MEV-Series

modul technik
medical supply systems and equipment

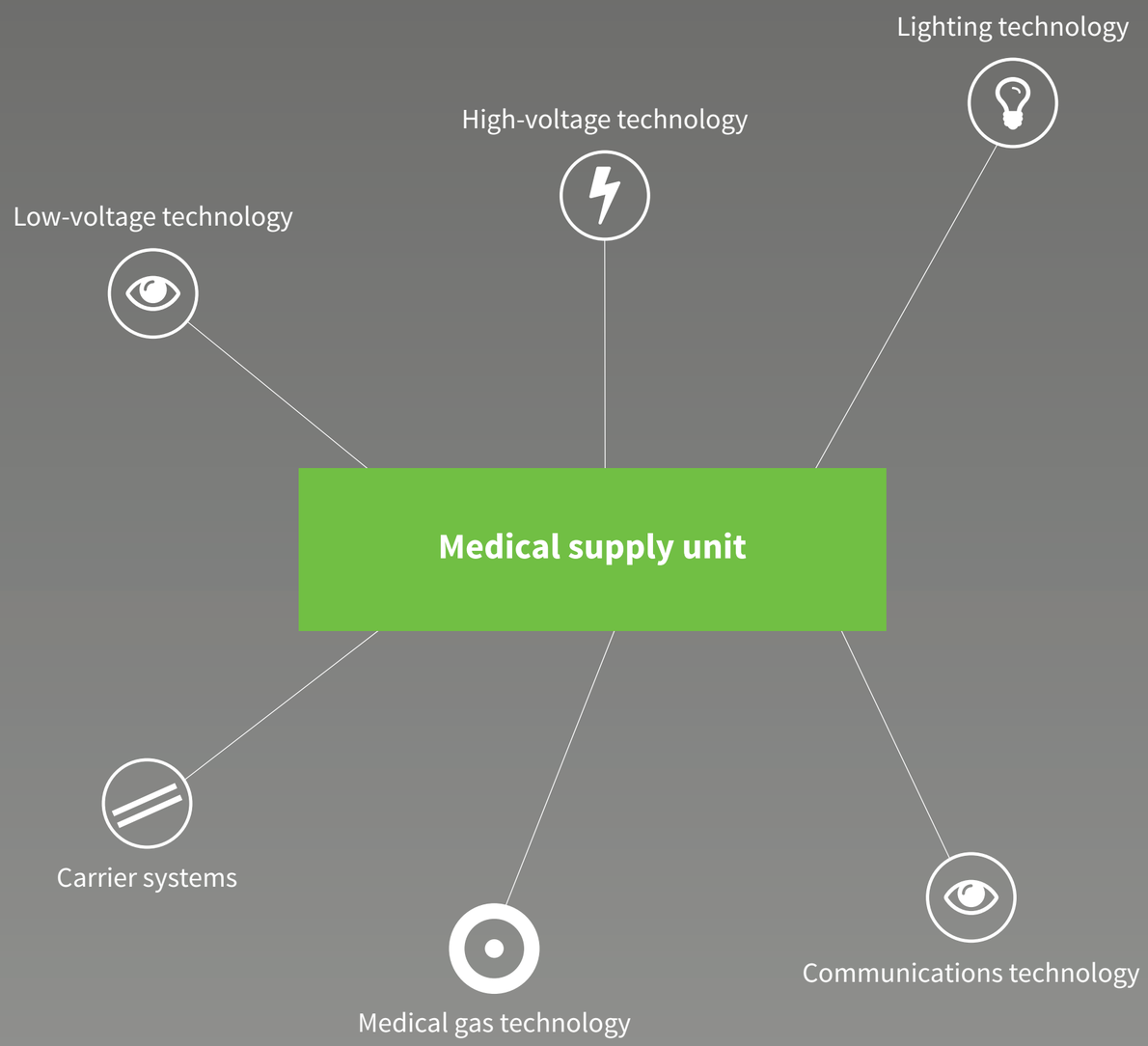

fig. 001 | Chart Medical Supply System

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.

MEV 8000

fig. 004 | MEV 8000

COMFORT IS NOT AN ART!

Concealed behind the decorative wall panel of the **MEV 8000** is the medical supply technology – accessible from both sides at all times yet completely invisible at first glance.

You can decide for yourself whether you prefer a classic, modern or extravagant style and we will then design the high-quality finished surfaces according to your requirements – with a sophisticated real wood veneer, easy-care plastic surfaces in any colour you want and with digitally printed designs. However, you can also select a variant from our comprehensive standard range.

The centrally placed supply units are enhanced with lighting elements which convey a consistent and pleasant atmosphere to the room. Whether it is a question of treatment light, indirect light or a reading light for the patient, everything is possible as are an infinite number of combinations.

The additional provision of the lateral fold-out carrying systems and/or front apparatus carrier rails, demonstrates the versatility of the **MEV 8000** for Normal Care.

MEV 8000

COMFORT IST NOT AN ART!

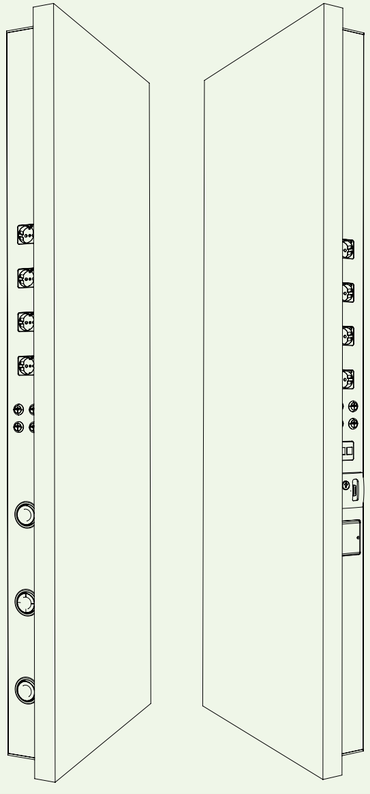
STANDARD DESIGN

High-voltage current technology
8 mains sockets, brand Peha (COMPACTA)
8 potential equalisation sockets (POAG)

Communications technology
1 data socket, RJ 45, 2 pcs, brand Peha (COMPACTA)
2 hollow wall sockets, Ø 68mm (e.g. for nurse call button)

Medical gas technology
1 gas tapping point oxygen (O^2), brand modul
1 gas tapping point compressed air (Air), brand modul
1 gas tapping point vacuum (Vac), brand modul

General information
Rear feed
Dimensions (W x H x D): 600 mm x 1700 mm x 150 mm
Décor: R 4889 Bella Noce schoko (melamine resin-coated)



tab. 001

fig. 005 | MEV 8000

DRK Klinikum Westerwald Krankenhaus Hachenburg, Germany

MEV 8000

COMFORT IST NOT AN ART!

TECHNICAL DATA

(country-specific differences possible)
Further techncial 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 LED downlight (optional)
Nominal voltage: 95 V – 260 V / 50 – 60 Hz
Protection class: II
Operating type: electronic converter (1-3,6 W)
Lamp output: 1 W
Protection type: IP 20

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

General information
Media current feed: Rear or from top
Décors: HPL-laminate or melamine resin coating
Optional support tubes: Side-mounted, swivel
Optional patient lamp Front-mounted
Additional load: Max. 80 kg

tab. 002

fig. 006 | MEV 8000 with frontal patient lamp, side view

fig. 007 | MEV 8000, customized solution

EXAMPLE DECORS

Bella noce schoko | *Sonoma Eiche* | *Niagara Buche* | *Himmelblau* | *Samtgelb* | *Manhattan*

MEV junior

fig. 008 | MEV junior, jungle-decor

BIG ADVENTURE FOR LITTLE PATIENTS!

Tim is dreaming in the Formula 1 Room of being a racing driver, Helene likes her fairy room, Anton slumbers blissfully amongst jungle animals and Johanna would like to have just such a fantastic horse picture at home – with **MEV junior**, nursing rooms in children's wards are instantly transformed into colourful and child-friendly worlds of adventure.

As with the **MEV 8000**, all the medical technology is concealed laterally behind an individually designed wall panel which is however always accessible. But on its front, children's wishes come true. Whether they are standard children's motifs from our wide selection or self-selected photos and graphics, we make everything possible. And because the image motifs can be easily exchanged, you can adapt the room design from time to time to the changing spirit of the times.

Indirect and reading lighting can be set up by attaching lighting elements to the front. The connectivity options of the supply unit is your decision. The wide range of accessories, such as the two-sided fold-out carrying systems or front support rails, make the **MEV junior** a good all-rounder for all nursing care situations.

MEV junior

BIG ADVENTURES FOR LITTLE PATIENTS!

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 LED downlight (optional)
Nominal voltage: 95 V – 260 V / 50 – 60 Hz
Protection class: II
Operating type: electronic converter (1-3,6 W)
Lamp output: 1 W
Protection type: IP 20

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

General information
Media current feed: Rear or from top
Décors: HPL-laminate or melamine resin coating
Optional support tubes: Side-mounted, swivel
Optional patient lamp Front-mounted
Additional load: Max. 80 kg

tab. 003

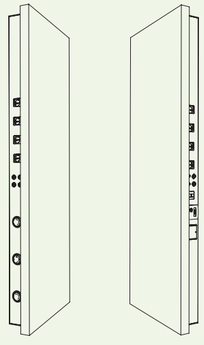
STANDARD DESIGN

High-voltage current technology
8 mains sockets, brand Peha (COMPACTA)
8 potential equalisation sockets (POAG)

Communications technology
1 data socket, RJ 45, 2 pcs, brand Peha (COMPACTA)
2 hollow wall sockets, Ø 68mm (e.g. for nurse call button)

Medical gas technology
1 gas tapping point oxygen (O^2), brand modul
1 gas tapping point compressed air (Air), brand modul
1 gas tapping point vacuum (Vac), brand modul

General information
Rear feed
Dimensions (W x H x D): 600 mm x 1700 mm x 150 mm
Décor: Children's décor from standard range (digital printing)



tab. 004

STANDARD DECORS *

fig. 009 | Astronaut

fig. 010 | Diver

fig. 011 | Jungle

* customized designs available on request.

modul technik

Medizinische Versorgungssysteme und Geräte
medical supply systems and equipment

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