

SYSTEM DELTA 30  
LABORATORY EQUIPMENT | GENERAL CATALOGUE





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„Since the establishment of our company, it is our mission to translate our customer’s wishes in user-oriented, tailor-made furnishing concepts.“

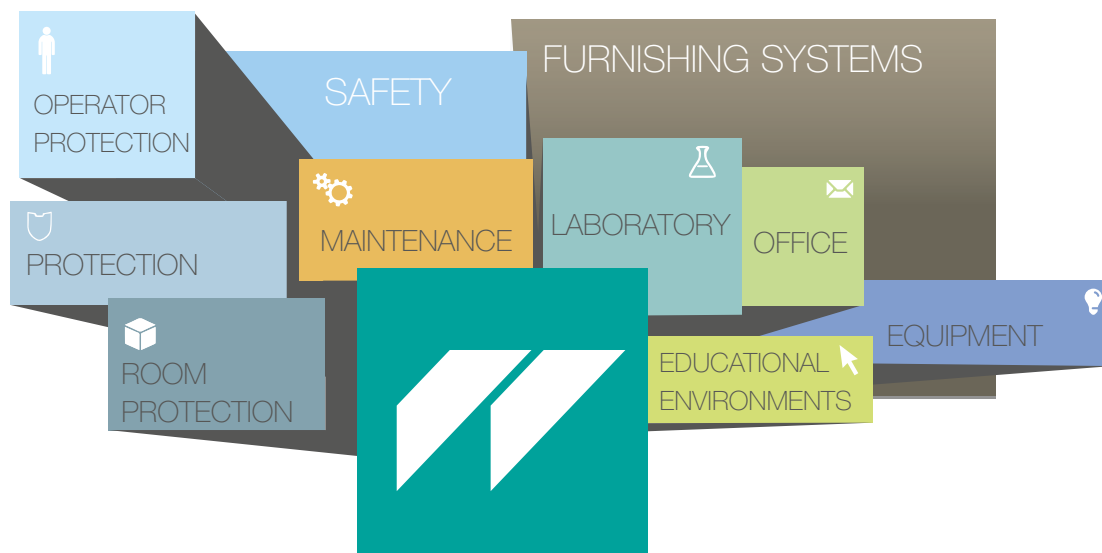
# Preface

## General Catalogue

**Founded in 1963, Wesemann is one of the leading producers of high-quality laboratory furnishings in Europe and is steadily expanding. Innovative, user-oriented and flexible laboratory furnishings are the answer to the many demands and, rapid changes in science and research. Our goal is to precisely understand the ideas of our customers in order to best assist them in their work with our design concept. We achieve this with the Wesemann Group, an association of medium-sized companies, specialising, in the design and manufacture of sophisticated furniture systems.**

With over 200 employees, we produce high-quality laboratory furnishing systems, and specialised science classroom furniture, as well as office furnishings and heavy duty workstation systems, protecting the operator and the product.

In all our fields of activity, we are one of the leading manufacturers on the market. The group-wide exchange of know-how creates innovative designs, always guided by the special requirements of the market. As interior designers, we make individual and practical laboratories to the highest standard, and provide our customers with optimal research conditions. The experience gained, from well over 35,000 completed projects, consistent use of the latest technology, as well as regular staff training, and our quality management provide us with solid know-how to implement the most varied of projects.





# Introduction

## Laboratory working environment



**The specialization of the workplace in a laboratory requires a functional environment in which all the necessary work equipment is also located at hand. In addition to large work surfaces, direct access to electronic media and equipment is a must. At the same time, the laboratory workplace should be flexible, ready to be reorganized at all times so new ways of working can be accommodated.**

**The solution: DELTA 30 System.**

### The DELTA 30 System

Our equipment system has a very fine-grained module structure of standard elements, that can be combined in almost any variation. This structure makes it possible to satisfy with the standard elements

very individual requirements. The different Service supply systems, and different cupboard variations, can be easily combined with our extensive fume cupboard programme. For your individual needs, we offer

our customers a team of qualified staff from our company, to advise you in planning your laboratory furniture.



# Quality and Safety

## Outstanding products

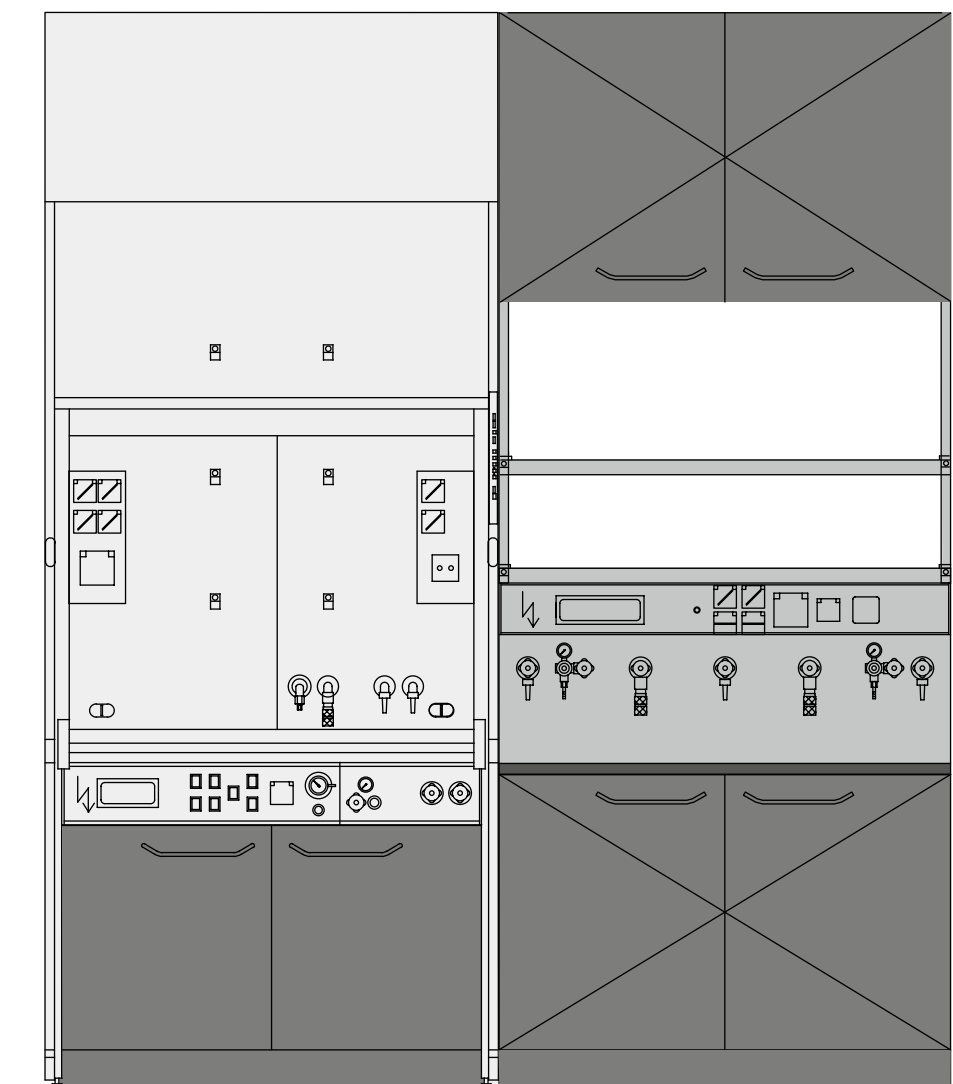
Customer demands for quality and safety are growing steadily. As a modern company, we have made these challenges our own goal. All products have been checked on the basis of the latest laws, regulations, technical rules, and standards, and come with the TÜV GS mark ("Tested Safety"), issued by the independent auditors of the TÜV product service. All safety-relevant components of our products, have a mark, be it the VDE certificate for electrical components, or the DVGW test label for plumbing components. Above and beyond technical safety, our company is certified according to DIN EN ISO 9001:2008. This ensures that all processes are documented and traceable (Health and Safety Management BS OHSAS 18001:2007).





# Introduction

## System design



### Fume cupboard systems

Systems for the safe handling of hazardous materials in the laboratory

### Service systems

Systems for supplying electrical and service. These systems can be free standing, wall or ceiling mounted

### Cupboard systems

Systems for safekeeping, as well as storage of laboratory materials, and storage of hazardous materials.

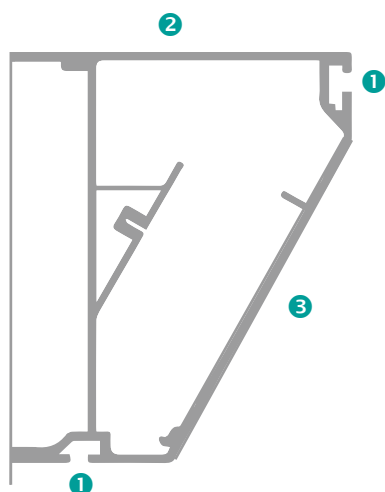
### Table systems

Systems for the design of workstations, in many different types, and sizes, as well as bench tops

Our furnishing systems for laboratories are divided essentially into the following four system components: fume cupboard systems, service systems, table systems and storage systems. In each system, there are various easily combinable designs. Thus, it is possible to design a laboratory, perfectly tailored to meet your requirements.

# Product benefits

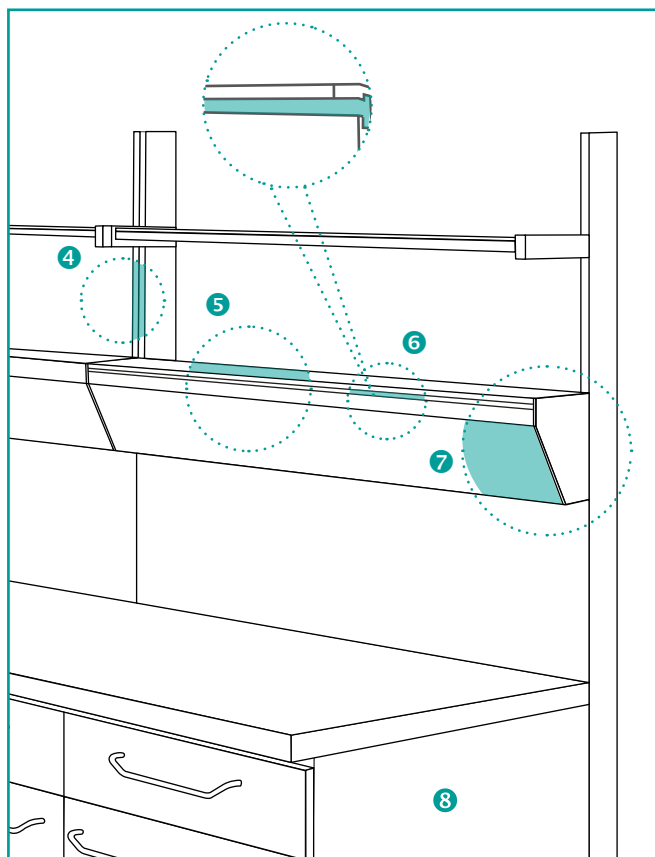
## Overview system



- 1** Functional grooves  
for accessories and 3D tripod holder
- 2** Reagents tray  
with glass overlay
- 3** Duct cover  
for electrical service outlets/sockets

The DELTA 30 system duct is a high-quality, splashproof, solid aluminium duct offering high durability, integrated in the system, as a small electrical distributor. The front cover, also made of solid aluminium is tilted at 30 degrees, and is an essential system component, lending its name to product: „DELTA“ due to the outer shape of the duct and, „30“ due to the 30 ° tilting of the duct. The duct is fitted with a special profile, to keep the lid from falling when opened.

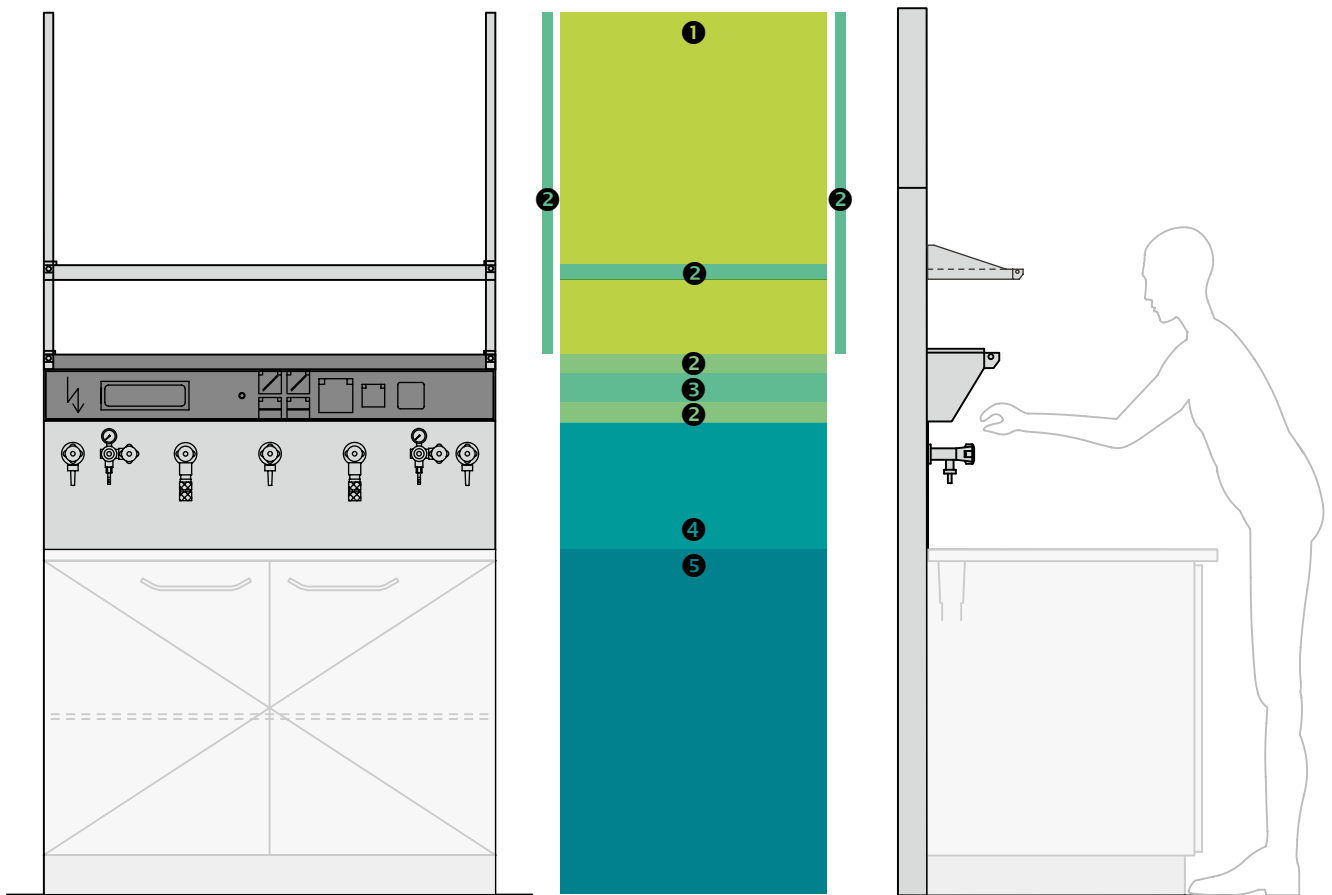
„This pioneering idea of our duct system design has found many imitators. This confirms that we created with the DELTA 30 system, an original that sets the new standard.“



- 4** Full-length spine stand  
with accessory groove
- 5** Reagents tray  
for the best possible use of space
- 6** Integrated functional grooves  
for individual organization of the work environment  
(also optional sealed)
- 7** 30° slanted duct  
optimal accessibility of the controls
- 8** Optimized storage and utility space  
for efficient organization of work equipment

# Details

## System design standing unit service spine



### 1 Level for functional area

Integration of storage space/hanging cupboards possible

### 2 Area for accessories

Two three-dimensional tripod rod holders per Frame size

Use of accessories is also possible when the media level is populated.

### 3 Level for electrical service outlets

Dense population is possible

### 4 Level for mechanical service outlets

Arrangement of fittings possible in each slot at every 75 mm distance points. Large, almost joint-free splash protection made of antibacterial solid laminate (HDL High Density Laminate)

### 5 Storage levels

Integration of base cupboards available for various designs/devices

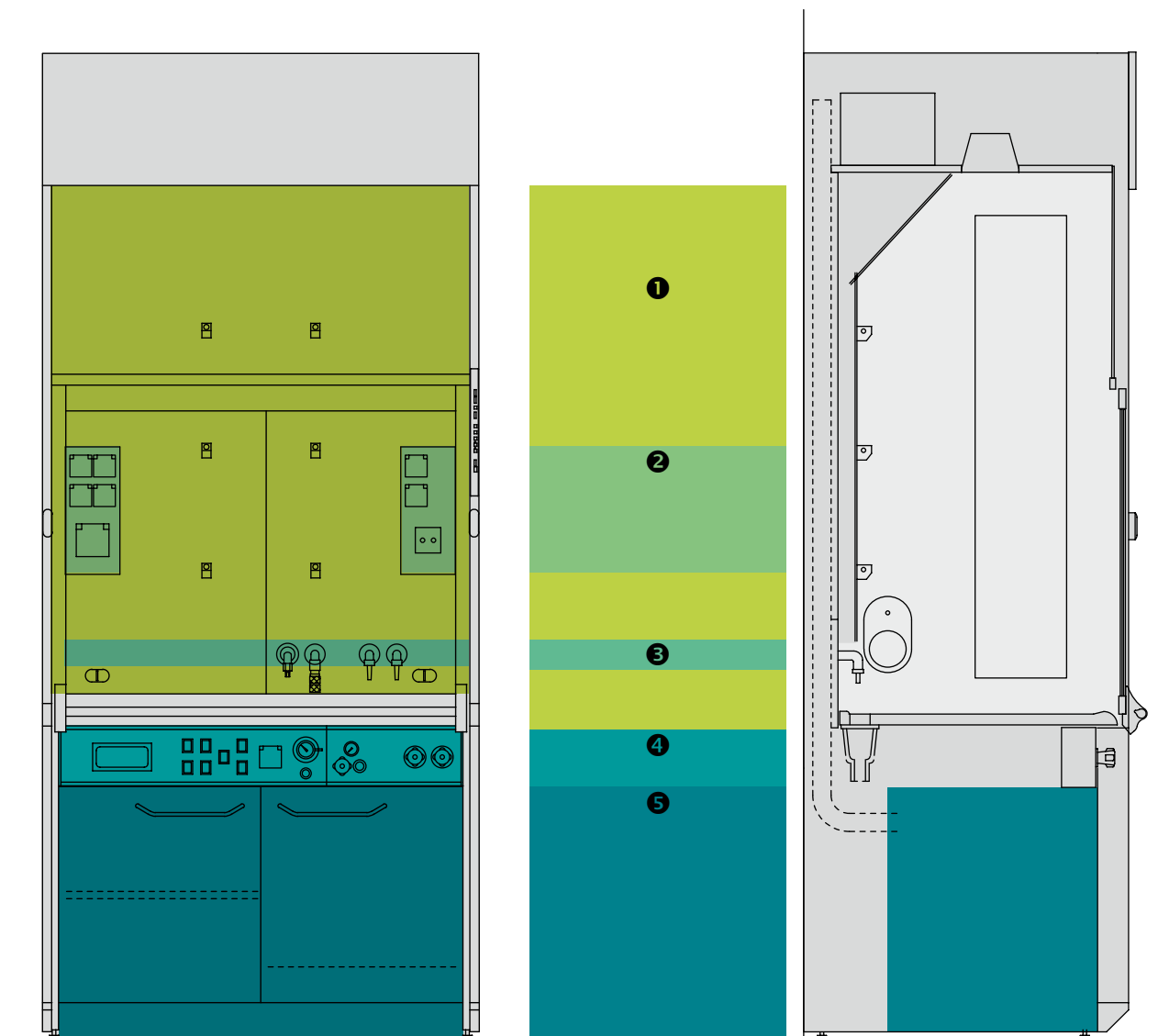
Representation of the functional levels



# Introduction

## System design fume cupboard units

Representation of the functional levels



**1** Level for functional space

Stand tripod holder

**2** Level for electrical service outlets (option)

Internal sockets, switches outside

**3** Level for mechanical service outlets

Arrangement of fittings possible in each slot at every 75 mm distance points

**4** Level for electrical sockets and front control valves

**5** Level of storage space

Integration of under bench cupboards/devices/waste disposal possible



# Fume cupboard systems

Experiment in safety.

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# Introduction

## Fume cupboard systems

**One of the most important pieces of safety equipment in laboratories is the fume cupboard. Therefore, the requirements defined for this device are based on DIN EN 14175.**

To comply with the safety function, and thus the preservation of safety, the exhaust airflow is an important criteria. The retention of pollutants (airborne contaminants) inside the fume cupboard, and the resistance to external air flow, that could interfere with the fume cupboard, depends by enlarge on the extraction volume. The further the sash is opened, the stronger the retention of the fume cupboard is impaired. Based on these considerations, in addition to the static, the dynamic behaviour in a resistance test is re-

quired, as proof according to DIN EN 14175. Here, a parasitic airflow is created near the fume cupboard to evaluate the stability of the inflow and the retention potential of the fume cupboard.

DELTA 30 fume cupboards, with its comprehensive variety of models fulfil the requirements of DIN EN 14175 in its full topics with the best values. The exhaust system has optimized extraction zones in the rear panel, which are very easy to disassemble for cleaning pur-

poses, ensuring ideal air flow and ventilation. The hood interior offers a large useable area. The overall construction optimises air Flow without disturbing it. Optimal usability, and maximum safety at work: the decisive factors for our fume cupboards.

### Our range:

- Bench-mounted fume cupboard
- Low ceiling bench-mounted fume cupboard
- Low level fume cupboard
- Walk-in fume cupboard
- Filter fume cupboard
- Radio-isotope fume cupboard
- Special purposes fume cupboard
- DELTAcare fume cupboard
- EX-fume cupboard





# Product benefits

## Fume cupboard systems

- Fume cupboard tested, and certified according to DIN EN 14175
- Optimized airborne contaminants retention capacity, offering low exhaust flows at the same time
- Maximum usable work space, due to extra-narrow fume cupboard sides
- Maximum visibility through the use of standard skylight glazing
- Bench-tops and interior surfaces, as required
- Bench-top with moulded, flow-optimizing front rim
- Exhaust system, with optimized air intake zones for a full-surface extraction of the work surface
- Ergonomically designed sash handle bar for easy one-handed operation twist-lock release mechanism
- Maintenance friendly thanks to large inspection panel, easy-to-disassemble internals and the table top simple to replace
- Modules with splash protection
- Electric panels on either side of the interior
- Dense population, no overlap of the service outlet and tripod level
- Standard battery-backed air-monitoring unit with IR interface
- Integrated function control panel at eye level in the pilaster, optionally with a graphical OLED display functional monitoring of the main operating and status information of the fume hood are displayed (e.g. volume flow, inflow, error and operating messages)
- Support tripod holder on the rear panel
- Optional: Standard Base / Acid cabinet or safety storage cabinet
- Wide range of accessories, and options such as an automatic motorized sash drive, fume cupboard control (with integrated web server and ECO-efficiency indicator, by averaging, in comparison with other linked laboratory fume cupboards the energy consumption of the individual device)





- The PROTECT-model completes the DELTA 30 system of laboratory fume cupboards, providing maximum energy efficiency and user safe system
- The innovative, active supportive flow technology, induces and stabilizes the inflowing air
- Fume cupboards of the conventional type require an air extraction 50% greater than the PROTECT- model
- The reduced energy consumption, means correspondingly low operating costs at the same high level of safety
- Active monitoring of the air-injection system
- Worktop with adapted air flow profile over the entire work surface width
- Both side pilasters with added air injection

# DELTAguard

## PROTECT

- 50%

**Higher energy efficiency – lower operating cost.**  
**Sustainability that pays off.**

Equipped with the advanced technology PROTECT fume cupboards use 33% less air than conventional fume cupboards for safe operation, and thus enable cost-effective laboratory operation. Thus, the investment is recovered with the PROTECT system, just by the savings in energy costs (supply air flow rate) and the investment costs

for a smaller scale building ventilation system within a short time. With the supportive air injection, we rely on innovative DC motor technology. DC fans consume significantly less energy, operate very quietly, and at the same time generate less heat than traditional AC motors. The PROTECT fume cupboard system, with active flow technology sup-

port increases the protection level, making it one of the world's safest, and at the same time most economical laboratory fume cupboards.

**These fume cupboards are available as PROTECT models with active flow technology support:**

- Bench-mounted fume cupboard
- Low ceiling bench-mounted fume cupboard
- Low level fume cupboard
- DELTAcare fume cupboard

# DELTA PROTECT

energy saver 



<sup>1</sup> Taking a simultaneity of 10% into account, i.e. in the case of 10% of the fume cupboards the sashes are open and in 90% of fume cupboards the sashes are closed.

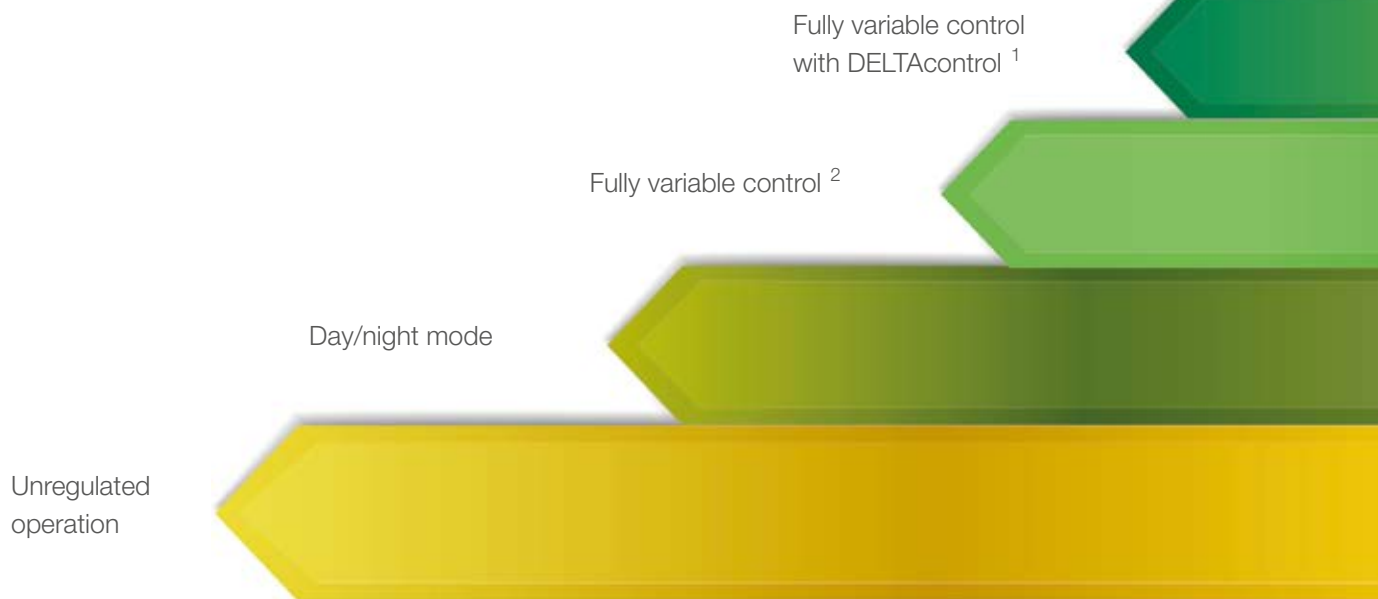
<sup>2</sup> Taking a simultaneity of 40% into account, i.e. in the case of 40% of the fume cupboards the sashes are open and in 60% of fume cupboards the sashes are closed.



# DELTAcontrol

Saving energy made easy

Suitable for all DELTA 30  
fume cupboard types



COMPARISON OF ENERGY SAVING OPTIONS

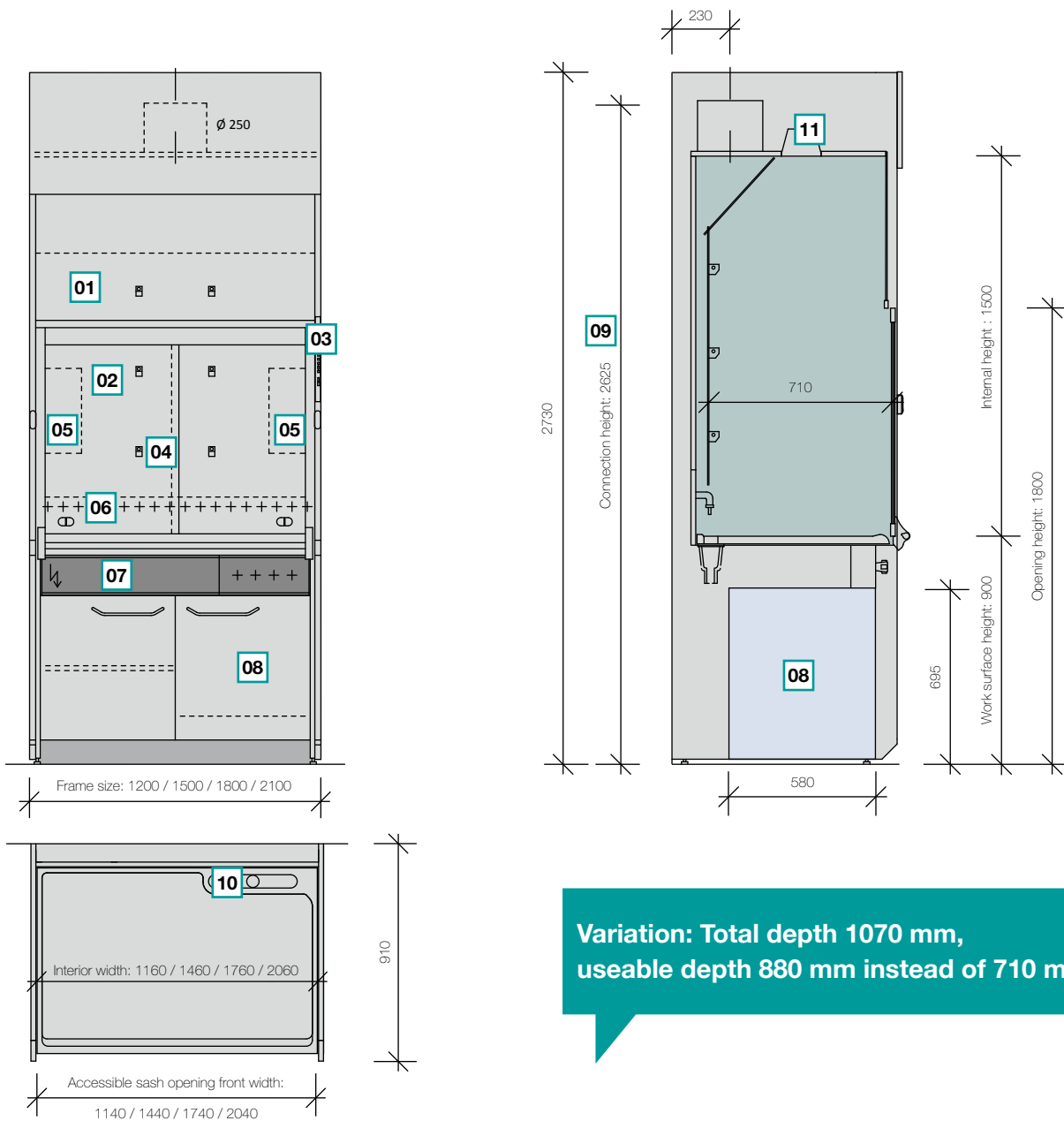
- Controlled air volume, corresponding to the free inflow in vertical, horizontal or combined sash opening
- Maintenance-free and self-cleansing measuring system with little loss of pressure, optional Venturi measuring system
- Energy saving, and improving work safety, without restricting usability
- Complete system solution from one source; all exhaust air, supply air, drive and control components are coordinated to achieve an optimized and energy-efficient room air balance
- Graphical functional monitoring display with optional OLED display and ECO energy efficiency indicator
- Fast and reliable microprocessor controls, with simple integration into a buildings management system, via BACnet, LON or Modbus technology or conventionally via analogue signals
- Quick and easy set-up
- Visualisation of system data via PC with a web browser or tablet computer possible
- Fail-safe, proven path and incoming air flow sensor for stable and quick set point
- Emergency button V-max, to increase exhaust air volume flow in the event of an accident, regardless of the sash opening
- Automatically closing sash to increase the protection and energy optimization, with motion detector, to monitor the work area and initiate the closing process (UP/DOWN button integrated in control panel)
- Light barrier for obstacle detection when closing the sash
- Optional footswitch

## Fume cupboard systems | 1.1 DELTAguard bench-mounted fume cupboard



- Multipurpose fume cupboard according to EN 14175
- Variant: Fume cupboard for high thermal loads according to EN 14175-7
- For high heat and acidic load and the handling of unsealed radioactive substances, other fume cupboard types are available

## Fume cupboard systems | 1.1 DELTAguard bench-mounted fume cupboard



**Variation: Total depth 1070 mm, useable depth 880 mm instead of 710 mm**

**01** Upper part glazed with fixed screen or optionally 2 cross slides

**02** Option: sash with 3/4 cross slides

**03** Fume cupboard functional monitoring display

**04** 3 series of tripod rod holders

**05** Option: Internal sockets, switched from the outside

**06** Service fitting points

**07** Aluminium duct with electrical service outlets and front control valves

**08** Option: Under bench cabinet or safety store cabinet

**09** Option: Fume cupboard controller (damper and high-speed actuator) 2820 mm Connection height

**10** Option: Drip cup

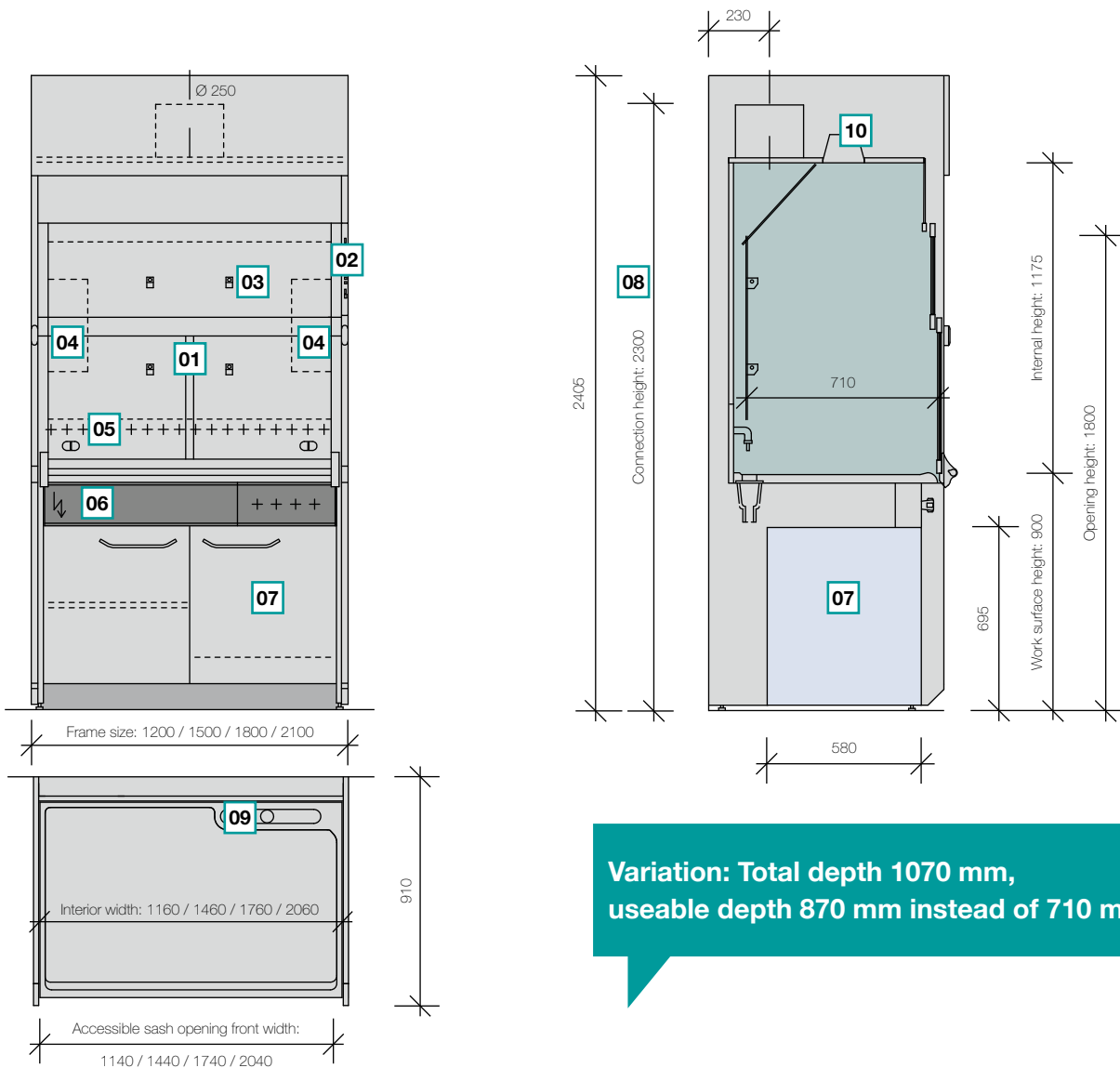
**11** Lighting

## Fume cupboard systems | 1.2 DELTAguard low ceiling bench-mounted fume cupboard



- Multipurpose fume cupboard according to EN 14175
- Optimized use of space due to an overall height of only 2405 mm
- Synchronously running telescopic sash for ease of use
- For high heat and acidic load and the handling of unsealed radioactive substances separate fume cupboard types are available

## Fume cupboard systems | 1.2 DELTAguard low ceiling bench-mounted fume cupboard



**Variation: Total depth 1070 mm,  
useable depth 870 mm instead of 710 mm**

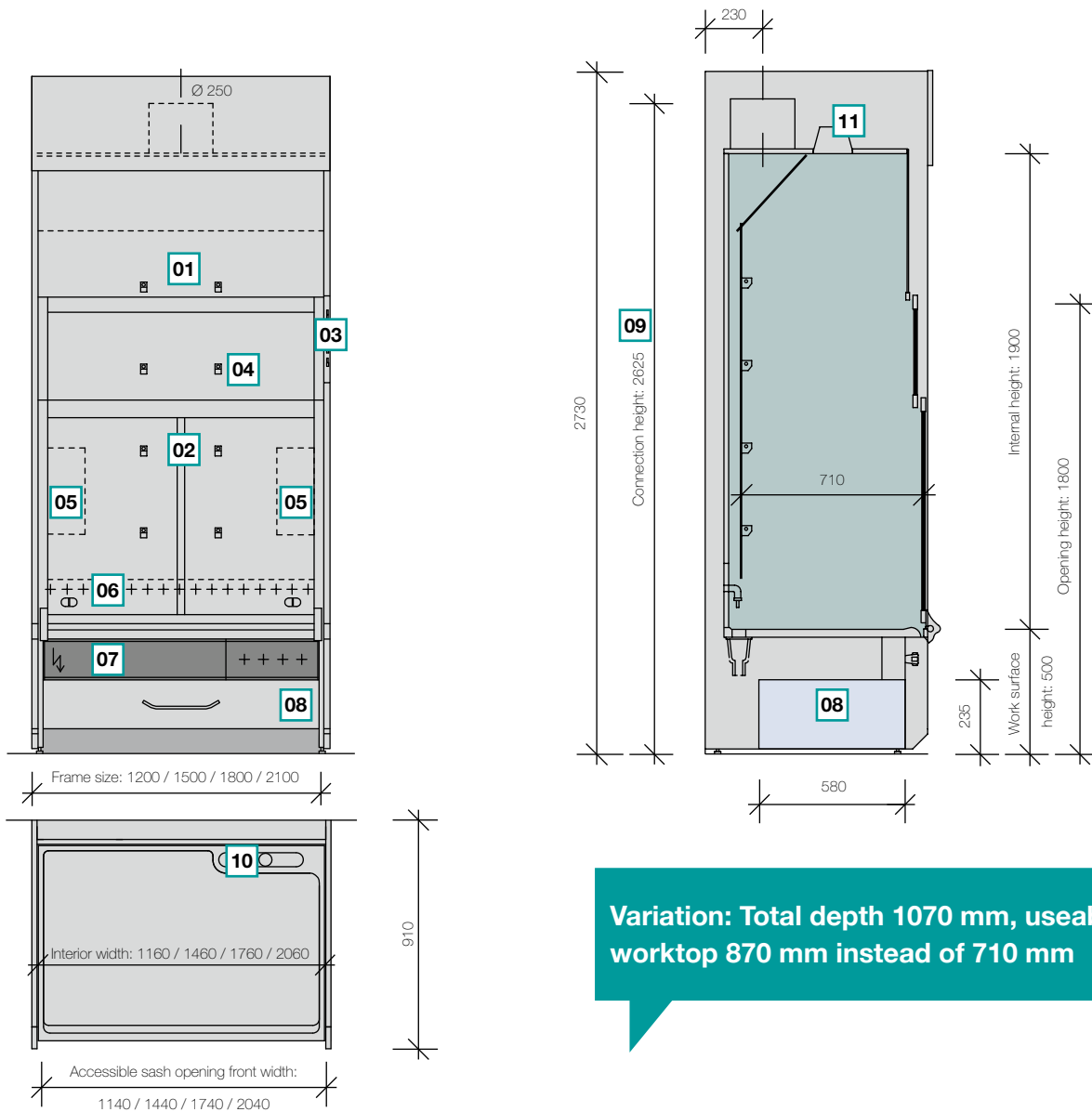
- 01** Option: Sash with 3/4 cross slides
- 02** Fume cupboard functional monitoring display
- 03** 2 rows tripod rod holder
- 04** Option: Internal sockets, switched outside
- 05** Service fitting points
- 06** Aluminium duct with electrical service outlets and front control valves
- 07** Option: Under bench cabinet or safety store cabinet
- 08** Option: Fume cupboard controller (damper and high-speed actuator) 2495 mm Connection height
- 09** Option: Drip cup
- 10** Lighting

## Fume cupboard systems | 1.3 DELTAguard low level fume cupboard



- Multipurpose fume cupboard according to EN 14175
- For high heat and acidic load and the handling of unsealed radioactive substances other fume cupboard types are available.

## Fume cupboard systems | 1.3 DELTAguard low level fume cupboard



**Variation: Total depth 1070 mm, useable depth worktop 870 mm instead of 710 mm**

- |  |   |
|--|---|
| <ul style="list-style-type: none"> <li><b>01</b> Upper part glazed fixed screen or optional 2 cross slides</li> <li><b>02</b> Option: sash with 3/4 cross slides</li> <li><b>03</b> Fume cupboard functional monitoring display</li> <li><b>04</b> 4 rows tripod rod holder</li> <li><b>05</b> Option: Internal sockets, switched outside</li> <li><b>06</b> Service fitting points</li> </ul> | <ul style="list-style-type: none"> <li><b>07</b> Aluminium duct with electrical service outlets and front control valves</li> <li><b>08</b> Option: with base cabinet</li> <li><b>09</b> Option: Fume hood controller (damper and high-speed actuator) 2820 mm Connection height</li> <li><b>10</b> Option: Drip cup</li> <li><b>11</b> Lighting</li> </ul> |
|--|---|

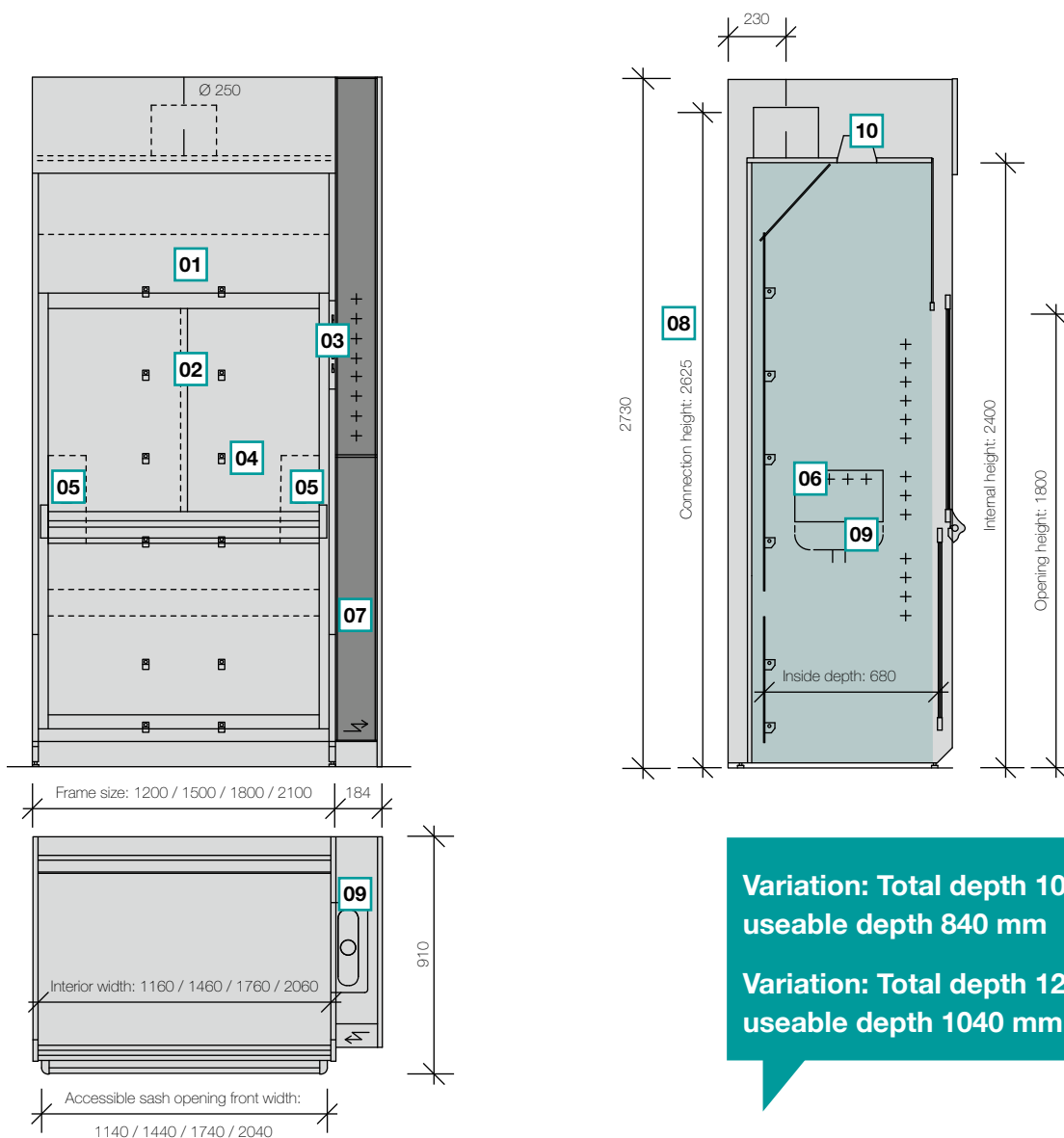


## Fume cupboard systems | 1.4 DELTAguard walk-in fume cupboard



- Multipurpose fume cupboard according to EN 14175
- For high heat and acidic load and the handling of unsealed radioactive substances other fume cupboard types are available

## Fume cupboard systems | 1.4 DELTAguard walk-in fume cupboard



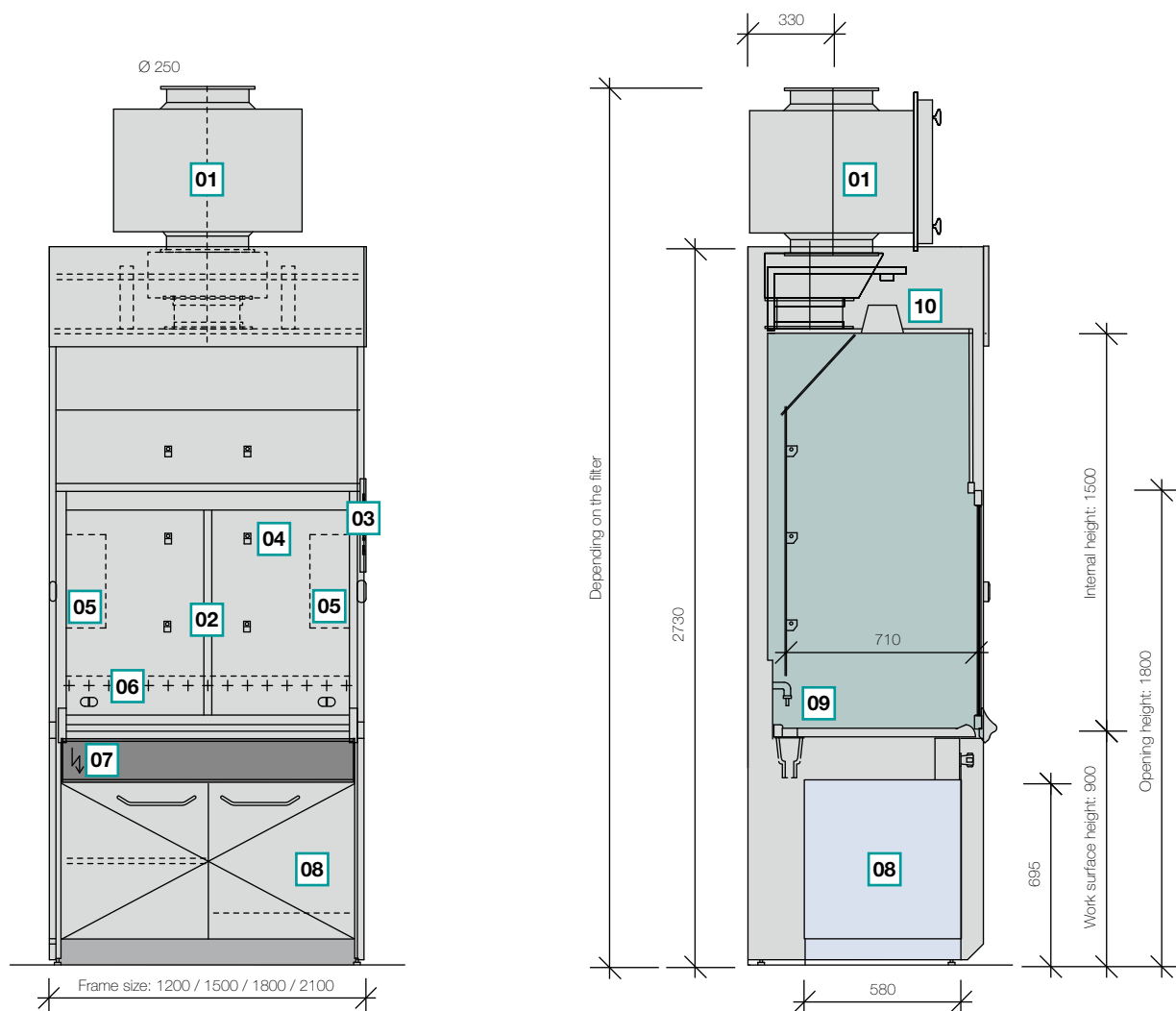
**Variation: Total depth 1070 mm,  
useable depth 840 mm**

**Variation: Total depth 1270 mm,  
useable depth 1040 mm**

- 01** Upper part glazed fixed screen or optional 2 cross slides
- 02** Option: sash with 3/4 cross slides
- 03** Fume cupboard functional monitoring display
- 04** 6 rows tripod rod holder
- 05** Option: Internal sockets, switched outside
- 06** Service fitting points

- 07** Service panel left or right available
- 08** Option: Fume hood controller (damper and high-speed actuator) 2820 mm Connection height
- 09** Option: Drip cup
- 10** Lighting

## Fume cupboard systems | 1.5 DELTAguard filter fume cupboard

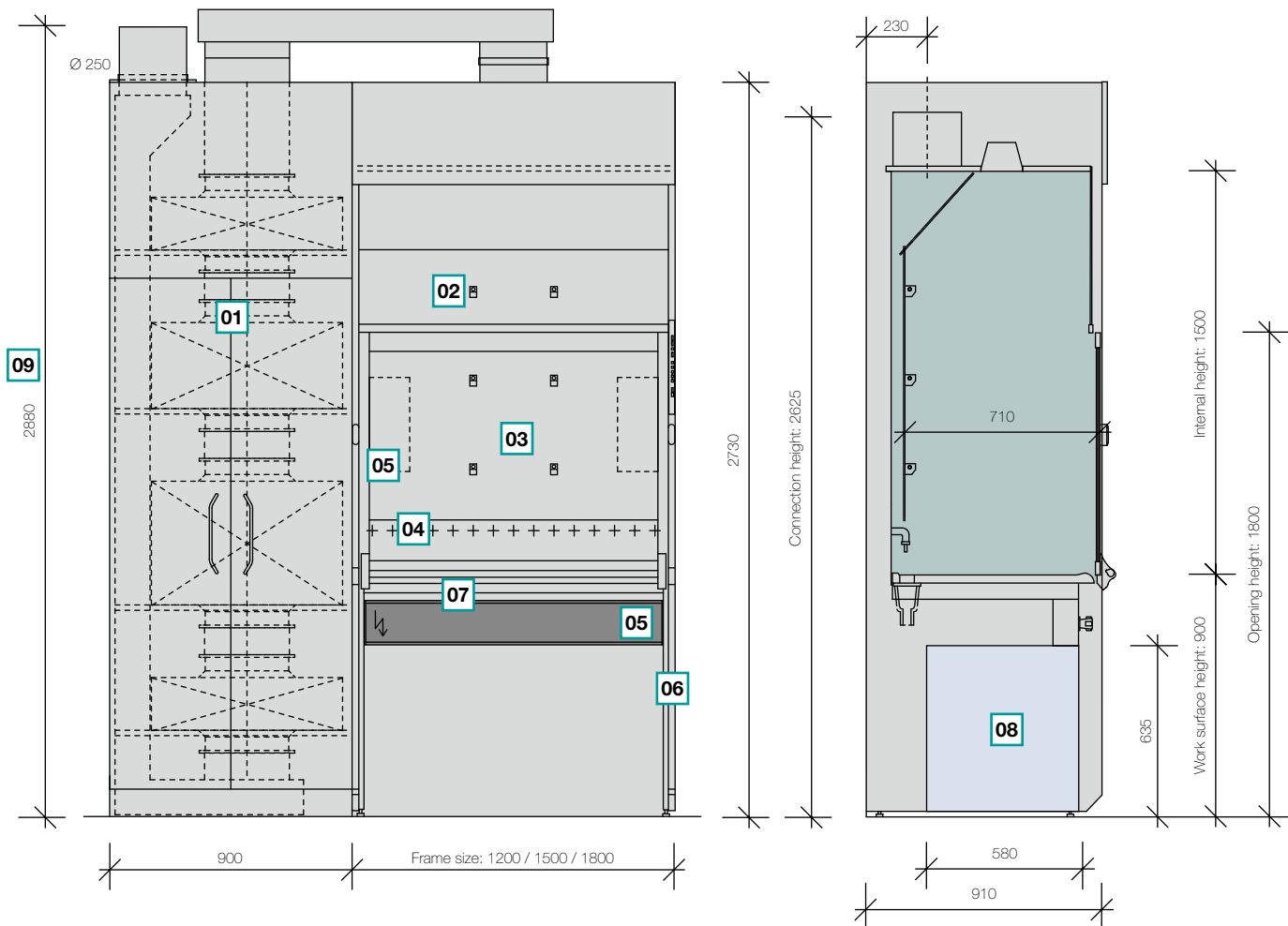


**Variation: Overall depth 1070 mm, Useable depth working surface 880 mm instead of 720 mm**

- |   |   |
|---|---|
| <b>01</b> Filter  | <b>07</b> Aluminium duct with electrical service outlets and front control valves |
| <b>02</b> Option: sash with 3/4 cross slides              | <b>08</b> Option: Under bench cabinet or safety store cabinet                     |
| <b>03</b> Fume cupboard air functional monitoring display | <b>09</b> Option: Drip cup  |
| <b>04</b> 2 rows tripod rod holder                        | <b>10</b> Lighting  |
| <b>05</b> Option: Internal sockets, switched outside      |   |
| <b>06</b> Service fitting points                          |   |

- Available as one or two phase filter
- 2 phase filter from frame size 1500 (asymmetrical sequence)

## Fume cupboard systems | 1.6 DELTAguard radio-isotope fume cupboard



**01** Option: filter device, in addition extraction by a separate filter cabinet with 3 to 4 filter stages

**02** Option: Interior in stainless steel or polypropylene

**03** Sash made of Makrolon / acrylic one-piece, option: access apertures

**04** Service fitting points

**05** Aluminium duct with electrical service outlets and front control valves

**06** Heavy-duty frame

**07** Option: Shielded against gamma and beta rays

**08** Option: With base cupboard or safety cabinet

**09** Option: Fume hood controller (damper and high-speed actuator) 3075 mm Connection height

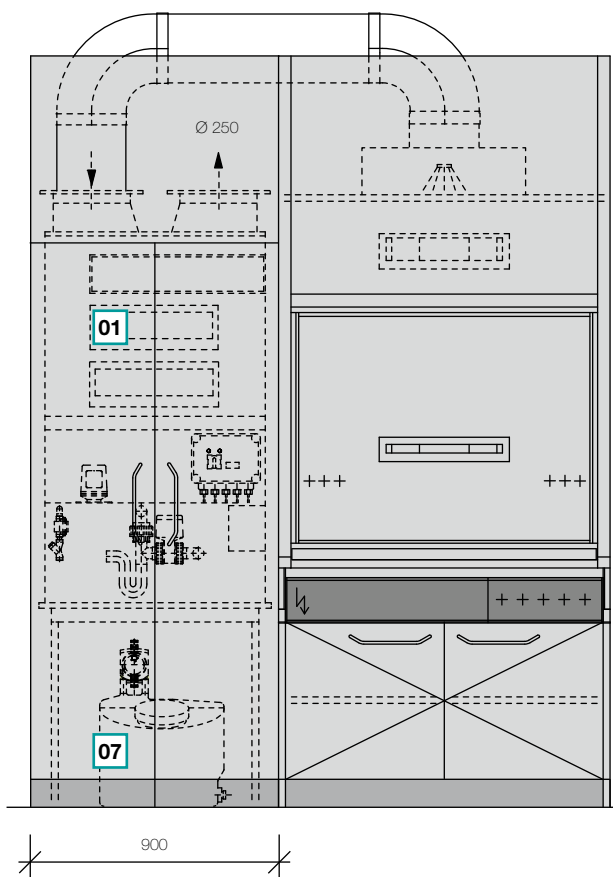
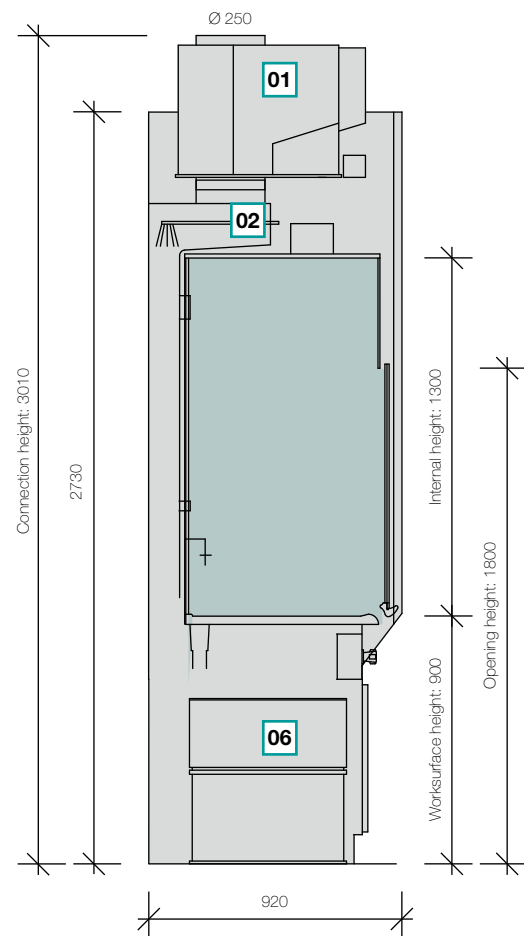
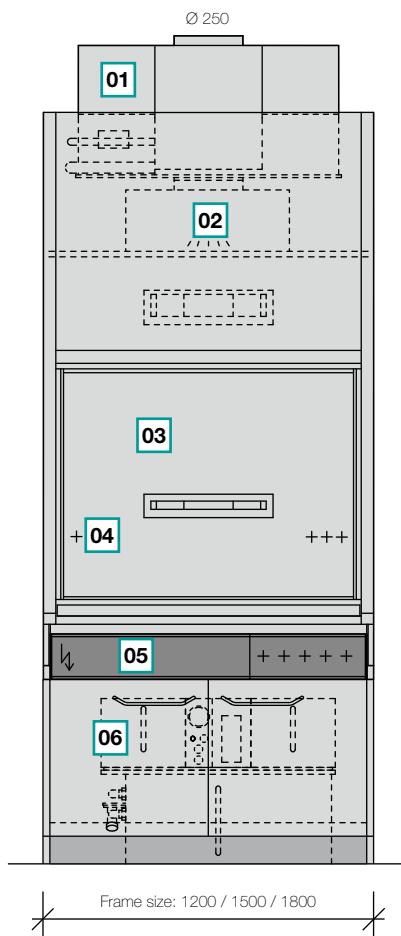
- Fume cupboard for the handling of unsealed radioactive materials in accordance with DIN 25466:2012-08

## Fume cupboard systems | 1.7 Special application (acids) high performance fume cupboard



- Fume cupboards for high heat and acidic load according to EN 14175-7:2012-08
- Perchloric acid fume cupboard for working with perchlorics
- Hydrofluoric acid fume cupboard for working with fluorides

## Fume cupboard systems | 1.7 Special application (acids) high performance fume cupboard

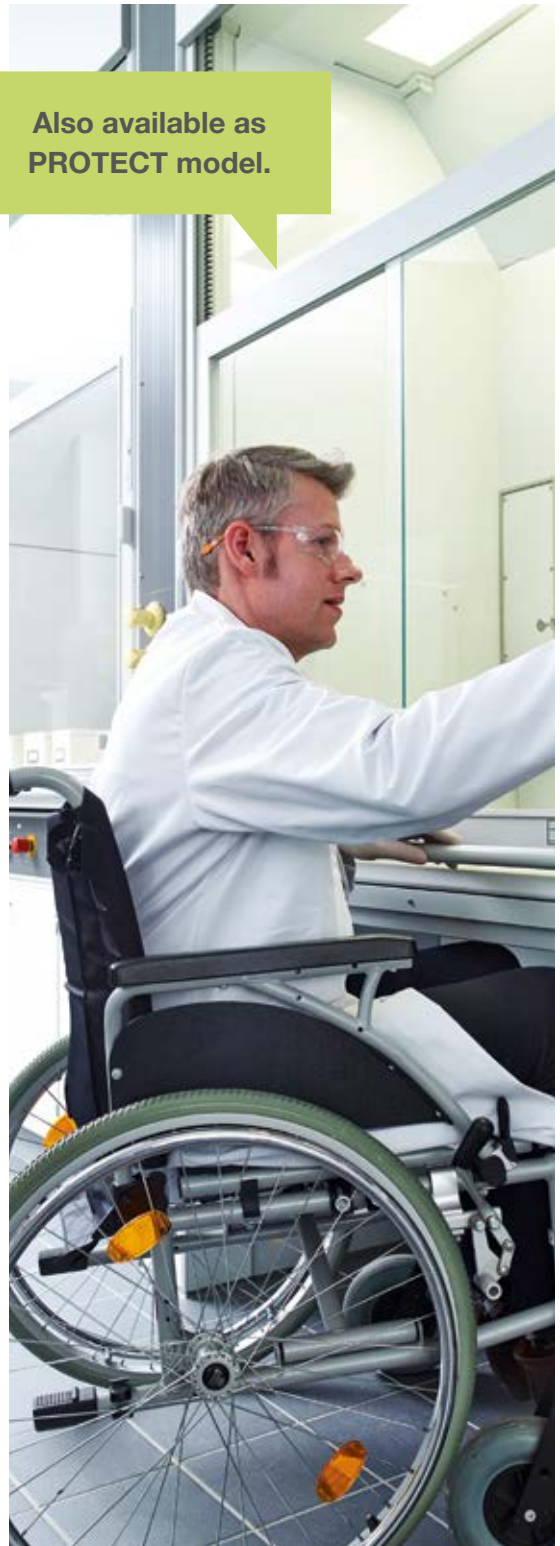


- 01** Option: waste air scrubber on the top of the fume cupboard or next to the fume cupboard in a separate cabinet
- 02** Option: Sprinkling the exhaust air duct
- 03** Option: Inner lining in stoneware or polypropylene
- 04** Service fitting points
- 05** Aluminium duct with electrical service outlets and front control valves
- 06** Option: neutralization system in conjunction with waste air scrubber
- 07** Option: pH-metering device for neutralization of the wash water

## Fume cupboard systems | 1.8 DELTAcare fume cupboard



Also available as  
PROTECT model.

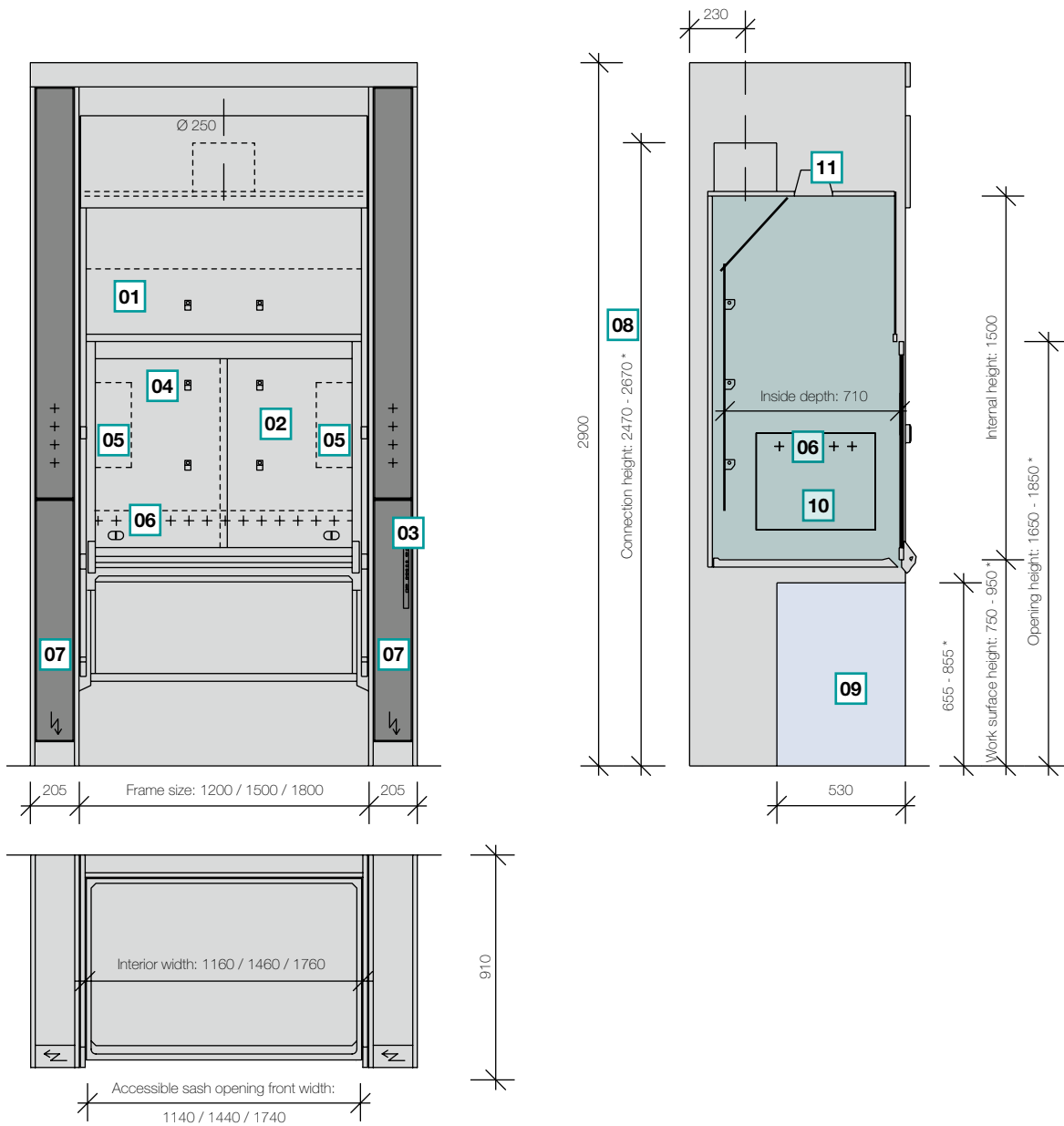


- Integral bench-mounted fume cupboard with electrical drive stepless adjustable height
- Work surface heights of 750 to 950 mm adjustable
- Anti-pinch safety

- Wheelchair users can easily work on this fume cupboard
- Transparent control panels in the sides
- Moving heavy equipment and loads at the touch of a button



## Fume cupboard systems | 1.8 DELTAcare fume cupboard




\*variable height, by means of the electric motor height adjustment

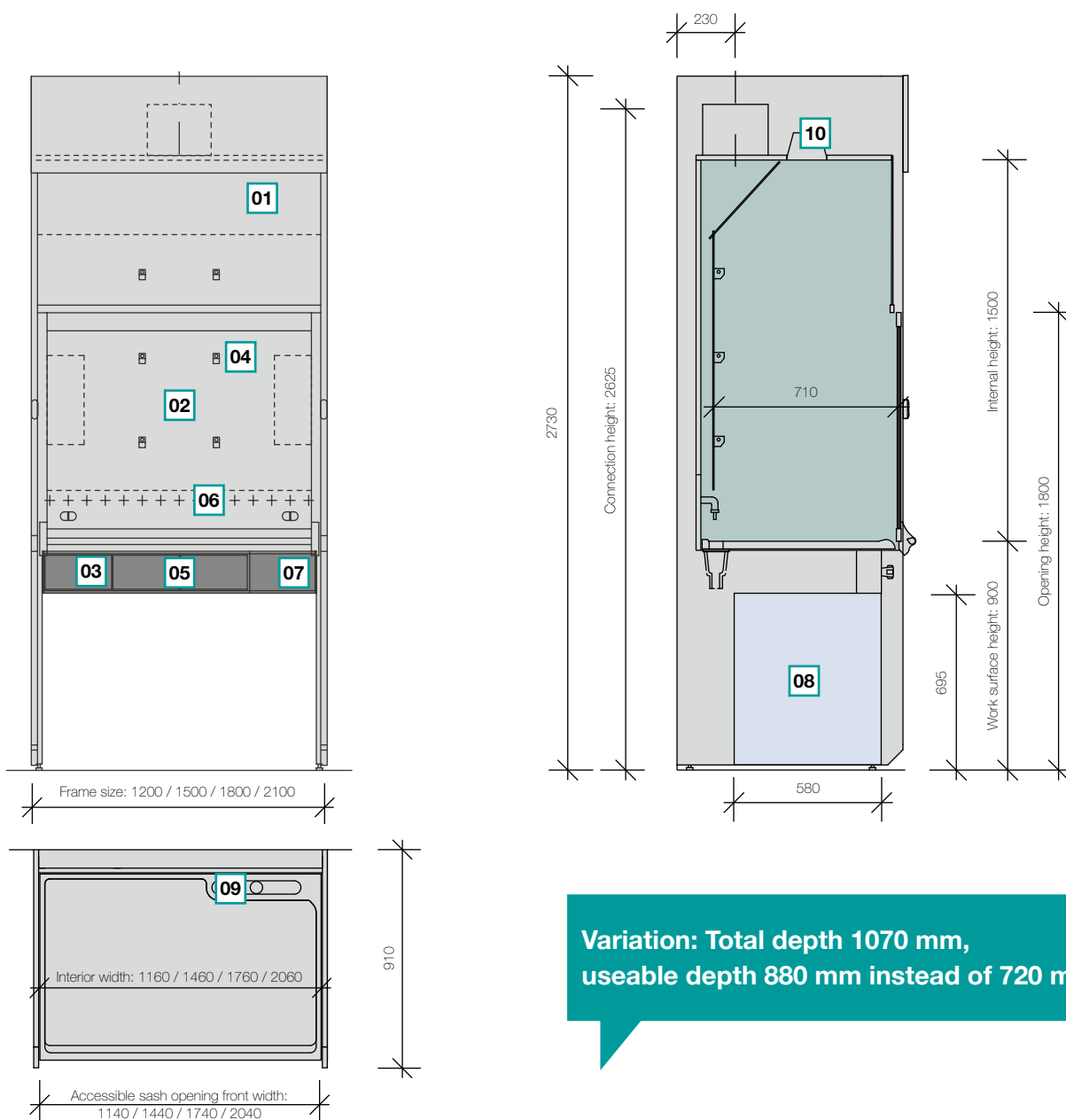
- |   |  |
|---|--|
| <b>01</b> Upper part glazed fixed screen or optional 2 cross slides | <b>07</b> Service panel left and right   |
| <b>02</b> Option: sash with 3/4 cross slides                        | <b>08</b> Option: Fume hood controller (damper and high-speed actuator) from 2470 to 2870 mm Connection height |
| <b>03</b> Exhaust functional monitoring display Connection height   | <b>09</b> Space  |
| <b>04</b> 3 series tripod rod holders                               | <b>10</b> Option: Drip cup   |
| <b>05</b> Option: Internal sockets, switched outside                | <b>11</b> Lighting   |
| <b>06</b> Service fitting points                                    |  |

## Fume cupboard systems | 1.9 DELTAguard Ex fume cupboard



- Certified in accordance with Directive 94/9/EC
- Consistently running conformity assessment procedures
- Suitable for hazardous areas (within an EX-Zone 1) 
- Ignition sources are safely avoided by the design of the fume cupboard, so that sparks can not be created and explosive atmospheres can't ignite
- All surfaces are electrically conductive and grounded

## Fume cupboard systems | 1.9 DELTAguard Ex-fume cupboard



**Variation: Total depth 1070 mm, useable depth 880 mm instead of 720 mm**

- |  |  |
|--|--|
| <b>01</b> Upper part glazed fixed screen   | <b>06</b> Service fitting points in explosion-proof design                           |
| <b>02</b> Sash with fixed glass  | <b>07</b> Option: Aluminium duct with front control valves in explosion-proof design |
| <b>03</b> Option: (depending on EX-zone)<br>Exhaust functional monitoring display EX model | <b>08</b> Option: With base cupboard or safety cabinet in explosion-proof design     |
| <b>04</b> 3 series tripod rod holders from PPsEL   | <b>09</b> Option: Drip cup   |
| <b>05</b> Option: Electrical service outlets in EX-protected installation housing          | <b>10</b> Option: Lighting explosion-proof design                                    |

## Fume cupboard system | 1.10 Special designs



- Fume cupboard with integrated physical protection extinguishing system (night fume cupboard)



- Washing fume cupboard
- Spray cabin

## Fume cupboard systems| 1.11 Demonstration fume cupboards



- Pass-through fume cupboard, both sides with sash
- For installation between preparatory and demonstration room
- With blackout sliders



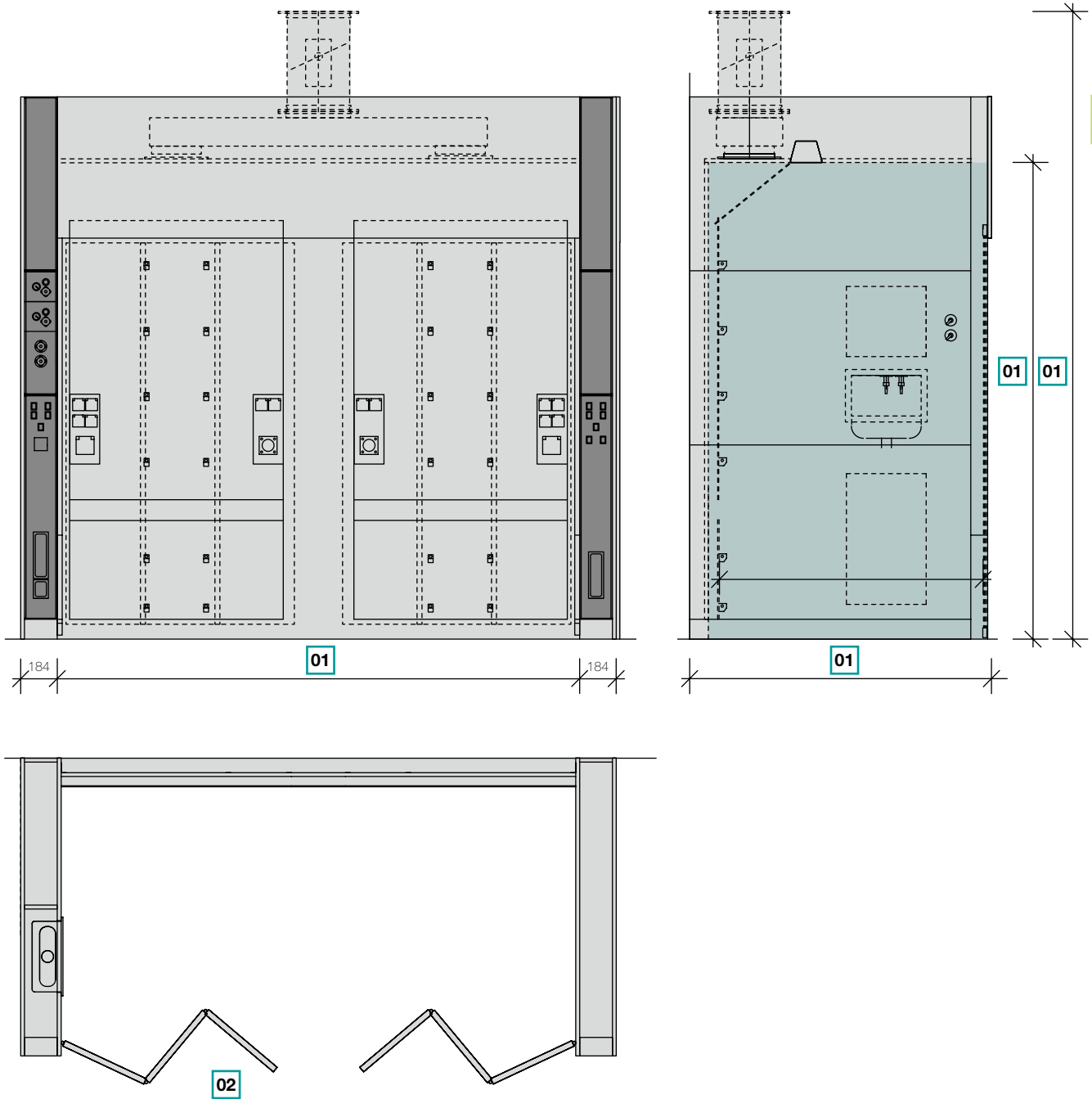
- Universal demonstration fume cupboard  
(with excellent visibility through panoramic window)

## Fume cupboard systems | 1.12 DELTAbigbox



- System solution for systems and equipment with moderately loaded emissions
- Optimum modular design adapting the dimensions of the equipment requirements with high efficiency
- Access via horizontal sash, wing, hinged, folding or sliding doors, closed or with glazing
- Exhaust performance and air distribution according to process requirements
- Variable service and power supply
- Installation upon request such as tripod structures or warning systems

## Fume cupboard systems | 1.12 DELTAbigbox



**01** Dimensions upon request

**02** Example: Access via folding doors



## Fume cupboard systems | 1.13 Air barrier efficiency



- A symbiosis of a DELTAguard fume cupboard with an air barrier air management system
- For safe operator protection, compliant with EN 14175-3 or product exposure (OEL)  $<10 \text{ g} / \text{m}^3$  and product protection, within a clean room zone up to class 5 according to EN ISO 14644-1
- Also with a free front opening of 900 mm height
- Option: Comprehensive horizontal slide for spray and splinter protection
- Option: Horizontal sliding screen with two glove ports and gloves as protection against cross contamination
- Variation: System completely in stainless steel

# Air Barrier & Containment Systems

Product solutions for special requirements



The vertical AirBarrier (air barrier) on the front opening of the containment, i.e. between operator and product, is the base component for the safe and robust retention capacity of this technology. It can be used safely from the free front opening, over the entire width of the containment without protective screens, curtains, or other mechanical barriers restricting ergonomic work.

## Lab Safety

- Safety work tables
- Chemical filling areas
- AirTable boxes
- Disposal substructure
- „Lab butler“ disposal
- „Lab butler“ supply
- Weighing containment
- AirBarrier „efficiency“
- Laminar flow systems

## Weighing and refilling containment

- Free working place
- Clean room containment
- Laminar flow systems
- Material and personnel airlocks
- Air Barrier
- Horizontal Air Barrier
- Air Barrier special workstations

## Equipment

- Lifting devices
- Lifting and turning stations
- Container handling
- Conveyor technology
- Balance tables
- Continuous liner system

## Extraction systems | 1.14 Engineered Enclosures



### Enclosures with flexible, modular design - precisely adapted to your needs for:

- Apparatus/appliances (splinter shield/splash guard)
- Automated robotic workstations/processes
- Pipetting/liquid handling workstations
- High-throughput screening
- HPLC instruments
- Handling and transfer of hazardous substances (solvents)
- Weighing
- Working with powders
- Other laboratory automation processes
- Measurement stations (Faraday cage)
- Pass-through



**Safe weighing containment for weighing potent, fine powders in the laboratory:**

- Maximum protection of personnel
- Minimal product exposure
- Secure, stable and reproducible weighing results
- Robust pollutant retention capacity according to DIN EN 14175-3
- Width: 900 mm, 1200 mm and 1500 mm
- Also available with air filters

## Extraction systems | 1.16 Chemical disposal / Disposal unit substructure



■ Disposal unit substructure with collection containers



## Extraction systems | 1.16 Chemical disposal / Disposal unit substructure

### Disposal unit Type AEU-4 ATEX

- Collection container, HDPE el 30 litres
- Collection tray 30 litres Material HDPE el
- Non-contact 3-point level measurement, pressure sensor and buzzer. 3 Light indicator installed in the media panel of the fume cupboard, or alternatively in the safety cabinet.
- Safety cabinet type 90 according to EN 14470-1. Dim: 590 x 570 x 600 mm
- Collector pipe, ca. 8 HPLC hose connections possible or
- Safety funnel with cover and table mounting for the laboratory fume cupboard



AEU-4

### Disposal unit Type AEU-7 ATEX

- 2 Collection container 10 litres each, HDPE el
- Drip pan 12 litre HDPE el
- Non-contact level measurement pressure sensor and buzzer. 3-point illuminated indicator installed in the media panel of the fume cupboard, or alternatively in the safety cabinet.
- Safety cabinet type 90 according to EN 14470-1. Dim: 590 x 570 x 600mm
- Collector pipe, ca. 8 HPLC hose connections possible or
- Safety funnel, with cover and table mounting for the laboratory fume cupboard



AEU-7

### Disposal unit Type AEU-8 ATEX

- 2 Collection containers 10 litres each, HDPE el
- 12 Litre drip tray - HDPE el
- Float switch, one point limit switch and buzzer. One indicator light, fitted either in the fume cupboard media panel, or the safety cabinet.
- Safety cabinet type 90 according to EN 14470-1. Dim: 590 x 570 x 600mm
- Pipe collector, ca. 8 HPLC hose connections possible or
- Safety funnel with cover and table mounting for the laboratory fume cupboard



AEU-8

### LABbutler Chemical disposal

- The compact and manoeuvrable LABbutler conveyors for the collection of waste chemicals, acids and, leach resistant HDPE with 100 litre holding tank, 110 litre safety tank and integrated pump system.



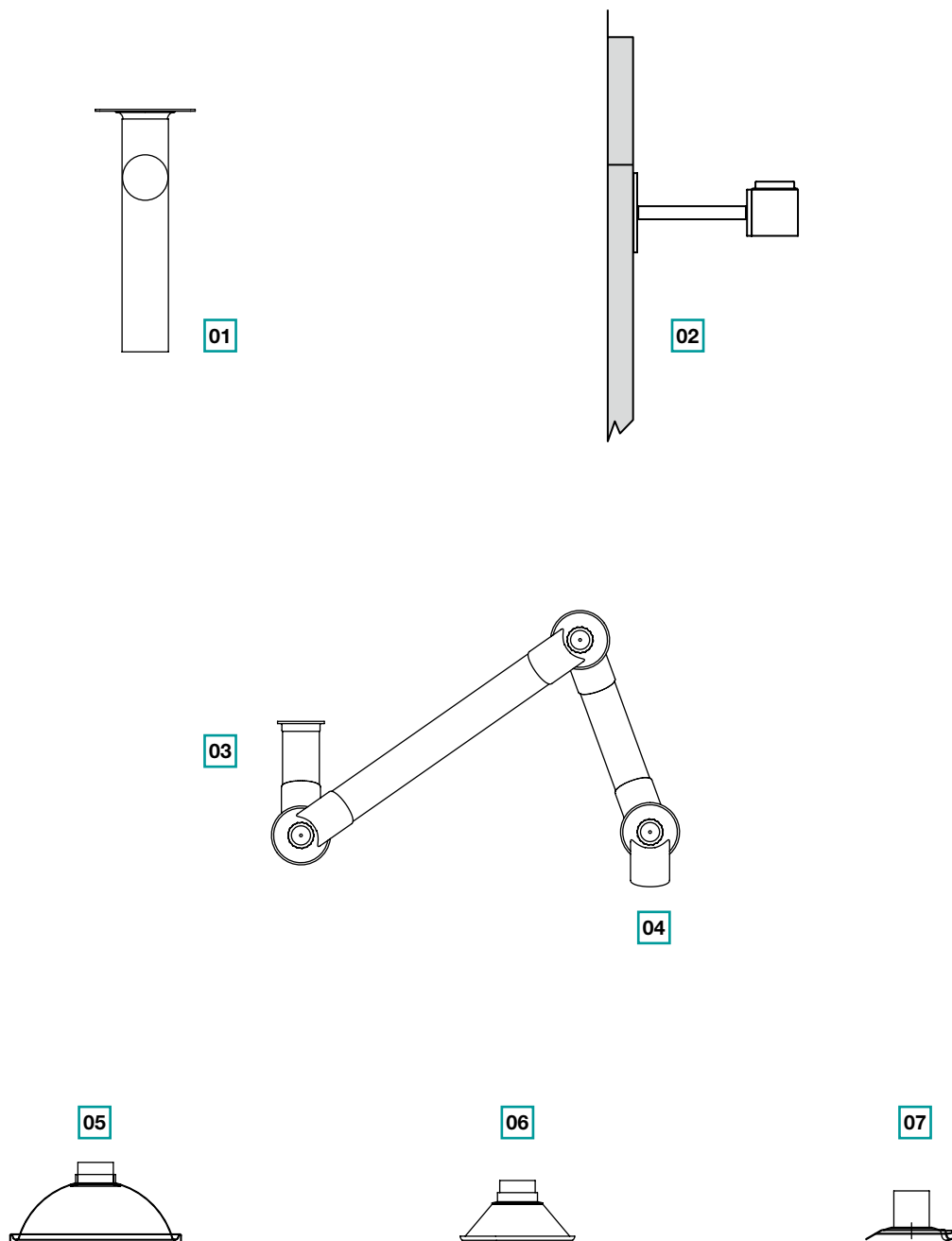
## Extraction systems | 1.17 Articulated arm flexible extractor



- Single-point extractor for work places requiring high flexibility
- Easily adjustable with its ball bearing friction joints
- Easy to clean in and outside, smooth aluminium tubing, and easy-to-remove plastic
- Air tight valve
- Upon request, available with polypropylene tubing



## Extraction systems | 1.17 Articulated arm flexible extractor



**01** Ceiling mount in 250 mm increments, from 250 mm - 2000 mm, 360° swivel

**02** Wall bracket for attachment to the system stand of the media system

**03** Adjustable friction joints

**04** With 3 polypropylene joints, tube made of thin, anodized aluminium NW75

**05** Dome hood Ø 350 mm

**06** Metal hood Ø 250 mm

**07** Flat screen hood 300 mm x 195 mm



# Service systems

Tailor-made solutions for your workplace

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# Introduction

## Service systems



The basis for the high flexibility of our service systems is a frame size spacing of 300 mm, which applies consistently across all service systems, but also the media ducts, base cabinets and cabinet systems. It forms the basis of individual planning for the design of laboratory

layouts, which are characterized by a motivating work environment, and harmonious work processes - with the aim of creating optimal conditions for research. In effect, as a result of the very fine-grained modular structure of our standard elements, creating countless solutions for

different requirements and tasks in the laboratory, producing an individual atmosphere, and overview joining functionality, quality and design.



# Service supply

## Electrics



**Power grid or data network?**  
**The system duct makes cabling easy.**

- Wide range of electrical devices mounted with sockets in many variations, e.g. contrasting colours for special and emergency networks, or country-specific types
- Buttons and switches from our standard range and special elements under customer requirements
- Optional multi compartment versions available
- Splash protection
- Installation of data networks (equipment mounting boxes)
- Option: fuses, residual current circuit breakers for securing freely definable circuits
- Cover guide groove, preventing the lid from falling when opened

# Service supply

## Plumbing



**The service panels allow a virtually unlimited individual arrangement of all fittings and elements.**

- Variable arrangement, of fittings over the entire systems length at the point of use
- Pipe work according to the requirements
- Fittings for water, natural gas, LPG, compressed air, technical gases up to purity 4.5, (high) purity gases up to purity 6.0 and vacuum out of different materials (brass, stainless steel, polypropylene, etc.)
- Fittings including additional equipment, such as pressure regulators, fine adjustment valve, etc. can be supplied in a variety of attachments depending on the system
- Supply leads from the ceiling or from the ground
- Pre-installation with all safety checks and pressure tests
- Hidden pipe work

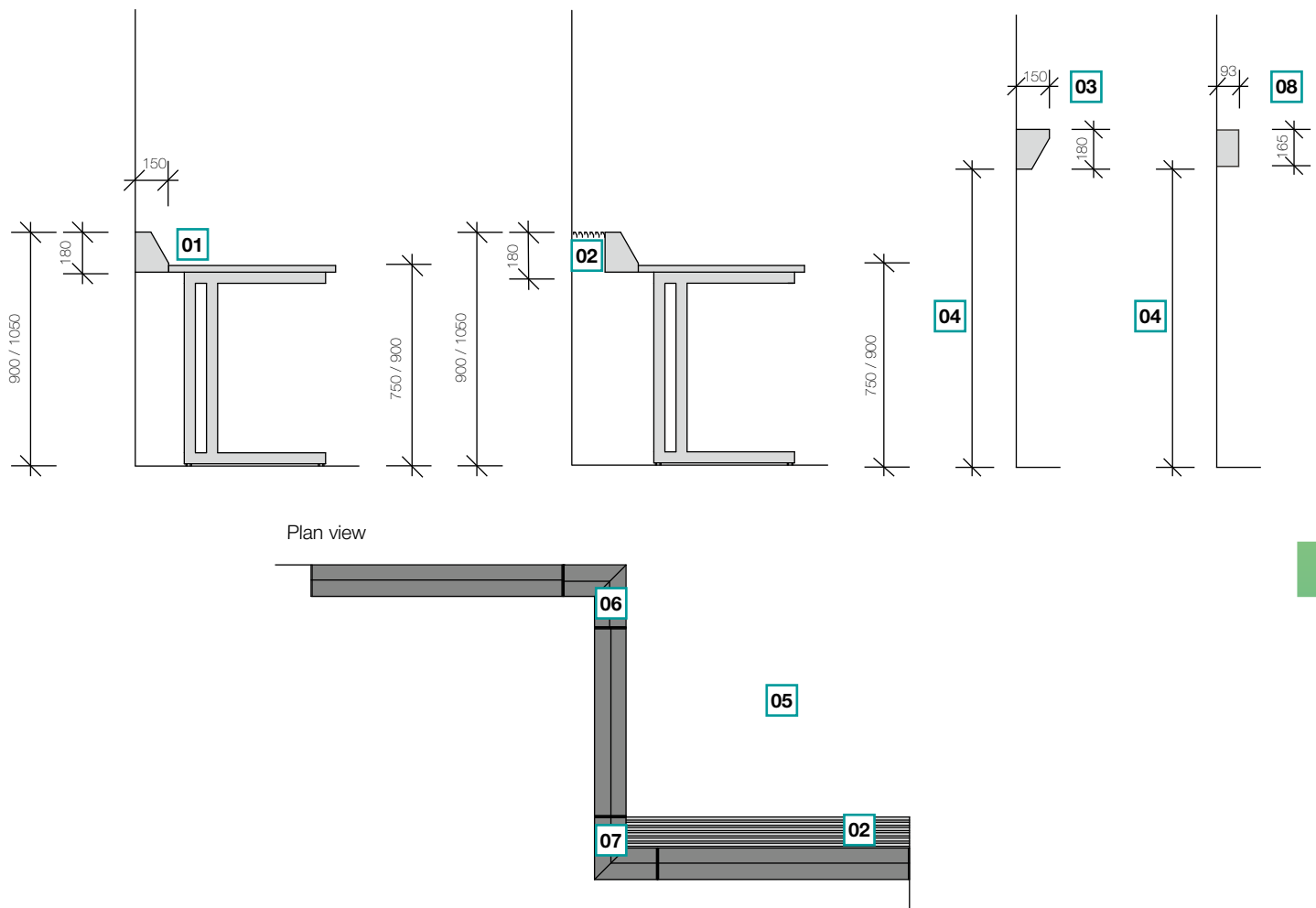


## Service systems | 2.1 System duct



- DELTA 30 system aluminium duct system in Frame size elements, with corner connection or by measurement
- Can be fitted on tabletops, and walls
- Expandable by convection grid
- Wide range of accessories for a significantly increased value in use

## Service systems | 2.1 System duct



- 01** System duct (system groove above), combination possible as desktop duct with all table systems
- 02** Heat convection grid of aluminium profiles, depth as required
- 03** System duct as wall duct (system groove in front and below)

- 04** Mounting height as required
- 05** Exemplary ducting around corners
- 06** System duct inside corner (300 x 300 mm)
- 07** System duct outside corner (300 x 300 mm)
- 08** Rectangular wall duct

## Service systems | 2.2 Container



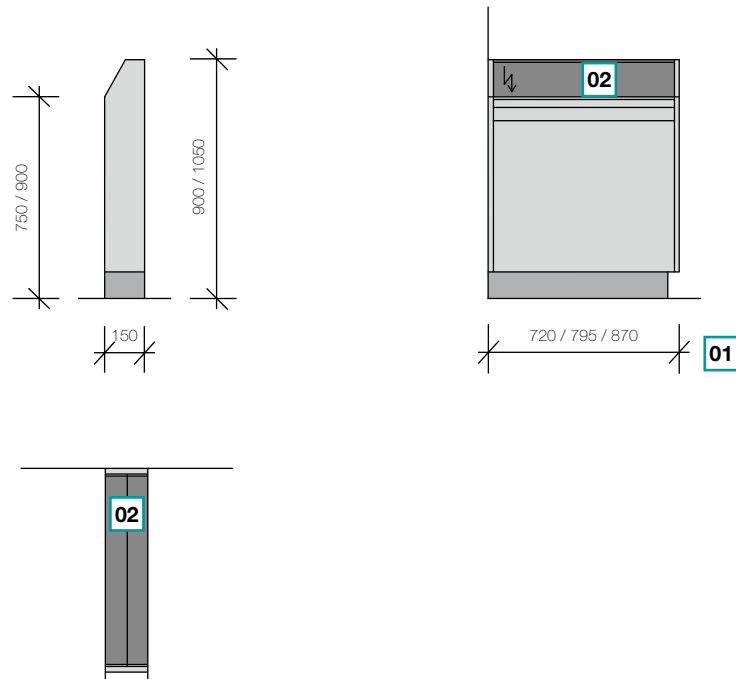
- Centralized service supply
- System duct upgradeable as a multi-chamber duct
- Lower table depth possible through lateral arrangement
- Linkage module connecting standing and sitting work surface level
- Stand-alone module for flexible use of space

- No superstructures that interfere with the supply of appliances
- Support function for fixating worktops

Functional grooves for extensive accessory range

- Ideal for double work benches for head-side linking, from one or two writing areas
- Optionally available CPU holder

## Service systems | 2.2 Container



- 01** Container Depth 720 mm for table depth 750 mm  
 Container depth 795 mm for table depth 835 mm  
 Container depth 870 mm for table depth 900 mm

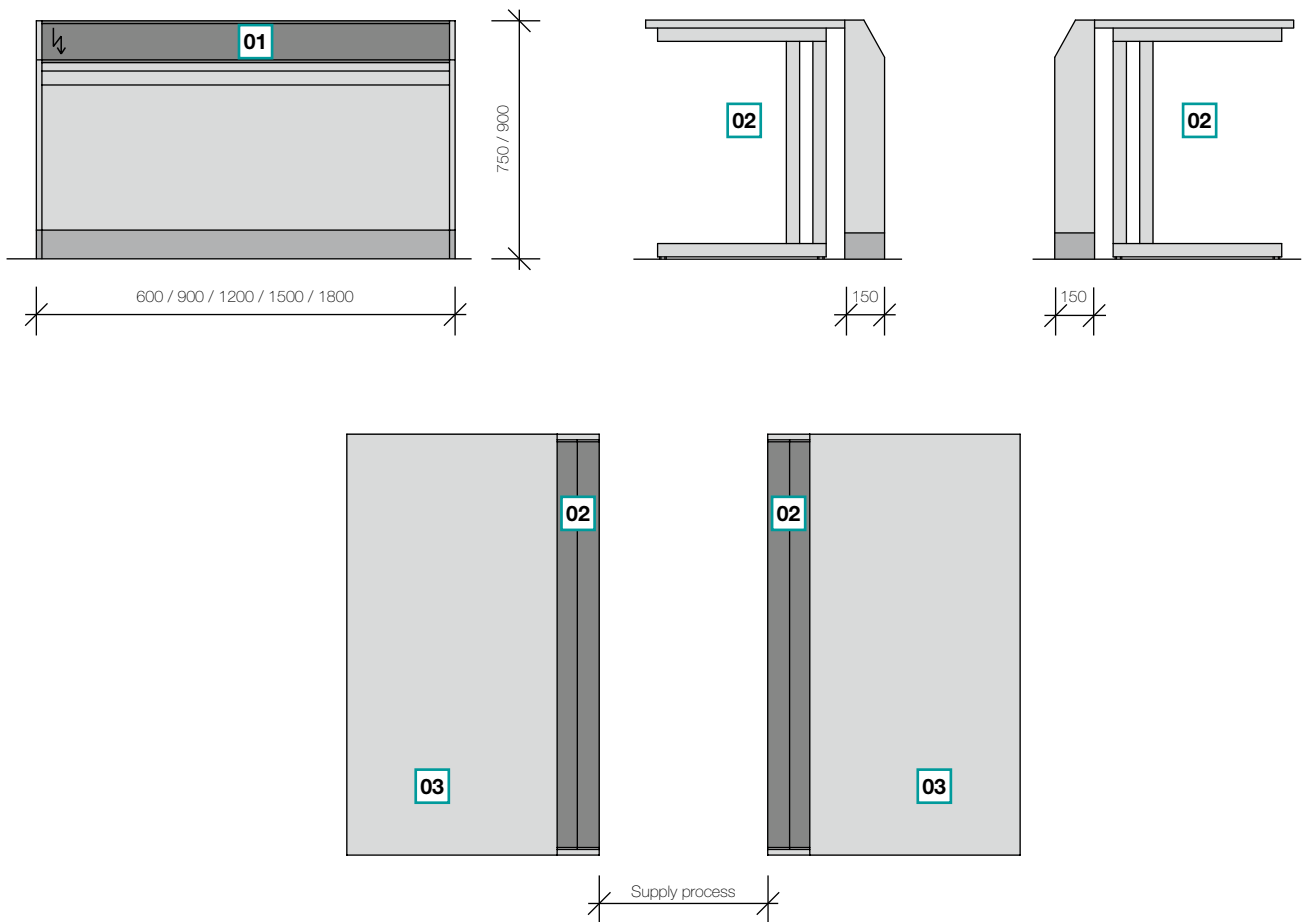
- 02** System duct for electrical service outlets

## Service systems | 2.3 Reverse-side container



- Centralized service supply
- System duct upgradeable as a multi-chamber duct
- Working flush service supply at the rear of the table
- No superstructures that interfere with the supply of appliances
- Functional grooves for extensive accessory range
- With appropriate sequence installation path (service corridor) for the supply of apparatus (e.g. gas chromatograph)

## Service systems | 2.3 Reverse-side container



- 01** System duct for electrical and gas outlets
- 02** Combination with all series and types possible
- 03** Combination possible with all work tops

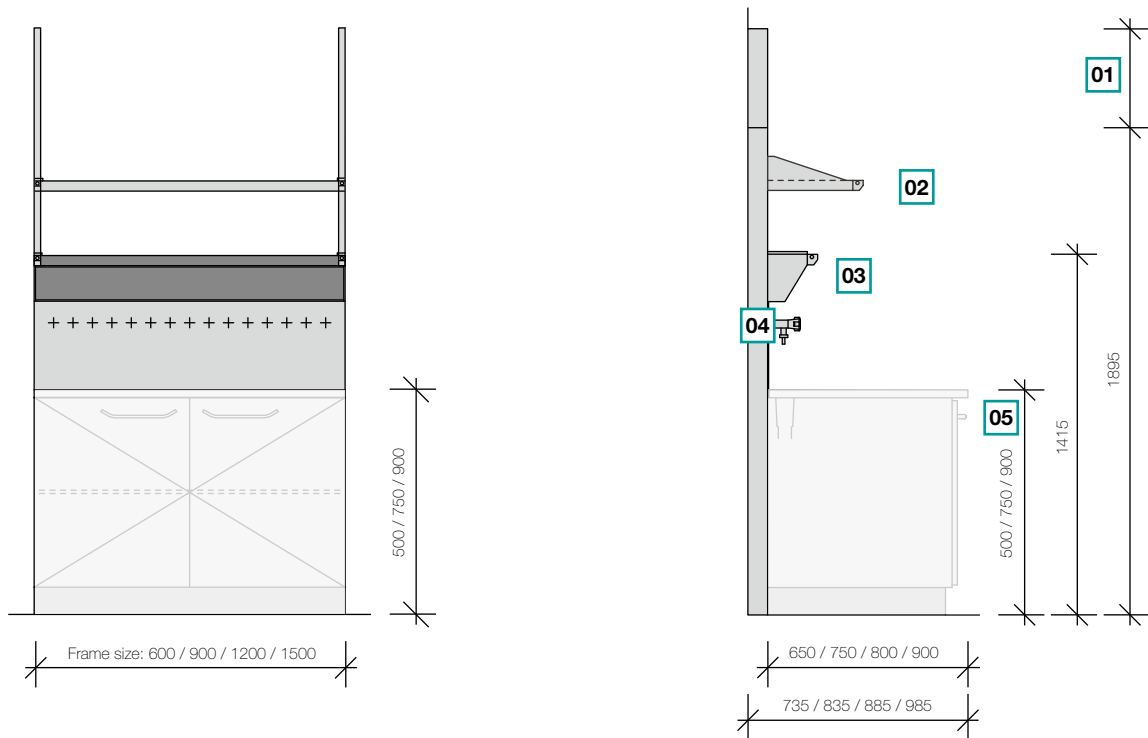
## Service systems | 2.4 Standing unit for wall work bench



- Work place in accordance with DIN EN 13150
- Excellent properties for wet work environments
- Splash protection to the wall
- Aluminium spine system
- Dense population possible
- Functional grooves for extensive accessory range
- Integration of the first storage level in the system duct
- More storage levels steplessly adjustable in height
- Few joints
- Three-dimensional tripod rod holder
- The system uprights are extendable by adding profiles
- Wide range of accessories for a significantly increased value in use



## Service systems | 2.4 Standing unit for wall work bench



**01** Option: System uprights extension

**02** Option: Additional storage levels

**03** System duct for electrical outlets

**04** Service panel (arrangement of fittings possible in each slot at every 75 mm distance points)

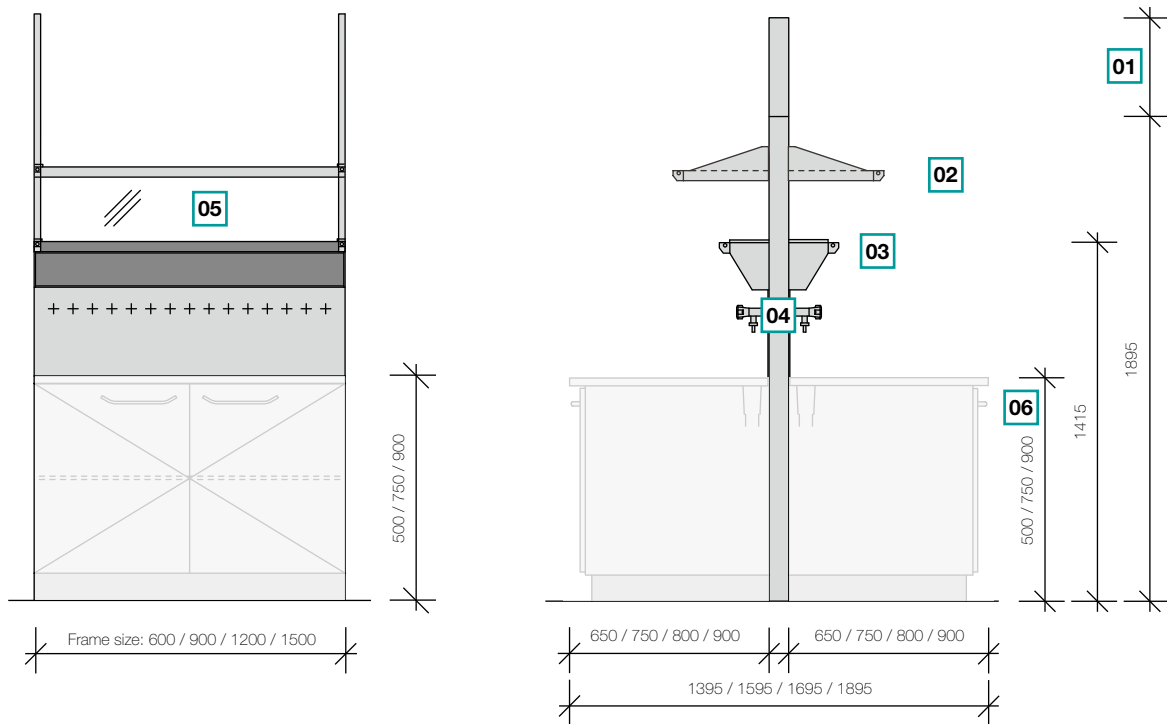
**05** Combination with all table systems possible

## Service systems | 2.5 Standing unit for double work bench



- Work place in accordance with DIN EN 13150
- Excellent properties for wet work environments
- Splash protection to the opposite workplace
- Aluminium spine system
- Dense population possible
- Functional grooves for extensive accessory range
- Integration of the first storage level in the system duct
- More storage levels steplessly adjustable in height
- Few joints
- Three-dimensional tripod rod holder
- The system uprights are extendable by adding profiles
- Integration of end sink is possible
- Wide range of accessories for a significantly increased value in use

## Service systems | 2.5 Standing unit for double work bench



**01** Option: System uprights extension

**02** Option: Additional storage levels

**03** System duct for electrical outlets

**04** Service panel (arrangement of fittings possible in each slot at every 75 mm distance points)

**05** Option: splash guard made of safety glass

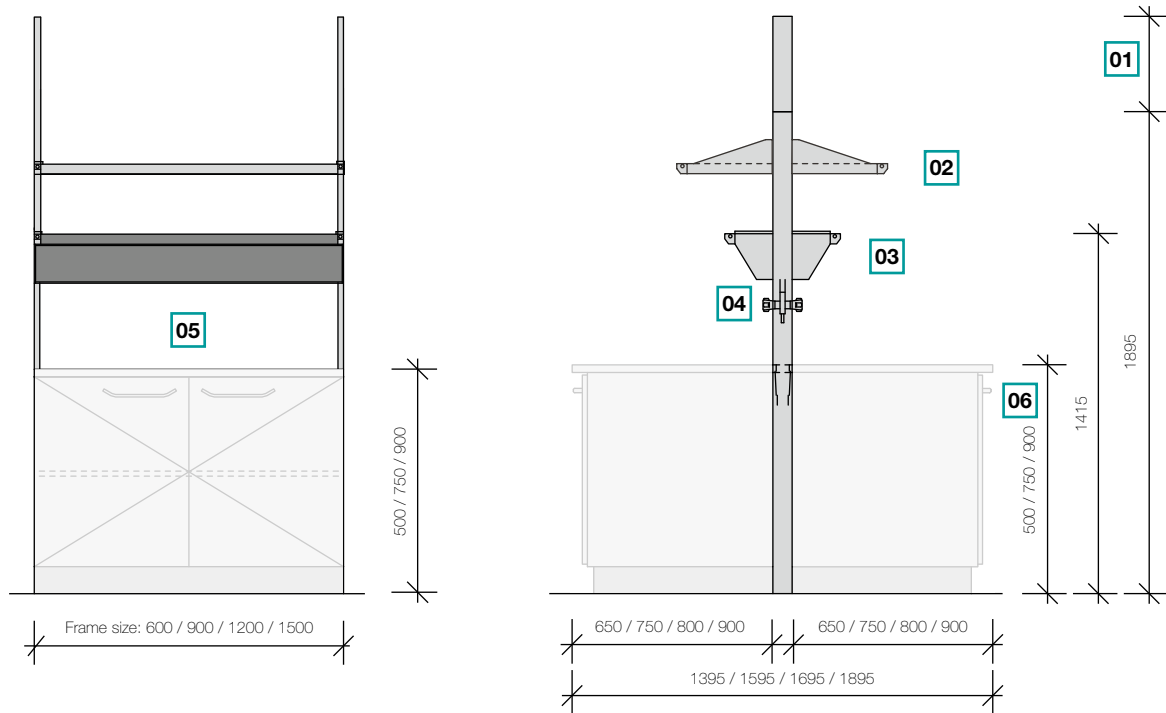
**06** Combination with all table systems possible

## Service systems | 2.6 Standing bridge



- Workplace based on DIN EN 13150
- Best features for the device work space
- Aluminium spine system
- Dense population possible
- Fittings can be used from both sides
- Functional grooves for extensive accessory range
- Integration of the first storage level in the system duct
- More storage levels steplessly adjustable in height
- Three-dimensional tripod rod holder
- The system uprights are extendable by adding profiles
- Integration of end sink is possible
- Wide range of accessories for a significantly increased value in use

## Service systems | 2.6 Standing bridge



**01** Option: System uprights extension

**02** Option: Additional storage levels

**03** System duct for electrical outlets

**04** Arrangement of fittings possible in each slot at every 75 mm distance points

**05** Free through reach

**06** Combination possible with all table systems and series

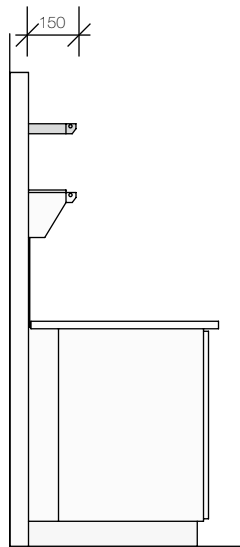
## Service systems | 2.7 Storage shelves



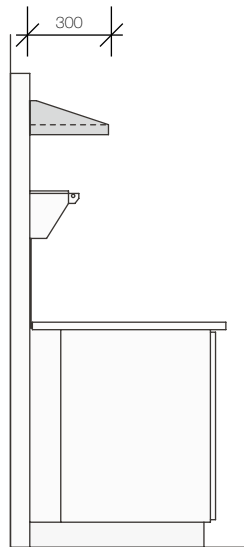
- Suitable for standing unit and standing bridge
- Attachable to the system uprights profile, height adjustable
- Includes two tripod rod holders and a glass shelf
- Suitable for wall mounting



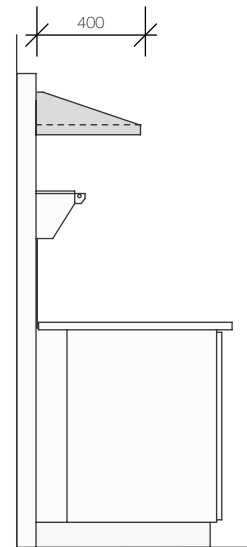
## Service systems | 2.7 Storage shelves



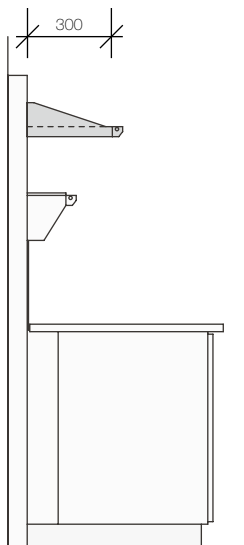
Storage shelf type 1



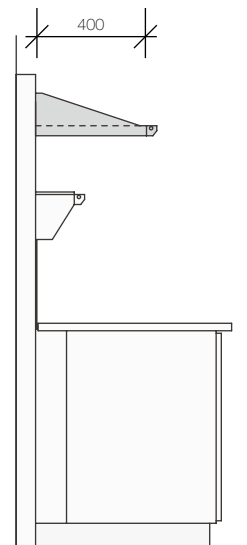
Storage shelf type 3



Storage shelf type 3, deep



Storage shelf type 4



Storage shelf type 4, deep

Storage shelf

Storage shelf Type 1: Storage of 5 mm raw glass attachment with 2 tripod rod holders  
Option: shelf 5 mm solid core

Storage level Type 3: Shelf of 19 mm particleboard core panel, melamine faced without tripod rod holders

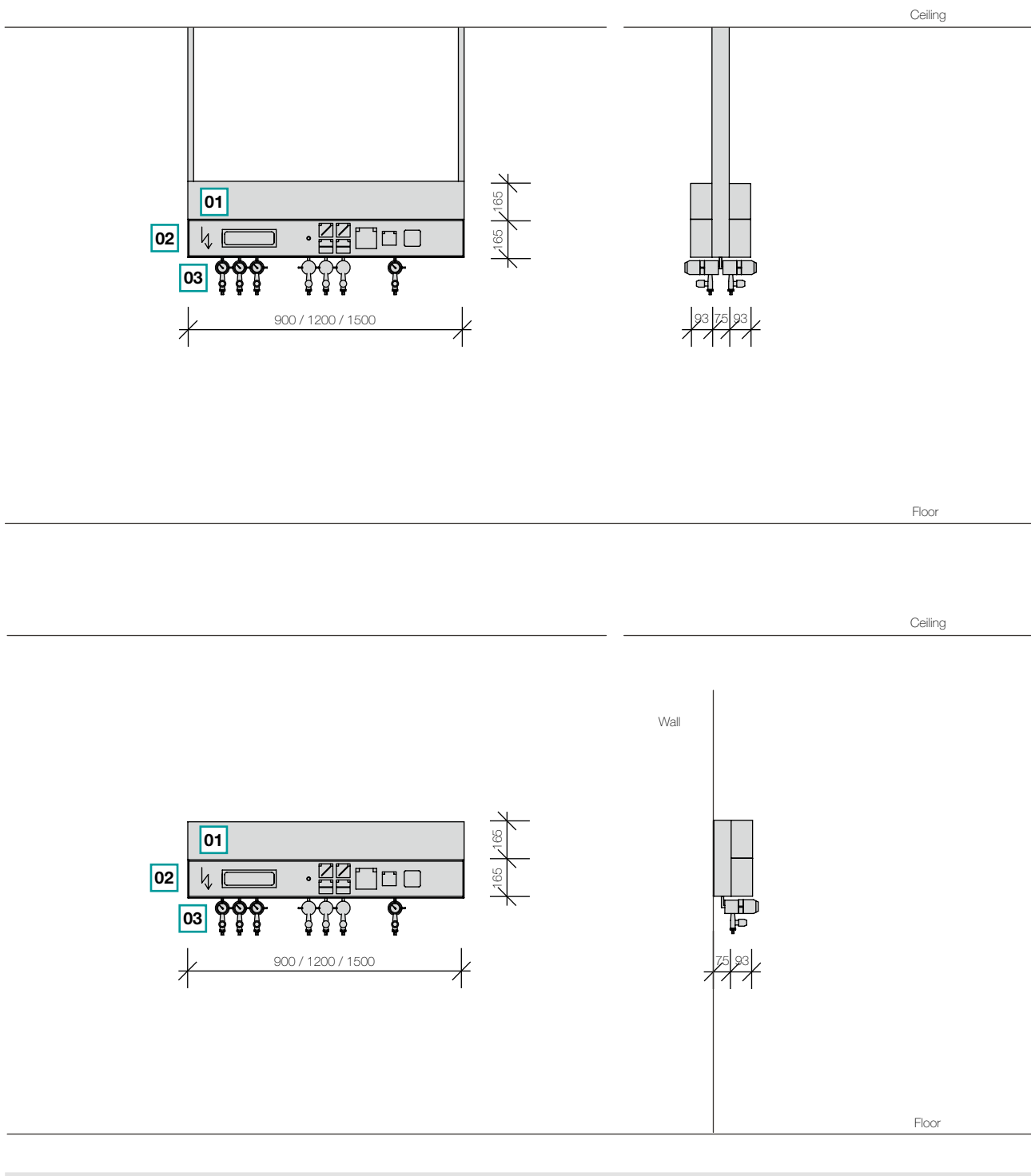
Storage level Type 4: Shelf of 19 mm particleboard core panel, melamine faced with 2 tripod rod holders  
Option: shelf 5 mm solid core  
Option: shelf 5 mm raw glass  
Option: integrated workplace lighting (LED lighting)

## Service systems | 2.8 Service energy duct



- Workplace according to DIN EN 13150
- Free use of space beneath the system
- Can both be used as a stand-alone, or services system for the entire room
- Ideally suited to work with apparatus
- Dense population possible
- Centralized media supply
- Flexible services
- Mechanical service outlets either downwards or forwards
- Mounting height as required
- Media installation duct with ample space for the horizontal installation feeds, insulation and fixating of the cabling and piping; completely encased easy to maintain and clean
- Wall or ceiling mounted installation
- Can be used in combination with double work benches
- Easily expandable and upgradeable, also as a retrofit
- Combination with all series and types possible

## Service systems | 2.8 Service energy duct



**01** Installation space

**02** Aluminium panels for electrical outlets

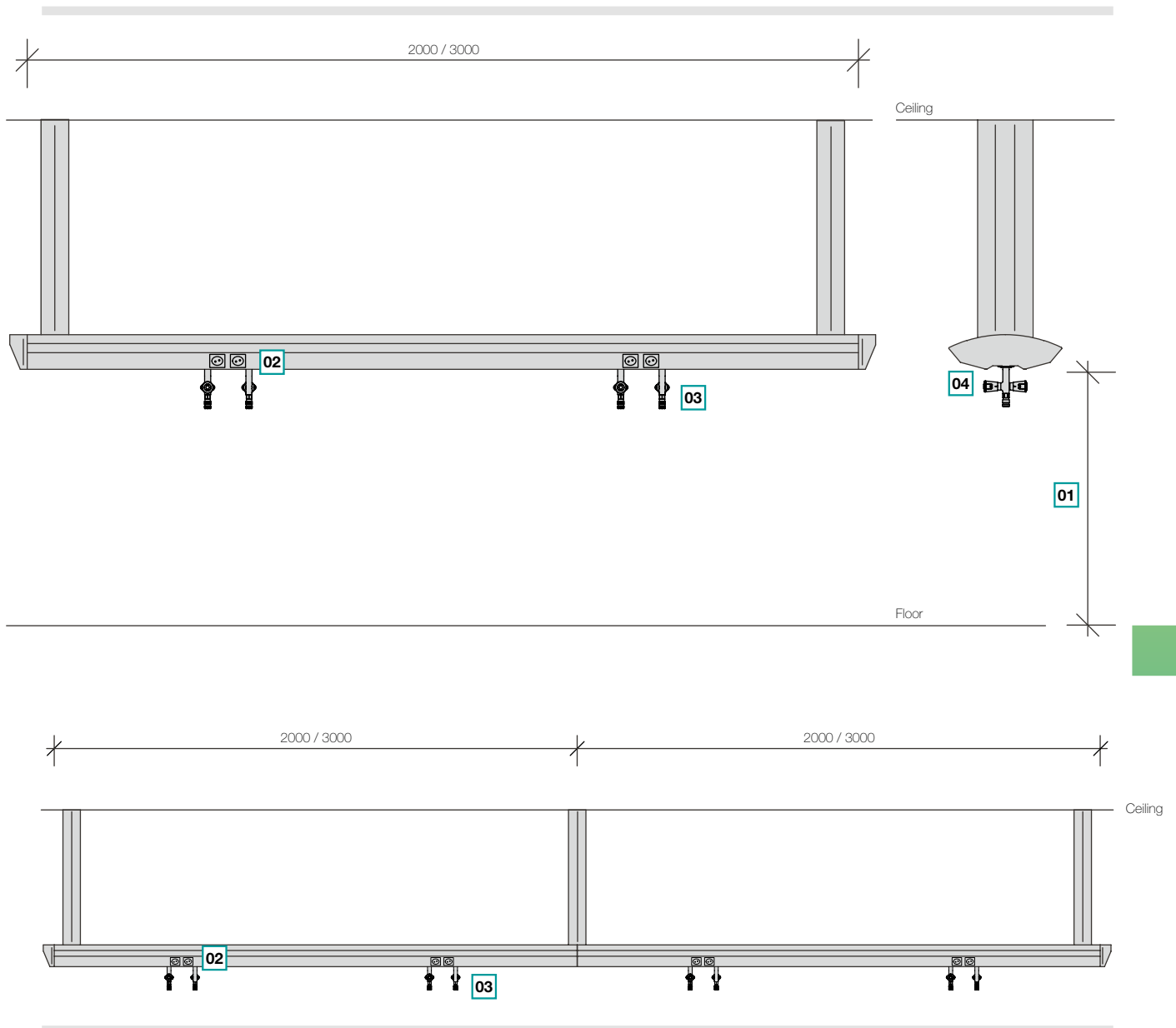
**03** Services: Arrangement of fittings possible in each slot at every 75 mm distance points  
Option: corner or remote control

## Service systems | 2.9 Media rail



- Free table arrangement with the overhead service system
- Flexible arrangement of the service outlets gas, electrics, data, multimedia
- Integrated lighting for optimal illumination of workstation, and special lighting with innovative LED technology
- Elegant, slim design, limited suspension points for easy integration into architectural concepts

## Service systems | 2.9 Media rail



- 01** Mounting height as required
- 02** Electric service outlets according as required
- 03** Arrangement of fittings possible in each slot at every 75 mm distance points
- 04** Option: with lighting

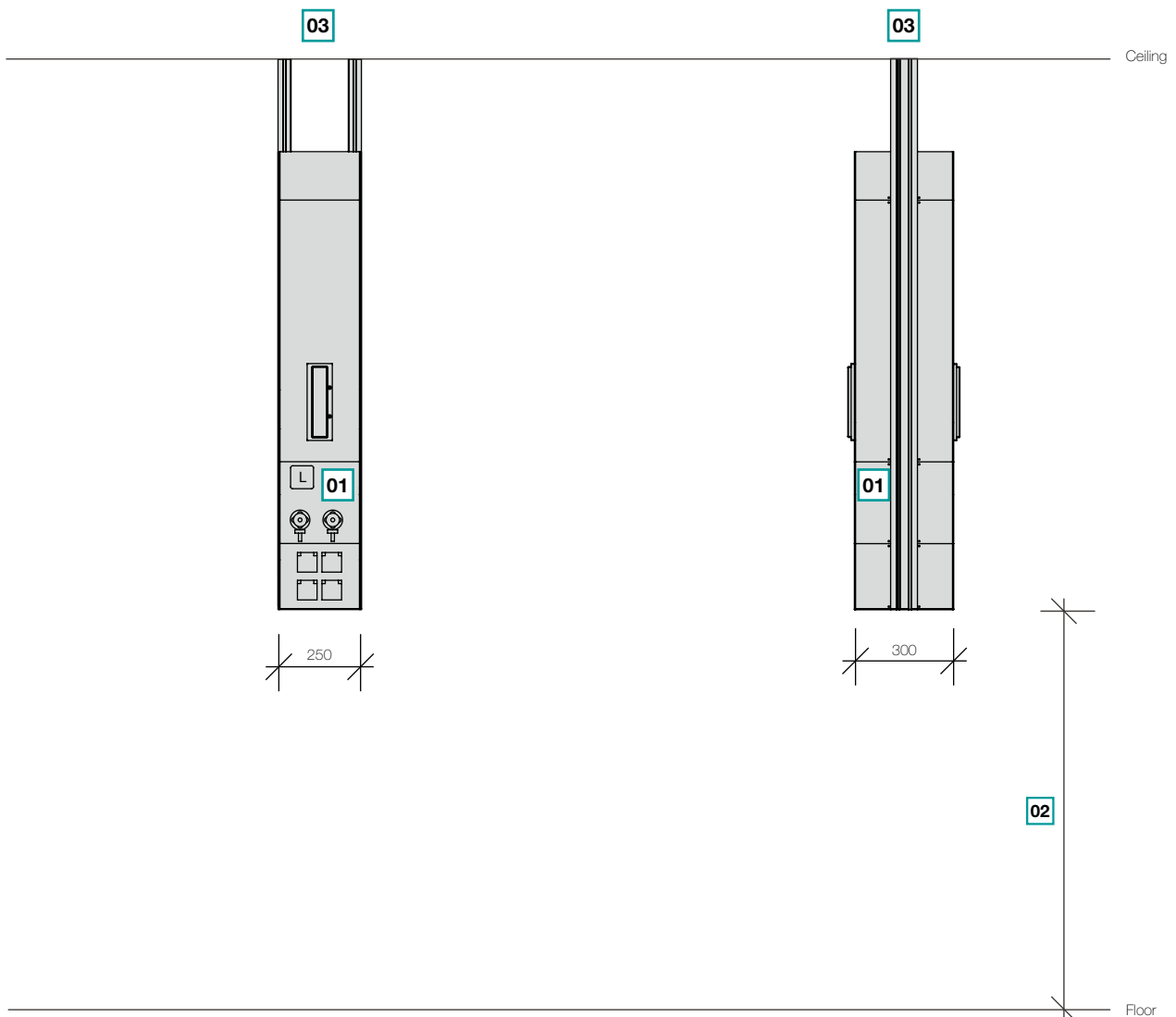
## Service systems | 2.10 Service column



- Installation concept for open space laboratories
- Transparent, open and technically high-quality appearance
- The customer only needs to provide a single connection
- In addition to the columns the installation Frame size also accommodates suspended cupboards, shelving, and point extraction system as well as partition elements to form smaller laboratory units
- Simple, cost-effective conversion or retrofitting
- Option: supply and distribution of the media via the functional ceiling, giving flexibility and mobility to the laboratory environment



## Service systems | 2.10 Service column



**01** Aluminium panels for fitting electrical outlets and front control valves

**02** Mounting height upon demand

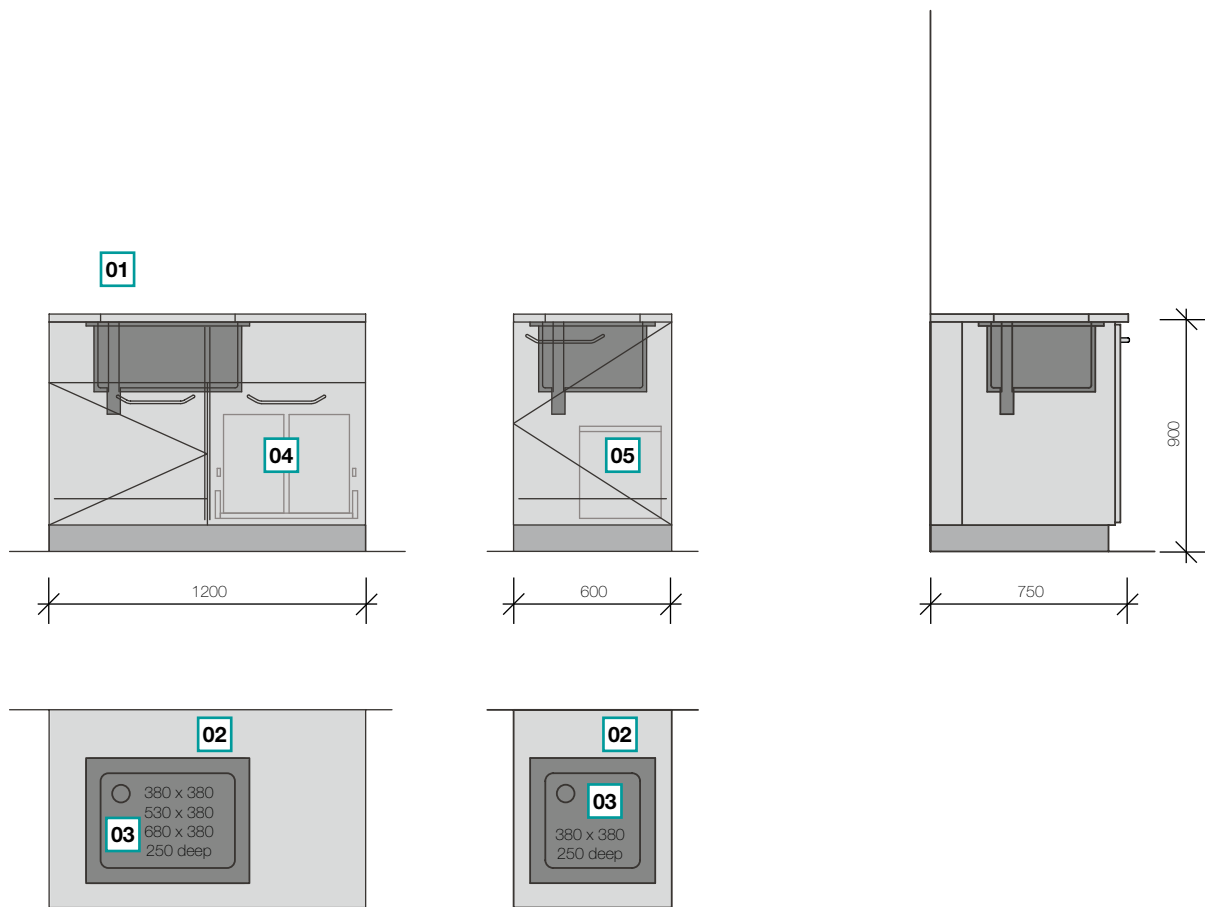
**03** Ceiling connector if required

## Service systems | 2.11 Sink



- Sink for installation into wall benches or in the laboratory rows
- Flush sink
- Option: under mount basin
- Option: under mount basin sink module with waste water protection
- Optional drain grooves
- Various materials and dimensions
- Optional stand for columns or wall fittings
- Optional splash guard

## Service systems | 2.11 Sink



**01** Sink in standing unit (left or right)

**02** Space for eye-wash station optional

**03** Stoneware sink

**04** Option: Waste collector with full height drawer

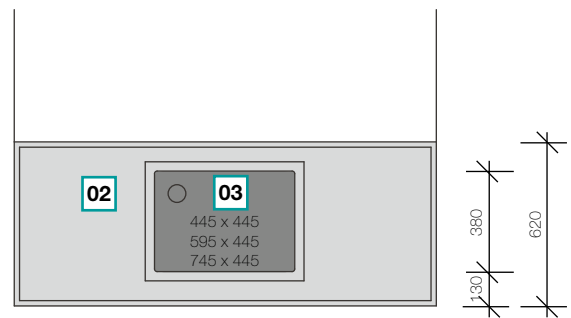
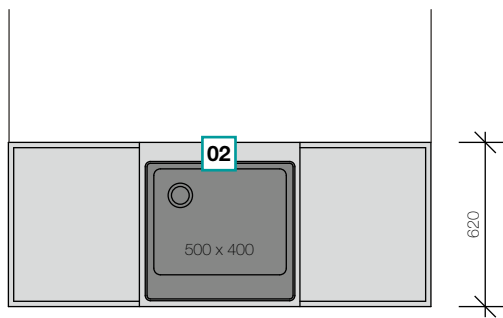
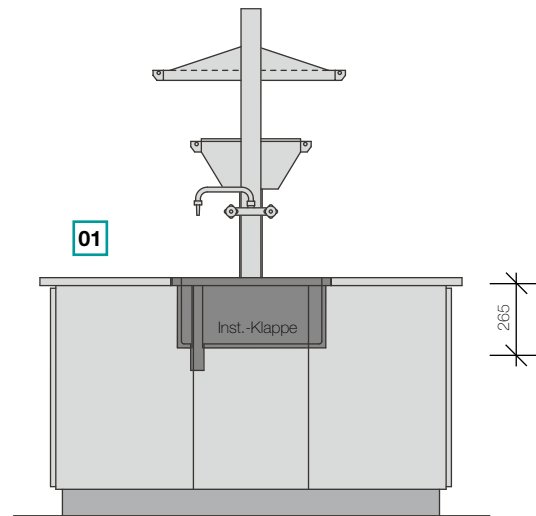
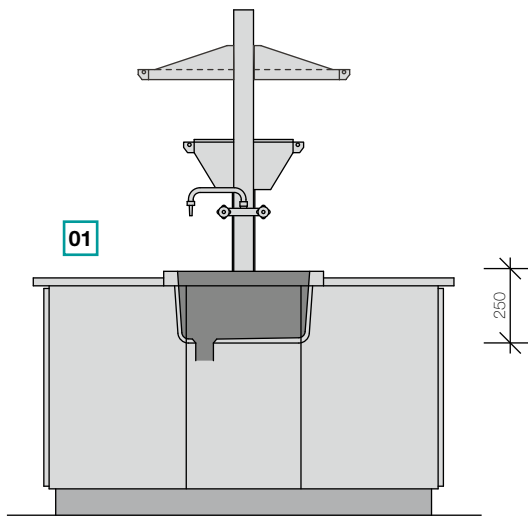
**05** Option: Waste bin

## Service systems | 2.12 Washing-up centre



- Spine sink placed against the double work bench
- Flush sink
- Option: under mount sink
- Basin module sink with waste water protection
- Optional drain grooves or drain groove module
- Various materials and dimensions
- Front side panel mounted service fitting
- Optional splash guard

## Service systems | 2.12 Washing-up centre



**01** Spine sink facing standing unit or standing bridge

**02** Eye-wash optional

**03** Stoneware basin

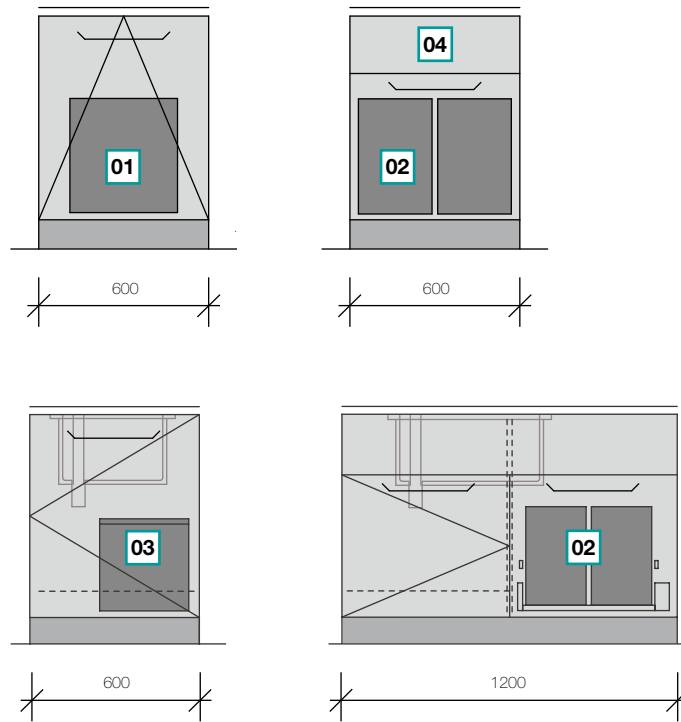
## Service systems | 2.13 Waste disposal system



- Waste disposal boxes of different materials with the corresponding durability
- Optional extraction in the base cabinets
- Drip trays as a safety element
- Optional drawer-opening foot pedal



## Service systems | 2.13 Waste disposal system



**01** Tilting waste collector with PE box 30 L

**02** Tandem waste collector with full-height drawer 2 x 17 l  
option: 4 x 8 l

1 x 17 l + 2 x 8 l

1 x 30 l

**03** Waste bin 15 l with lid-lift system  
behind hinged door

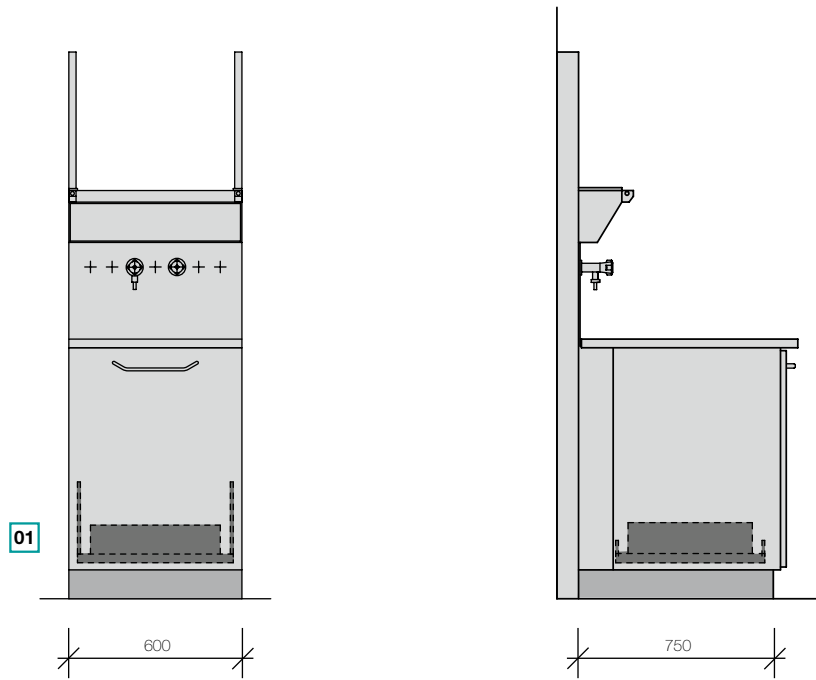
**04** Panel, option: drawer

## Service systems | 2.14 Decentralised services



**Having services directly at the work space, avoids the use of long leads and hoses. The services are integrated underneath the surface of the table.**

- Ideal for media such as vacuum, compressed air, pure gases, pure and ultrapure water
- Integration underneath the tabletop in specially designed substructures facilitating maintenance and the supply of services
- Separate integration of devices, indicators and control units above the worktop ensuring easy handling and optimum use of work space
- Short service lines to point-of-use make for superb process quality



01 Option: Pull out with container



# System accessories

Add more value to your laboratory



**Our components from the DELTA 30 range of system accessories make your system more efficient in many ways: you extend the functionality, simplify organization and improve workflows.**



Pipette holder



Grab tray



Tissue box holder

## Service systems | 2.15 System accessories





Service systems | 2.15 System accessories

System compatibility							
	Container	Reverse side container	Table duct	Standing bridge	Standing unit (Wall bench)	Standing unit (Island bench)	System stand
Grab tray				•	•	•	
Cable clamp	•	•	•	•	•	•	•
Tripod rod holder	•	•	•	•	•	•	•
Pipette holder			•	•	•	•	
Paper roll holder				•	•	•	•
Tissue box holder				•	•	•	
Flat screen bracket				•	•	•	•
Storage board	•	•	•				
Swivel organizer	•	•	•				
Workplace lamp	•	•	•				
Telephone swivel	•	•	•				
Flat screen swivel arm	•	•	•				
Groove profile	•	•	•	•	•	•	•



Workplace lamp



Notebook holder



Swivel organizer



# Table systems

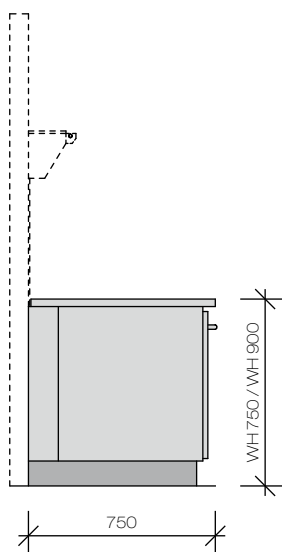
The basis for your workplace

3.1 Series E	94-95
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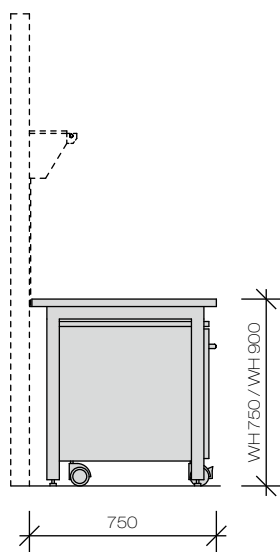
# Series

Furnishing systems for workplaces with different types of frames, model series as well as bench tops

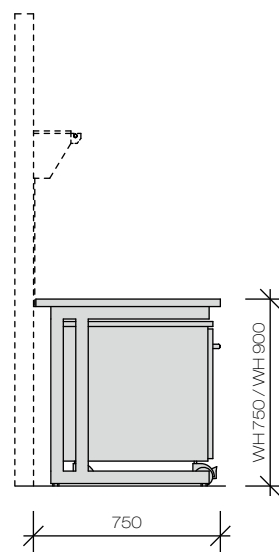
- Series E Economy
- Series 4FU 4-legged frame
- Series CFU C-frame
- Series 4FU with inserted sub-base and plinth 4-legged frame with inserted sub-base and plinth
- Series 4FU with inserted under bench cabinet and plinth 4-legged frame with inserted under bench cabinet and plinth
- Auxiliary frame with mobile table



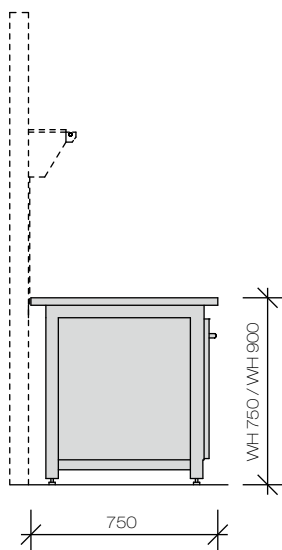
Series E



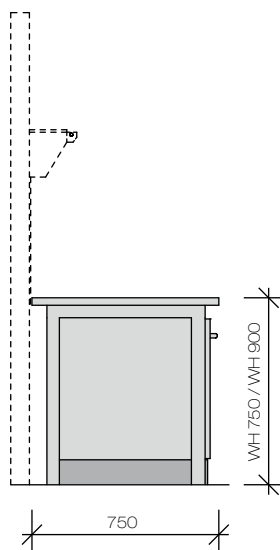
Series 4FU with mobile  
under bench cabinet



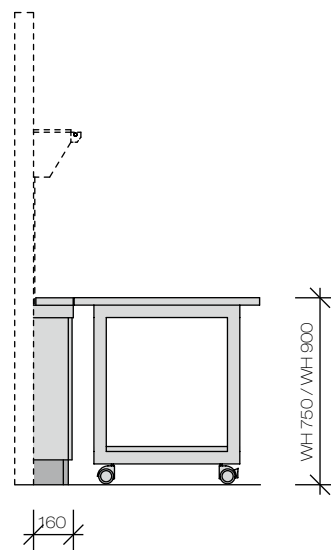
Series CFU with mobile  
under bench cabinet



Series 4FU  
with inserted sub-base and plinth



Series 4FU  
with inserted under bench cabinet  
and plinth



Auxiliary frame with mobile table

# Worktops

## Materials



Stainless steel work surface



High-pressure compact laminate work surface (standard or laboratory grade)



Composite stoneware work surface



Stoneware work surface



Polypropylene work surface



Melamine work surface, PP edge

- Epoxy resin work surface
- Stainless steel work surface
- Glass work surface, epoxy marine edge
- Melamine work surface, PP edge
- Melamine work surface, epoxy marine edge
- Polypropylene work surface
- Stoneware work surface

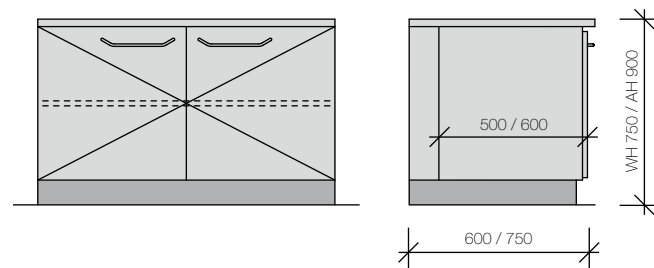
- Composite stoneware work surface, epoxy marine edge
- High-pressure compact laminate work surface (standard or laboratory grade)
- High-pressure compact laminate work surface (standard or laboratory grade), epoxy marine edge

## Table systems | 3.1 Series E





## Table systems | 3.1 Series E



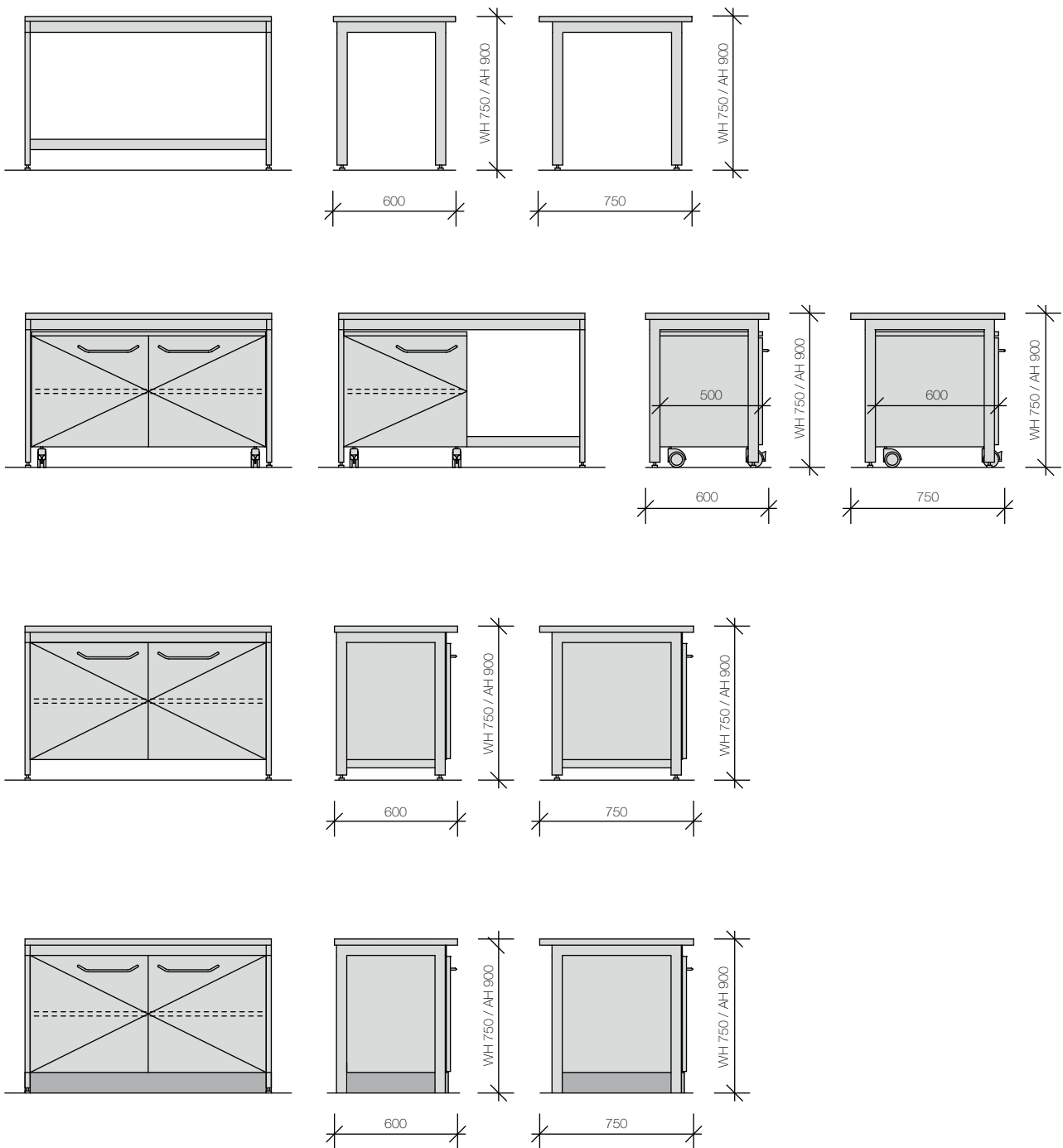
Series E

The Series E (E = economy) is the most economical design. No need for table base, as the base cabinet is the supporting element of the work top. The wood frame cabinet stands on adjustable feet and is fitted with a base. The Series E can be used as a stand-alone or combined as well with all media and table systems.

- Standard widths: 450 / 600 / 900 / 1200 mm
- Standard heights: 750 / 900 mm (seated / standing working heights)
- Standard depths: 600 / 750 mm

**Table systems | 3.2 Series 4FU**

## Table systems | 3.2 Series 4FU



Series 4FU

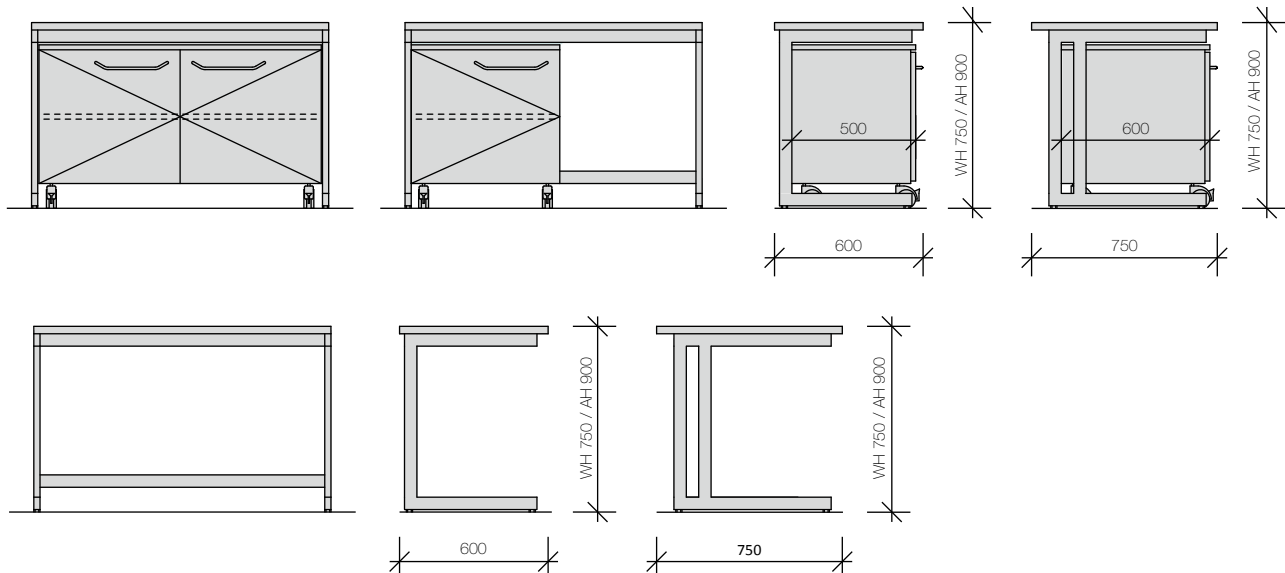
In the Series 4FU a metal 4-legged frame is the supporting element of the worktop. This table can be used with a suspended under bench cabinet, and with an inserted under bench cabinet with 100 mm plinth, both as stand-alone, as well as with mobile substructures with open base (100 mm). The series can be combined with all media/table systems.

- Standard widths: 600 / 900 / 1200 / 1500 / 1800 mm
- Standard heights: 750 / 900 mm (seated / standing working heights)
- Standard depths: 600 / 750 mm

## Table systems | 3.3 Series CFU



## Table systems | 3.3 Series CFU



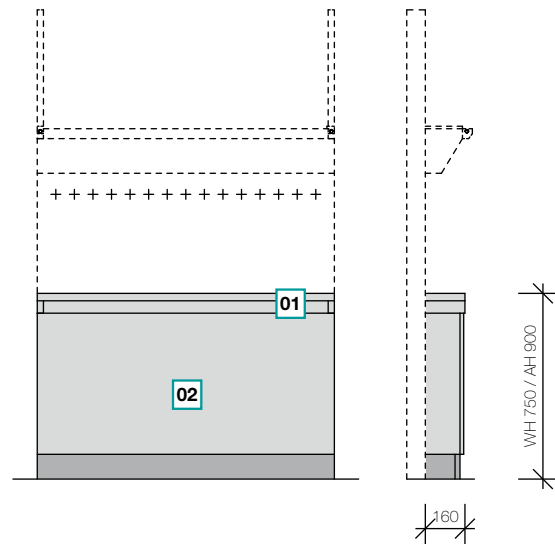
Series CFU

In the Series CFU a metal C- frame is the supporting element of the worktop. This bench can be used both stand-alone as well as with mobile substructures. The series CFU can be combined with all media/table systems. Especially when working seated the CFU provides benefits on account of the legroom.

- Standard widths: 600 / 900 / 1200 / 1500 / 1800 mm
- Standard heights: 750 / 900 mm (seated / standing working heights)
- Standard depths: 600 / 750 mm

**Table systems | 3.4 Auxiliary frame**

## Table systems | 3.4 Auxiliary frame



Auxiliary frame

With the auxiliary frame, a metal frame is the supporting element of the worktop. It is covered and has a 100 mm base. The auxiliary frame can be used as a stand-alone unit (wall bench and island bench), in combination with a standing bridge and with all table systems.

- Standard widths: 600 / 900 / 1200 / 1500 / 1800 mm
- Standard heights: 750 / 900 mm
- Standard depths: 160 mm

**01** Option: drip cup

**02** Option: Mechanical services

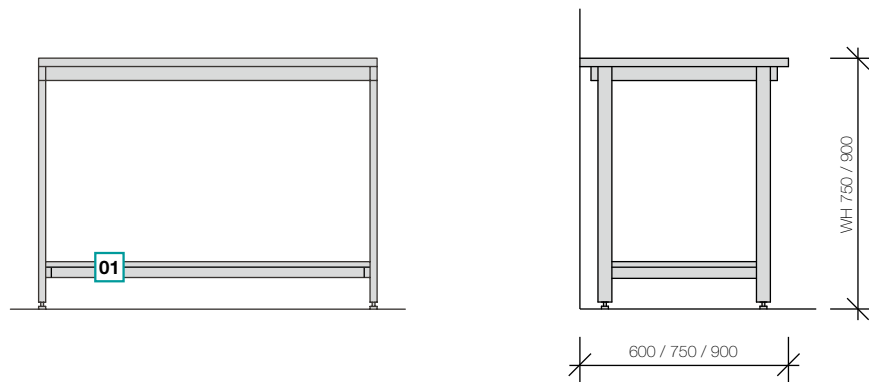


## Table systems | 3.5 Single table

---



## Table systems | 3.5 Single table



Single table

### 01 Option: frame with storage level

The freestanding table can be positioned easily and individually. The sturdy welded table frame is well suited to support heavy apparatus. This table is not compatible with the media system. Not interlaceable with additional tables.

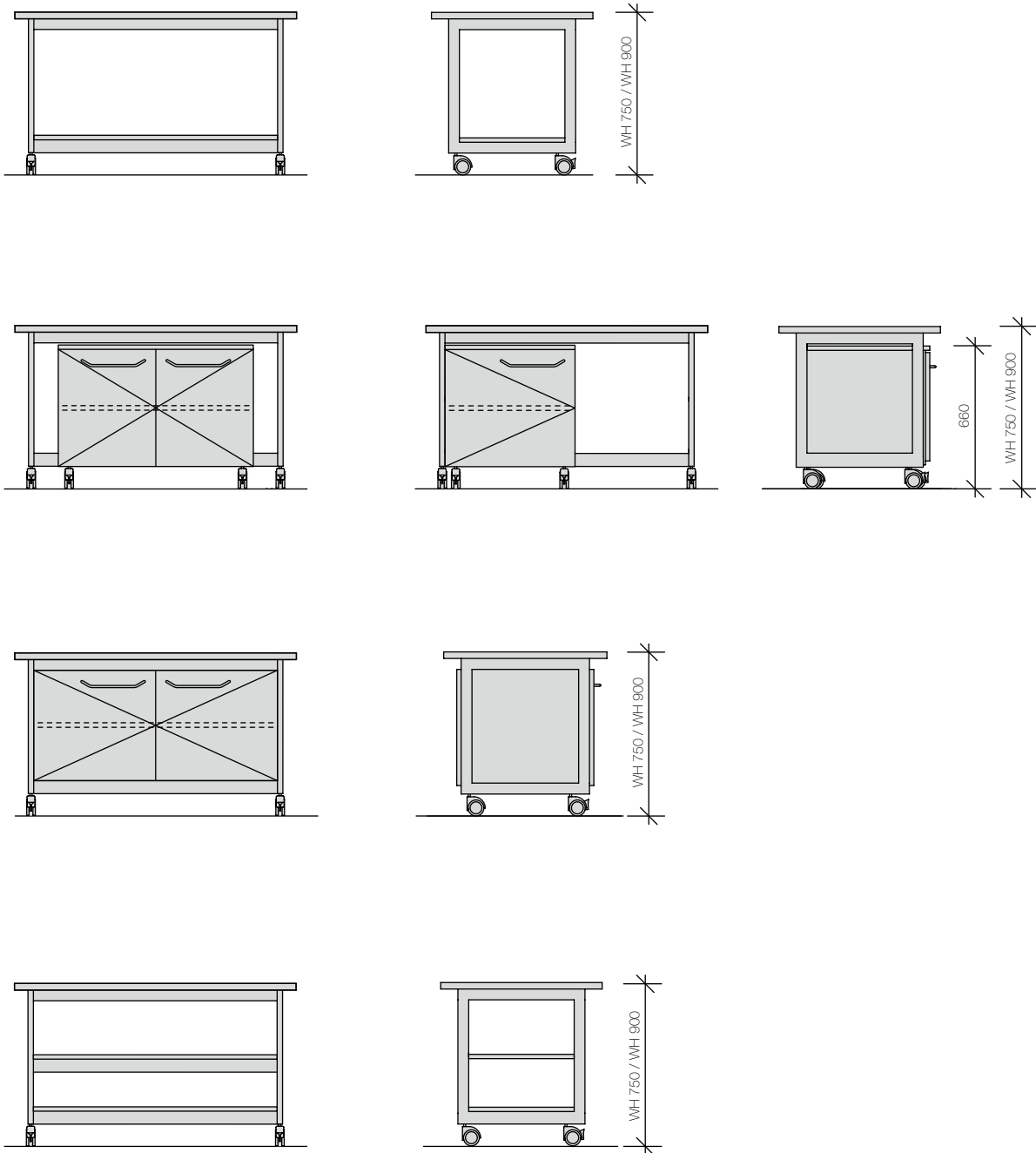
- Standard widths: 600 / 900 / 1200 / 1500 / 1800 mm
- Standard heights: 750 / 900 mm
- Standard depths: 600 / 750 / 900 mm

**Table systems | 3.6 Mobile auxiliary table**

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## Table systems | 3.6 Mobile auxiliary table



Mobile auxiliary table

In the mobile auxiliary table a metal frame on castors is the supporting element of the worktop. This bench can be used with an open base (100 mm) inserted substructure as well as with additional storage shelf, stand-alone as well as with other mobile substructures. The mobile auxiliary table can be combined with all media and table systems.

- Standard widths: 600 / 900 / 1200 / 1500 mm
- Standard heights: 750 / 900 mm
- Standard depths: 600 / 750 mm

## Table systems | 3.7 LABterminal

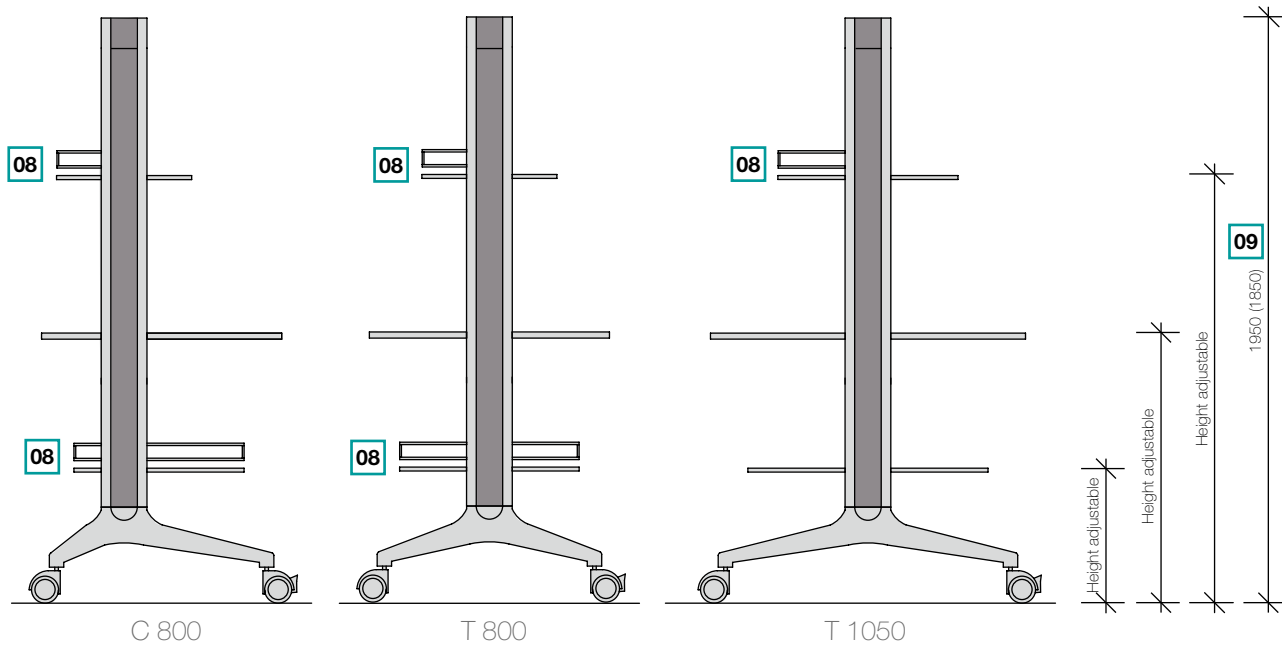
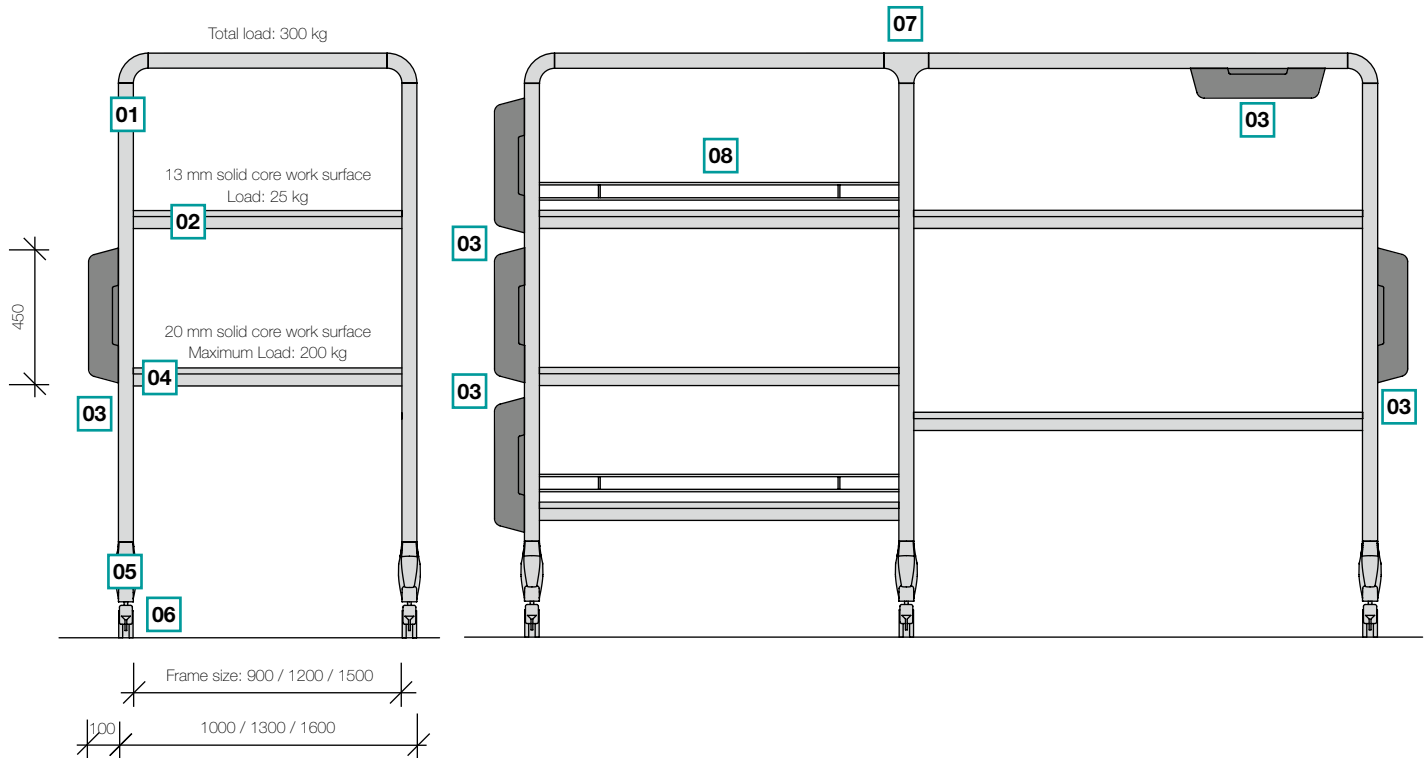


- Flexibility due to mobility
- Extremely stable multi-chamber aluminium profile
- Robust and durable frame and base
- Integrated high-volume media duct (electricity, gas, and data)
- Flexible positioning of the media (sockets, network connections and gas fittings)
- Variable by simple adaptation to changing operational environments and new apparatus
- Modules can be daisy-chained to form larger units
- Space-efficient thanks to the vertical arrangement of different working levels
- Built-in computer bracket
- Standard available in three widths and two depths, for different device sizes.



reddot design award  
winner 2013

## Table systems | 3.7 LABterminal



- |  |  |
|--|--|
| <b>01</b> Frame  | <b>05</b> Base frame type (C800, T800, T1050)                            |
| <b>02</b> Storage levels (accessory)   | <b>06</b> Castors, Ø 100, steerable, with brake                          |
| <b>03</b> Electrical distribution systems (variably populated), mechanical distribution systems (variably populated) | <b>07</b> Linkage possible   |
| <b>04</b> Worktop  | <b>08</b> Option: rail   |
|  | <b>09</b> Height specifications for stationary model with position slots |



01



02



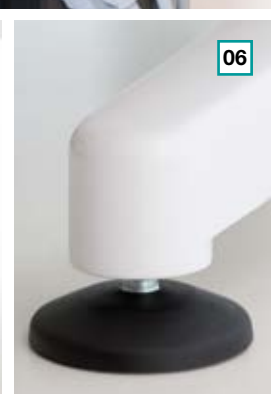
03



04



05



06

The LABterminal system offers a wide range of design and configuration options, depending on the application and apparatus size. On request we will be happy to quote you a customised solution.

- Standard widths: 900 / 1200 / 1500
- Standard depths: 800 / 1050 mm



## Table systems | 3.7 LABterminal

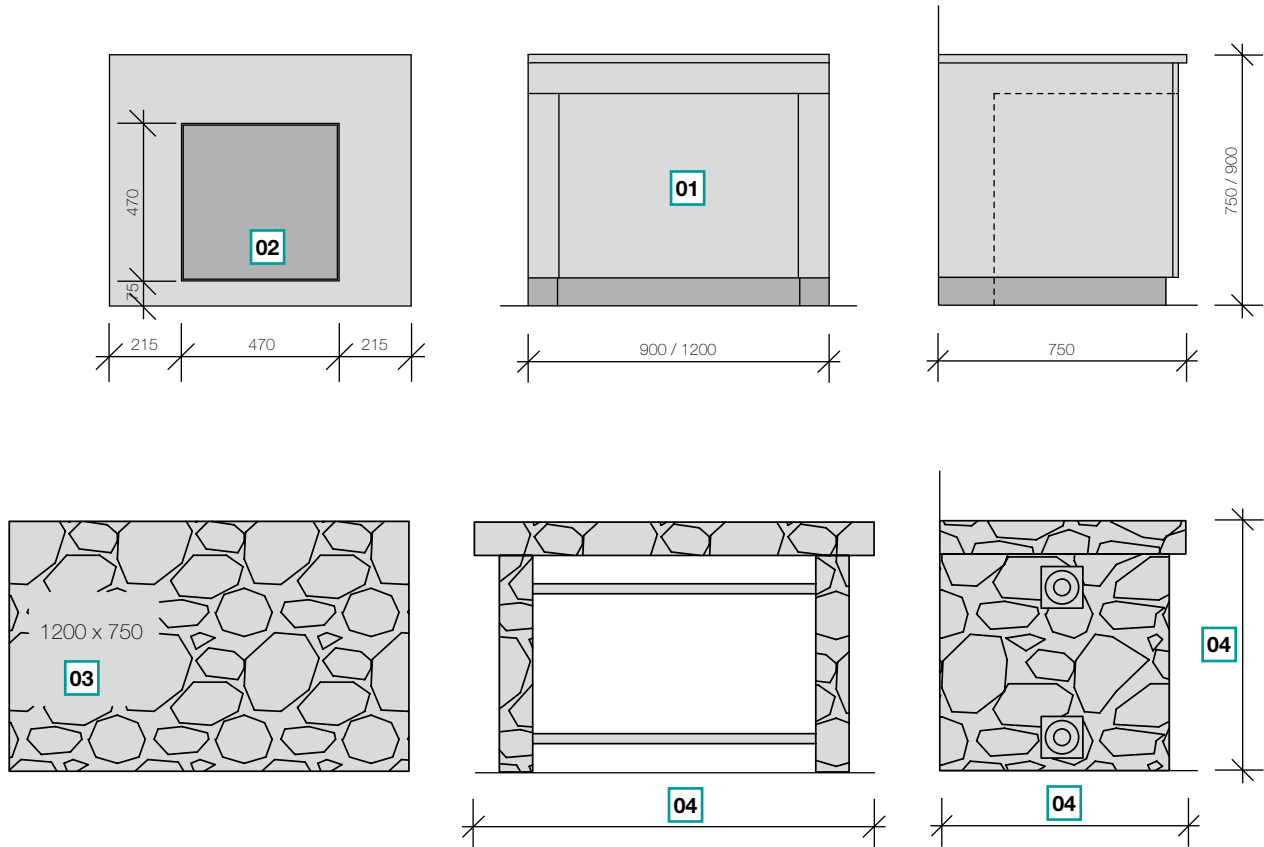


- 01 Mechanical service box with fittings
- 02 Tool-less handling of the E-boxes
- 03 Easy variation of the modular shelves

- 04 Electrical services, including cable storage
- 05 Flexible design, castors
- 06 Stationary version, supporting feet

**Table systems | 3.8 Balance table**

## Table systems | 3.8 Balance table



Balance table

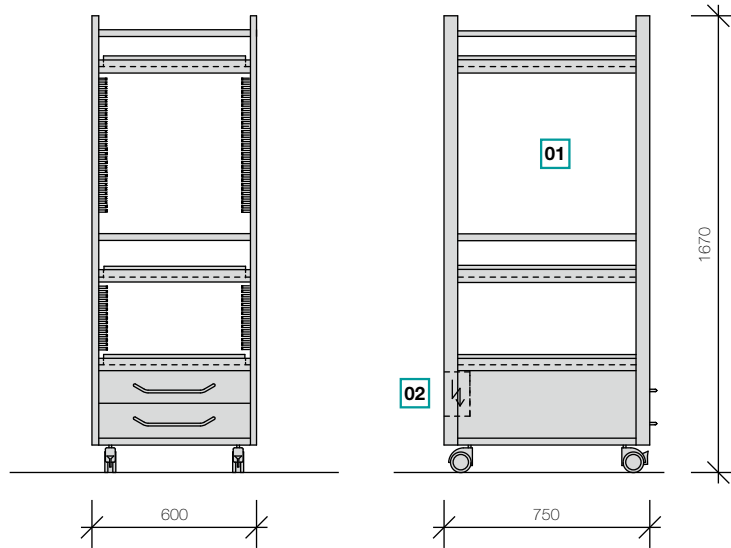
- 01 Seat niche balance table
- 02 Balance table modular frame

- 03 Balance table surface made of artificial stone
- 04 Size according to requirements

**Table systems | 3.9 Rack**

- Rack with several shelves to store apparatus
- Fitted with castors

## Table systems | 3.9 Rack



Rack

**01** Number of trays and drawers as required

**02** Option: electric duct

## Table systems | 3.10 Clean room furniture



### Quality standards of our clean room furniture

- Scratch-resistant, smooth and matt surfaces: either chipboard with fine particle surface according to EN 312 (all horizontal surfaces [friction intensive] with HPL coating) or high-pressure laminate (HPL)
- All visible and non-visible panel edges are protected with edge bandings

### Our clean solutions for clean room and air lock systems

- Sit-over benches with or without shoe compartments (one or both) cabinets for changing shoes
- Work clothing wardrobe
- Hampers
- Supply and storage cabinets (with dispenser for small items/tilt boxes etc.)
- Various cabinet systems for valuables, detergents, hampers, etc.





### Sensory labs

- Preparation room (kitchen) with sideboard and mobile tables
- Partition with hatch (electronic, both central as well as individual locked) between the test and preparation room
- Neutral, separated cabins (noise protection) with sufficient space to move
- Test room temperature of  $20 \pm 3^\circ \text{C}$  with odourless air and relative humidity up to 70% (there is constant over-pressure in the test room compared to the kitchen)
- Steady laboratory lighting, allowing for different illumination possibilities (dimmers, red and green coloured light sources, monochromatic light sources)

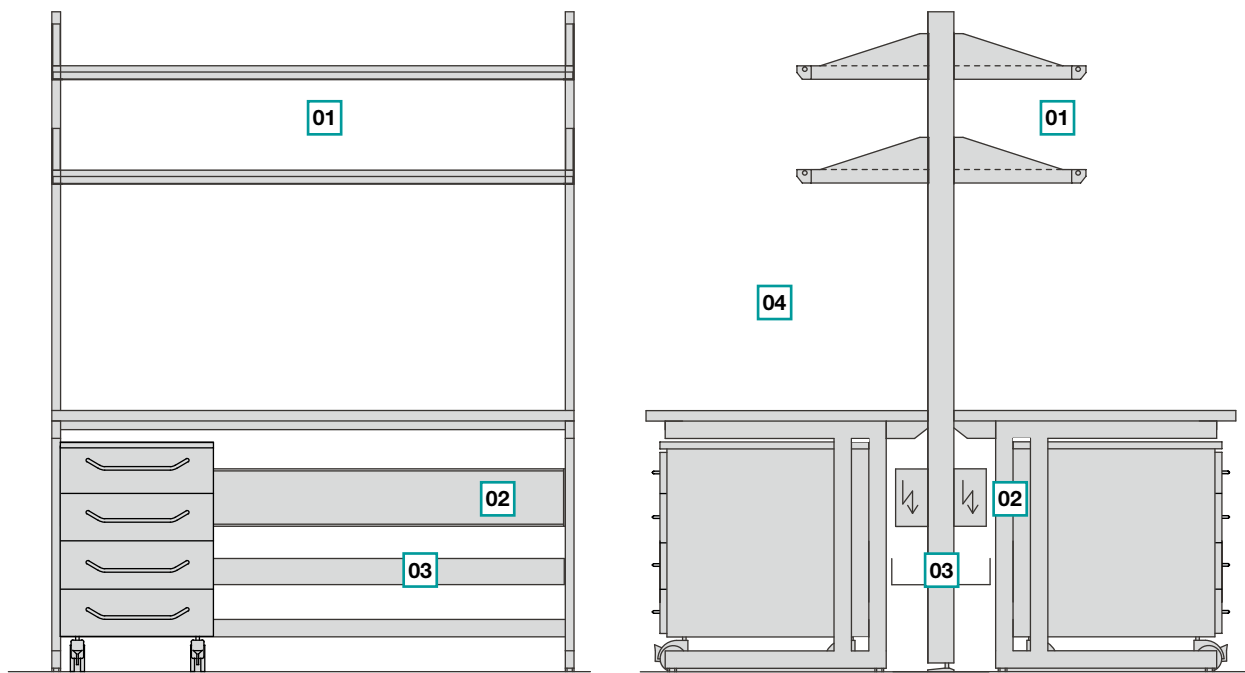


## Table systems | 3.12 Office work space

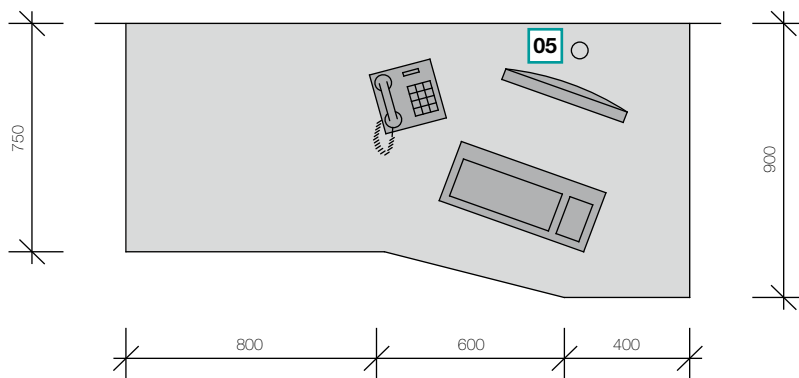


- Optional system duct at the side or at the back of table or as a variation with integrated convection grid
- Base is a flexible solution with mobile elements
- Various table depths and widths available
- Optional with side wood flat cover panel
- Design based on wall working table
- Optically harmoniously matched to the DELTA 30 system laboratory work places

## Table systems | 3.12 Office work space



Office work space



Office work space Ergo

**01** Option: Shelves

**02** Option: Electric duct

**03** Option: Cable tray

**04** Option: Single work space

**05** Option: Cable port Ø 80 mm



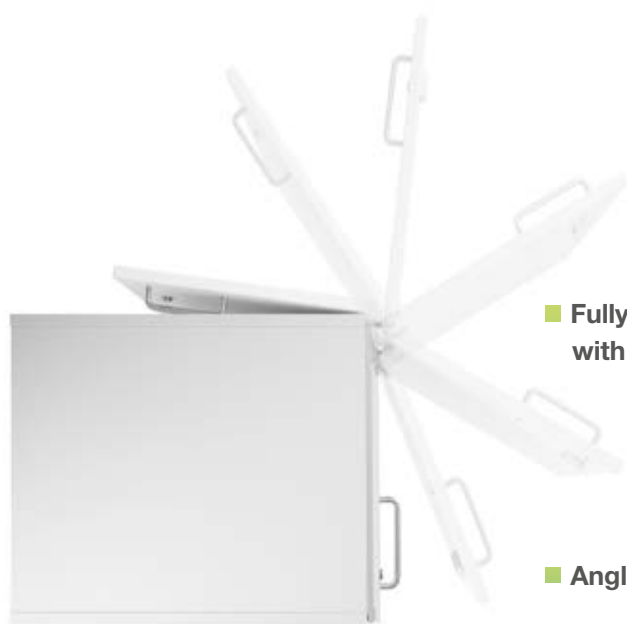
# Cupboard systems

Everything organized to perfection.

4.1 Under bench cabinets	122-125
4.2 Cupboards /top-mounted cabinets	126-127
4.3 Under bench safety cabinets for hazardous materials storage	128-129
4.4 Hazardous materials storage cabinets	130-131
4.5 Special cabinets	132-133
4.6 Wall /overbench cabinets	134-135

# Innovation in detail

The added value of our cabinet systems.



■ Fully extendable  
with soft close

■ Angle of opening of 270°



■ Precise settings



■ Joint less hinges



■ Particularly easy to clean with its  
rounded edges, in extractable parts  
and tool-free removable fronts.

# Designed

for every purpose



■ **fixed:**  
with sturdy foot and base

■ **flexible:**  
with easy rolling castors  
(Ø 75 mm)



## Storage systems | 4.1 Under bench cabinets



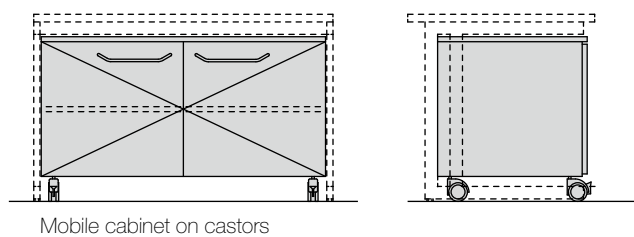
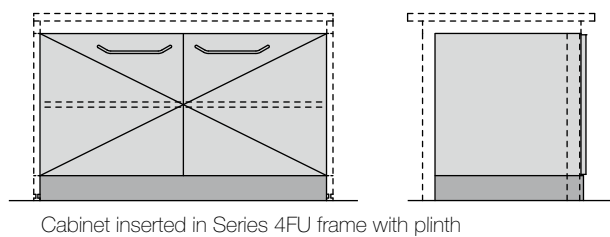
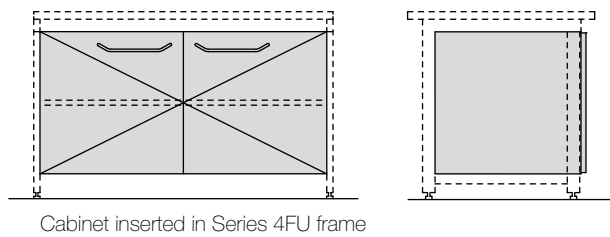
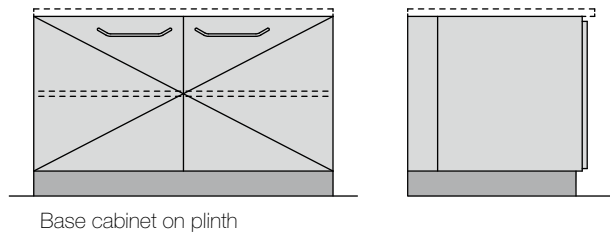
**Our cabinets come in various designs with a vast selection of drawers and doors.**

All cabinets are available in the following versions:

- for working height 750 mm
- for working height 900 mm
- depth 500 mm
- depth 600 mm



## Storage systems | 4.1 Under bench cabinets

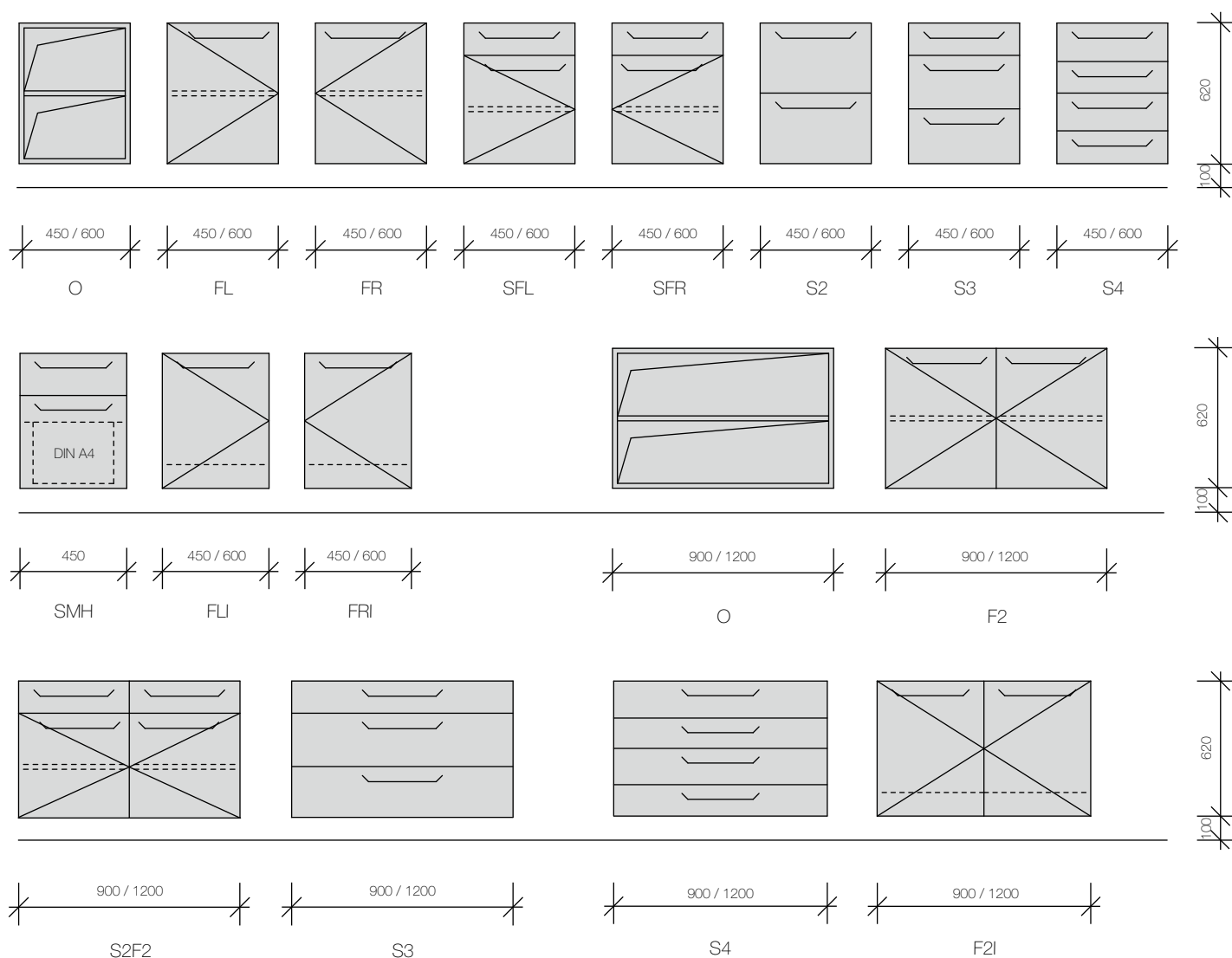


### Cabinet models

The various versions of the under bench cabinets are available in four different forms:

- Base cabinet on plinth as a substructure unit Series E
- Cabinet inserted in Series 4FU frame
- Cabinet inserted in Series 4FU frame with plinth
- Mobile on castors, combinable with Series 4FU and CFU, mobile side table available separately.

## Storage systems | 4.1 Under bench cabinets



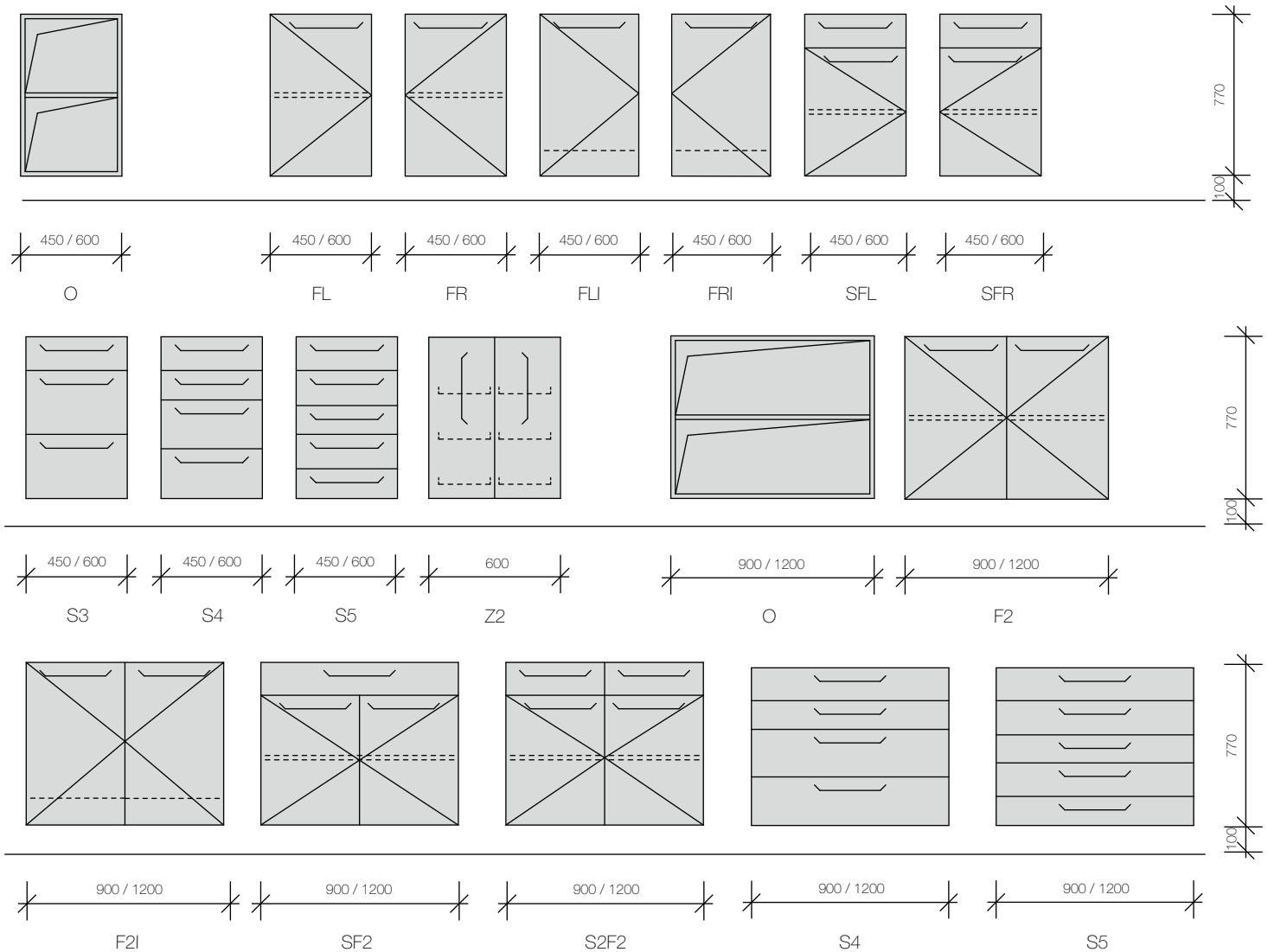
Under bench cabinets for seated working height of 750 mm

O	= open
FL	= single door, left hinged
FR	= single door, right hinged
SFL	= single drawer, single door, left hinged
SFR	= single drawer, single door, right hinged
S2	= 2 drawers
S3	= 3 drawers
S4	= 4 drawers
SMH	= single drawer, pencil tray, suspended filing system
FLI	= single door, left hinged, installation
FRI	= single door, right hinged, installation

F2	= double doors
S2F2	= 2 drawers, double doors
F2I	= double doors, installation

- Seated working height 750 mm
- Base depth 500/600 mm
- Plinth height 100 mm
- Option: label for pull
- Option: Lock

## Storage systems | 4.1 Under bench cabinets



Under bench cabinets for standing working height of 900 mm

O	= open
FL	= single door, left hinged
FR	= single door, right hinged
FLI	= single door, left hinged, installation
FRI	= single door, right hinged, installation
SFL	= single drawer, single door, left hinged
SFR	= single drawer, single door, right hinged
F2	= double doors
F2I	= double doors, installation
SF2	= single drawer, double doors
S2F2	= 2 drawers, double doors

Z2	= 2 pull-outs
S3	= 3 drawers
S4	= 4 drawers
S5	= 5 drawers

- Standing working height 900 mm
- Base depth 500/600 mm
- Plinth height 100 mm
- Option: label for pull
- Option: Lock

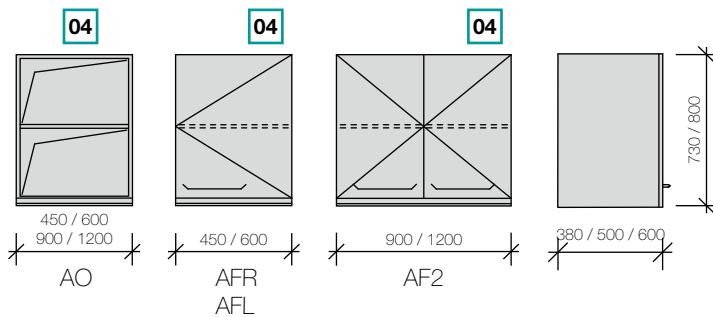
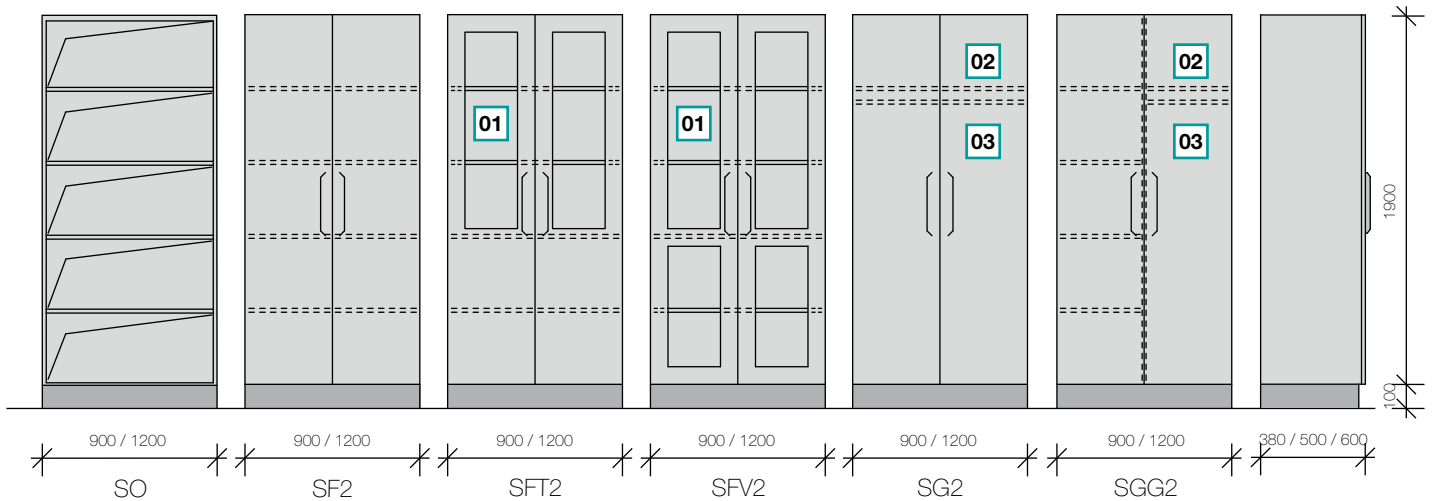
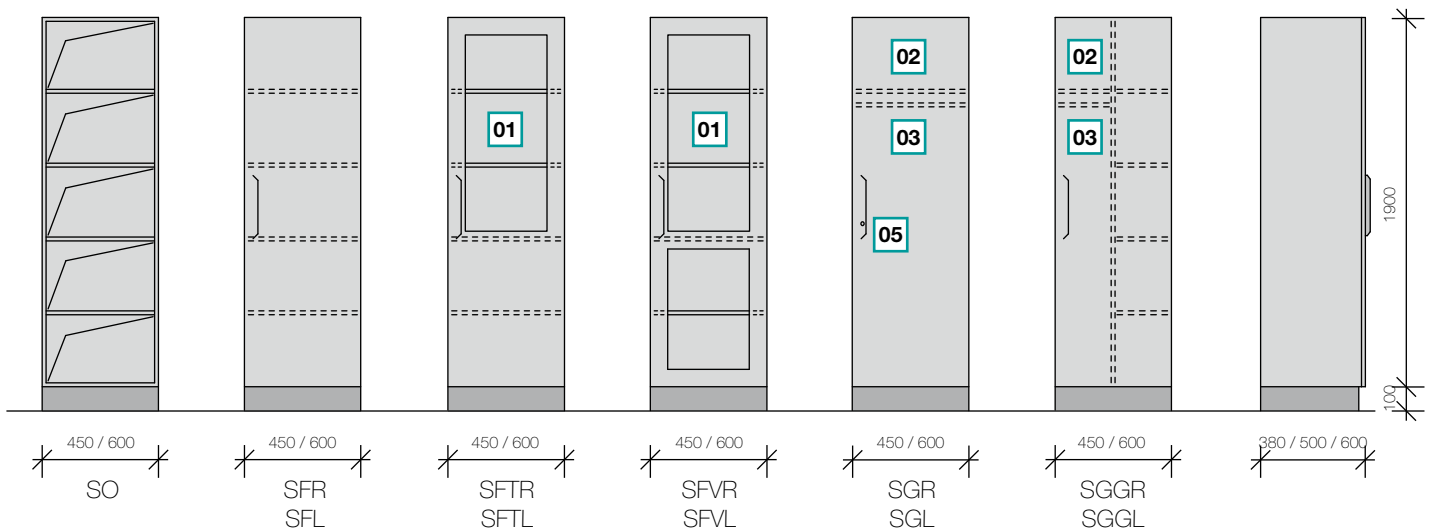
## Storage systems | 4.2 Tall cabinets / Top-mounted cabinets



**Our tall storage cabinets come with various accessories, including a guide rail, to make optimal use of space.**

- Stand-alone cabinets, wall units or room divider blocks
- Winged doors closed, glass-insert doors (partially or fully glazed)
- Top-mounted cabinets always with integrated aluminium guide rail saving space.
- Optional ladder with parking rail
- Wide range of accessories, variations and options available, such as extra shelves, pull drawers, internal drawers, suspended filing system, staggered drawers, etc.

## Storage systems | 4.2 Tall cabinets / Top-mounted cabinets



SO	tall cabinet open
SFR	tall cabinet, single door, right hinged
SFL	tall cabinet, single door, left hinged
SFTR	tall cabinet glass-insert door partially glazed, right hinged
SFTL	tall cabinet glass-insert door partially glazed, left hinged
SFVR	tall cabinet glass-insert door fully glazed, right hinged
SFVL	tall cabinet glass-insert door fully glazed, left hinged
SGR	tall cabinet, wardrobe, right hinged
SGGR	tall cabinet, wardrobe vertical division, right hinged
SGGL	tall cabinet, wardrobe vertical division, left hinged
SF2	tall cabinet, double doors
SFT2	tall cabinet, double glass-insert doors, partially glazed
SFV2	tall cabinet, double glass-insert doors, fully glazed
SG2	tall cabinet, wardrobe, double doors
AO	top-mounted cabinet, open
AFR	top-mounted cabinet, single door, right hinged
AFL	top-mounted cabinet, single door, left hinged
AF2	top-mounted cabinet, double doors

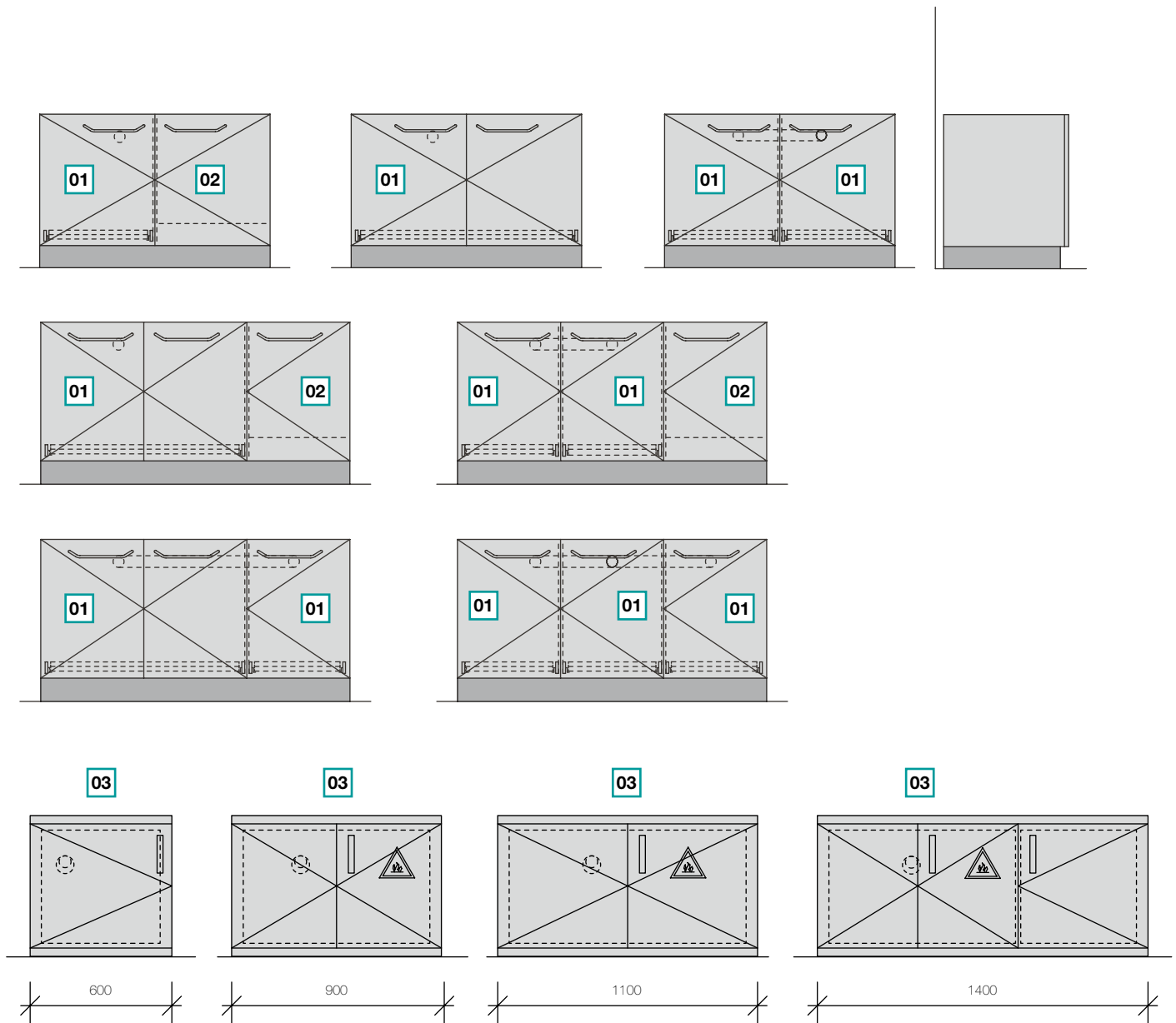
- 01** Option: Glazing with safety glass
- 02** Shelf
- 03** Garment rail
- 04** Option: without guide rail
- 05** Option: Lock, available for all tall cabinets

## Storage systems | 4.3 Under bench safety cabinets for hazardous materials storage



- Under bench safety cabinets for integration with bench fume cupboards
- Complete range of FWF 90 safety storage cabinets, in various sizes for storage of hazardous materials, in work rooms, in accordance with DIN EN 14470-1 (Type 90), and flammable liquids 20 (Annex L)
- Alkalis and acids cupboard with air extraction
- Wide range of accessories, variations and options available
- Design as required

## Storage systems | 4.3 Under bench safety cabinets for hazardous materials storage



Under bench safety cabinets

**01** Acid, alkali or chemicals,  
Option: Second shelf with drip tray

**02** Installation compartment  
Option: Shelf

**03** FWF 90 safety storage cabinet  
according to DIN EN 14470-101



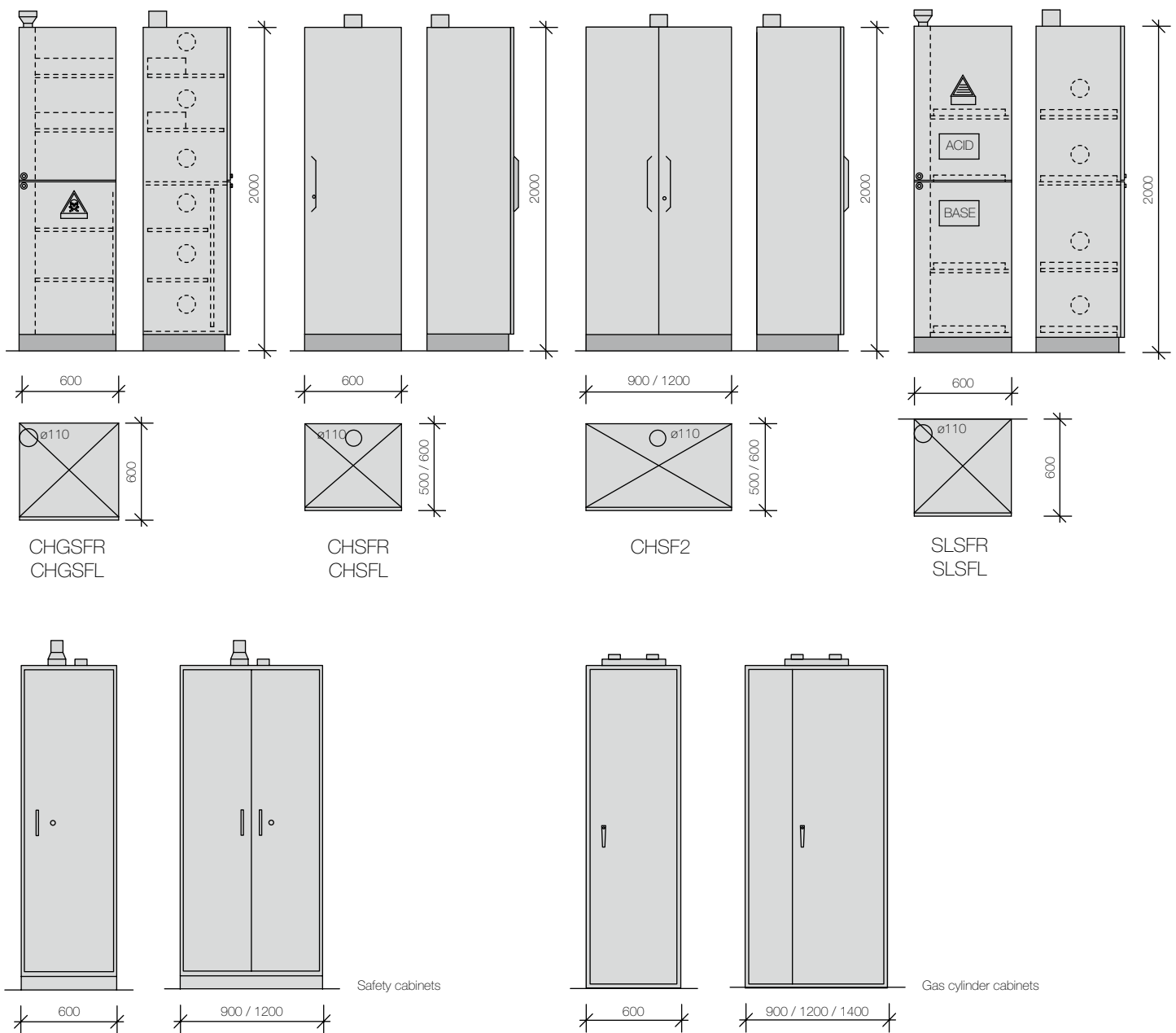
## Storage systems| 4.4 Safety cabinets for hazardous materials storage



**We supply various hazardous materials storage cabinets for your individual requirements.**

- Safety cabinets integrated in wall unit
- Complete range of FWF90 safety storage cabinets in various sizes for storage of hazardous materials, in work rooms, in accordance with DIN EN 14470-1 (Type 90) and flammable liquids 20 (Annex L)
- Alkalies and acids cabinet with individual compartment air extractor
- G90 fire-resistant gas cylinder cabinets in various sizes, with and without pipework installation as well as gas shortage indicator and / or gas detection system
- Wide range of accessories, variations and options available
- Design as required

## Storage systems| 4.4 Safety cabinets for hazardous material storage



### Safety cabinets for hazardous materials storage

- CHGSFR chemicals and poison storage cabinet, single door, right hinged
- CHGSFL chemicals and poison storage cabinet, single door, left hinged
- CHSFR chemical storage cabinet, single door, right hinged
- CHSFL chemical storage cabinet, single door, left hinged
- CHSF2 chemical storage cabinet, double doors

- SLSFR acid and alkali storage cabinet, single door, right hinged
- SLSFL acid and alkali storage cabinet, single door, left hinged

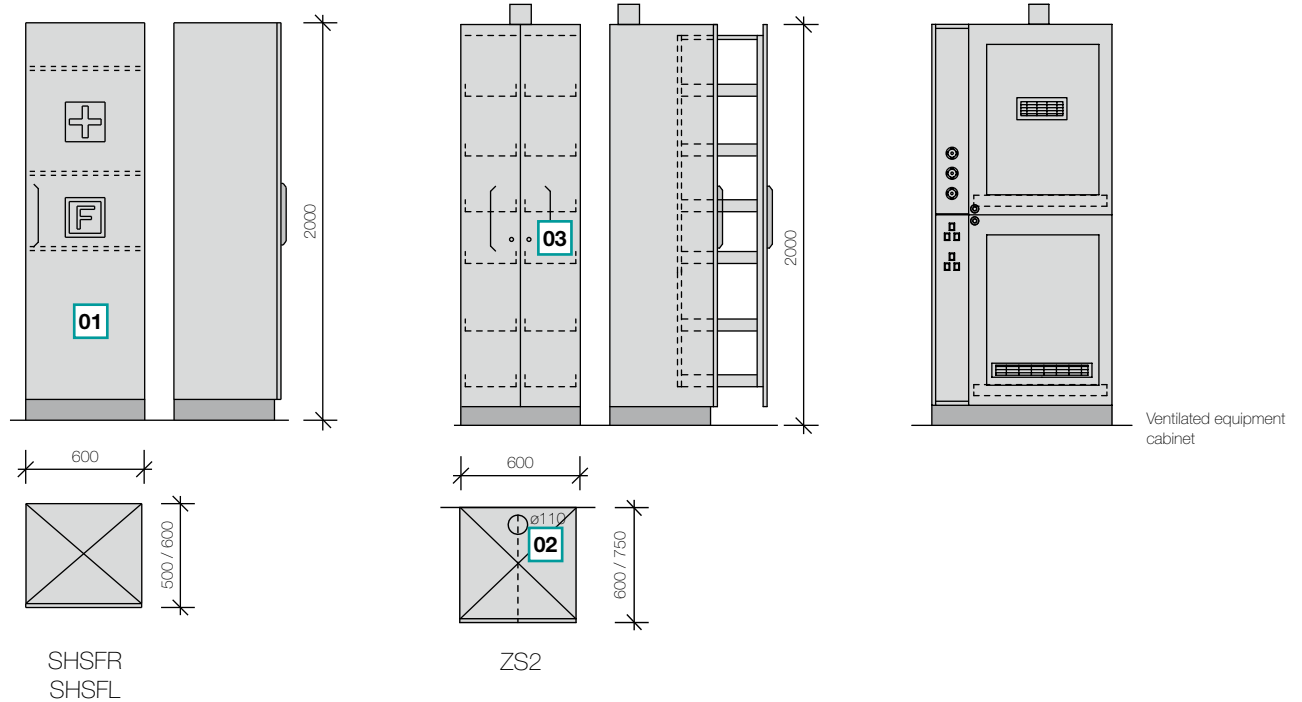
## Storage systems | 4.5 Special cabinets



### For all special uses

- Pull-out cabinet in two depths
- Pull-out cabinet accessible from both sides
- Option: with air extractor
- Emergency cabinet including safety equipment
- Equipment cabinet ventilated
- Electrical and mechanical services possible
- For devices such as rotary evaporators, ovens, analysis equipment, etc.

## Storage systems | 4.5 Special cabinets



- SHSFR emergency cabinet, single door, right hinged  
 SHSFL emergency cabinet, single door, left hinged  
 ZS2 2 Pull-out cabinet, 2 full-height drawers

Special cabinets

- 01** Option: safety equipment, 1 first aid box 400 x 350 x 110, 1 fire extinguisher 12 kg, 2 fire blankets, 2 sand buckets, 1 sand shovel, 1 instructions for first aid
- 02** Option: Extractor connection Ø 110 mm
- 03** Option: Lock, available for all tall cabinets

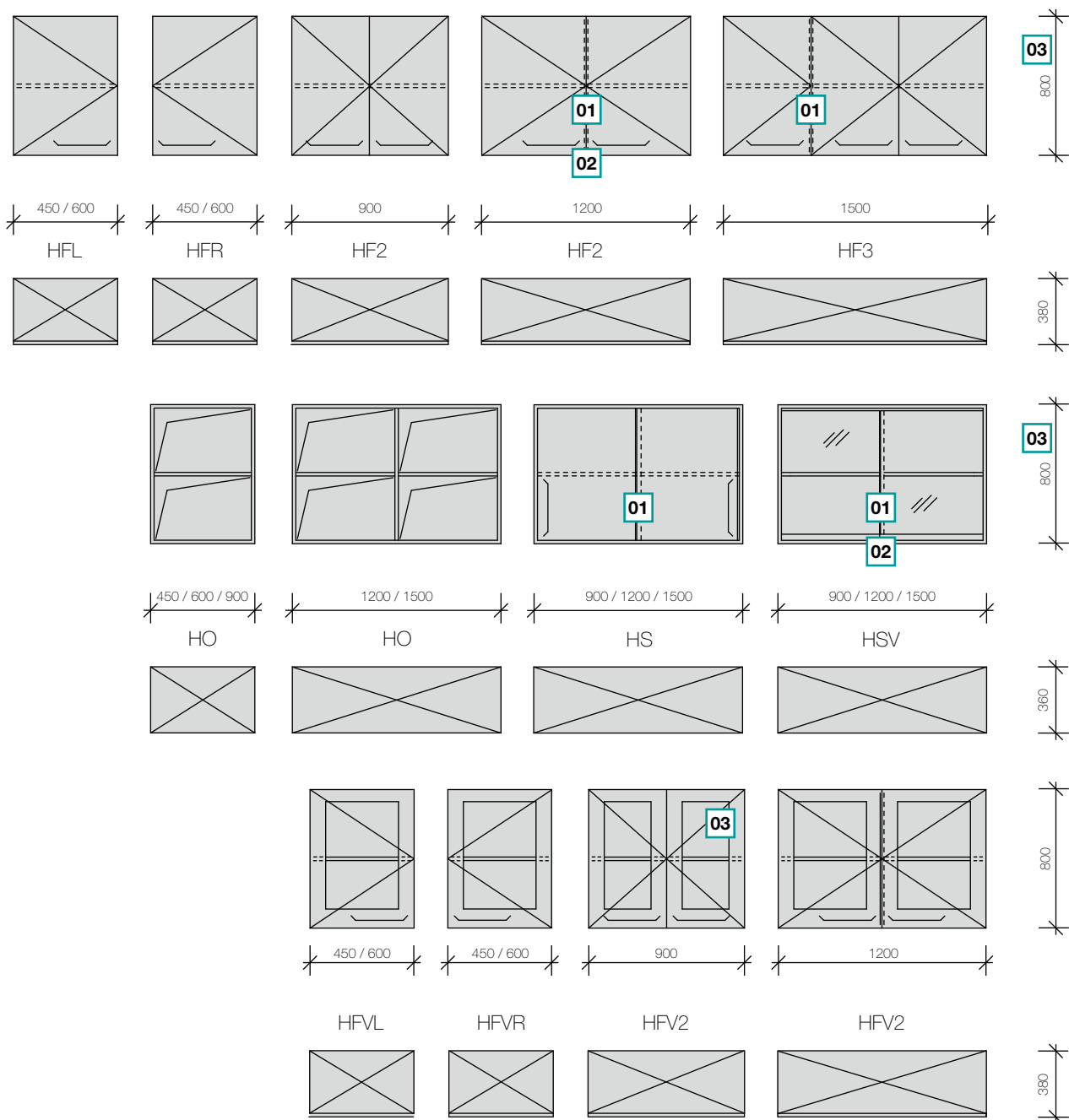
## Storage systems | 4.6 Wall / overbench cabinets



**We supply wall units either open or with various door models.**

- Various types of doors, depending on requirements
- Can be combined with the following service systems: wall working table, double working table, standing bridge
- Option: Integrated ladder rail
- Standard: 2 file heights
- Option: Heights as required

## Storage systems | 4.6 Wall / overbench cabinets



HO	wall/overbench shelf, open
HFL	wall/overbench cabinet, single door, left hinged
HFR	wall/overbench cabinet, single door, right hinged
HF2	wall/overbench cabinet, double doors
HF3	wall/overbench cabinet, 3 doors
HSV	wall/overbench cabinet, fully glazed sliding doors
HS	wall/overbench cabinet, sliding doors
HFVL	wall/overbench cabinet, single glass-insert door, fully glazed, left hinged
HFVR	wall/overbench cabinet, single glass-insert door, fully glazed, right hinged
HFV2	wall/overbench cabinet, double glass-insert doors, fully glazed

- 01** Wall/overbench units from Frame size 1200, wall/overbench units with sliding doors from Frame size 900 generally with centre partition
- 02** Option: integrated ladder rail for wall/overbench cabinets (bottom edge higher than 2000 mm above floor)
- 03** Option: Special heights available







## Furnishing samples

## Furnishing samples

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MEDIZINISCHES FORSCHUNGSZENTRUM, ESSEN, GERMANY

## Furnishing samples



BIOTECHNICUM, FACHHOCHSCHULE LÜBECK, GERMANY

## Furnishing samples



BIOTECHNICUM, FACHHOCHSCHULE LÜBECK, GERMANY



## Furnishing samples



MÜNSTER ELECTROCHEMICAL ENERGY TECHNOLOGY, MÜNSTER, GERMANY





## Furnishing samples



WISSENSCHAFTSZENTRUM, STRAUBING, GERMANY

## Furnishing samples



CLEMENS-WINKLER-BAU, FREIBERG, GERMANY

## Furnishing samples



CLEMENS-WINKLER-BAU, FREIBERG, GERMANY





## Furnishing samples



INSTITUT FÜR PHARMAZIE UND LEBENSMITTELCHEMIE, UNIVERSITÄT WÜRZBURG, GERMANY

## Furnishing samples



FORSCHUNGSZENTRUM CECAD AN DER UNIVERSITÄT ZU KÖLN UND UNIKLINIK KÖLN, GERMANY



Furnishing samples







INSTITUT FÜR PHARMAZIE UND LEBENSMITTELCHEMIE, UNIVERSITÄT WÜRZBURG, GERMANY

Furnishing samples





PHILIPPS-UNIVERSITÄT MARBUG, GERMANY



## Main facilities Syke

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### **Wesemann GmbH** – Headquarters

Max-Planck-Strasse 15–25  
28857 Syke  
Germany

Fon: +49 42 42 594-480  
Fax: +49 42 42 594-333  
E-Mail: [info@wesemann.com](mailto:info@wesemann.com)



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[www.wesemann.com](http://www.wesemann.com)

**Wesemann GmbH** – Headquarters

Max-Planck-Strasse 15–25  
28857 Syke  
Germany

Fon: +49 42 42 594-480  
Fax: +49 42 42 594-333  
E-Mail: [info@wesemann.com](mailto:info@wesemann.com)

