Gazteiz- Spain

· **INS Hospital del Trauma,** Costa Rica

· **NMC Hospital – DIP,** UAE

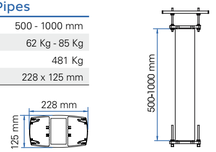
· **Bright Point hospital,** UAE

· **Burjeel Hospital,** UAE

technical data

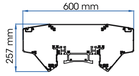
2 Suspension Pipes

Length	500 - 1000 mm
Set Net Weight	62 Kg - 85 Kg
Set Max. Load	481 Kg
Dimensions	228 x 125 mm



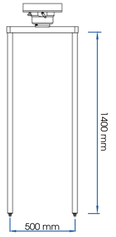
Suspended Bed Head Unit

Length	2500 mm
Net Weight	98 Kg
Max. Load	385 Kg
Dimensions	600 x 257 mm



Dry Trolley

Dimensions	500 x 1400 mm
Net Weight	20 Kg
Max. Load	150 Kg
Rotation	360º
Brakes	Mechanical
Tubes Diameter	38 mm

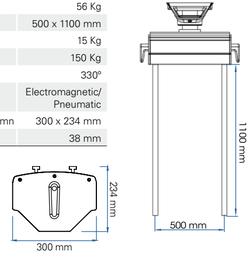


Wet Trolley

Dimensions	300 x 1400 mm
Net Weight	17 Kg
Max. Load	150 Kg
Rotation	360º
Brakes	Mechanical
Tubes Diameter	38 or 25 mm

Horizontal Service Head

Service head Length	500 mm
Net Weight	56 Kg
Trolley Length	500 x 1100 mm
Net Weight	15 Kg
Max. Load	150 Kg
Rotation	330º
Brakes	Electromagnetic/ Pneumatic
Dimensions Column	300 x 234 mm
Tubes Diameter	38 mm

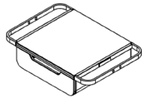


Shelf for Trolley

Dimensions	430 x 430 x 25 mm
Dimensions with technical rails	635 x 430 x 25mm
Net weight	5,5 Kg
Net weight with technical rails	6 Kg
Max. Load	50 Kg

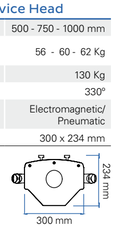
Shelf with Drawer for Trolley

Dimensions	430 x 430 x 145 mm
Dimensions with technical rails	635 x 430 x 145 mm
Net weight	13 Kg
Net weight with technical rails	13,5 kg
Max. Load	40 Kg



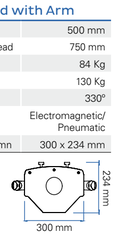
Vertical Service Head

Length	500 - 750 - 1000 mm
Net Weight with slider	56 - 60 - 62 Kg
Max. Load	130 Kg
Rotation	330º
Brakes	Electromagnetic/ Pneumatic
Dimensions	300 x 234 mm



Service Head with Arm

Length Arm	500 mm
Length Service head	750 mm
Set Net Weight	84 Kg
Set Max. Load	130 Kg
Rotation	330º
Brakes	Electromagnetic/ Pneumatic
Dimensions Column	300 x 234 mm



Shelf for Service Head

Dimensions	430/630 x 430 x 25 mm
Dimensions with technical rails	635/835 x 430 x 25 mm
Net weight	7,7 Kg
Net weight with technical rails	8,2 Kg
Max. Load	50 Kg

Shelf with Drawer for Service Head

Dimensions	430/630 x 430 x 145 mm
Dimensions with technical rails	635/835 x 430 x 145 mm
Net Weight	15 Kg
Net weight with technical rails	15,5 Kg
Max. Load	40 Kg

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In **Intensive care areas**, safety and reliability of the equipments are top priority.

Tedisel Medical is the leading Spanish Company Manufacturer of Ceiling Suspended Systems for ICU, which guarantees the maximum level of quality and reliability, with approved equipments by the official testing laboratory and the CE Mark of Health Care products notified body.

1998 – Launch of **TEYDE.** First Suspended ICU System designed by Tedisel.

2004 – Launch of **ATLAS.** Tedisel designed a compact and functional solution for the ICU zone.

2009 – Launch of **ABITUS.** In addition to the trolleys available for Atlas and Teyde, the new design integrates movable service heads which have built-in electrical, telecommunication and medical gas installations.

Electrical System

Rated voltage	110/230 V~
Rated frequency	50-60Hz
Rated current	10A or 16A per circuit. 20A and 25A optional
Max. Number of circuits	Max. 10 circuits max with 4 sockets each

Lighting System (Led, on request)

Ballast	Ballast: conventional or dimmable
Direct light	Led 1x10W, led 1x20W
Indirect light	Led 1x20W, led 2x20W
Night light	1,2W

Gas system

Compressed gases	5 bar
Compressed air-nitrogen supply to air motors	10 bar
Gas type	O_2-Air-N_2O-CO_2-VAC-AGSS-Air 800-N_2 800

Materials 6060 / 6063 T5

Structure	Aluminum (6mm thickness)
Trolleys	Aluminum with epoxy painting
Tubes	Stainless steel AISI 304
Shelves	Aluminum / Stainless steel with epoxi painting
Technical rails	Stainless steel AISI 304

Installation

Minimum lateral side distance from wall **	400 mm
Minimum rear side distance from wall **	700 mm
Minimum rear side distance from wall (for Abitus with “Ha” configuration)	1000 mm
Recomended height from floor	1800 mm

** to allow trolley rotation.

Transportation and storage*

Ambient temperature	-10°C to + 60°C
Relative humidity	20% - 80%

* The following storage conditions apply for up to 15 weeks. After 15 weeks, the ambient conditions apply for operation.

Ambient conditions

Ambient temperature	+10 °C - +40°C
Relative humidity	Max. 75%

Clasification

Directive 93/42/EEC	CLASS II B

EC Conformity

Tedisel complies with the provisions of Directive 93/42/EEC (medical devices), ISO 11197 (medical supply units) and IEC 60601-1 (Medical electrical equipment - Part 1: General requirements for basic safety and essential performance).

Compatibility with other medical devices

Tedisel products may be equipped with medical devices from other manufacturers.

Please follow the instructions provided by the manufacturers of this equipment for proper installation.

CE 0197

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Adonis is a wall-mounted supply unit designed for critical care areas such as:

· Intensive Care Units (ICU)

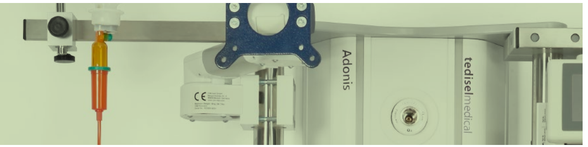
· Neonatology.

· Intensive Monitoring Unit (IMU)

· Emergency Rooms.

In the critical care area, it is the best option when there is limited space.

Likewise, its vertical design and its bedside location keeps the patient's head clear of cables and tubes, guaranteeing a safe and peaceful environment for their recovery.



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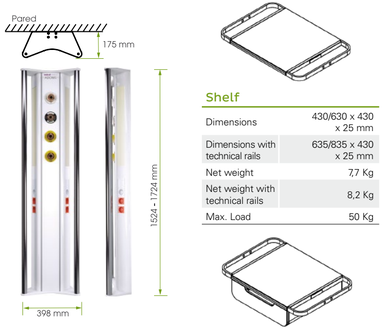
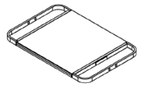
Adonis

Wall mounted vertical system

technical data





Shelf

Dimensions	430/630 x 430 x 25 mm
Dimensions with technical rails	635/835 x 430 x 25 mm
Net weight	7,7 Kg
Net weight with technical rails	8,2 Kg
Max. Load	50 Kg

Supply unit

Dimensions	1524 - 1724 x 398 x 175 mm
Set Max. Load	150 Kg

Shelf with drawer

Dimensions	430/630 x 430 x 145 mm
Dimensions with technical rails	635/835 x 430 x 145 mm
Net Weight	15 Kg
Net weight with technical rails	15,5 Kg
Max. Load	40 Kg

Electrical System

Rated voltaje	110/230 V~
Rated frequency	50-60Hz
Rated current	10A or 16A per circuit. 20A and 25A optional

Lighting System (optional)

Ballast	Ballast: conventional or dimmable
Lateral direct light	Led 1x10W, led 1x20W
Indirect upper light	Led 3,2W
Indirect lower light	Led 3,2W
Night light	Led 1,2W

Gas system

Compressed gases	5 bar
Compressed air-nitrogen supply to air motors	10 bar
Gas type	O_2-Air-N_2O-CO_2-VAC-AGSS-Air800-$N_2$800

Materials 6060 / 6063 T5

Structure	Aluminium (3 mm thickness) with epoxi painting
Tube	Diameter 38, Stainless steel AISI 304
Shelves	Aluminum / Stainless steel with epoxi painting
Technical rails	Stainless steel AISI 304

Fixation

The wall fixation is done by fixing the service head to a substructure formed by two tubular steel profiles together with horizontal strips located in the wall and anchored on forged and ground.

Transportation and storage*

Ambient temperature	-10°C to + 60°C
Relative humidity	20% - 80%

* The following storage conditions apply for up to 15 weeks.

Ambient conditions

Ambient temperature	+10 °C - +40°C
Relative humidity	Max. 75%

Clasification

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08-2018

Optimizes limited spaces in critical areas

Flexible

It has the capacity to adapt to specific needs of each critical area.

Efficient

A supply unit that integrates all the elements required to assist the patient, providing freedom of movement to the health care personnel.

Optimized

It can safely provide service to two patients at the same time.

Ad

Adonis in detail

Design

Compact vertical supply unit. Its structure is comprised by aluminium with 3mm thickness and two vertical poles with 38mm diameter.
Its design facilitates its use to supply one or two beds at the same time, or if the need is greater, two units can supply a single bed.

Safety

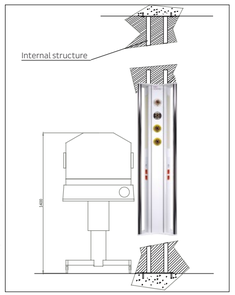
The two standard rails, with 38mm diameter, in the case of simultaneously assisting two beds, guarantees secure medication management and correct administration to each patient.

Supply capacity

It consists of two lateral electrical profiles for the electrical and telecommunications sockets and a front one for medical gas outlets.

Fixation

Wall mounted, by means of a support structure in the wall interior.



Set up of accessories and equipment units

Customized configurations based on the specific requirements of each critical area.
The Adonis structure integrates two standard rails with 38mm which are the support for:

· Trays.
· Drawers.
· Monitor arms.
· Infusion pumps.
· Infusion stands.
· Technical rails.

Lighting

Adonis allows lighting ambient or night light.

Ais is the wall-mounted bed head unit designed by Tedisel for hospitalization, resuscitation and general care areas.

Ais is the option with minimalist lines which integrates all the components required for the patient's care.

As an example of our flexibility and open minded philosophy, we have developed a bed head unit in cooperation with an architectural office to cover the needs for a specific project. Minimalistic design is not against functionality and ease of maintenance.

Designed by:

ais arquitectura ingeniería salud

Project´s concept & art management:
· Communication department: Serveis de Salut Integrats / www.ssibe.cat
· Design: Estudi Lluis Pareras Disseny Gràfic / llpareras@grn.cat
· Graphic production: Impacte rètols / info@impacteretols.com

Some references:

· **Hospital de Imbanaco,** Colombia
· **Hospital Igualatorio Médico Quirúrgico,** Bilbao · Spain
· **Hospital Sant Joan de Déu,** Barcelona · Spain

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Ais

Integrated bed head unit

technical data

Horizontal profile

Max. Length of manufacture	3000mm*

* If you want to install consecutive sections for many beds, the union is done from inside the bed head, making two sections visible.

Electrical System

Rated voltage	110/230 V~
Rated frequency	50-60Hz
Rated current	10A or 16A per circuit. 20A and 25A optional

Lighting System (optional)

Ballast	Ballast: conventional or dimmable
Direct light	Led 1x10W, led 1x20W
Indirect light	Led 1x20W, led 2x20W
Night light	1,2W

Gas system

Compressed gases	5 bar
Compressed air-nitrogen supply to air motors	10 bar
Gas type	O_2-Air-N_2O-CO_2-VAC-AGSS-Air800-N_2 800

Materials 6060 / 6063 T5

Structure	Aluminium (3 mm) with epoxy painting
Front cover	Aluminum (1,5 mm) with epoxi painting
End cover set	Aluminium
Plastic diffuser	Extruded polycarbonate
Vinyl length	1500 mm or 1700 mm

Installation

For surfaces with good mechanical strength (concrete, brickwork, etc.) it is recommended to fix the product directly on the surface with expansion plugs and screws. On the weak surface, this kind of surface should first be reinforced with a wooden insert fixed to the metal structure of the plasterboard in order to increase the consistency when fitting the screw.

Transportation and storage*

Ambient temperature	-10°C to + 60°C
Relative humidity	20% - 80%

* The following storage conditions apply for up to 15 weeks.

Ambient conditions

Ambient temperature	+10 °C - +40°C
Relative humidity	Max. 75%

Clasification

Directive 93/42/EEC	CLASS II B

EC Conformity

Tedisel complies with the provisions of Directive 93/42/EEC (medical devices), ISO 11197 (medical supply units) and IEC 60601-1 (Medical electrical equipment - Part 1: General requirements for basic safety and essential performance).

Compatibility with other medical devices

Tedisel products may be equipped with medical devices from other manufacturers.

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08-2018

Our design bed head unit

Decorative

Allows customizing the front wall to provide a more intimate style.

Versatile

Its supply is adapted to the requirements of the area.

Ai

Ais in detail

Design

· Efficient.
· With minimalist contours.
· Linear design which permits personalised measurements.
· Customizable length, components and design based on specific needs of the area.

Front cover

· Clean appearance: electrical and telecommunication components are hidden.
· It permits easy access to the interior for easy maintenance.
· Personalisation of the bed head unit which includes vinyl lining with decorative children, floral designs or wood sheet.

Tedisel Vinyls

Wall mounting

Assembly on resistant surfaces: The product can be directly installed with expansion plugs and lag screws.
For weak surfaces, it is recommended to reinforce the surface with wooden structure.

Lighting

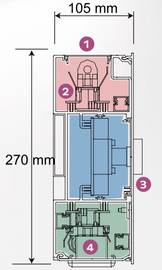
Continuous indirect light.

Lighting

Option of a direct light for each patient.

Electrical and telecommunication components

The surface-mounted mechanisms are fixed in the inferior face of the concealed profile behind the front cover.



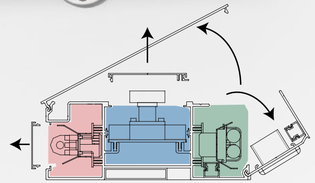
1. Polycarbonate diffuser.
2. Indirect light.
3. Gas outlet.
4. Electrical outlets and direct light.

Ais main profile is divided in three compartments:

- Indirect light.
- Medical gases.
- Electrical outlets, voice and data connectors and indirect light.

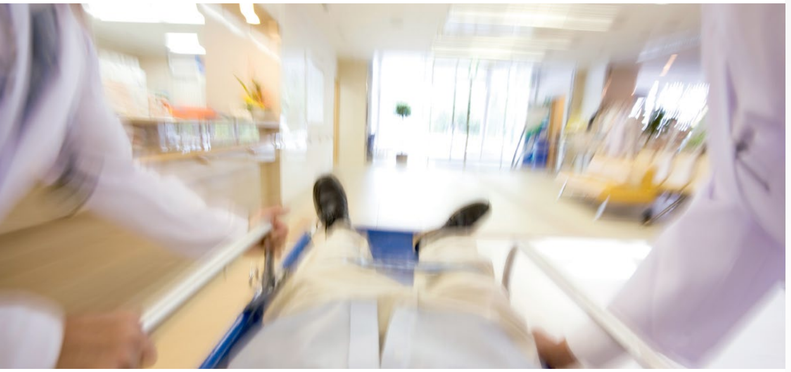
Maintenance

Easy access to the equipment interior which is carried out by folding the front cover, which permits comfortable handling of the electrical and gas installations.



Ares is a Ceiling Suspended System for areas such as:

· Operating Theatres.
· Intensive Care Units (I.C.U.)
· Neonatology.
· Emergency Rooms.



In Operating Theatre, is the option for less invasive procedures which require operative versatility.

In critical areas, is the ideal option for limited spaces which require dynamic and efficient support.

Some references:

· **Hospital de Sant Cugat for ICU,** Spain
· **BGMU" Bashkir State Medical University Ufa,** Russia
· **Albertinum Žamberk,** Czech Republic
· **Nemos maternity SOKOLOV,** Czech Republic.

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Ares

Ceiling Suspended System designed for critical areas and operating theatre

technical data

Electrical System

Rated voltage	110/230 V~
Rated frequency	50-60Hz
Rated current	10A or 16A per circuit. 20A and 25A optional

Lighting System (optional)

Ballast	Ballast: conventional or dimmable
Direct light	led 1x10W, led 1x20W
Indirect light	led 1x10W, led 1x20W
Night light	1,2W

Gas system

Compressed gases	5 bar
Compressed air-nitrogen supply to air motors	10 bar
Gas type	O_2-Air-N_2O-CO_2-VAC-AGSS-Air 800-N_2 800

Materials 6060 / 6063 T5

Structure	Aluminum (thickness 4 mm)
Tube	Diameter 38, Stainless steel AISI 304
Shelves	Aluminum / Stainless steel with epoxi painting
Technical rails	Stainless steel AISI 304

Installation

Fixation to the concret ceiling by ceiling plate.

Transportation and storage*

Ambient temperature	-10°C to + 60°C
Relative humidity	20% - 80%

* The following storage conditions apply for up to 15 weeks.

Ambient conditions

Ambient temperature	+10 °C - + 40°C
Relative humidity	Max. 75%

Clasification

Directive 93/42/EEC	CLASS II B

EC Conformity

Tedisel complies with the provisions of Directive 93/42/EEC (medical devices), ISO 11197 (medical supply units) and IEC 60601-1 (Medical electrical equipment - Part 1: General requirements for basic safety and essential performance)

Compatibility with other medical devices

Tedisel products may be equipped with medical devices from other manufacturers.

Please follow the instructions provided by the manufacturers of this equipment for proper installation.

CE 0197

TÜV Rheinland LGA Products GmbH

quality

Tedisel Management System and all our products are certified with quality seal **ISO 9001**, **ISO 13485** and **CE marking** granted by notified body **TÜV RHEINLAND**.

Tedisel, as medical device manufacturer, has the medical device manufacturer license number 6205-PS, granted by the Spanish Agency for Medicines and Health Products

All medical devices developed and manufactured in Tedisel, are regulated by the European Directive 93/42/EEC. All equipment has accreditation and certification of electrical safety and electromagnetic compatibility standards ISO 11197 and EN 60601.

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CE 0197

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www.tedisel.com

08-2018

The compact alternative for ceiling supply units

Ergonomic

It guarantees efficient and safe workflow.

Compact

It optimizes and organizes the work in limited spaces.

Versatile

It permits customization of its components and accessories according to the demands and requirements of each area.

tedisel medical

Ar

Ares in detail

Design

Compact horizontal head, focused on occupying the minimum space.

Supply Capacity

Ares offers possibility of using front and back profile for integrating electrical, gas, telecommunication and lighting elements.

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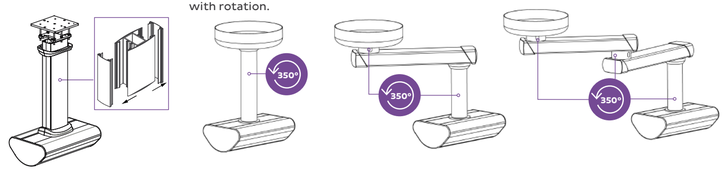
Fixation options

FIXATION **TYPE F** :
Direct ceiling fixing.

FIXATION **TYPE R**:
Direct ceiling fixing with rotation.

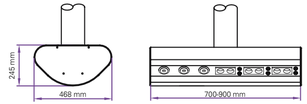
FIXATION **TYPE SA**:
Single arm fixation.

FIXATION **TYPE DA**:
Double arm fixation.



Fixation option	Max. Load
F - Fixes Suspended	150 kg
R - Rotation Suspended	150 kg
SA - Simple arm	
Extension arm 600 mm	580 kg
Extension arm 800 mm	420 kg
Extension arm 1000 mm	320 kg
Extension arm 1200 mm	260 kg
DA - Dual arm	
Extensions arms 600+600mm	265 kg
Extensions arms 600+800mm	220 kg
Extensions arms 600+1000mm	180 kg
Extensions arms 600+1200mm	156 kg
Extensions arms 800+800mm	180 kg
Extensions arms 800+1000mm	150 kg
Extensions arms 800+1200mm	130 kg
Extensions arms 1000+1000mm	130 kg

Horizontal unit



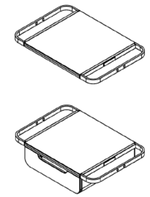
Ares Dimensions (long/wide/high)	700 x 468 x 245 mm
Net Weight *	21 Kg
Ares Dimensions (long/wide/high)	900 x 468 x 245 mm
Net Weight *	25 Kg

* Net weight without elements.

Equipment and accessories

Shelf	
Dimensions	430 x 430 x 25 mm
Net weight	5,5 Kg
Net weight with technical rails	6 Kg
Max. Load	50 Kg

Shelf with drawer	
Dimensions	430 x 430 x 145 mm
Net weight	13 Kg
Net weight with technical rails	13,5 Kg
Max. Load	40 Kg



Tube diameter 38	
Length	1400 mm
Net weight	2 kg

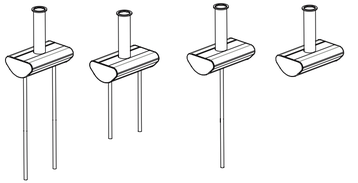
Tube diameter 38	
Length	1100 mm
Net weight	1,6 Kg

Organization of accessories and equipment units

Customized configurations based on the specific requirements of each critical area.
Ares can be configured with one or two standard tubes with 38mm diameter for these accessories:
· Monitor holder arm.
· Infusion holder arm.
· Infusion pumps.
· Trays, (height adjustable).
· Drawers, (height adjustable).
· Technical rails (DIN).
Tubes* L=1400 L=1100

Both solutions with technical rail as well as without technical rail allow clear workspace under the equipment to place any electro medical equipment such as respirators, suction pump, anaesthesia machines, etc.

* Optionals configuration upon request



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Atlas is a ceiling suspended system designed to cover the requirements in critical areas such as:

· Intensive Care Units (I.C.U.)

· Neonatology.

· Intermediate Care Units.

· Recovery Rooms for adults.

Based on the requirements of each project **in the critical area, Atlas** offers different solutions and highlighting the capacity to install supply units in its central profile and support for medical material in their trolleys.

Some references:

· **Hospital universitario de Jaén,** Spain

· **Clínica Fátima,** Sevilla · Spain

· **Clínica Iberoamericana,** Barranquilla · Colombia

· **Clínica Internacional San Borja,** Lima · Peru

· **Lybian European Hospital,** Lybia

· **Vito Fazzi in Leece,** Italy

· **Burjeel Hospital ,** UAE

· **Southern Philippines Medical Center (Davao),** Philippines

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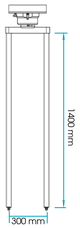
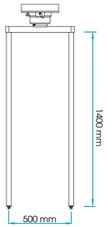
Atlas

Ceiling Suspended System

technical data





Materials	6060/ 6063 T5
Structure	Aluminum (4 mm thickness)
Trolleys	Aluminum with epoxy painting
Tubes	Stainless steel AISI 304
Shelves	Aluminum / Stainless steel with epoxi painting
Technical rails	Stainless steel AISI 304

Instalation

Minimal lateral side distance from wall***	300 mm
Minimal rear side distance from wall**	500 mm
Recommended height from floor	1800 mm

** to permit trolley rotation

Infusion trolley

Dimensions	300 x 1400 mm
Net Weight	16Kg
Max. Load	150 Kg
Rotation	360º
Brakes	Mechanical
Tubes Diameter	38 or 25 mm

Monitoring trolley

Dimensions	500 x 1400 mm
Net Weight	17 Kg
Max. Load	150 Kg
Rotation	360º
Brakes	Mechanical
Tubes Diameter	38 mm

Transportation and storage*

Ambient temperature	-10°C to + 60°C
Relative humidity	20% - 80%

* The following storage conditions apply for up to 15 weeks. After 15 weeks, the ambient conditions apply for operation.

Ambient conditions

Ambient temperature	+10 °C - +40°C
Relative humidity	Max. 75%

Clasification

Directive 93/42/EEC	CLASS II B

Electrical System

Rated voltage	110/230 V~
Rated frequency	50-60Hz
Rated current	10A or 16A per circuit. 20A and 25A optional
Max. Number of circuits	Max. 10 circuits max with 4 sockets each

Lighting System (Led, on request)

Ballast	Ballast: conventional or dimmable
Direct light	Led 1x10W
Indirect light	Led 1x20W, led 2x20W
Night light	1,2W

Gas system

Compressed gases	5 bar
Compressed air-nitrogen supply to air motors	10 bar
Gas type	O_2-Air-N_2O-CO_2-VAC-AGSS-Air 800-N_2 800

EC Conformity

Tedisel complies with the provisions of Directive 93/42/EEC (medical devices), ISO 11197 (medical supply units) and IEC 60601-1 (Medical electrical equipment - Part 1: General requirements for basic safety and essential performance)

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08-2018

Efficient in the critical area

Efficiently

organises the work in critical areas.

Integrate

In a single point, it integrates all the elements required to assist the patient.

Facilitates access to the patient

it allows freedom of movement to the health care personnel; it permits total access to the patient perimeter.

tedisel medical

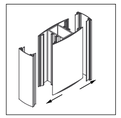
At

Atlas in detail

Ceiling suspension pipes

They support, separate and guide

The gas pipping and electrical wiring are separated by independent compartments inside the ceiling suspension pipes, accessible through pressure fixed aluminium end covers, facilitating the accessibility and maintenance.



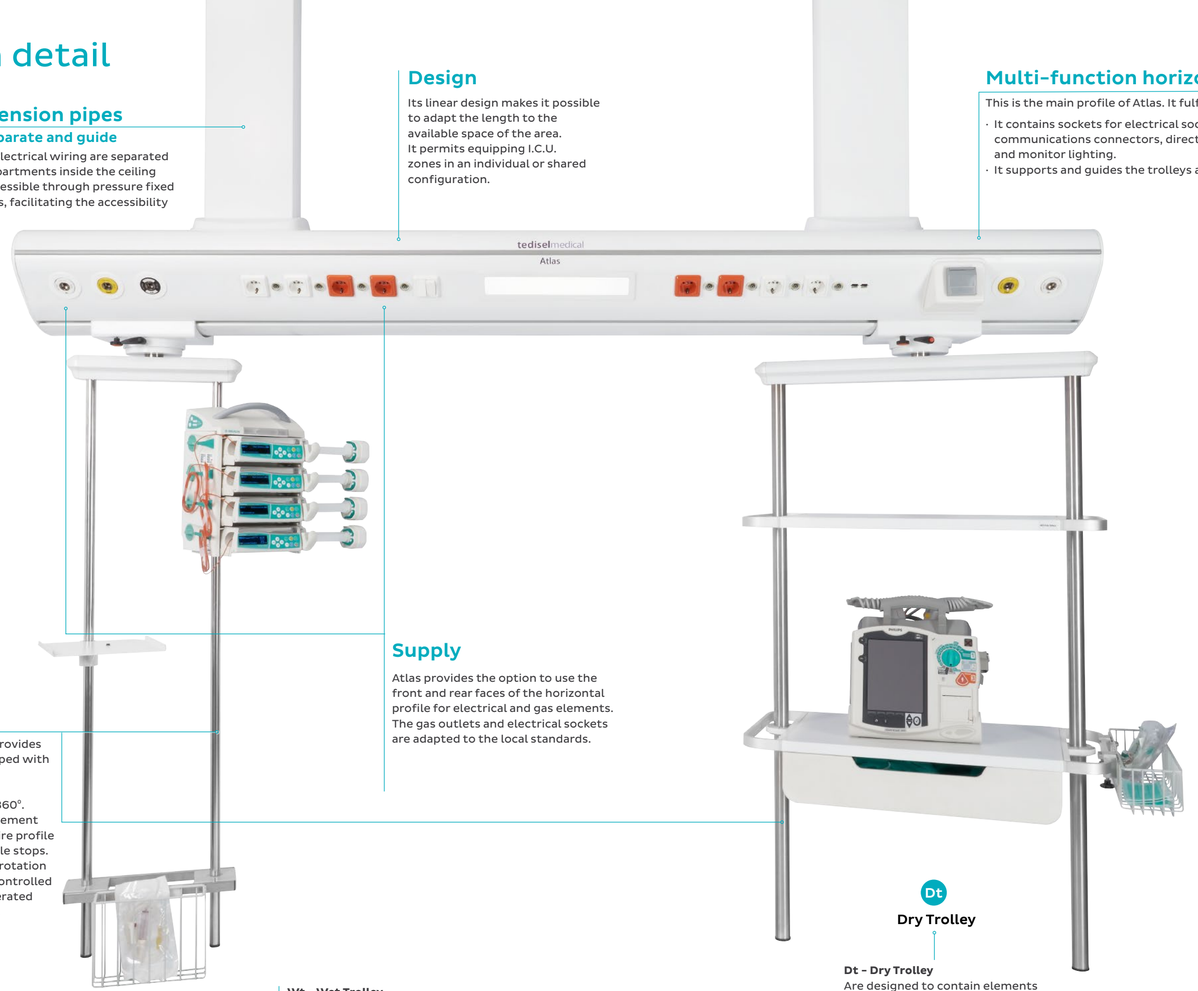
Design

Its linear design makes it possible to adapt the length to the available space of the area.
It permits equipping I.C.U. zones in an individual or shared configuration.

Multi-function horizontal unit

This is the main profile of Atlas. It fulfils the following functions:

- It contains sockets for electrical sockets, gas outlets, communications connectors, direct lighting, indirect lighting and monitor lighting.
- It supports and guides the trolleys and equipment.



Supply

Atlas provides the option to use the front and rear faces of the horizontal profile for electrical and gas elements. The gas outlets and electrical sockets are adapted to the local standards.

Trolleys

The suspended unit provides an option to be equipped with movable trolleys.

- The trolleys rotate 360°.
- The translation movement throughout the entire profile is limited with mobile stops.
- The translation and rotation movement can be controlled with a manually operated mechanical system.

Wt

Wet Trolley

Wt – Wet Trolley
It is designed as support for the wet elements such as infusion pumps or infusion stands.
For this purpose, it can be equipped with different accessories such as technical rails, IV drip stands, etc.

Dt

Dry Trolley

Dt – Dry Trolley
Are designed to contain elements such as monitors, ventilators, etc.
For this purpose, they are equipped with different accessories such as trays, drawers, technical rails, examination lamps, etc.

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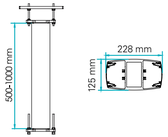
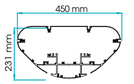
technical data



2 Suspension Pipes

Length	500 - 1000 mm
Set Net Weight	62 Kg - 85 Kg
Set Max. Load	481 Kg
Dimensions	228 x 125 mm



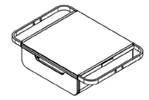
Suspended Bed Head Units

Length	2500 mm
Set Net Weight	45 kg *
Dimensions	450 x 231 mm

* net weight without elements.

Shelf for Trolley

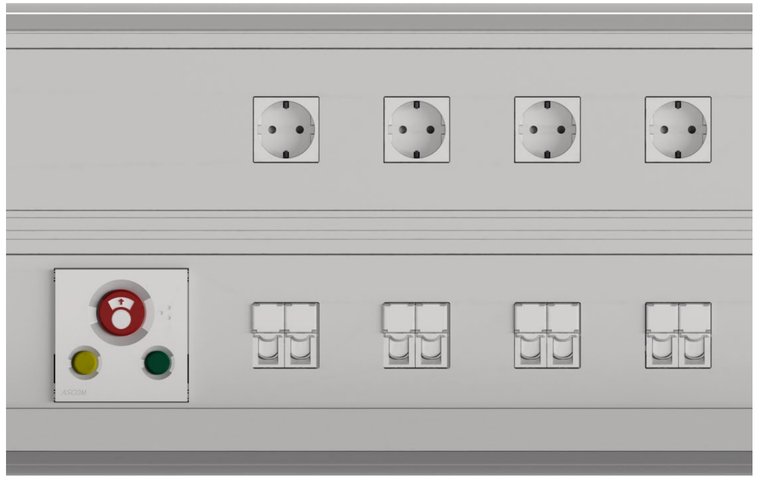
Dimensions	430 x 430 x 25 mm
Dimensions with technical rails	635 x 430 x 25 mm
Net weight	5,5 Kg
Net weight with technical rails	6 Kg
Max. Load	50 Kg



Shelf with Drawer for Trolley

Dimensions	430 x 430 x 145 mm
Dimensions with technical rails	635 x 430 x 145 mm
Net weight	13 Kg
Net weight with technical rails	13,5 Kg
Max. Load	40 Kg

AURA is the wall-mounted bed head unit designed by Tedisel, totally adaptable and modular.



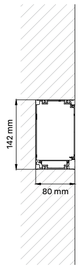
Aura offers the best option to equip different hospital wards with a variable number of electrical and gas components.

Aura can be manufactured with several modular profiles that can match any standard or special configuration required.

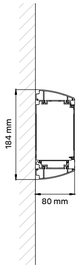
On top of the standard configurations, our sales and technical team can also adapt Aura to any special specification required.

AURA 100 Series

AURA 100

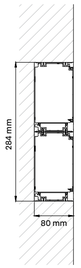


AURA 100SS

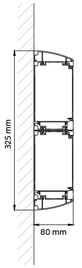


AURA 200 Series

AURA 200

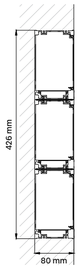


AURA 200SS

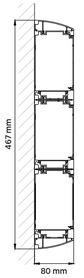


AURA 300 Series

AURA 300



AURA 300SS



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AURA

Wall mounted integrated system

technical data

Horizontal profile

Max. Length of manufacture	3000mm*

* If it was required consecutive sections for many beds, the union is done from inside the bed head, making two sections visible.

Technical rail

Max. Load	25 Kg x meter

Electrical System

Rated voltage	110/230 V~
Rated frequency	50-60Hz
Rated current	10A or 16A per circuit. 20A and 25A optional

Lighting System (optional)

Direct light	Led 1x10W, led 1x20W
Indirect light	Led 1x20W, led 2x20W
Night light	1,2W

Gas system

Compressed gases	5 bar
Compressed air-nitrogen supply to air motors	10 bar
Gas type	O_2 - Air - N_2O - CO_2 - VAC - AGSS - Air 800 - $N_2$800

Materials 6060 / 6063 T5

Structure	Aluminum (3 mm thickness) with epoxy painting or anodized
Electrical/gas outlet plate	Aluminum with epoxy painting anodized, HPL or similar material
Technical rails	Stainless steel AISI 304 / Aluminum
End cover set	ABS injected / Aluminum (white)
Plastic diffuser	Extruded polycarbonate

Installation

For surfaces with good mechanical strength (concrete, brickwork, etc.) it is recommended to fix the product directly on the surface with expansion plugs and screws. On weak surface, this kind of surface should first be reinforced with a wooden insert fixed to the metal structure of the plasterboard in order to increase the consistency when fitting the screw.

Transportation and storage*

Ambient temperature	-10°C to +60°C
Relative humidity	20% - 80%

* The following storage conditions apply for up to 15 weeks.

Ambient conditions

Ambient temperature	+10°C to +40°C
Relative humidity	Max. 75%

Clasification

Directive 93/42/EEC:	CLASS II B

EC Conformity

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Compatibility with other medical devices

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CE 0197 - Notify Body

TÜV Rheinland LGA Products GmbH

quality

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www.tedisel.com

08-2018

Our flagship bed head unit

Versatile

Aura design allows perfect adaptation to all hospital wards with different possible configurations.

Attractive

Optimal design with atractive shape and fine lines.

Clean

Geometric lines enhance optimal cleanlines.

Modular

Aura modular design allows various configurations granting adequate space for all gas and electrical services.

Adaptable

The wider newly designed profiles allow suitable mounting for all standards of electrical and gas components.

Au

AURA in detail

AURA is the bed head unit with a design based on geometric lines that facilitate its cleanliness.

Surface finish

The unit can be epoxy painted in any RAL colour or anodised. Possibility to apply an HPL sheet on the frontal face or similar options on demand

Easy maintenance

The covers permit easy access to their interior.

Medical Gas Elements

The gas outlets are installed in the mechanical structures fixed to the profile Internal structure.

Illumination

Additional illumination

Direct and indirect LED or flourescent lights are available in various configurations

Electrical mechanisms

All electrical components can be fixed either on the chassis or front lids.

Accessories

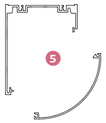
Aura structure can integrate several technical rails which can be placed at the top, middle or bottom of the unit. The technical bar can be used for mounting:

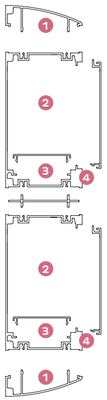
- Stainless steel shelf
- Monitor supports arms
- Infusion stands
- Examination and reading lamps
- Element basket holders
- Clamps to fit different equipments
- Drawers

Profile

Aura is made of modular separated profiles that guarantie ideal internal segregation, keeping isolated electricaly from gas components.

Profile number 5 can be used instead of number 1 for either LED or fluorescent tube.



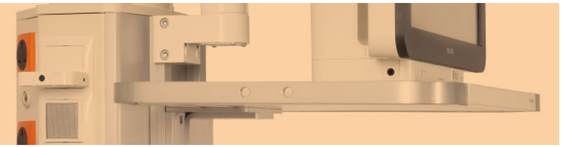


1. Indirect or direct light LED.
2. Low voltage, high voltage and gas outlets.
3. Low voltage.
4. Provision for technical rail.
5. Indirect or direct light.

The **Ceiling pendants** are designed by Tedisel for ICU and operating theatres.

The **Ceiling pendants,** in the I.C.U. unit, permit the medical personnel to provide a quick response in any situation.

In the operating theatre, integrate and support the medical equipment required for the different interventions and maintain the cables outside the surgery table environment, guaranteeing the ergonomic work and safety in the placement of the monitoring equipment.



Some references:

- **Hospital de Bellvitge,** Barcelona · Spain
- **Clínica Fátima,** Sevilla · Spain
- **Hospital de Llevant,** Palma de Mallorca · Spain
- **C Oktyabr-sky Hospital,** Russia.
- **Ansari Saleh Hospital ,** Indonesia
- **Southern Philippines Medical Center (Davao), Philippines.**

tedisel medical

tedisel medical

Column

Ceiling pendant system for critical areas and operating theatres

technical data

Electrical System

Rated voltage	110/230 V~
Rated frequency	50-60Hz
Rated current	10A or 16A per circuit. 20A and 25A optional

Lighting System (Optional)

Positioning light integrating in the arm	12 Vdc
Positioning light in bottom of the service head	12 Vdc

Gas system

Compressed gases	5 bar
Compressed air-nitrogen supply to air motors	10 bar
Gas type	O_2 - Air - N_2O - CO_2 - Vac - AGSS - Air 800 - N_2 800

Materials 6065 / 6063 T5

Structure	Aluminum (3 mm to 12 mm thickness)
Tubes	Stainless steel AISI 304
Shelves	Aluminum / Stainless steel with epoxy painting
Technical rails	Stainless steel AISI 304 / Aluminum

Instalation

Fixation to concrete ceiling by ceiling plate.

Transportation and storage*

Ambient temperature	-25°C to + 70°C
Relative humidity	10% - 75%

* The following storage conditions apply for up to 15 week.

Ambient conditions

Ambient temperature	+10 °C - + 40°C
Relative humidity	30% - 75%

Clasification

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Compatibility with other medical devices

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Please follow the instructions provided by the manufacturers of this equipment for proper installation.

CE 0197 - Notify Body

TÜV Rheinland LGA Products GmbH

quality

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08-2018

Ergonomic system for critical areas and operating theatres

Optimizes

the work space inside the operating theatres and I.C.U. units.

Brings

the medical instruments near to the patient, with the aim to support the work of the health care staff.

Facilitates

the medical tasks and provides greater safety in the placement of the monitoring equipment.

Ceiling pendants in detail

Ceiling pendant

Choosing the right pendant for the operating theatre and its supply, shall depend on the type of operating theatre in which it will be installed and the type of procedures.

Ceiling pendants types:

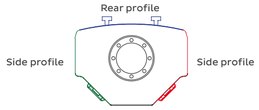
· General Surgery Ceiling pendants.
· Anaesthesia Ceiling pendants.
· Endoscopy Ceiling pendants.
· Auxiliary support Ceiling pendants.

The Tedisel Ceiling pendants integrate and support a wide range of equipment inside the same limited space. They guarantee an ergonomic and functional layout, for both the health care personnel and the patient.

Operating theatres are equipped with the following elements:

· Flat screens.
· Computers.
· Endoscopic equipment.
· High Definition Cameras.
· Audiovisual Solutions.
· Interventional Cardiology Image Systems.
· Neuro-navigation Systems.
· PACS

The Tedisel Ceiling pendants are built with three extruded aluminium profiles; two lateral frames which support the electrical, telecommunication and gas mechanisms; and a rear frame which includes two built-in standard vertical technical rails.



Maintenance and cleaning

For quick maintenance, our pendant have front access to the service head interior.

Easy cleaning due to its continuous and streamlined design.

Brakes

All the joints of the extension arms are equipped with pneumatic or electromagnetic brakes, (as well as mechanical friction brakes), located in each joint, and controlled by buttons in the ergonomic grips, located in the service head.

Service head	
Height	500 - 750 - 1000 - 1250 - 1500 mm
Net Weight *	15 - 22 - 26 - 35 Kg
Rotation	330°
Brakes	Electropneumatic / Electromagnetic

* Net weight without components.

Arms

The arms facilitate the proximity of the medical equipment to the health care personnel.

Depending on the space available in the operating theatre, and the equipment needs of each intervention, different arm types can be selected.

Inverted arm option with electromagnetic brake for low ceilings is available.

FIXATION **TYPE R**: Direct ceiling fixing with rotation.

FIXATION **TYPE SA**: Single arm fixing.

FIXATION **TYPE DA**: Double arm fixation.

FIXATION **TYPE TM**: Tandem fixation.

	TDS Air		TDS Air plus		TDS e-brake		TDS XL e-brake		TDS XXL e-brake	
Lengths of arms	Own weight	Payload	Own weight	Payload	Own weight	Payload	Own weight	Payload	Own weight	Payload
600 mm	33 kg	580 Kg	33 Kg	640 Kg	33 Kg	640 Kg	52 Kg	1000 Kg	-	-
800 mm	36 kg	420 Kg	36 Kg	470 Kg	36 Kg	470 Kg	57 Kg	820 Kg	-	-
1000 mm	39 kg	320 Kg	39 Kg	370 Kg	39 Kg	370 Kg	62 Kg	650 Kg	-	-
1200 mm	-	-	-	-	42 Kg	300 Kg	67 Kg	540 Kg	-	-
1400 mm	-	-	-	-	-	-	72 Kg	480 Kg	-	-
1600 mm	-	-	-	-	-	-	77 Kg	400 Kg	-	-
600+600 mm	58 Kg	260 Kg	58 Kg	300 Kg	58 Kg	300 Kg	76 Kg	530 Kg	92 Kg	540 Kg
800+600 mm	61 Kg	220 Kg	61 Kg	260 Kg	61 Kg	260 Kg	81 Kg	470 Kg	97 Kg	480 Kg
800+800 mm	64 Kg	180 Kg	64 Kg	220 Kg	64 Kg	220 Kg	84 Kg	390 Kg	102 Kg	400 Kg
1000+600 mm	64 Kg	180 Kg	64 Kg	220 Kg	64 Kg	220 Kg	86 Kg	390 Kg	102 Kg	400 Kg
1000+800 mm	67 Kg	150 Kg	67 Kg	190 Kg	67 Kg	190 Kg	89 Kg	330 Kg	107 Kg	340 Kg
1200+600 mm	-	-	-	-	67 Kg	190 Kg	91 Kg	330 Kg	107 Kg	340 Kg
1000+1000 mm	-	-	70 Kg	170 Kg	70 Kg	170 Kg	92 Kg	300 Kg	112 Kg	310 Kg
1200+800 mm	-	-	-	-	70 Kg	170 Kg	94 Kg	300 Kg	112 Kg	310 Kg
1200+1000 mm	-	-	-	-	72 Kg	150 Kg	97 Kg	270 Kg	117 Kg	280 Kg
1200+1200 mm	-	-	-	-	76 Kg	130 Kg	100 Kg	240 Kg	122 Kg	250 Kg
1400+600 mm	-	-	-	-	-	-	96 Kg	300 Kg	112 Kg	310 Kg
1400+800 mm	-	-	-	-	-	-	99 Kg	270 Kg	117 Kg	280 Kg
1400+1000 mm	-	-	-	-	-	-	102 Kg	240 Kg	122 Kg	250 Kg
1400+1200 mm	-	-	-	-	-	-	105 Kg	200 Kg	127 Kg	210 Kg
1600+600 mm	-	-	-	-	-	-	101 Kg	270 Kg	117 Kg	280 Kg
1600+800 mm	-	-	-	-	-	-	104 Kg	240 Kg	122 Kg	250 Kg
1600+1000 mm	-	-	-	-	-	-	107 Kg	200 Kg	127 Kg	210 Kg
Brake System	Electropneumatic		Electropneumatic		Electromagnetic		Electromagnetic		Electromagnetic	

Technical Rails

The Tedisel service heads have built-in standard vertical technical rails, integrated to the extruded profile (rear frame), in which trays, drawers and other accessories can be attached in complete safety.

We also have the option to integrate technical rails in the trays, increasing the capacity for accessories.

Accessories

Accessories will depend on the type of operating theatre in which they will be installed and the services which are demanded in the same.

The Ceiling pendants accessories include:

· Shelves.
· Drawers.
· Vertical poles.
· Pump stand.
· Arm support for screen.
· Infusion stand.

Double Vertical pole

Tubes diameter	38
Tubes height	1000 mm
Net weight	6 Kg

Shelf

Dimensions	430/630 x 430 x 25 mm
Dimensions with technical rails	635/835 x 430 x 25 mm
Net weight	7,7 Kg
Net weight with technical rails	8,2 Kg
Max. Load	50 Kg

Shelf with Drawer

Dimensions	430/630 x 430 x 145 mm
Dimensions with technical rails	635/835 x 430 x 145 mm
Net Weight	15 Kg
Net weight with technical rails	15,5 Kg
Max. Load	40 Kg

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Motor Arm System

Column with motor arm system for critical areas and operating theatres

technical data

Electrical System

Rated voltage	110/230 V~
Rated frequency	50-60Hz
Rated current	10A or 16A per circuit. 20A and 25A optional

Lighting System (Optional)

Positioning light integrating in the arm	12 Vdc
Positioning light in bottom of the service head	12 Vdc

Gas system

Compressed gases	5 bar
Compressed air-nitrogen supply to air motors	10 bar
Gas type	O_2 - Air - N_2O - CO_2 - Vac - AGSS - Air 800 - N_2 800

Materials (Service Head) 6065 / 6063 T5

Structure	Aluminum (3 mm to 12 mm thickness)
Tubes	Stainless steel AISI 304
Shelves	Stainless steel with epoxy painting
Technical rails	Stainless steel AISI 304

Instalation

Fixation to concrete ceiling by ceiling plate.

Transportation and storage*

Ambient temperature	-25°C to + 70°C
Relative humidity	10% - 75%

* The following storage conditions apply for up to 15 week.

Ambient conditions

Ambient temperature	+10 °C - + 40°C
Relative humidity	30% - 75%

Clasification

Directive 93/42/EEC:	CLASS II B

EC Conformity

Tedisel complies with the provisions of Directive 93/42/EEC (medical devices), ISO 11197 (medical supply units) and IEC 60601-1 (medical electrical equipment. Part1: general requirements for basic safety and essential performance).

Compatibility with other medical devices

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08-2018

Ceiling motor pendants in detail

Smooth surface through concealed fasteners

90cm² space for cable routing

Motor arm pendant

Choosing the right pendant for the operating theatre and its supply, shall depend on the type of operating theatre in which it will be installed and the type of procedures.

Ceiling pendants types:

· General Surgery Ceiling pendants.

· Anaesthesia Ceiling pendants.

· Endoscopy Ceiling pendants.

· Auxiliary support Ceiling pendants.

· Anaesthesia lifter Ceiling pendants.

The Tedisel Ceiling pendants integrate and support a wide range of equipment inside the same limited space. They guarantee an ergonomic and functional layout, for both the health care personnel and the patient.

Main Characteristics:

· Playload:

TDSLift150M: up to 150 kg

TDSLift250M: up to 250 kg

· Braking mode: Electromagnetic or Electropneumatic

· Height adjustment: 700 mm in 10-12 sec (20º+30º)

· Motor control: Setup to customer needs

· On site installation: Large openings to access the system

· Design: No visible screws

· Customizable according to each customer need

Brakes

All the joints of the extension arms are equipped with either electromagnetic or electropneumatic brakes, and controlled by buttons or remote control (for anaesthesia lifter).

Motor arms

The arms facilitate the proximity of the medical equipment to the health care personnel.

Depending on the space available in the operating theatre, and the equipment needs of each intervention, different arm types can be selected.

MAS

		TDSLift 150M		TDSLift 250M	
Lenghts of arms	**Complete length**	**Own weight**	**Payload**	**Own weight**	**Payload**
Extension arm 1000	1000mm	88 Kg	150 Kg	88 Kg	250 Kg
Extension arms 600+1000mm	1600mm	108 Kg	150 Kg	137 Kg	250 Kg
Extension arms 800+1000mm	1800mm	111 Kg	150 Kg	142 Kg	250 Kg
Extension arms 1000+1000mm	2000mm	114 Kg	150 Kg	147 Kg	250 Kg
Extension arms 1200+1000mm	2200mm	117 Kg	140 Kg	152 Kg	250 Kg
Extension arms 1400+1000mm	2400mm	-	-	157 Kg	240 Kg
Extension arms 1600+1000mm	2600mm	-	-	162 Kg	200 Kg

Special Features

Cable Aid System

Easy routing of cables and hoses *

Collision Warning

Recognizes other systems and wall; warns against collisions in the OR *

Soft Start

Smooth starting and stopping of the arm *

Arm selection LED

Arm selection LED signaling light at the junctions

* Optional

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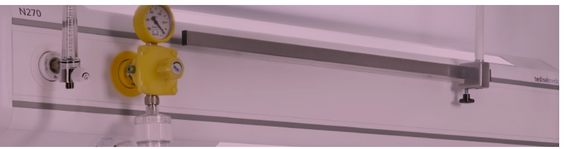
N270 is the wall-mounted bed head unit designed by Tedisel for hospitalization and general care areas.

The best choice to equip the hospitalization zones where direct light, indirect light, electrical sockets, communication connectors (voice and data) and gas outlets are required.



Some references:

- **Cherkasy Hospital,** Ukraine
- **Lviv Hospital,** Ukraine
- **Consorzio Cit. Ospitale,** San Paolo · Italy
- **Cliniques El Amen,** Túnez
- **Hospital General Vall d´Hebron,** Barcelona · Spain
- **Hospital Sant Joan de Déu,** Barcelona · Spain
- **Hospital San Sebastián de los Reyes ,** Madrid · Spain
- **Hospital Quirón,** Tenerife · Spain

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tedisel medical

N270

Wall mounted integrated system

technical data

Horizontal profile

Max. Length of manufacture	3000mm*

* If you want to install consecutive sections for many beds, the union is done from inside the bed head, making two sections visible.

Technical rail

Max. Load	25 kg x meter

Electrical System

Rated voltage	110/230 V~
Rated frequency	50-60Hz
Rated current	10A or 16A per circuit. 20A and 25A optional

Lighting System (optional)

Ballast	Ballast: conventional or dimmable
Direct light	Led 1x10W, led 1x20W
Indirect light	Led 1x20W, led 2x20W
Night light	1,2W

Gas system

Compressed gases	5 bar
Compressed air-nitrogen supply to air motors	10 bar
Gas type	O_2-Air-N_2O-CO_2-VAC-AGSS-Air800-N_2 800

Materials 6060 / 6063 T5

Structure	Aluminum (3 mm thickness) with epoxy painting or anodized
Electrical/gas outlet plate	Aluminum with epoxy painting anodized, HPL or similar material
Technical rails	Stainless steel AISI 304 / Aluminium
End cover set	ABS injected. White
Plastic diffuser	Extruded polycarbonate

Installation

For surfaces with good mechanical strength (concrete, brickwork, etc.) it is recommended to fix the product directly on the surface with expansion plugs and screws. On weak surface, this kind of surface should first be reinforced with a wooden insert fixed to the metal structure of the plasterboard in order to increase the consistency when fitting the screw.

Transportation and storage*

Ambient temperature	-10°C to + 60°C
Relative humidity	20% - 80%

* The following storage conditions apply for up to 15 weeks.

Ambient conditions

Ambient temperature	+10 °C - + 40°C
Relative humidity	Max. 75%

Clasification

Directive 93/42/EEC:	CLASS II B

EC Conformity

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08-2018

Our flagship bed head unit

Versatile

Its design has the capacity to adapt to all the needs of the area.

Attractive

Design with subtle lines.

N270 in detail

N270 is the bed head unit with a linear design which permits custom measures.

Surface finish

The unit can be epoxy painted in any RAL colour or anodised. Possibility to apply an HPL sheet on the frontal face or similar options on demand

Easy maintenance

The electrical and gas covers permit easy access to their interior.

ABS End cover sets

Lighting

The lighting modules make a 60º angle with the vertical plane to aim the lighting towards the patient's head (direct light) and towards the ceiling (indirect light).

Mechanisms

The electrical and communication sockets are fixed on the frame, which facilitate its installation.

Accessories

N270 structure integrates two previsions for DIN standard technical rails in the upper and lower section of the gas cover which are the support of the:

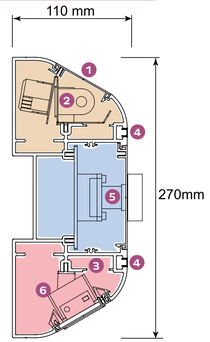
· Stainless steel trays.
· Monitor holder arms.
· Infusion stand.
· Examination Lamps.
· Element basket holder.

Internal structure

N270 is manufactured with a single profile, divided into three compartments:

- Indirect Lighting.
- Medicinal gases.
- Electrical, telecommunications mechanisms and direct lighting.

1. Polycarbonate diffuser
2. Ambient light.
3. Rail for weak current.
4. Housing for rail.
5. Gas channel.
6. Electrical mechanisms.



TDS-ES

IT system distribution switch board

technical data

Electrical Characteristics

Input voltage	400 V 3N~ / 230 V~
Output voltage	230 V~ / 230 V~
Phases	Three phases / Single phase
Frequency	50-60 Hz
Power	3 to 10 kVA

Characteristics Board

Material	Steel
Surface finish	Epoxy-polyester powder
IP grade	IP20
Ik grade	IK06
Degre of pollution	Grade 2

Emergency supply unit for surgical lights

Source supply	100-240 V~ / 50-60Hz
Output voltage	24 to 27,5Vcc
Load capacity	75/150W
Battery	24Vcc -7AH
Battery useful life	5 years

Fource Ventilation (optional)

Fan

Max flow	150 / 170 m3/h
Power consumption	19 / 22 W

Temperature sensor

Precision	+/- 1%
Range	0º - 150º

Ambient Conditions

Ambient temperature	-10°C to + 60°C
Relative humidity	20% to 80%

Design in according

IEC 60364-7-710 (Low-voltage electrical installations. Part 7-710: Requirements for special installations or locations. Medical locations), EN 61439-1 (Low-voltage switchgear and controlgear assemblies - Part 1: General rules) and EN 61439-2 (Low-voltage switchgear and controlgear assemblies - Part 2: Power switchgear and controlgear assemblies).

Electrical Testing in Laboratory

DEKRA Testing and Certification S.A.U.

Protection against Electric Shock

Class I

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Energy and protection

Safety

Changeover device with by-pass switch.

Integrated solution

Include isolating transformer, changeover devices and isulation monitor.

Facilitates access to the technicians

Versatile /Flexible

Different number of pole circuits brakers.

Customize

Type of isolating transformers.
· Three phases or single phase.
· Power rating 3 to 10kVA.

Some references:

- **Hospital Vall d'Hebron,** Barcelona · Spain
- **Life in Day Care and Surgery Centre,** Dubai
- **Zayed Military Hospital,** Abu Dhabi, United Arab Emirates
- **Coccona Hospital Center,** Dubai
- **Complejo Hospitalario Reina Sofía,** Córdoba · Spain

DISTRIBUTION SWITCH BOARD

- Changeover device
- Isolating transformer
- Emergency supply unit for surgical lights
- Insulation monitor
- Two-pole circuits brakers

FEATURES OF COMPONENTS

Automatic transfer switching device

- Blackout <90ms
- ModBus connection (optional)
- Bypass switch (optional)

Isolating transformer

- Voltage: 230/400 V~
- Frequency: 50-60 Hz
- Safety class: Class I
- Leak current < 0,5 mA
- Medical use
- Power: 3,15 to 10 kVA
- Insulating class: F (155º C)
- No load current < 3%
- Insulation resistence 7 MOhmios

Emergency supply unit for surgical lights

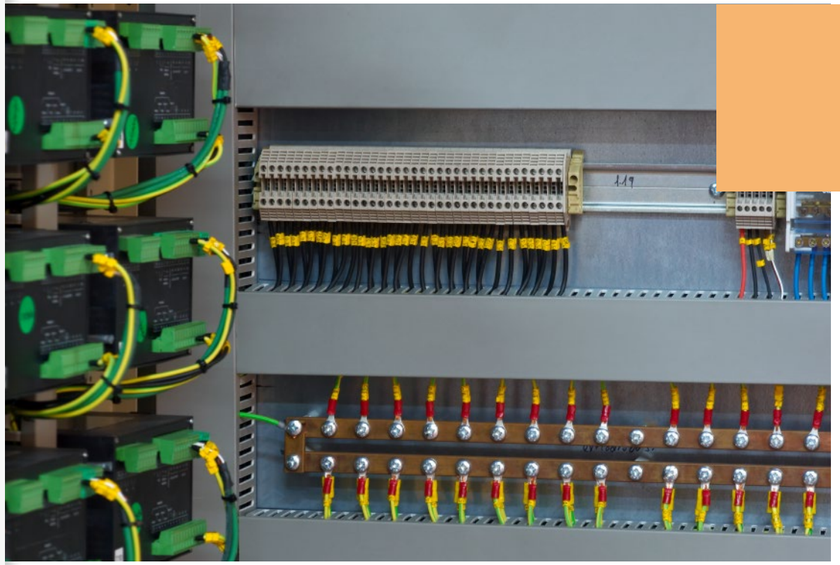
- Switch over system: Instantly
- Source supply: 100-240 V~/ 50-60Hz
- Output voltage: 24 to 27,5Vcc
- Load capacity: 75/150W
- Emergency supply unit for 2 led light head: 2 hours

Two-pole MCBs

- At least 8 two-pole MCBs

Insulation monitor

- Power supply voltage: 100-240 V~ / 50-60 Hz
- Safety class: Class I
- Monitoring: Temperature of transformer, Load and History alarms



TDS-ES

IT SYSTEM DISTRIBUTION SWITCH BOARD DETAILS

Design

Sheet Steel housing.

Ambient conditions

Conducted waste heat by free convection*.

Safety

Automatic transfer switching device, with optional bypass switch.

Protection

Isolating Transformer.

Flexible

Total adaptation according to the needs of the client and the project.

* Optional: air circularion fan working with temperature sensor.