moduflex nova



modul technik
medical supply systems and equipment

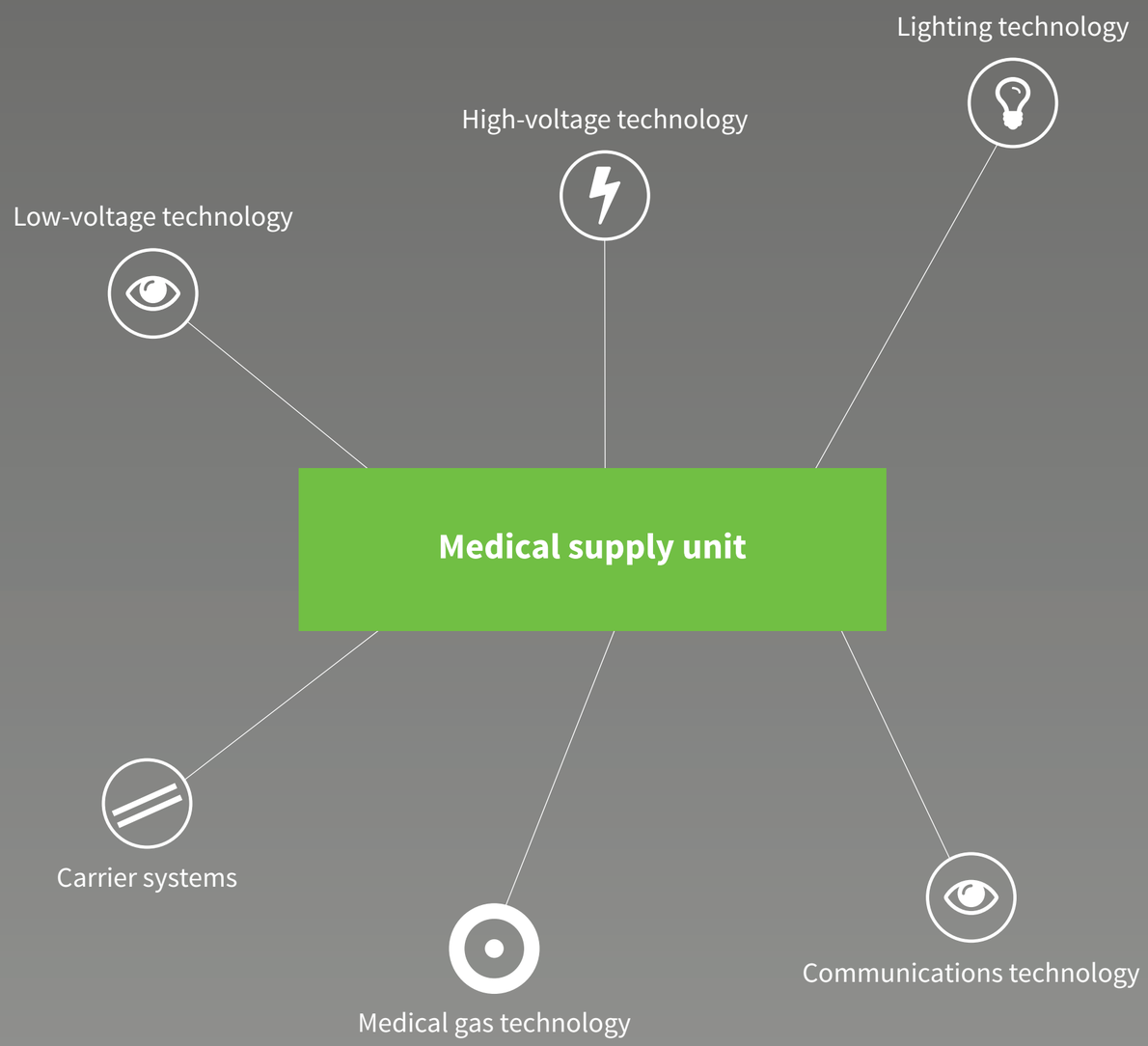


fig. 001 | Chart Medical Supply System

OUR MEDICAL SUPPLY UNITS

OUR MODULAR CONCEPT: FLEXIBLE COMBINATIONS AND TOTALLY CUSTOMISABLE!

What makes the medical supply units from **modul technik** so special? Actually everything! This is because our Class B medical products are modular in their design and can be easily and cost-effectively adjusted through combinations and customisations to the most diverse areas of application.

This is how we meet all the essential requirements for the optimum supply of the patient place with low and high voltage current, data and communications technologies and medical gases, and thereby enable the adaptation of diverse medical apparatus. Our individual design options as regards the colour, material and image motifs applied make each unit that we deliver a unique, connection-ready device.

Our ideal scenario is when we can work closely with you early in the planning phase of your facility. Then we can give architects and planners valuable and project-specific advice and assistance, saving you both time and effort.

All our basic modules are made from high-quality aluminium with its inherent long durability and ease of use. The powder coatings of all extruded aluminium profiles take specific hospital hygiene requirements into account and can be supplied in any colour you want from the RAL or NCS colour scale.

For those areas where particular comfort is to be provided, we also use wood décor and decorative graphics to transform a technical assistance device into an elegant piece of furniture. You can choose from our standard range or choose whatever you want. Whether you want atmospheric photos, artistic graphics, paintings or image-text combinations, we create all graphics in high-resolution, brilliant quality digital printing.

It goes without saying that all our products meet the “Essential Requirements” of EU Directive 93/42/EEC and are manufactured according to DIN EN ISO 11197. Our products only leave our premises after rigorous final testing for functionality and workmanship quality. This is also guaranteed by our quality management system that is certified according to DIN EN ISO 9001 and DIN EN ISO 13485.

STANDARD DESIGN

You do not have any customisation requirements and simply want to install proven and well-tested systems. Then we recommend our standard units to you which are described in more detail in an information box on many product pages. We can offer you these standard products at special conditions.

GENERAL EQUIPMENT FEATURES

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GENERAL EQUIPMENT HIGH-VOLTAGE TECHNOLOGY

The medical supply unit can be equipped with both earthed sockets (230 V/16 A with control light) and with CEE sockets (230 V/16 A 3 pole or 400 V/16 A 5-pole). The brand, number and electric circuit types of the installation elements and the voltage type of the supply voltage are specified depending on the project. Potential equalisation sockets can also be specified in accordance with the number of sockets.

As a preference PEHA COMPACTA safety sockets are installed.

Custom installation of additional elements is also possible. The electrical connecting terminal block is factory-installed and wired to the electrical equipment.

GENERAL EQUIPMENT MEDICAL GAS TECHNOLOGY

The medical supply unit is connected to the on-site medical gas supply at the central feed-in point. Current is usually supplied to the media either laterally, at the back or from the top directly into the respective media-specific channels or ceiling columns. The copper pipes installed inside the supply unit meet the quality requirements for medical gases according to DIN EN ISO 7396-1.

If required, the system is delivered ready for use with integrated tapping points according to DIN EN ISO 9170-1 and DIN EN ISO 9170-2. Market-available brands such as DRÄGER, GREGGERSEN, HEYER, MEDAP or other country-specific brands can be installed. Based on the specific project, the specialist planners will decide whether single or dual-circuit systems are to be used.

GENERAL EQUIPMENT MONITORING AND COMMUNICATIONS TECHNOLOGY

The connection sockets for monitors and patient monitoring devices are usually provided by the operator. In other cases we can arrange for delivery in consultation with the planners. Whereas specialist companies connect the monitor systems, we of course install all connector systems, sockets and IT inputs in accordance with manufacturer specifications. This is the best possible preparation for a fast and smooth apparatus connection after the installation of the supply unit.

GENERAL EQUIPMENT APPARATUS CARRIER SYSTEM G 1000

The apparatus carrier system (25x10 mm) is used to attach medical accessories such as flowmeters, catheter baskets, examination lights and much more. Consult our comprehensive Accessories Catalogue for a wide range of equipment options.

GENERAL EQUIPMENT LIGHTING TECHNOLOGY

There are many different lighting technology options available for the optimum lighting of the workplace and for the patient environment.

These include lamps for indirect general lighting, reading and examination lighting and lamps to provide lighting orientation. All technical data and lighting options can be found in the table on the respective product page.

Lighting modules meet the standards listed in DIN 5035 “Interior room lighting by artificial light” - Part 3, lighting in hospitals and in DIN EN ISO 11197. The lighting modules used in 2E user group rooms are generally equipped with low-stray field ballasts and are subjected to an EMC test.

Furthermore, many units can also be equipped with the bio-dynamically effective Visual Timing Light. More information on this can be found in the next chapter.

ASSEMBLY, CLEANING, MAINTENANCE AND REPAIR

ASSEMBLY

The medical supply unit can be assembled and fixed to both solid and lightweight construction walls. For lightweight construction walls an additional supporting structure is required on-site. For ceiling-suspended supply units, supporting structures are used based on the specific project.

CLEANING

The supply unit can be cleaned with standard cleaning agents and disinfected with alcohol-free disinfectants.
A high-quality electrostatic powder coating has been applied to the surface. Blank parts are made of anodised aluminium or stainless steel. The plastic components are cleaning and disinfectant-resistant.

MAINTENANCE AND REPAIR

The system must be maintained for the first time after 5 years and then after every 2 years. A contractual service agreement can be concluded for the maintenance work if required. More information can be found in the respective operating instructions.

ACCESSORIES

Our comprehensive range of accessories means you can set up your work area exactly as you want it. Consult our Accessories Catalogue to find out about the wide range of options available to you.

moduflex nova



fig. 069 | moduflex nova with BSP 2500

COMPACT, MODERN AND FLEXIBLE

The eye is immediately drawn to the appealing aesthetics of the **moduflex nova** intensive care unit, and also by its very compact design and the linear, easy to clean housing. However, it is its inner values and its high degree of flexibility that make the system an intensive care all-rounder.

The system incorporates all media accesses and can be equipped with a range of lighting solutions including room lighting, examination, reading and night lights. Another option is the Visual Timing Light for bio-dynamic lighting control, also on the intensive care ward. The **BSP 2500** basic support head system provides the media tapping points which we plan and fit customised to your requirements.

As well as its interfaces for high voltage and low voltage current, medical gases and other media, the **BSP 2500** supply head system has many other options for use with apparatus carrier systems, drawers, monitor mounts, working lights and much more.

To create maximum operating flexibility, the swivel arms and the movability of the supply head ensure a range of +/- 500 mm. Ideally **moduflex nova** is equipped with a supply head for the infusion side and an additional one for the monitoring side.

moduflex nova

COMPACT, MODERN AND FLEXIBLE

BSP 2500

BSP 2500 can be horizontal or vertical in design. BSP 2500 is used under moduflex nova as the horizontally movable supply trolley.

In combination with our support arm system, the ceiling supply units of the moduversa range are created.

BSP 2500 incorporates all the connections for full low voltage and high voltage current, data and communications technologies and medical gases. Every medical accessory can be adapted through the optional tubes and the front-integrated rails.

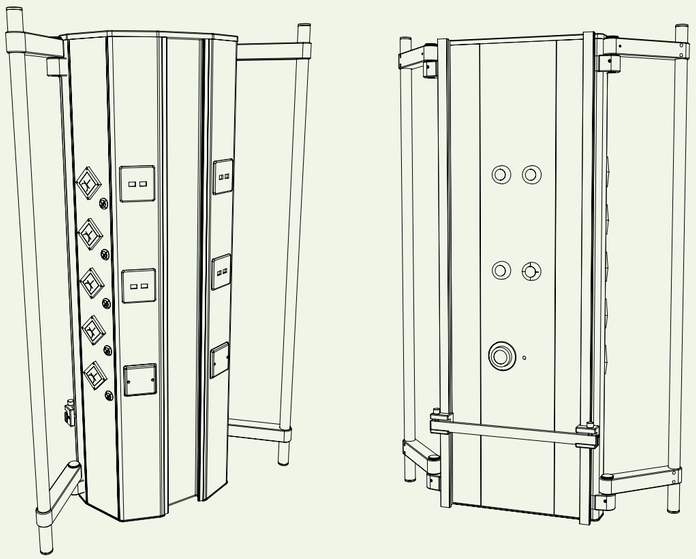


fig. 070

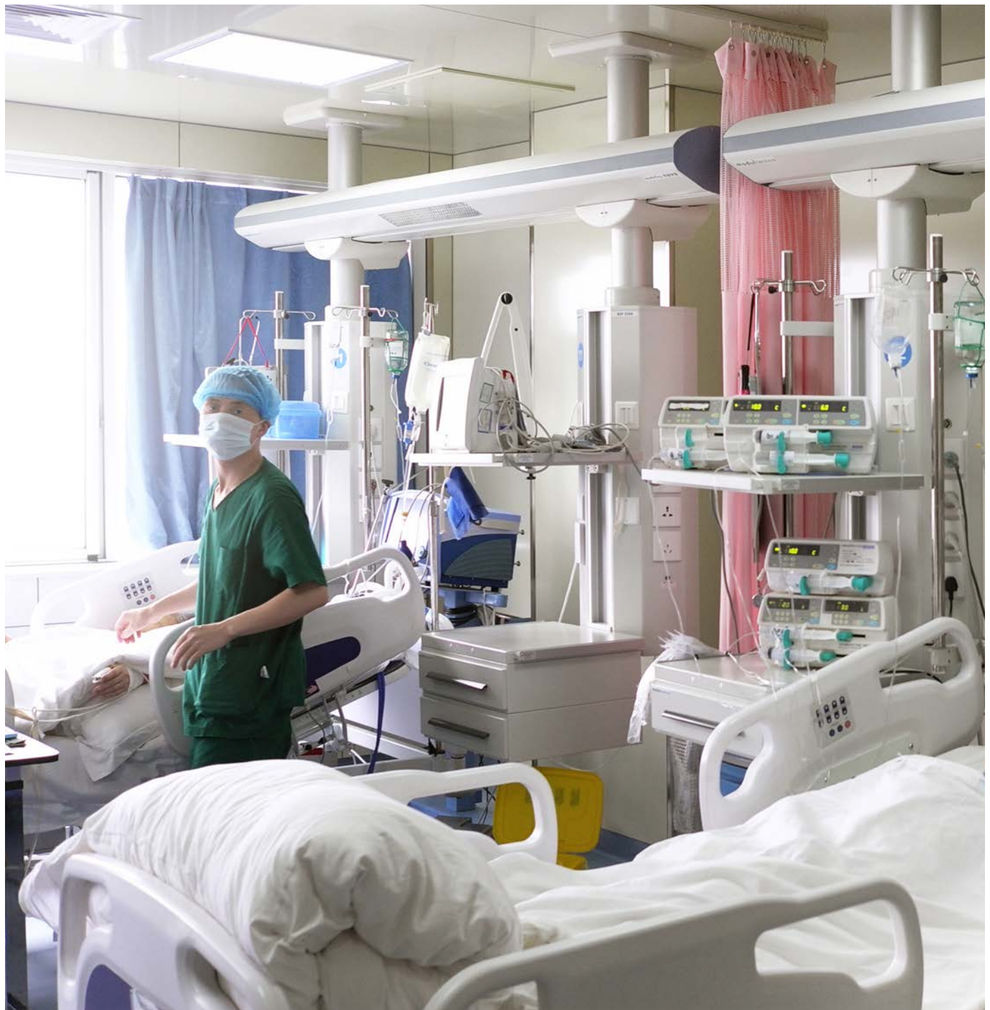


fig. 071 | moduflex nova *Zunyi Hospital, China*

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COMPACT, MODERN AND FLEXIBLE

TECHNICAL DATA

(country-specific differences possible)
Further technical data and design options on request

Electric specifications
Nominal voltage: 230 V - 240 V / 50 Hz - continuous operation
Protection class: I
Protection type: IP 20

Lighting technology
Nominal voltage: 230 V - 240 V / 50 Hz
Protection class: I
Connection type: Plug connection
Connection cross-section: 1.5mm² max.
Protection type: IP 20

Reading light (LED): Output ≙ 23 W
Reading light (T5 fluorescent tubes): Output ≙ 24 W / 2 x 24 W
Indirect lighting (LED): Output ≙ 64 W
Indirect lighting (T5 fluorescent tubes): Output ≙ 2 x 54 W
Night light (LED): Output ≙ 4.3 W

Operating pressure of medical gas technology
Oxygen: 5 bar
Compressed air: 5 bar
Vacuum: - 0,8 bar
CO_2: 5 bar
AGSS: 5 bar

General information
Media current feed: From the top in the support columns
Additional load per supply head max. 115 kg
Optional light control: DALI DIM
Optional indirect RGB lighting: Output ≙ 3 x 39 W

tab. 028



fig. 072 | moduflex nova, BSP 2500 centralised — *St. Vincenz-Krankenhaus, Limburg*



fig. 073 | moduflex nova



fig. 074 | moduflex nova, BSP 2500 decentralized with extension arm — *Elkerliek Ziekenhuis Helmond, Netherlands*

modul technik

Medizinische Versorgungssysteme und Geräte
medical supply systems and equipment

CE 0044

modul technik GmbH | Rudolf-Diesel-Straße 5 | D-56410 Montabaur
Phone: +49(0)26 02 / 94 49-0 | Fax: +49(0)2602 / 94 49-11
E-Mail: info@modul-technik.de | Internet: www.modul-technik.de

The technical data in the catalouges as well as the weight, load and dimensions have been issued to the best of our knowledge.
Errors reserved. We reserve the right to make technical alterations for the purpose of progress.

TÜV NORD CERT GmbH ISO 9001/ISO 13485

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