IV-Series

modul technik
medical supply systems and equipment

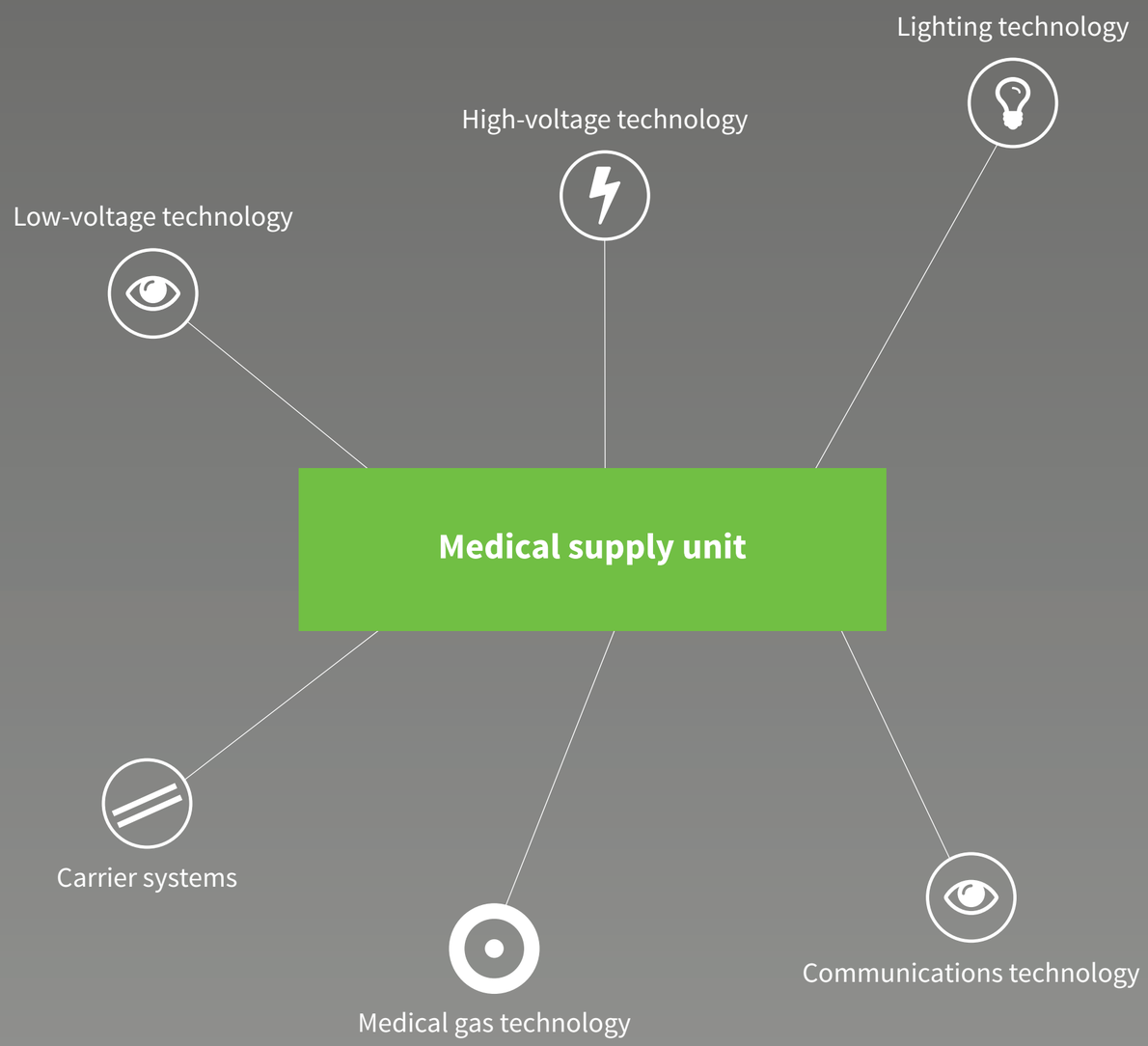

fig. 001 | Chart Medical Supply System

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.

IV 1054

fig. 035 | IV 1054 with equipment carrier rails of aluminium

THE ALL-ROUNDER WITH HUGE POTENTIAL

IV 1054 convinces customers through its almost unlimited equipment and expansion options.

Low and high voltage current, data and communications connections and medical gases are easily accessible at all times. In addition, aluminium or stainless steel support rails can accommodate all medical apparatus.

The system is particularly flexible when it comes to the media feeds, which can be routed from the back, on both sides or from the top. Depending on your requirements, **IV 1054** can also be designed as a single, double or triple-channel system.

The screw-free front profiles of **IV 1054** make cleaning easy and hygienic and these can also be obtained electrostatically powder-coated in an anodised design or in any RAL/NCS colour.

We did not install an integrated lighting solution for the **IV 1054** in order to achieve maximum flexibility. modulux pure can be used as a matching and cost-effective enhancement as a pure lighting and/or additional supply unit.

IV 1054

THE ALL-ROUNDER WITH HUGE POTENTIAL

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

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

General information
Media current feed: Rear, from top or side
Optional equipment rail: Above and below
Material of optional equipment rail: Stainless steel or aluminium
Number of media channels: One to three
Additional load: max. 50 kg/m

tab. 019

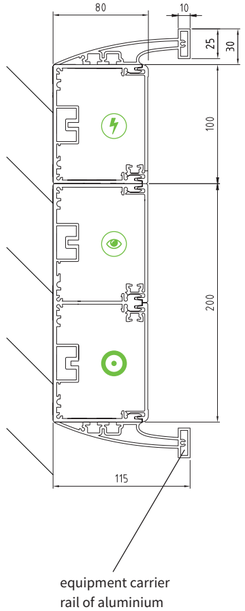

fig. 036

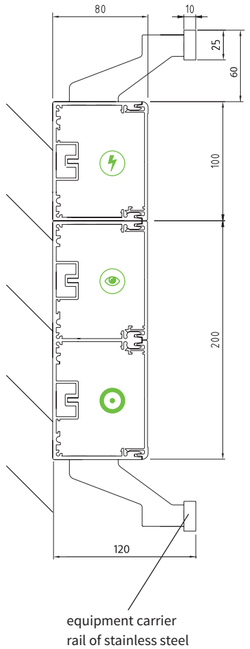

fig. 037

fig. 038 | IV 1054, triple-channel version

IVV 1054

fig. 039 | IVV 1054 with swiveling support tube for the infusion equipment

THE SOLUTION FOR NARROW PATIENT ROOMS

Sometimes narrow room dimensions limit the options for the use of horizontally arranged supply systems. So this where **IVV 1054** lends a hand with a change of perspective. Rotated by 90 degrees, this vertical supply unit provides optimum patient care in the smallest of spaces. Arranged one above the other, the tapping points for medical gases, high and low voltage current and data and communications technologies can be designed as single, double, triple or four channel versions depending on your requirements.

But there's still more. Apparatus and accessories such as infusion bottle holders or examination lights all have their place on the **IVV 1054** thanks to the stainless steel support arm fixed on the side making bulky apparatus trolleys or infusion stands superfluous.
As a result you not only gain space but also provide optimum working conditions for doctors and nursing staff.

modulux pure enhances the system as a matching lighting solution which like the **IVV 1054** can be provided in electrostatically powder-coated variants in all RAL colours

IVV 1054

THE SOLUTION FOR NARROW PATIENT ROOMS

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

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
Optional support tubes: Side-mounted, rigid or swivel
Number of media channels: One to three
Total additional load: max. 100 kg/m

tab. 020

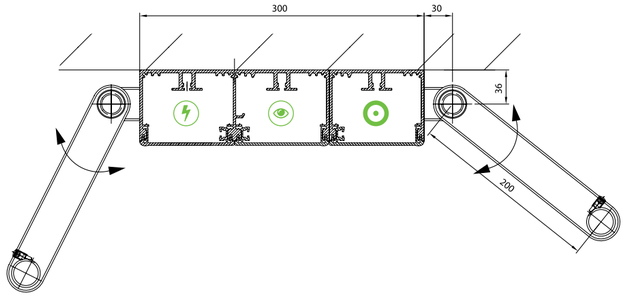

fig. 040

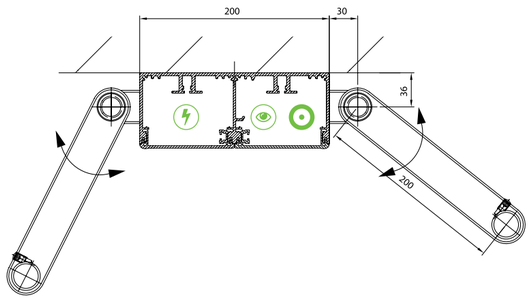

fig. 041

fig. 042 | IVV 1054, triple-channel version

fig. 043 | IVV 1054, with rigid mounting tubes

IV 1054 UP & IVV 1054 UP

fig. 044 | IVV 1054 UP

WALL-MOUNTED FOR MORE SPACE

New hospital buildings in particular enable the planning freedom to provide wall flush-mounted medical supply systems. However, the benefits of **IV 1054-UP** are not only demonstrated in its small footprint and in its elegant aesthetics of this only 90 mm deep flush-mounted modules. Depending on requirements and room design it can also be implemented in both horizontal and vertical variants in many different sizes, with different media connections and still have the same flexibility as all **modul technik** products.

Whether medical gases, electricity, data and communications technologies or single, double, triple or four channel versions – everything is possible. And everything is very transparent, easily accessible and very easy to clean. This achieved through the option of anodised or electrostatically powder-coated wall-mounted surfaces in the colour of your choice.

Our accessories programme also offers several appropriate room lighting solutions. We will be pleased to find the right lighting solution for you.

And what‘s more, the system can also be considered for conversion or refurbishment projects since the particularly flat design only requires an approx. 100 mm thick lightweight front-wall structure, behind which are concealed the cables and connections to the available media supply units. We will be pleased to advise you.

IV 1054 UP & IVV 1054 UP

WALL-MOUNTED FOR MORE SPACE

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

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

General information
Media current feed: Rear
Number of media channels: One to three

tab. 021

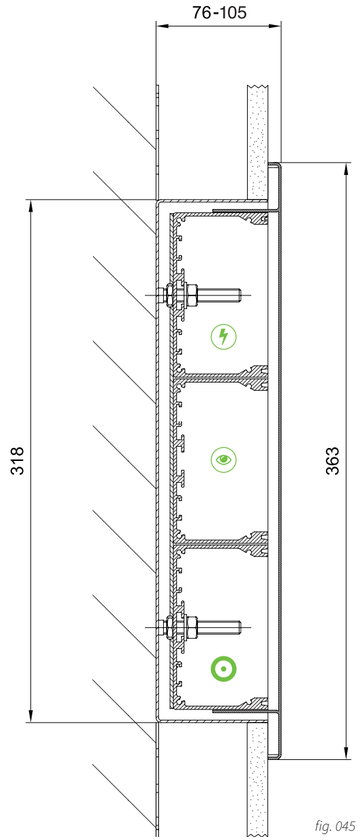

fig. 045

fig. 046 | IV 1054 UP, triple-channel version

modul technik

Medizinische Versorgungssysteme und Geräte
medical supply systems and equipment

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