

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 40,000 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

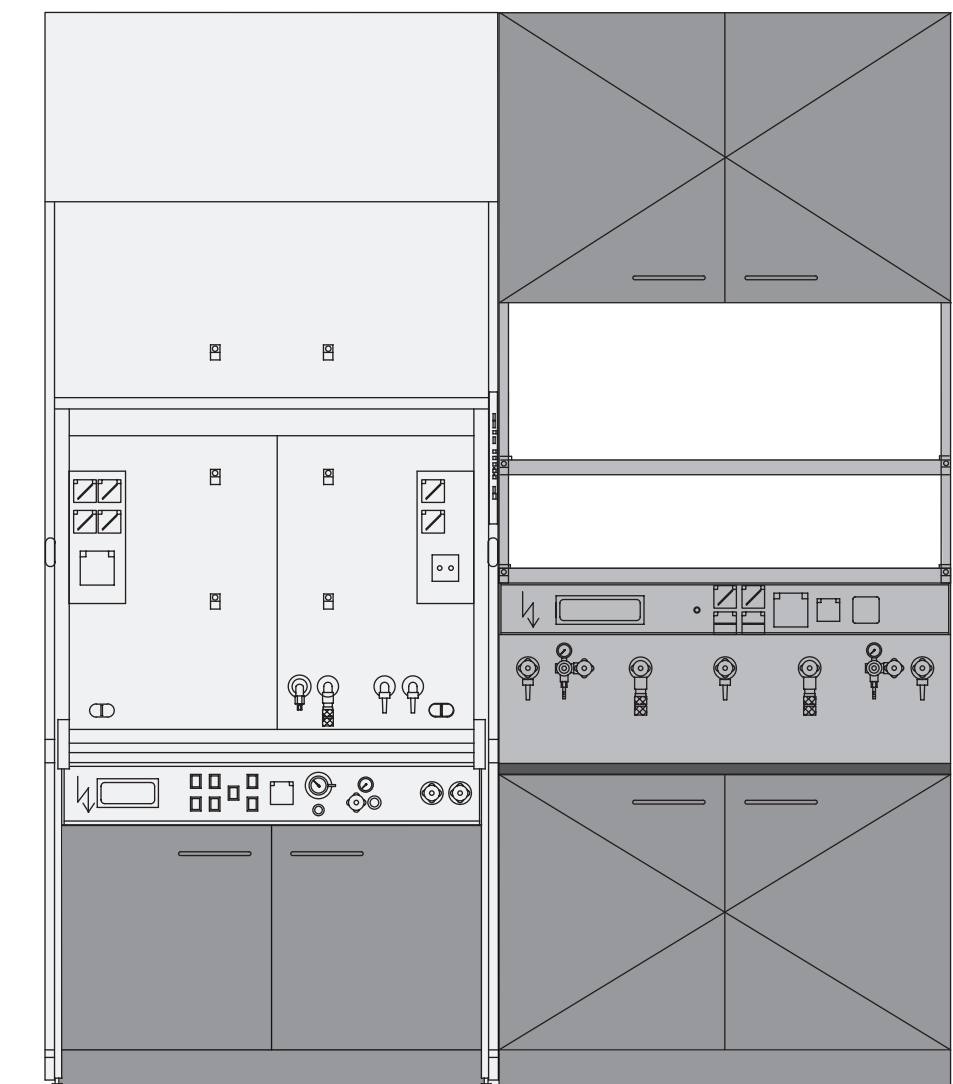
Outstanding products

Customer demands for quality and safety are growing steadily. As a modern company, we have made these challenges our own goal. Our 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. Wesemann made the conscious decision to emphasize the objective to take over a pioneering role in our industry with regard to environmental protection and sustainability as well as focusing on the well-being of all people working on our company premises or on any construction site. Therefore Wesemann is operating in addition an OHSAS 18001 (Health & Safety) and an ISO 14001 (Environmental) Management system.



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.

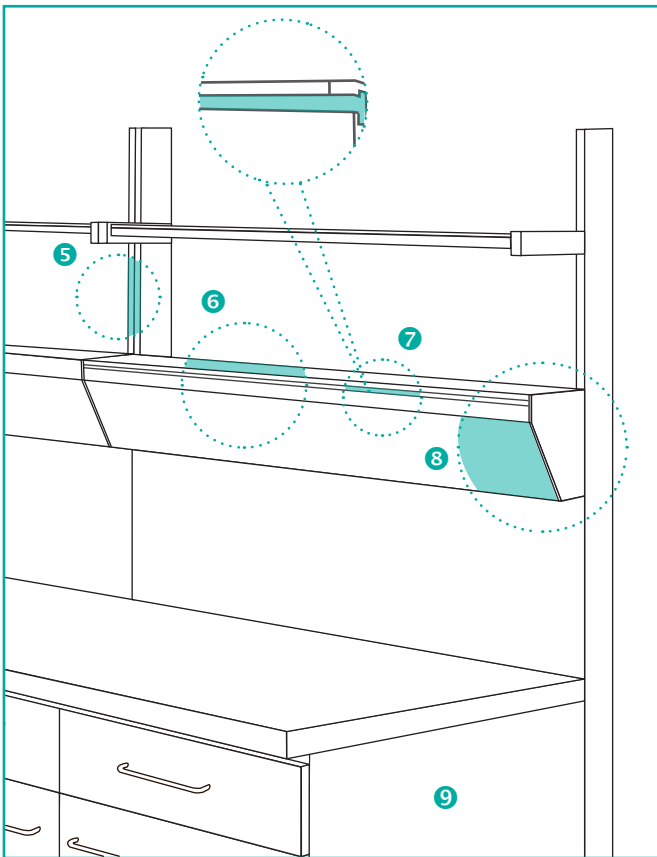
Table systems

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

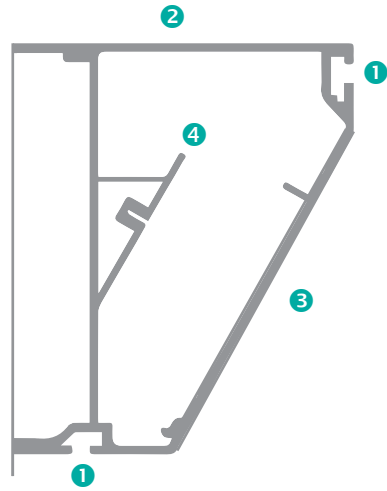
Our furnishing systems for laboratories are divided essentially into the following four system components: fume cupboard systems, service systems, table systems and storage systems. In each system, there are various easily combinable designs. Thus, it is possible to design a laboratory, perfectly tailored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

Product benefits

Overview system



„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.“

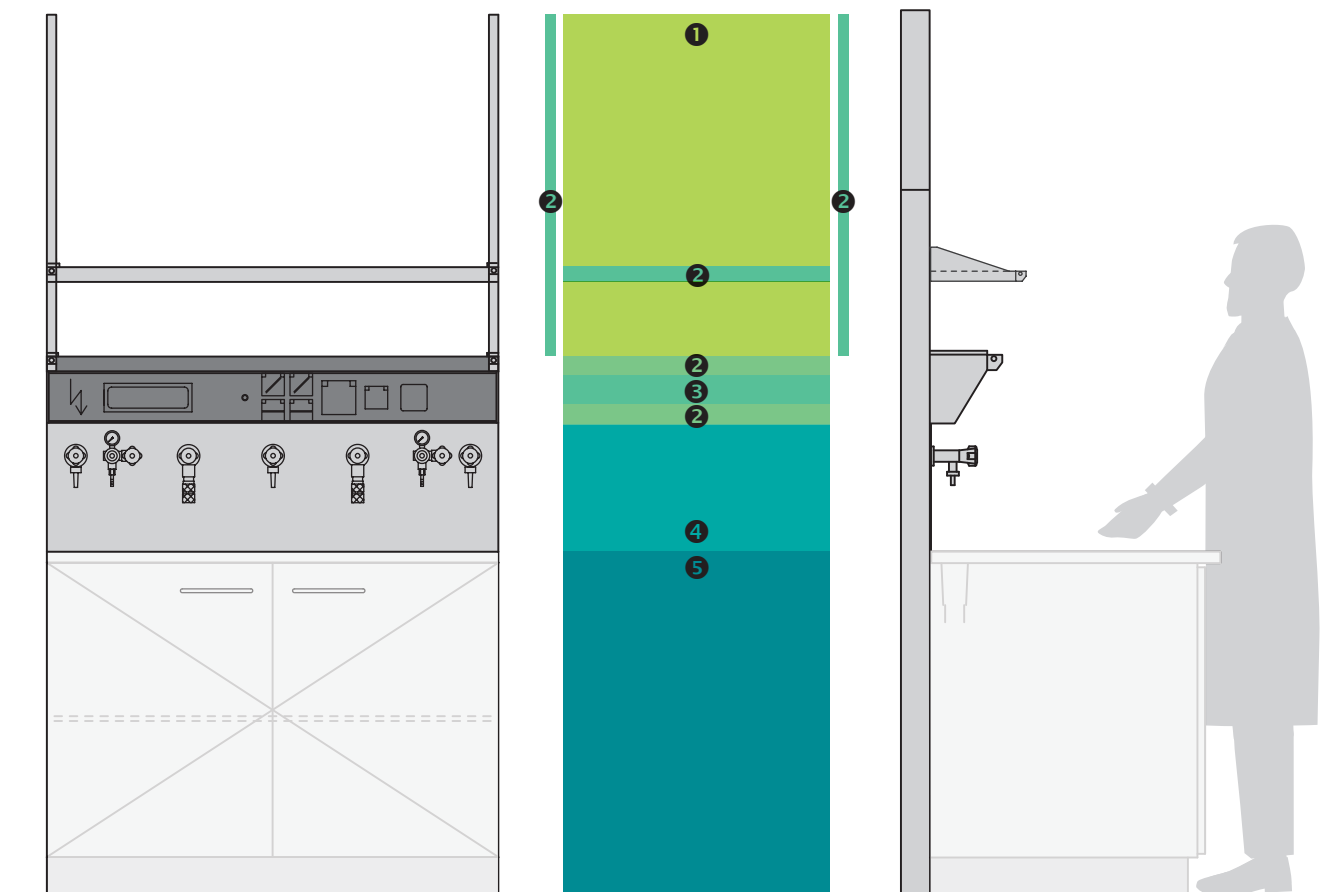


- 1** Functional grooves
for accessories and 3D tripod holder
- 2** Reagents tray
with glass overlay
- 3** Duct cover
for electrical service outlets/sockets
- 4** Full-length spine stand
with accessory groove
- 5** Separator
for the separation of data-/electrical lines
- 6** Reagents tray
for the best possible use of space
- 7** Integrated functional grooves
for individual organization of the work environment
(also optional sealed)
- 8** 30° slanted duct
optimal accessibility of the controls
- 9** Optimized storage and utility space
for efficient organization of work equipment

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 frontcover, 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.

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

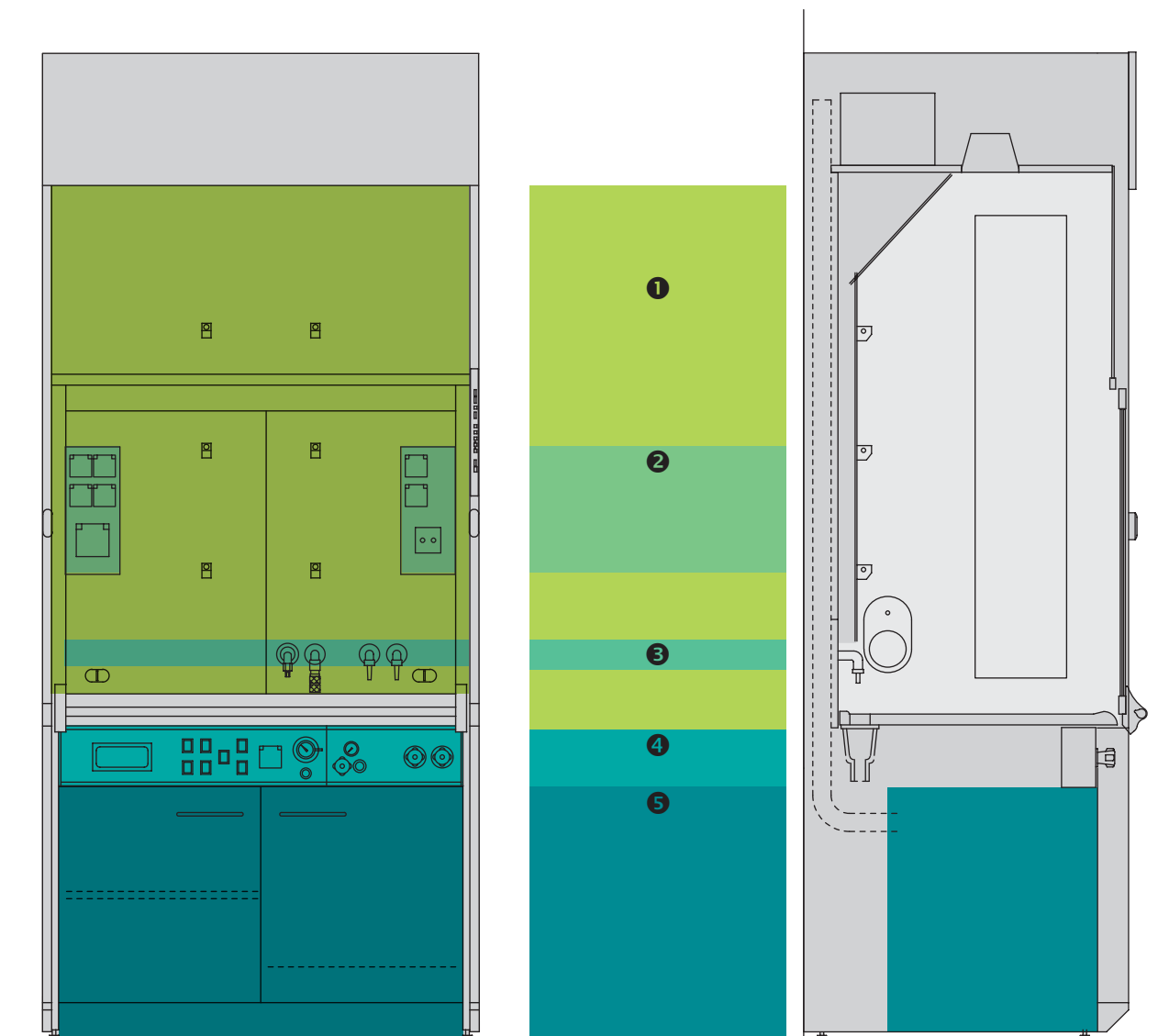
Representation of the functional levels



Details

System design fume cupboards

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-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
- Electric panels on either side of the interior, positioning the drip cup left and/or right possible
- 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)
- Wide range of accessories, and options



- 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
- Due to the reduced energy consumption, correspondingly low operating costs with unchanged high safety level are achieved
- 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

- 33%

**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 support 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 



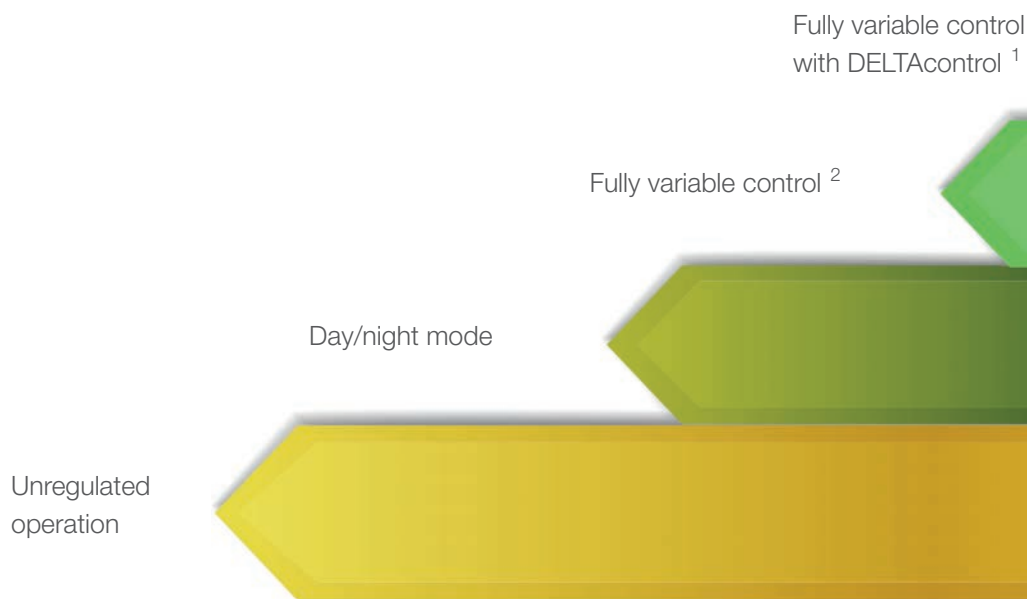
¹ Taking a simultaneity of 10% into account, i.e. in the case of 10% of the fume cupboards the sashes are open and in 90% of fume cupboards the shashes are closed.

² 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 shashes are closed.

DELTAcontrol

Saving energy made easy

Suitable for all DELTA 30
fume cupboard types



COMPARISON OF ENERGY SAVING OPTIONS

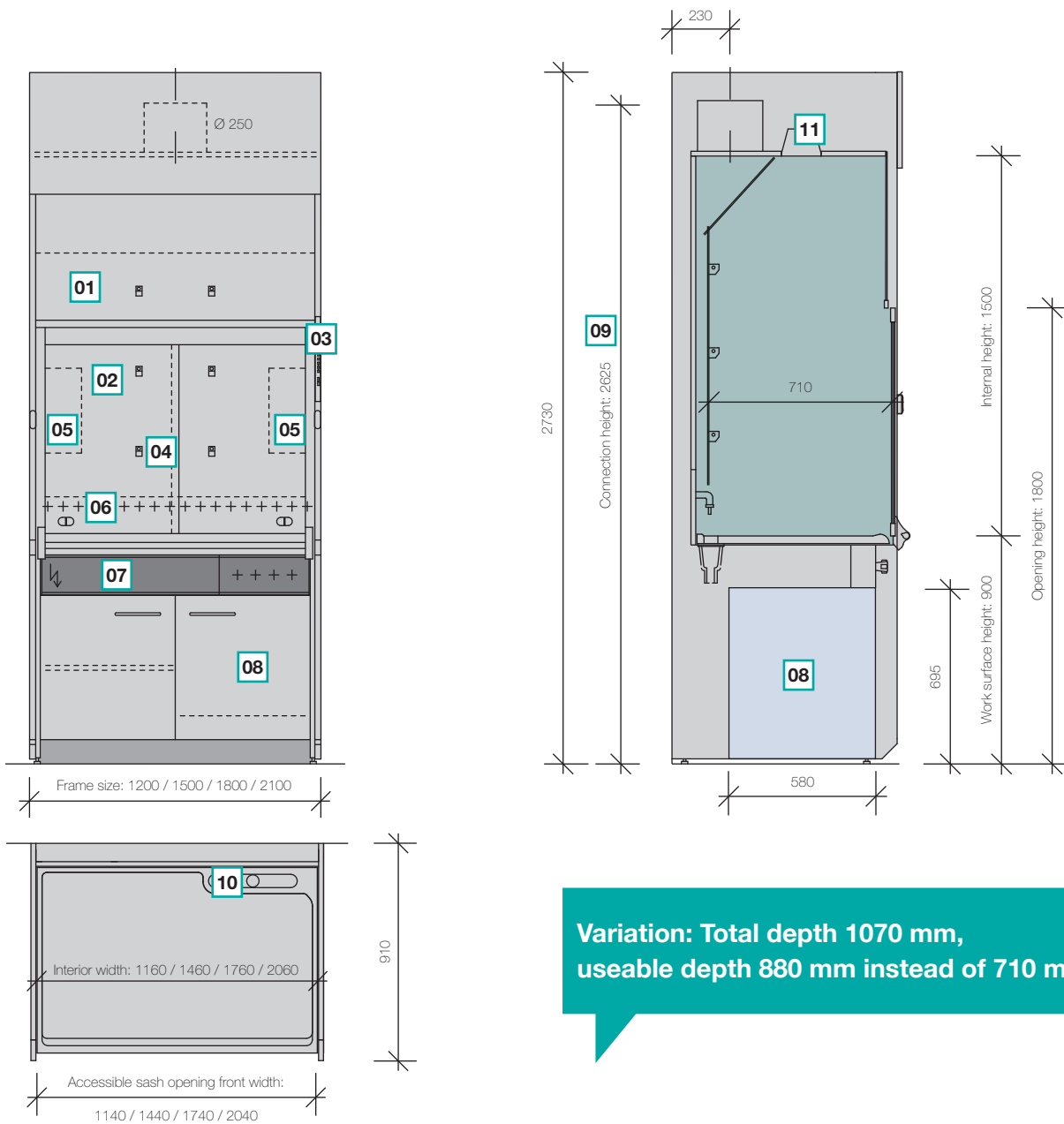
- Controlled air volume, corresponding to the free inflow in vertical, horizontal or combined sash opening
- Maintenance-free and self-cleansing measuring system with little loss of pressure, optional Venturi measuring system
- Energy saving, and improving work safety, without restricting usability
- 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
- Intuitive opening and closing of the sash by tapping

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**

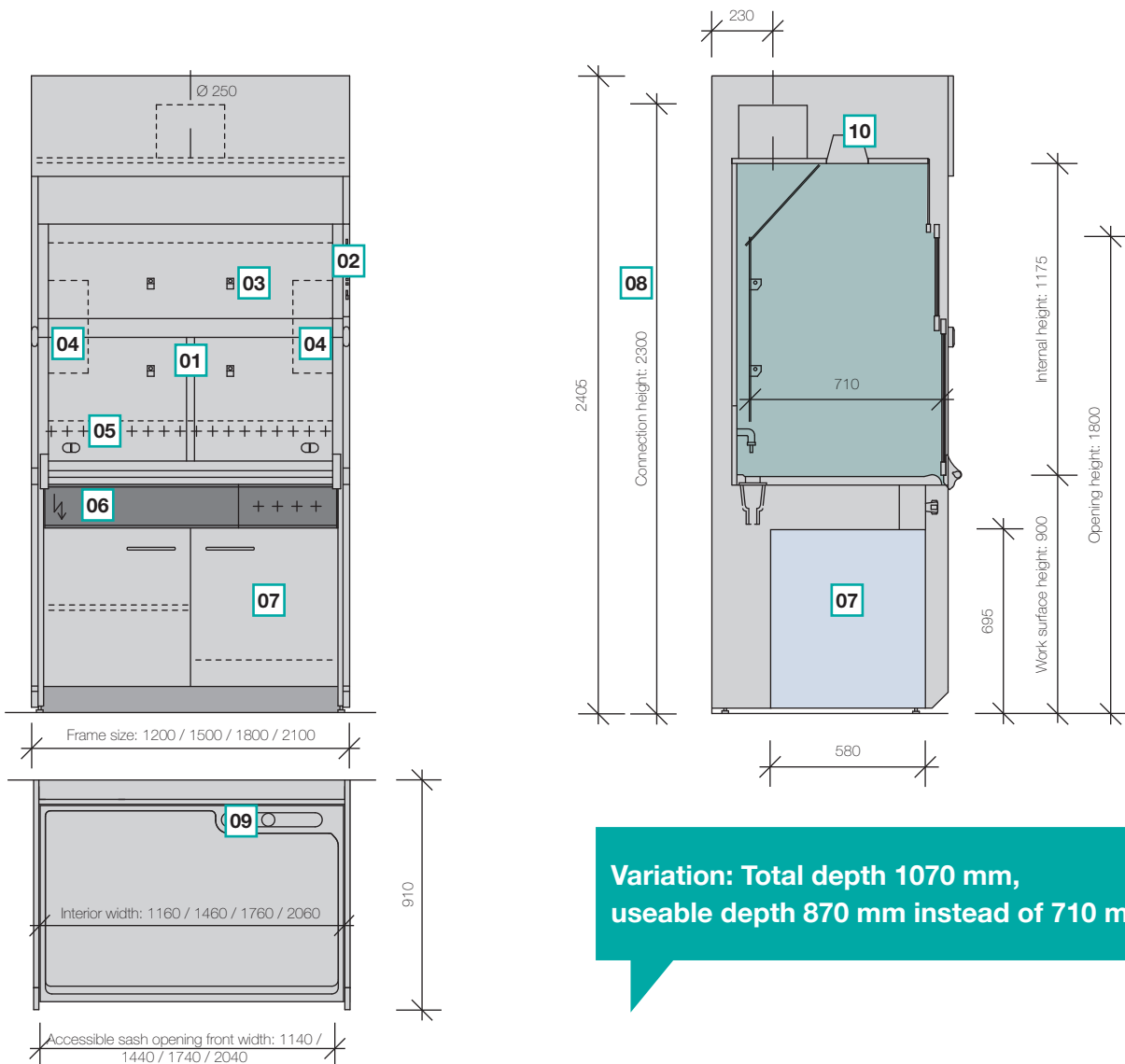
- 01** Upper part glazed with fixed screen or optionally 2 cross slides
- 02** Option: sash with 3/4 cross slides
- 03** Fume cupboard functional monitoring display
- 04** 3 series of tripod rod holders
- 05** Option: Internal sockets, switched from the outside
- 06** Service fitting points
- 07** Aluminium duct with electrical service outlets and front control valves
- 08** Option: Under bench cabinet or safety store cabinet
- 09** Option: Fume cupboard controller 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

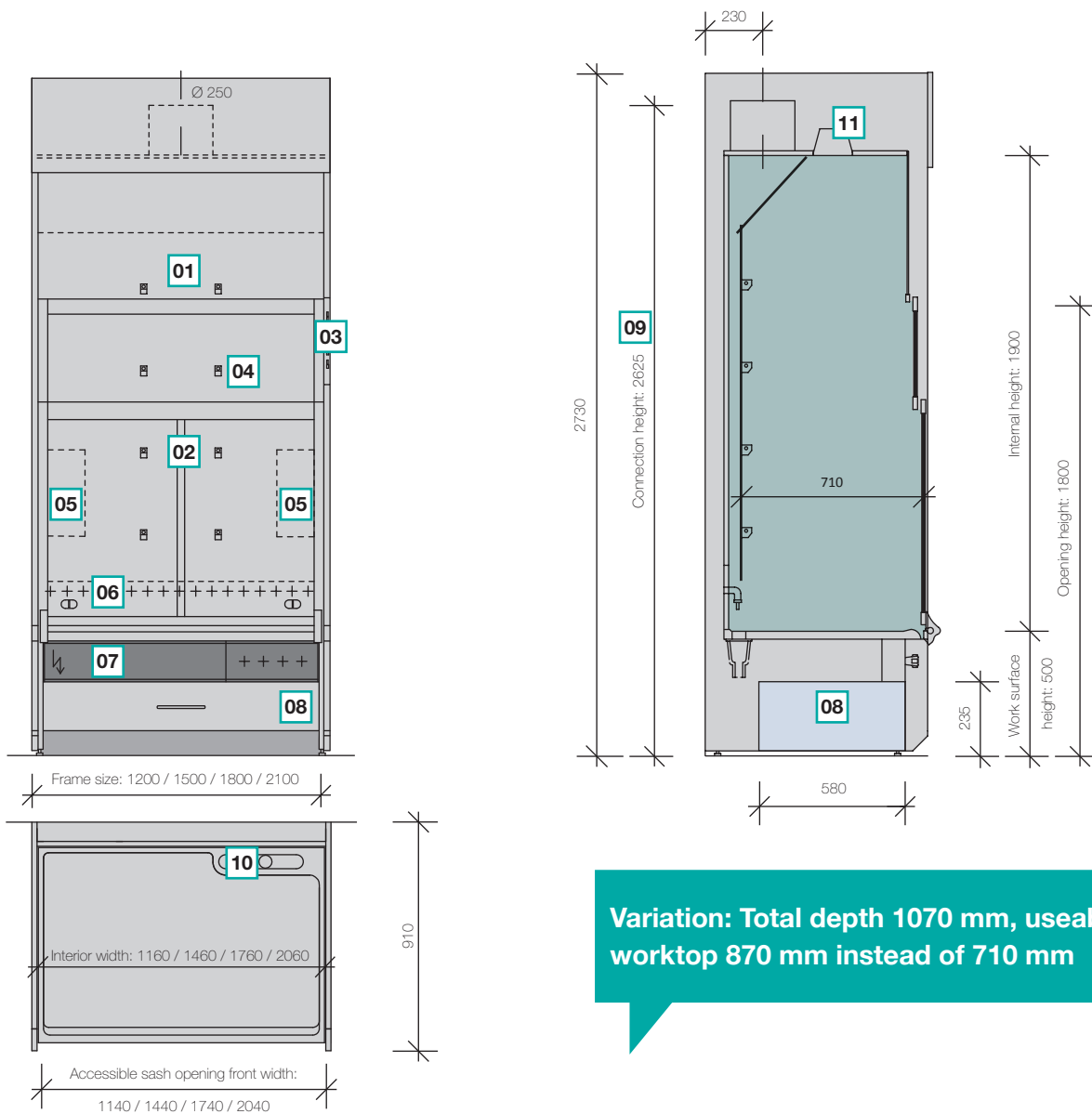
- 01** Option: Sash with 3/4 cross slides
- 02** Fume cupboard functional monitoring display
- 03** 2 rows tripod rod holder
- 04** Option: Internal sockets, switched outside
- 05** Service fitting points
- 06** Aluminium duct with electrical service outlets and front control valves
- 07** Option: Under 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



- 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** 4 rows tripod rod holder
- 05** Option: Internal sockets, switched outside
- 06** Service fitting points

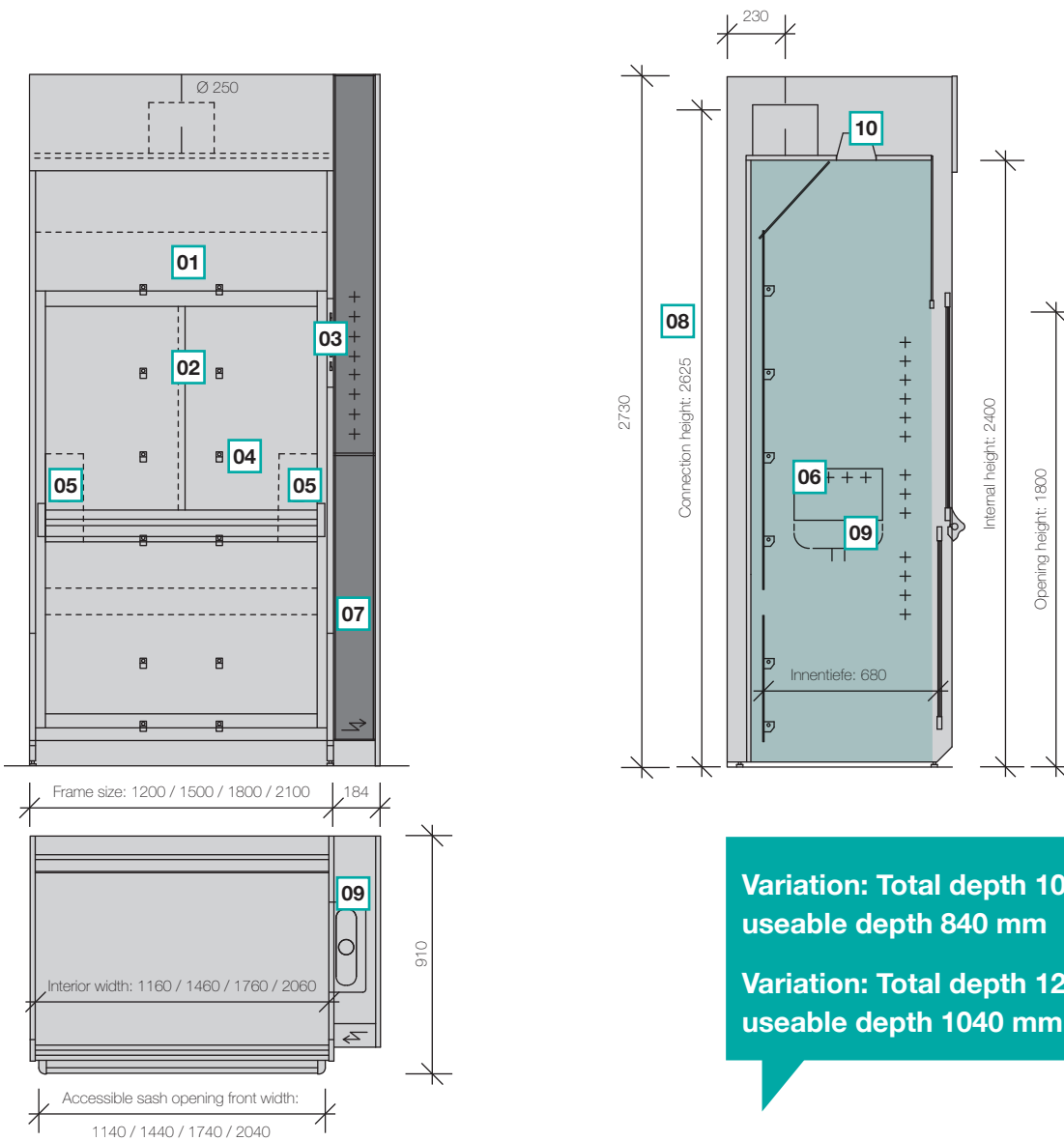
- 07** Aluminium duct with electrical service outlets and front control valves
- 08** Option: with base cabinet
- 09** Option: Fume hood controller (damper and high-speed actuator) 2820 mm Connection height
- 10** Option: Drip cup
- 11** Lighting

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



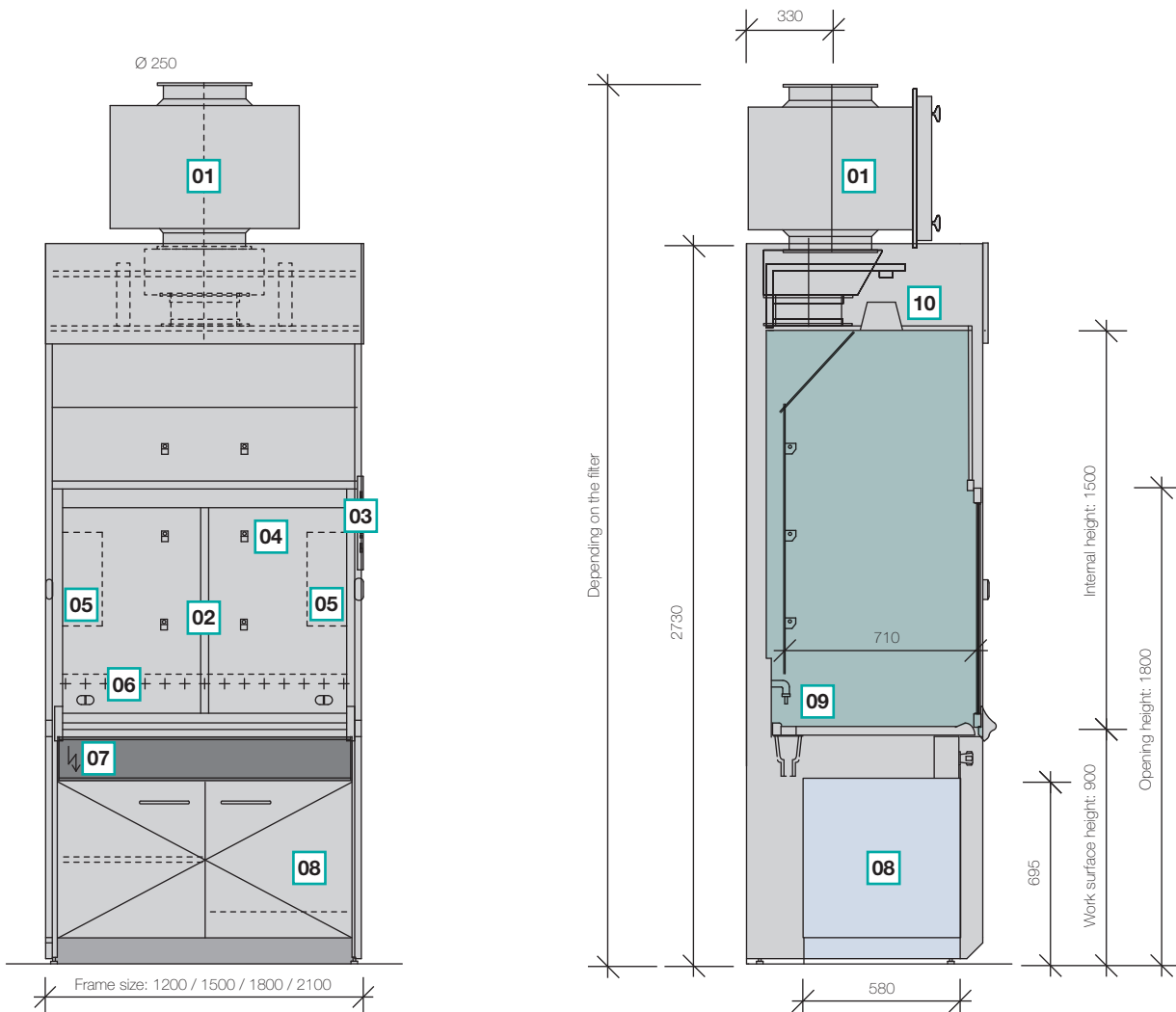
**Variation: Total depth 1070 mm,
useable depth 840 mm**

**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

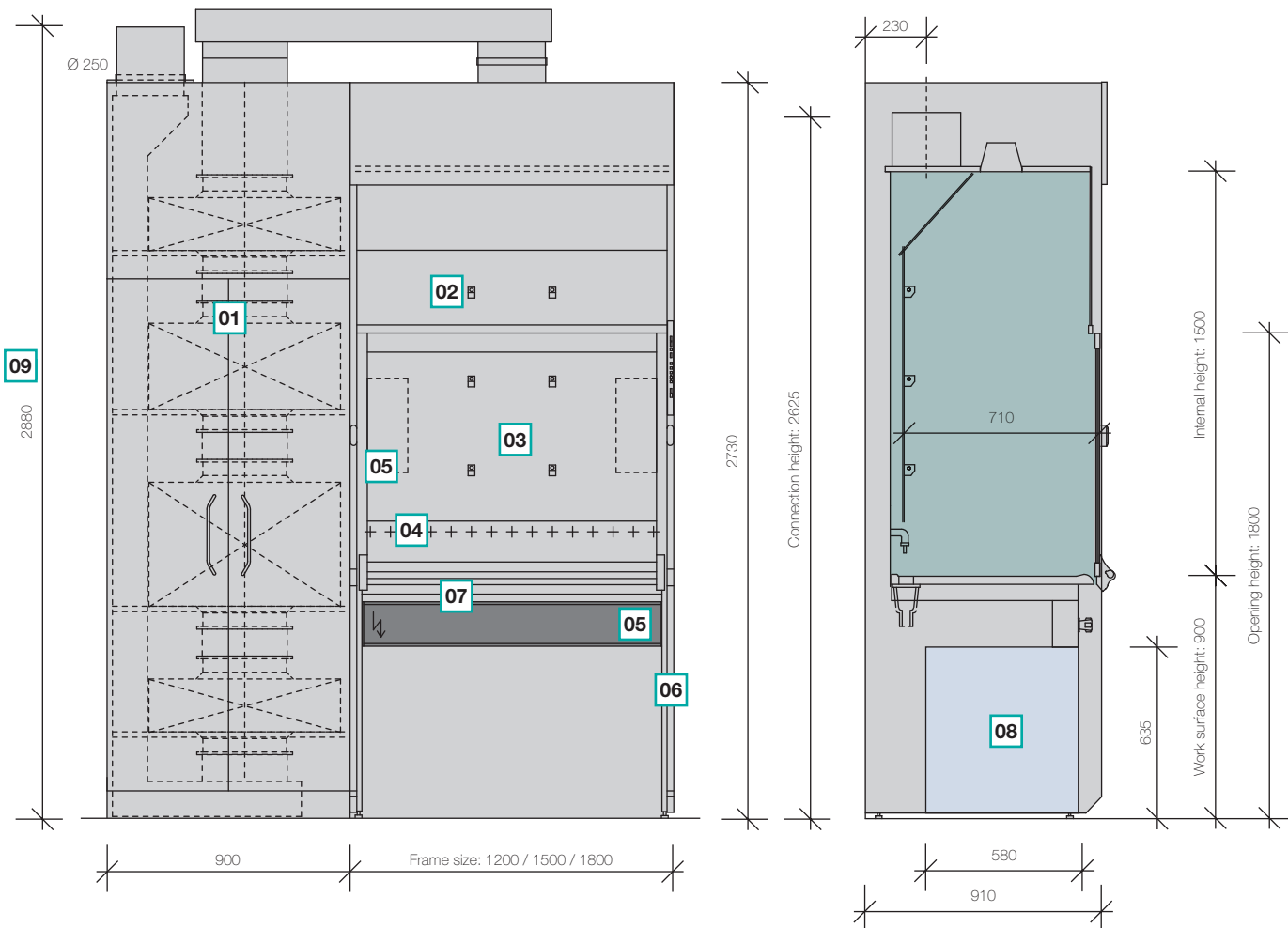


Variation: Overall depth 1070 mm, Useable depth working surface 880 mm instead of 720 mm

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

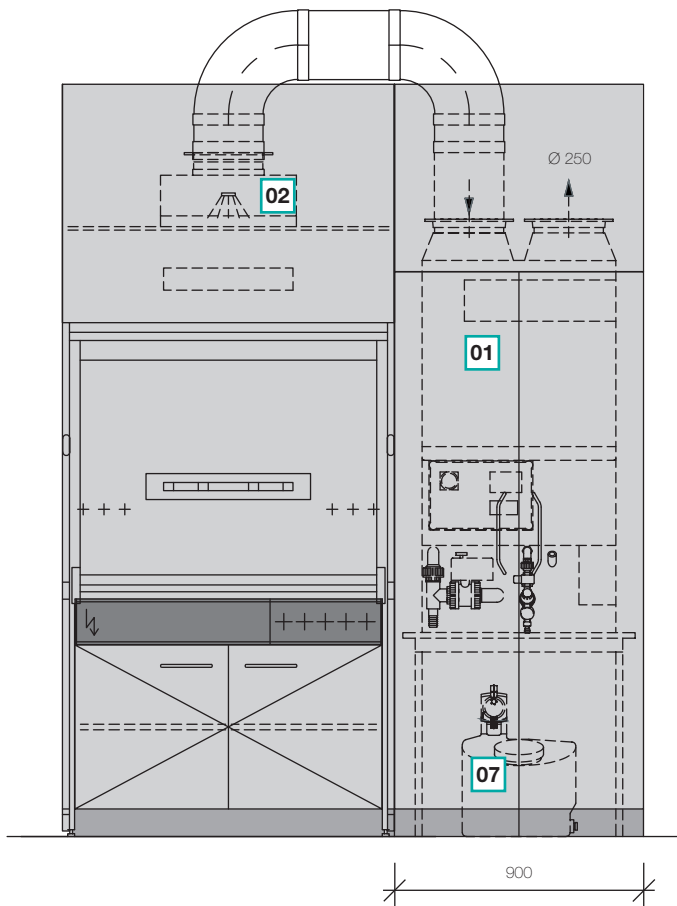
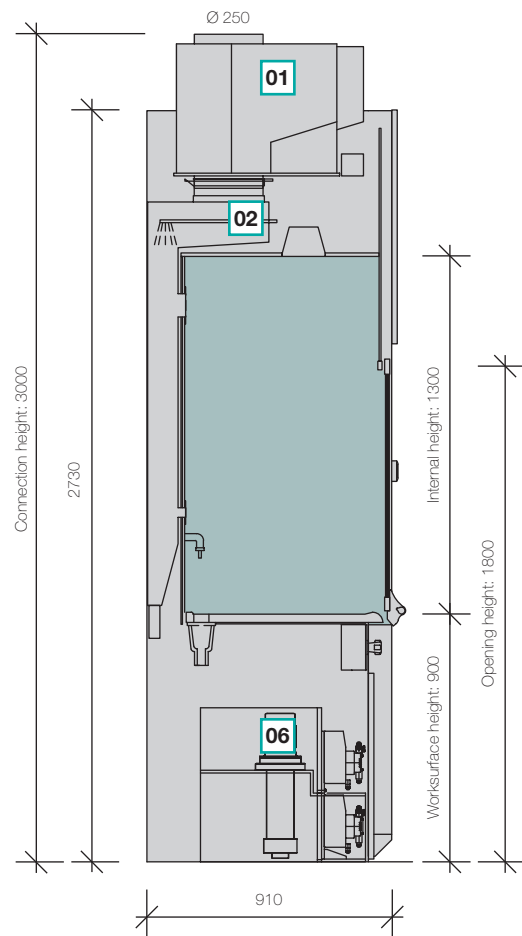
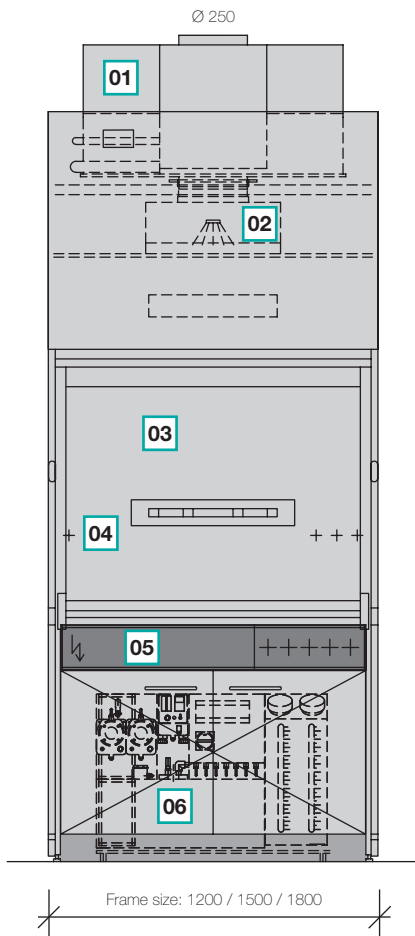
- Fume cupboard for the handling of unsealed radioactive materials in accordance with DIN 25466:2012-08

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



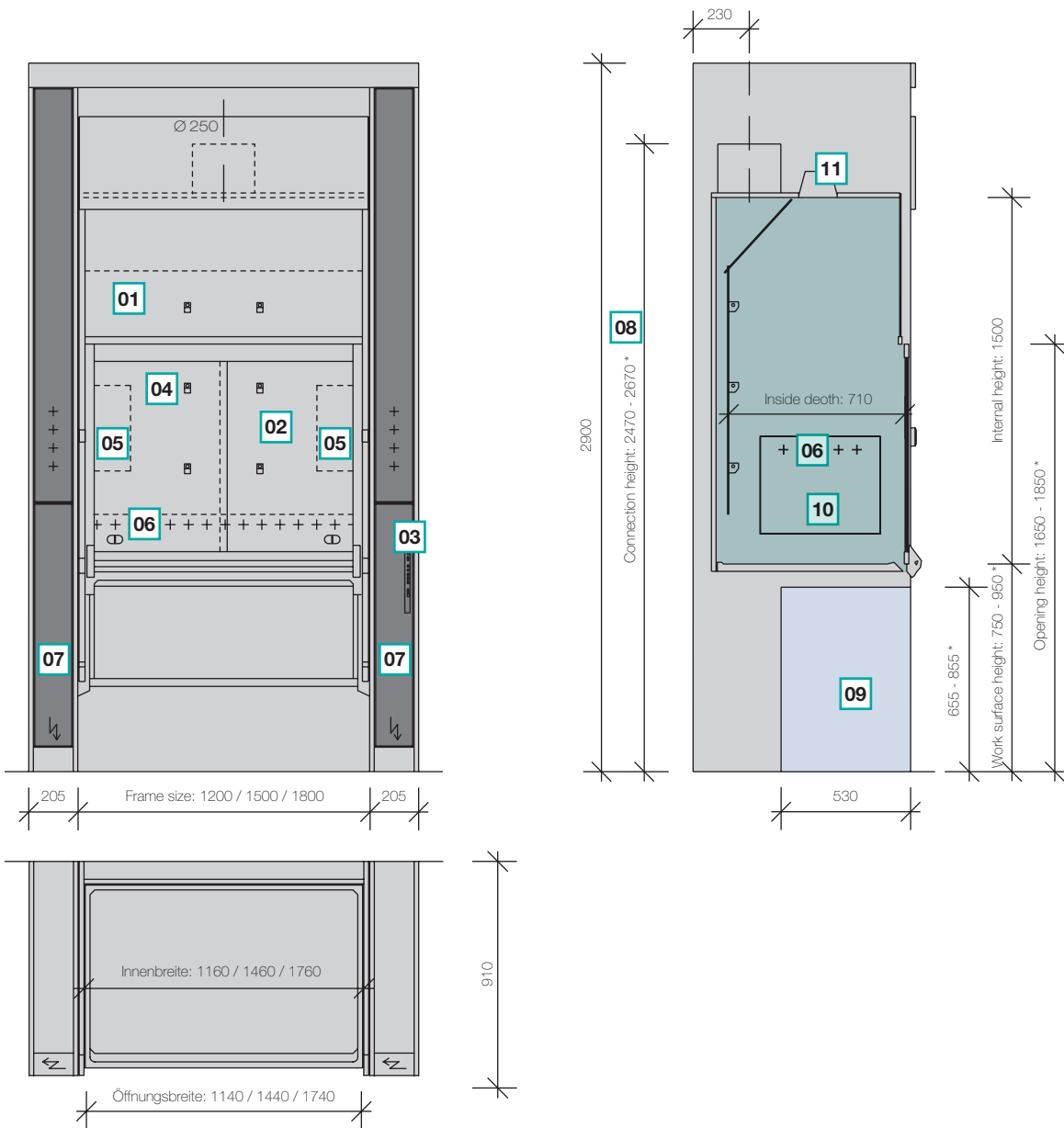
Also available as
PROTECT model.



- 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

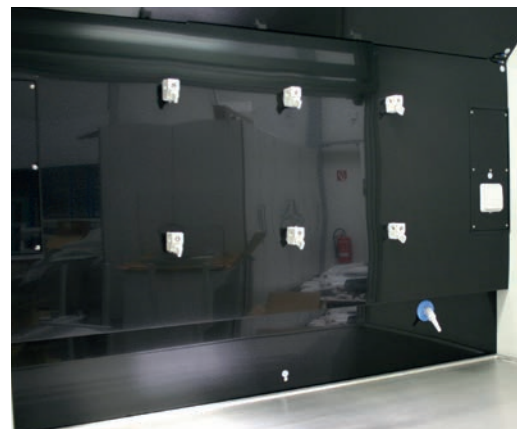
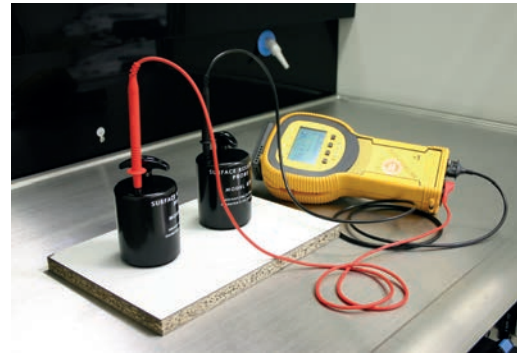
Fume cupboard systems | 1.8 DELTAcare fume cupboard




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

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

Fume cupboard systems | 1.9 DELTAguard Ex fume cupboard

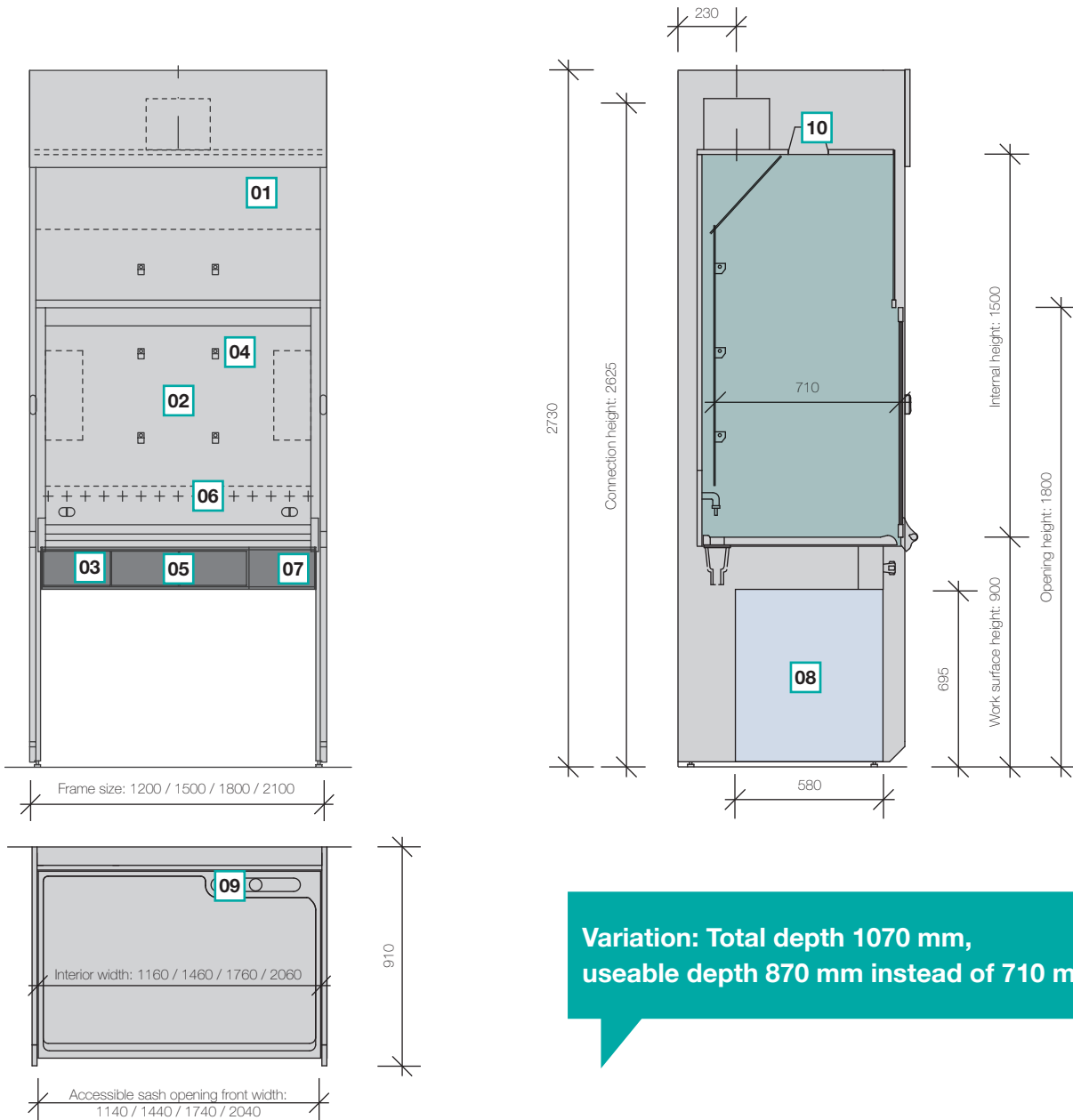


- Certified in accordance with Directive 94/9/EC
- Consistently running conformity assessment procedures
- Intended for use in potentially explosive atmospheres (within an EX-Zone 1 and 2) with the equipment category  II 2(3) G
- Effective ignition sources are reliably avoided

by the design of the fume cupboard, so that no explosive atmosphere can ignite

- All surfaces are electrically conductive and grounded

Fume cupboard systems | 1.9 DELTAguard Ex-fume cupboard



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

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

Fume cupboard systems | 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



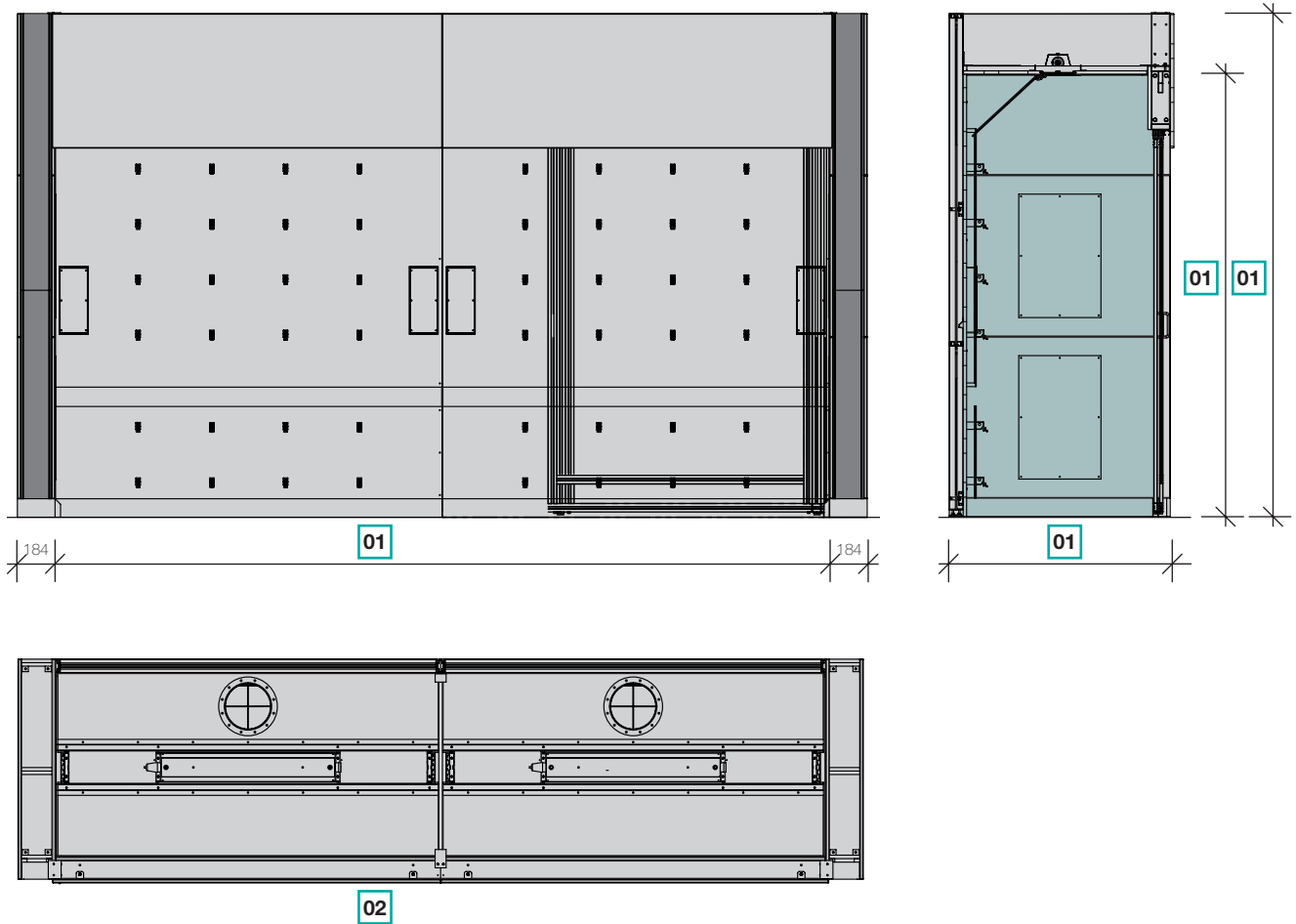
- Universal demonstration fume cupboard (with excellent visibility)

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) <math>< 10 \mu\text{g}/\text{m}^3</math> 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

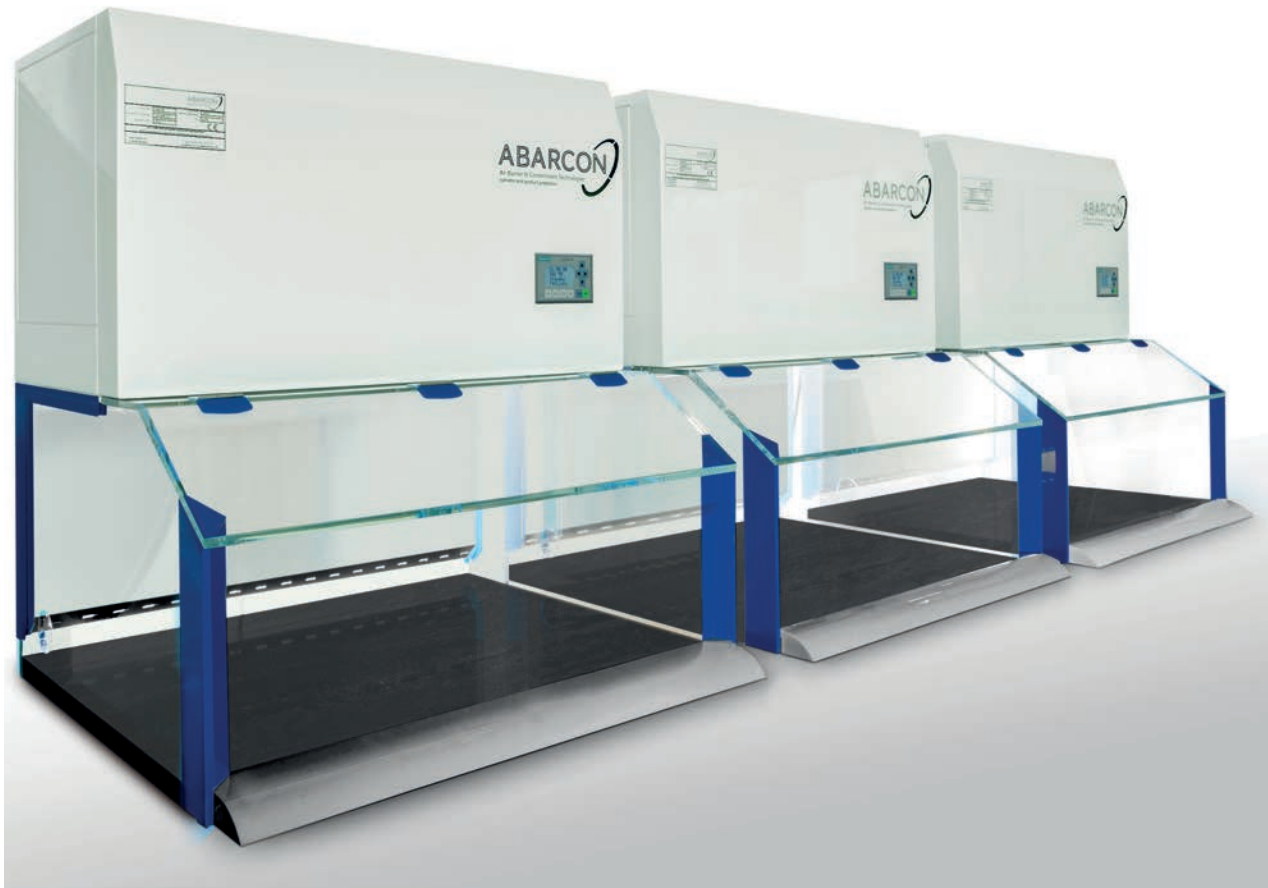
Containment Technologies

- Weighing and transfer containment
- Free working place
- Clean room containment
- Laminar Flow systems
- Material and personnel airlocks

Equipment

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

Fume cupboard systems | 1.14 Weighing containment



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



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

Fume cupboard systems | 1.16 Chemical disposal



- Disposal unit substructure with collection containers

Fume cupboard systems | 1.17 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
- Optionally with continuous LED display



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
- Optionally with continuous LED display



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.

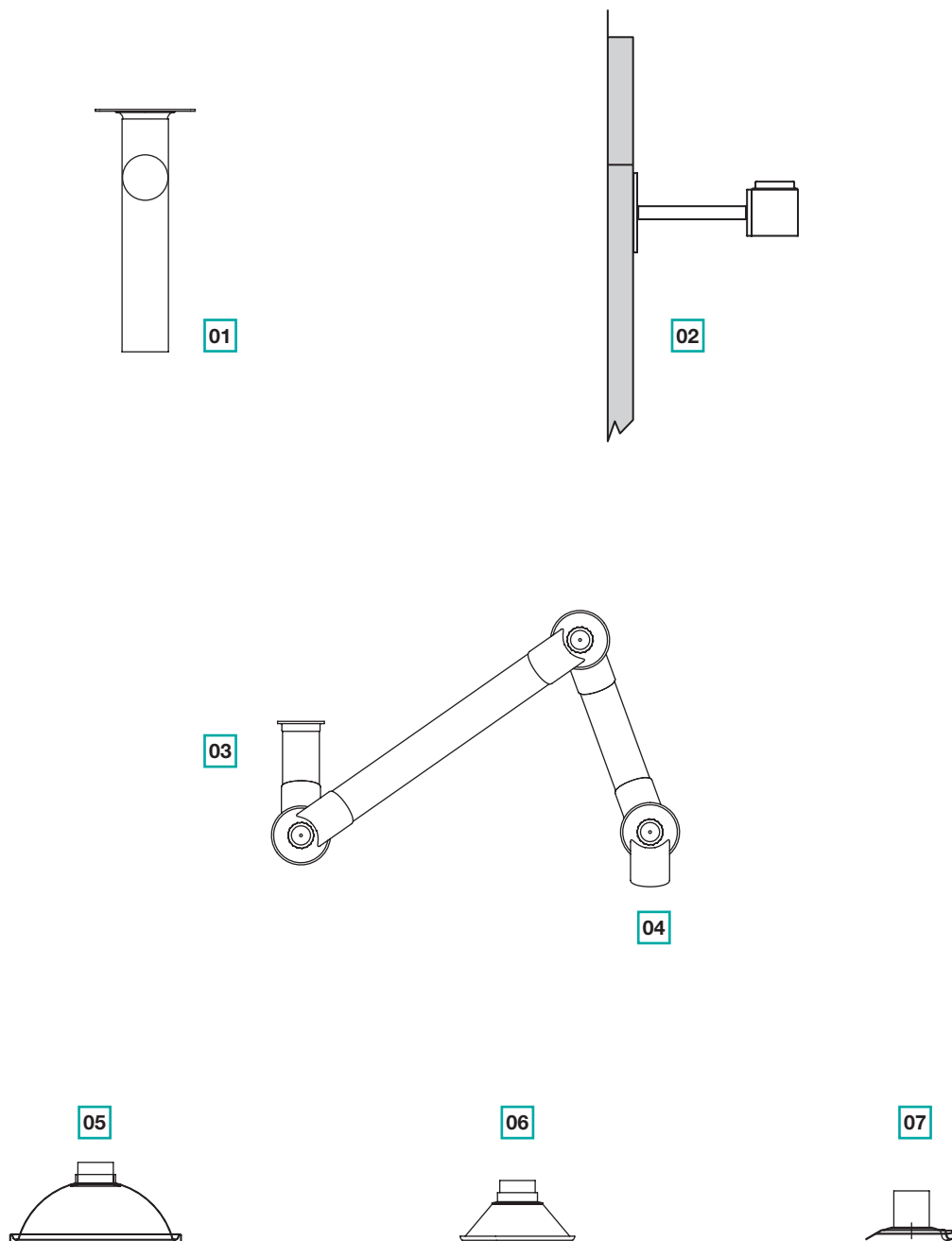


Fume cupboard systems | 1.18 Articulated arm flexible extractor



- 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

Fume cupboard systems | 1.18 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

2.1 System duct	58-59
2.2 Container	60-61
2.3 Reverse-side container	62-63
2.4 Standing unit for wall bench	64-65
2.5 Standing unit for double (island) workbench	66-67
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2.14 Decentralized services and supply	84-85
2.15 System accessories	86-91



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.

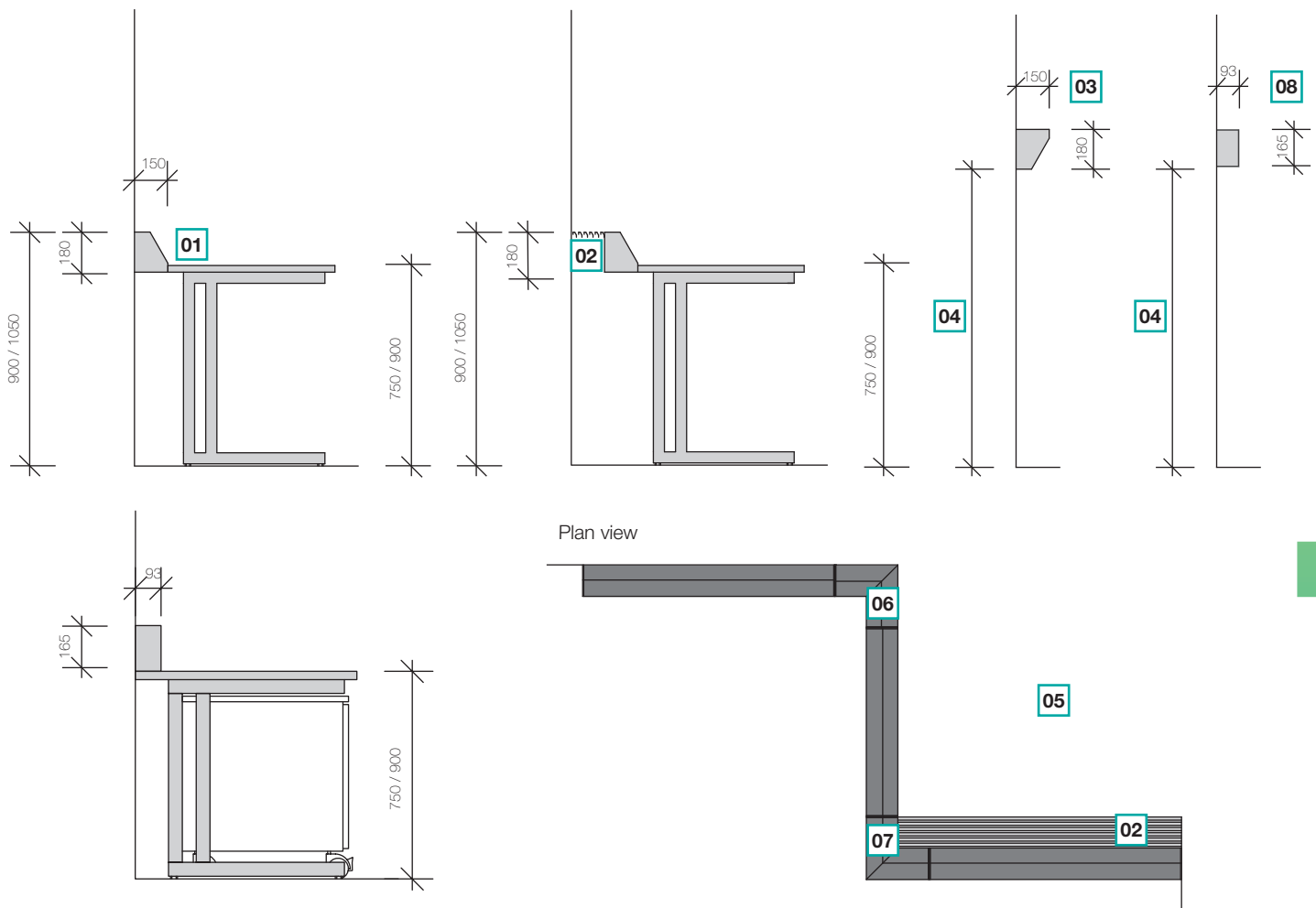
- Variable arrangement, of fittings over the entire systems length at the point of use
- Pipe work according to the requirements
- Fittings for water, natural gas, LPG, compressed air, technical gases up to purity 4.5, (high) purity gases up to purity 6.0 and vacuum out of different materials (brass, 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
- 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)

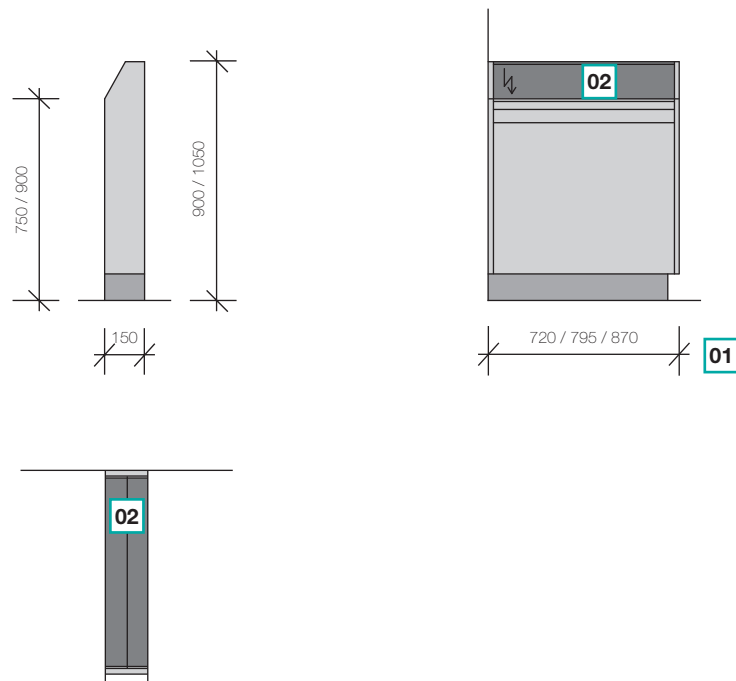
07 System duct outside corner (300 x 300 mm)

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



- 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

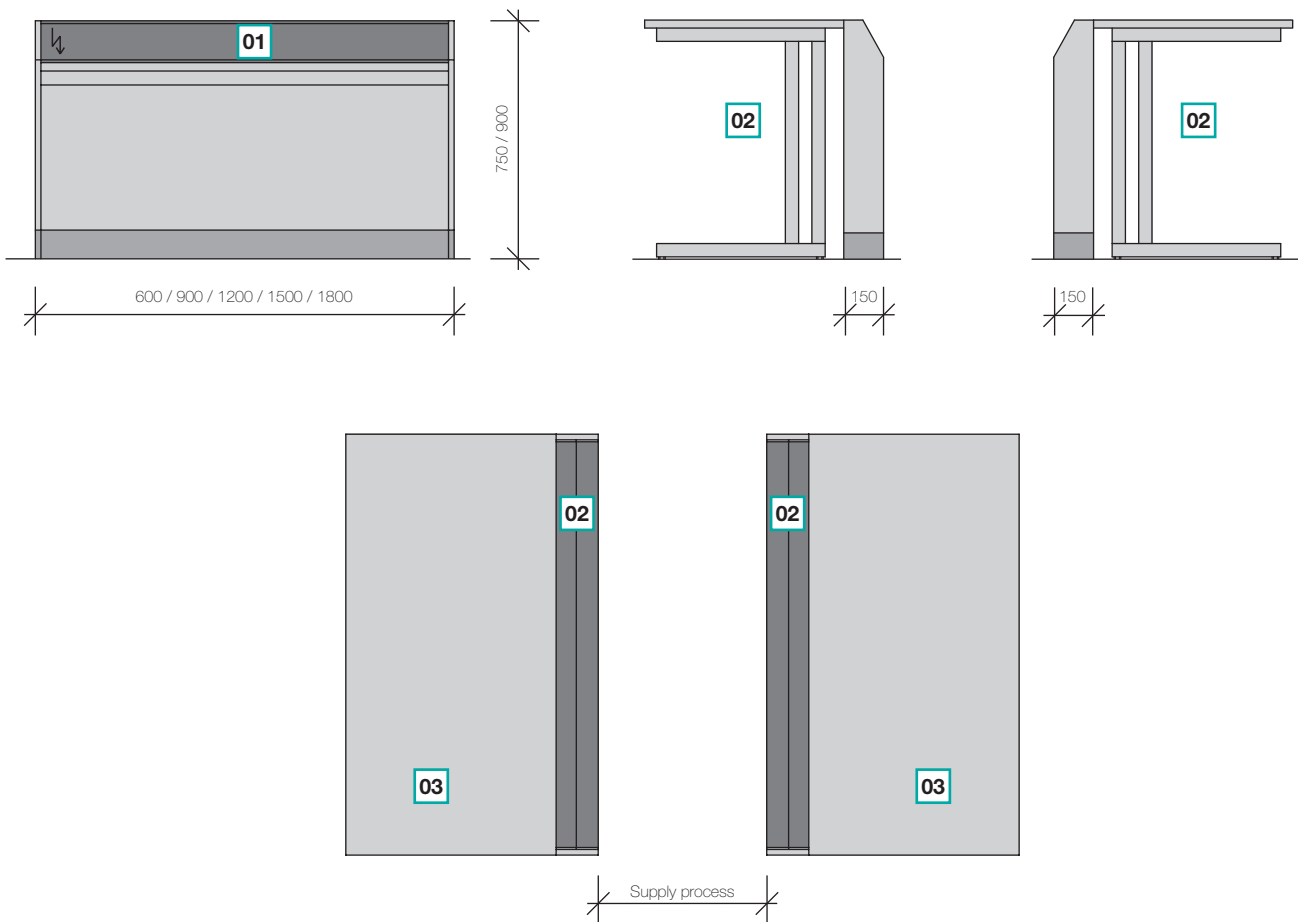
- 02** System duct for electrical service outlets

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
- Also ideal for double workbenches for head-end linking of one or two clerical work stations
- With appropriate sequence installation path (service corridor) for the supply of apparatus (e.g. gas chromatograph)

Service systems | 2.3 Reverse-side container



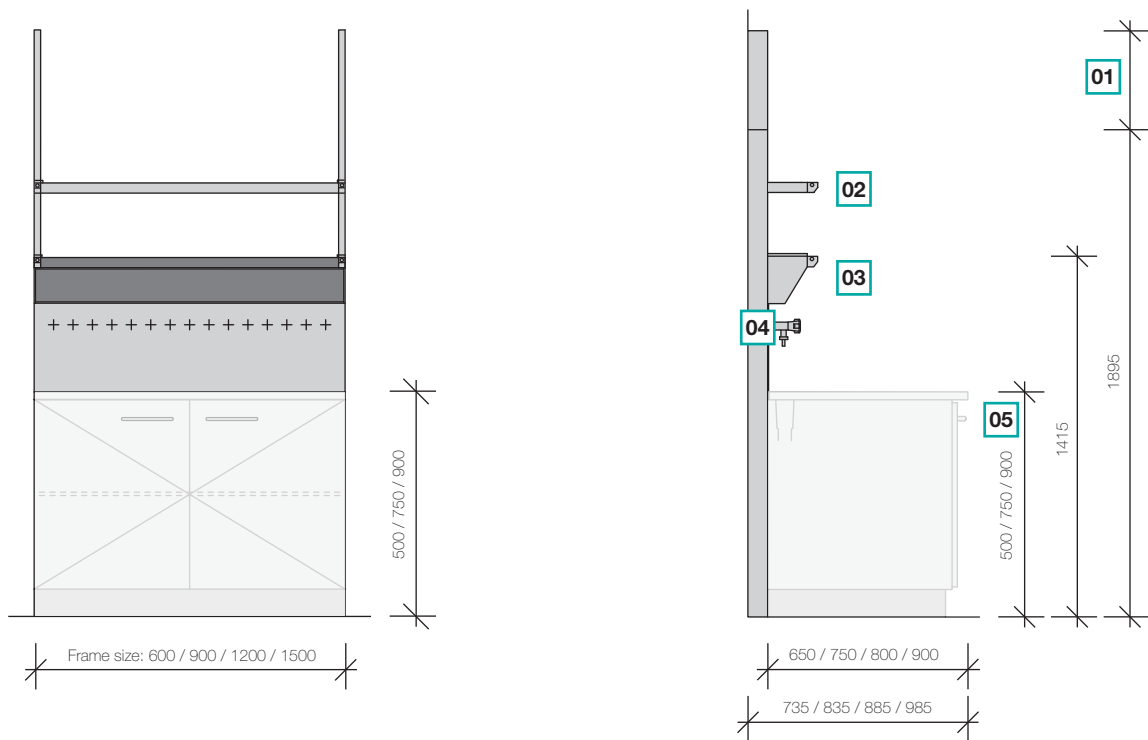
- 01** System duct for electrical and gas outlets
- 02** Combination with all series and types possible
- 03** Combination possible with all work tops

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)

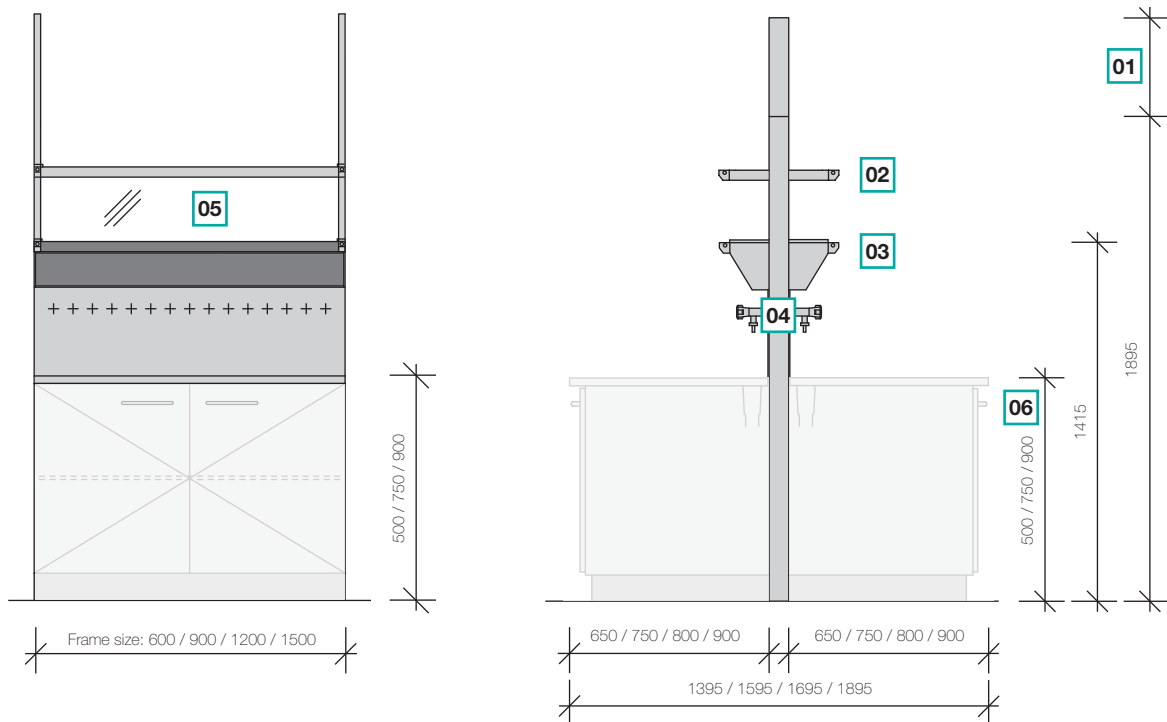
05 Combination with all table systems possible

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
- 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

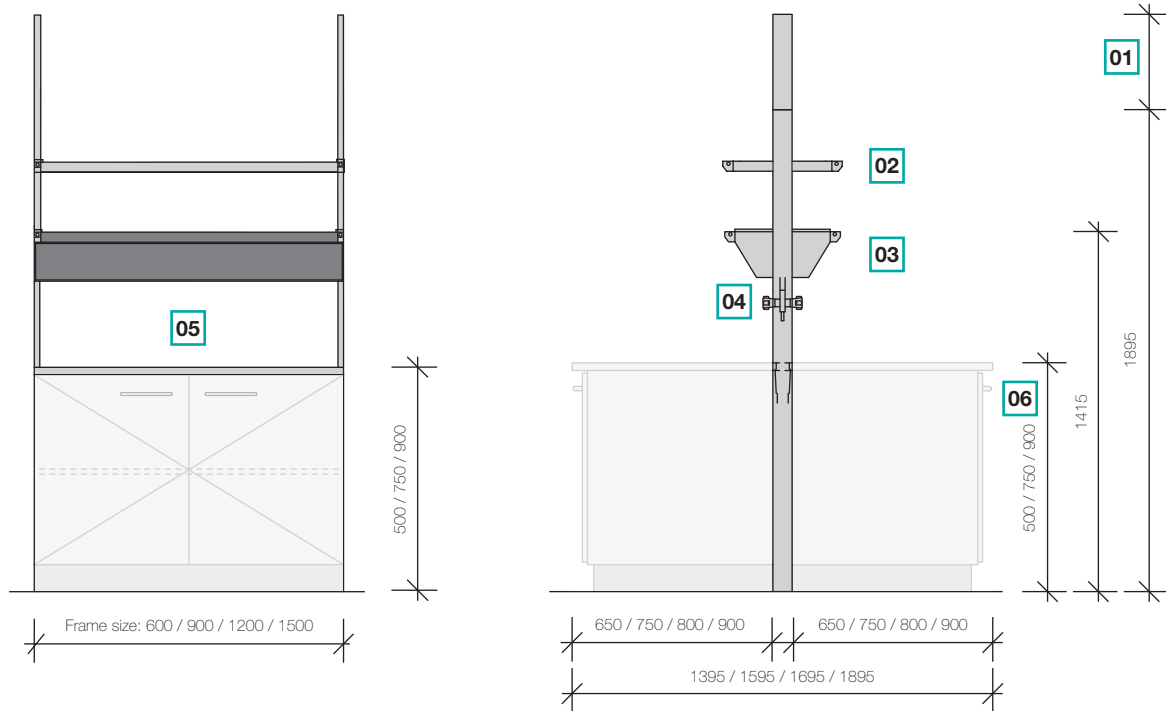
06 Combination with all table systems possible

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

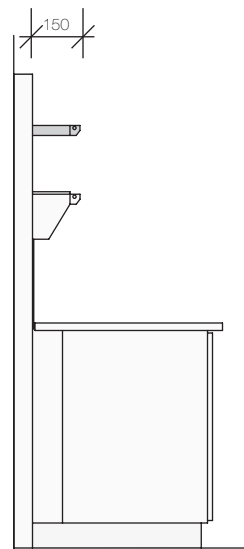
Service systems | 2.7 Storage shelves



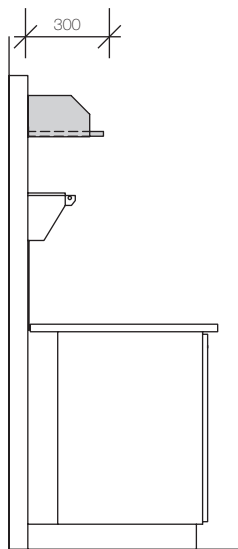
Storage shelf type 2 and Appliance storage tray

- Suitable for standing unit and standing bridge
- Attachable to the system uprights profile, height adjustable
- Suitable for wall mounting (Type 2)
- For mounting by brackets onto the system duct (appliance storage tray)

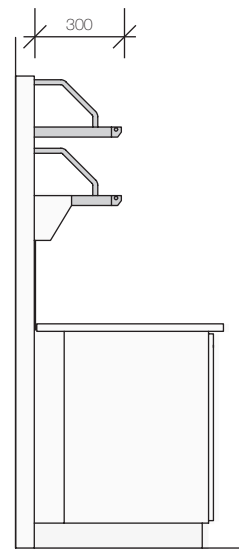
Service systems | 2.7 Storage shelves



Storage shelf type 1



Storage shelf type 2



Storage shelf type appliance storage tray

Storage shelf types

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

Ablageebene Typ 2: Shelf of 19 mm particleboard core panel, melamine faced without tripod rod holders

Appliance storage tray:

Shelf level Type appliance storage tray: Tray made of 5 mm solid core with 2 stand rod holders and reinforcing crossbeam.
Alternative: Tray made of 5 mm raw glass overlay

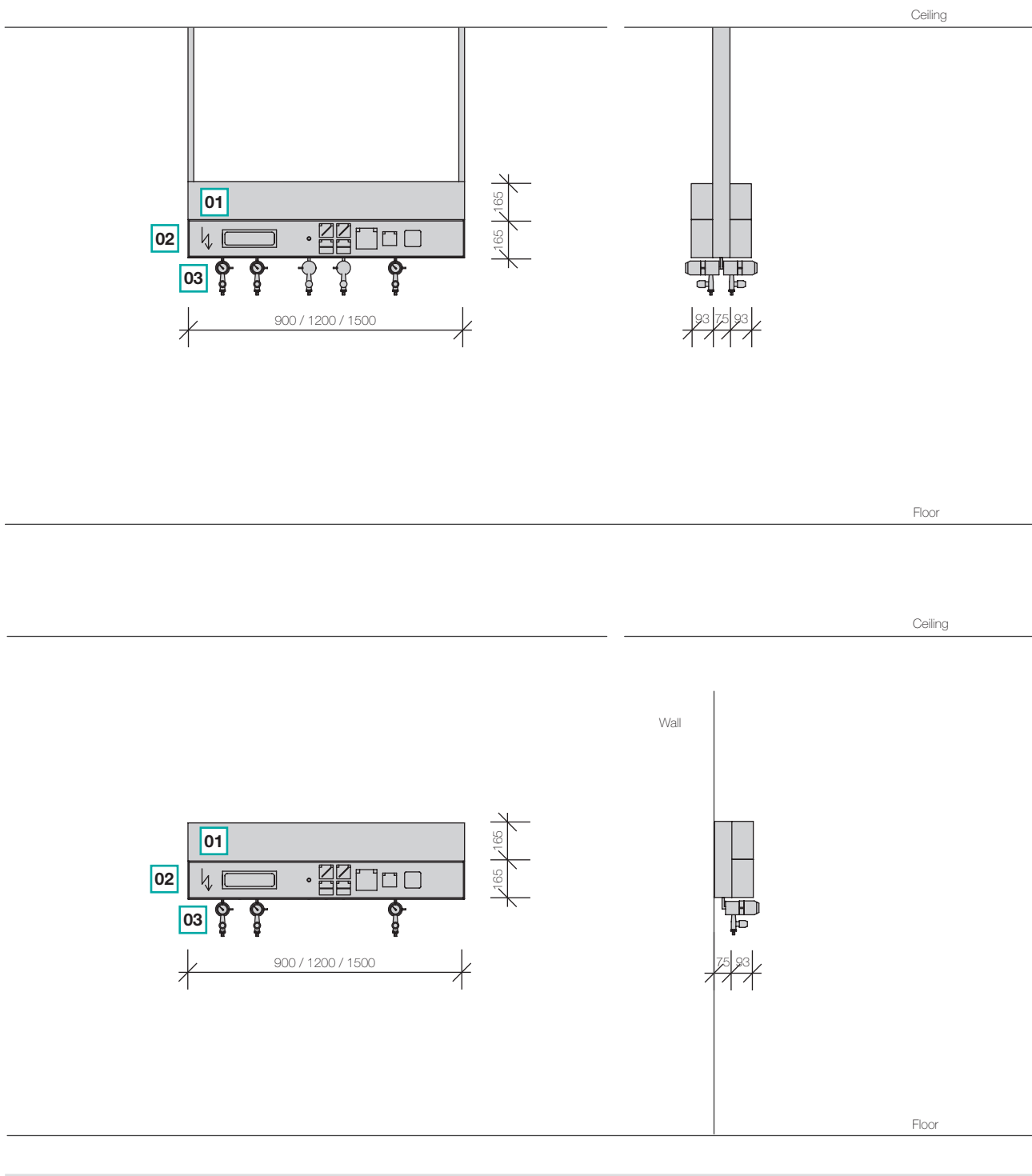
Service systems | 2.8 Service energy duct



- 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
- Variant: Infinitely height adjustable



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

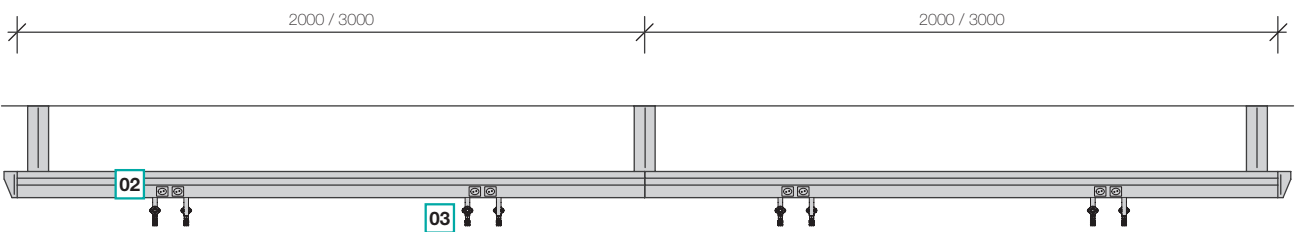
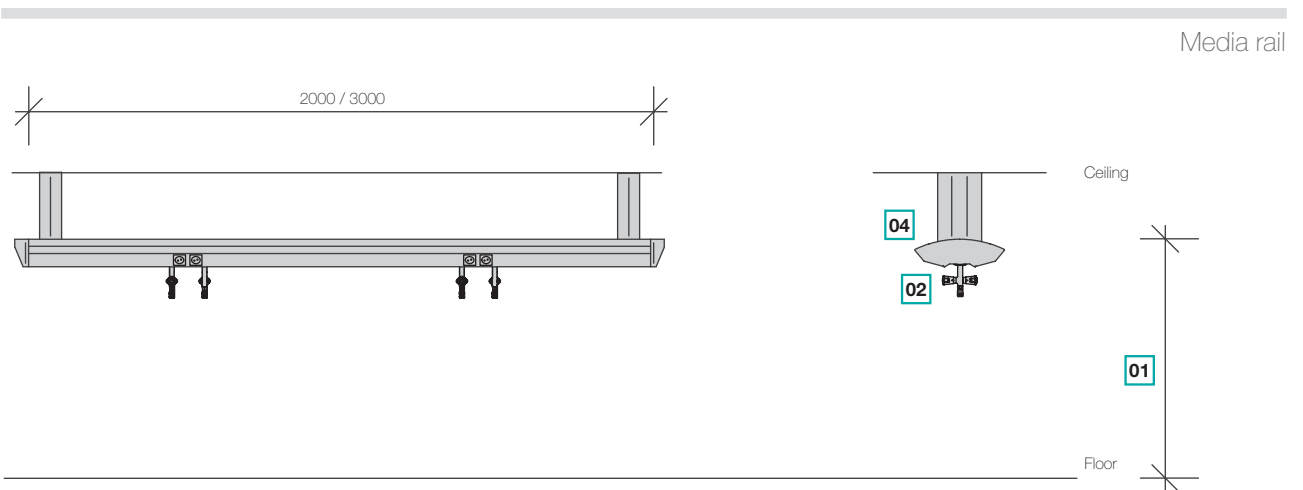
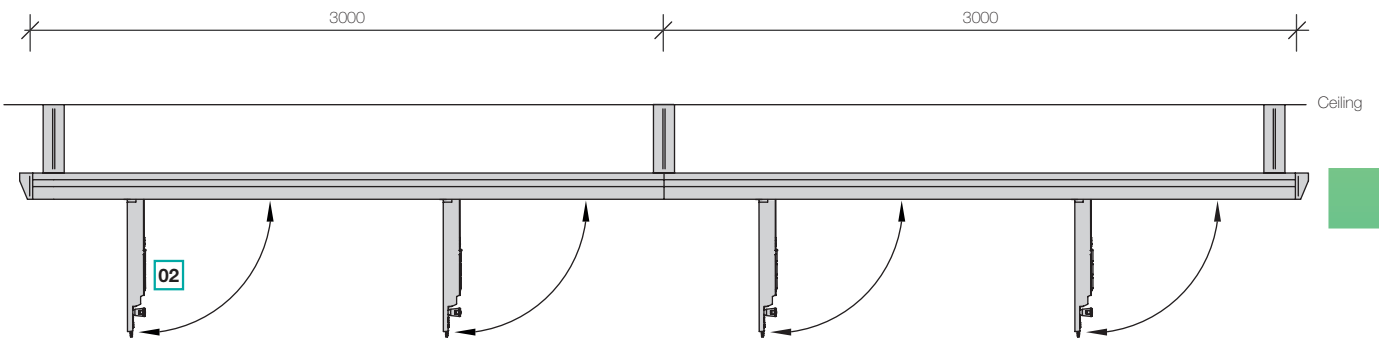
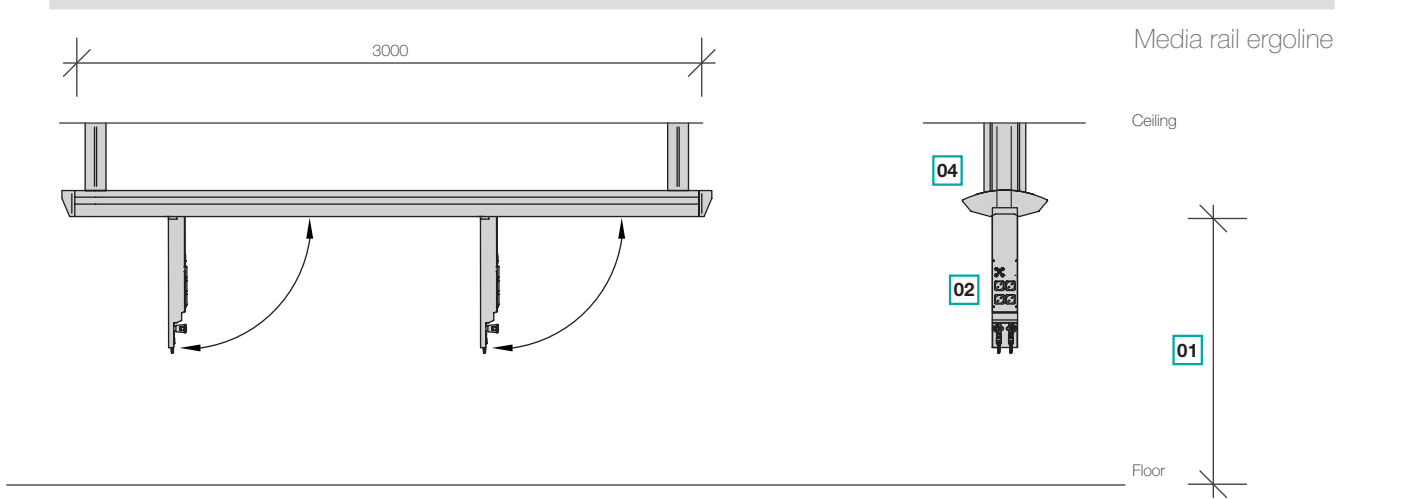
Service systems | 2.9 Media rail



- 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

- 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 | 2.9 Media rail

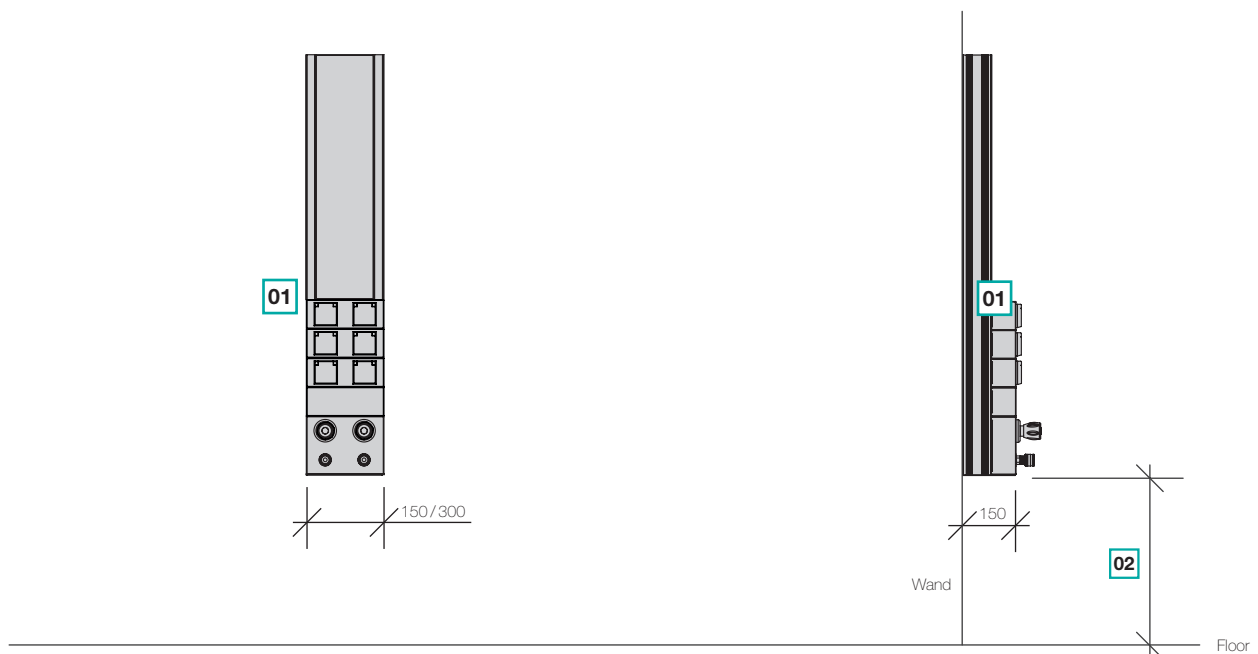
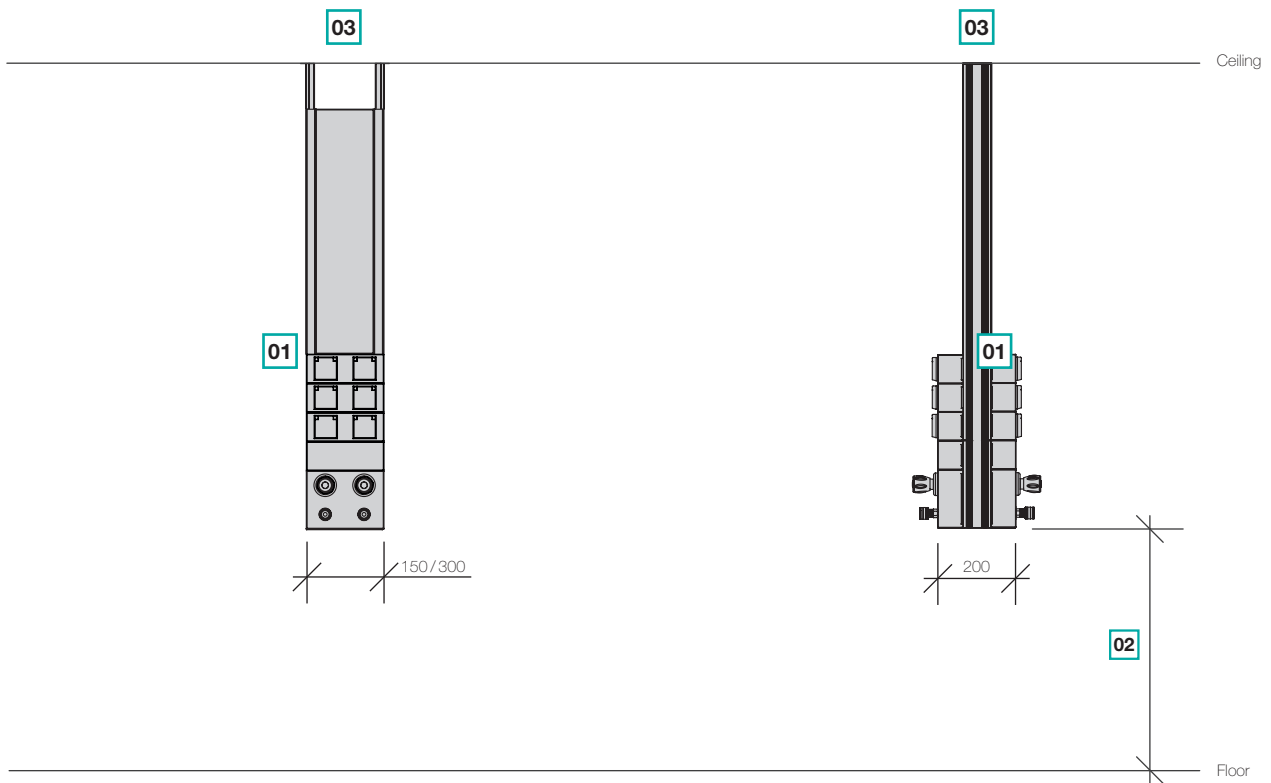


Service systems | 2.10 Service column



- 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 Panel for electrical supply and service outlets (corner or front control valves)

02 Mounting height upon demand

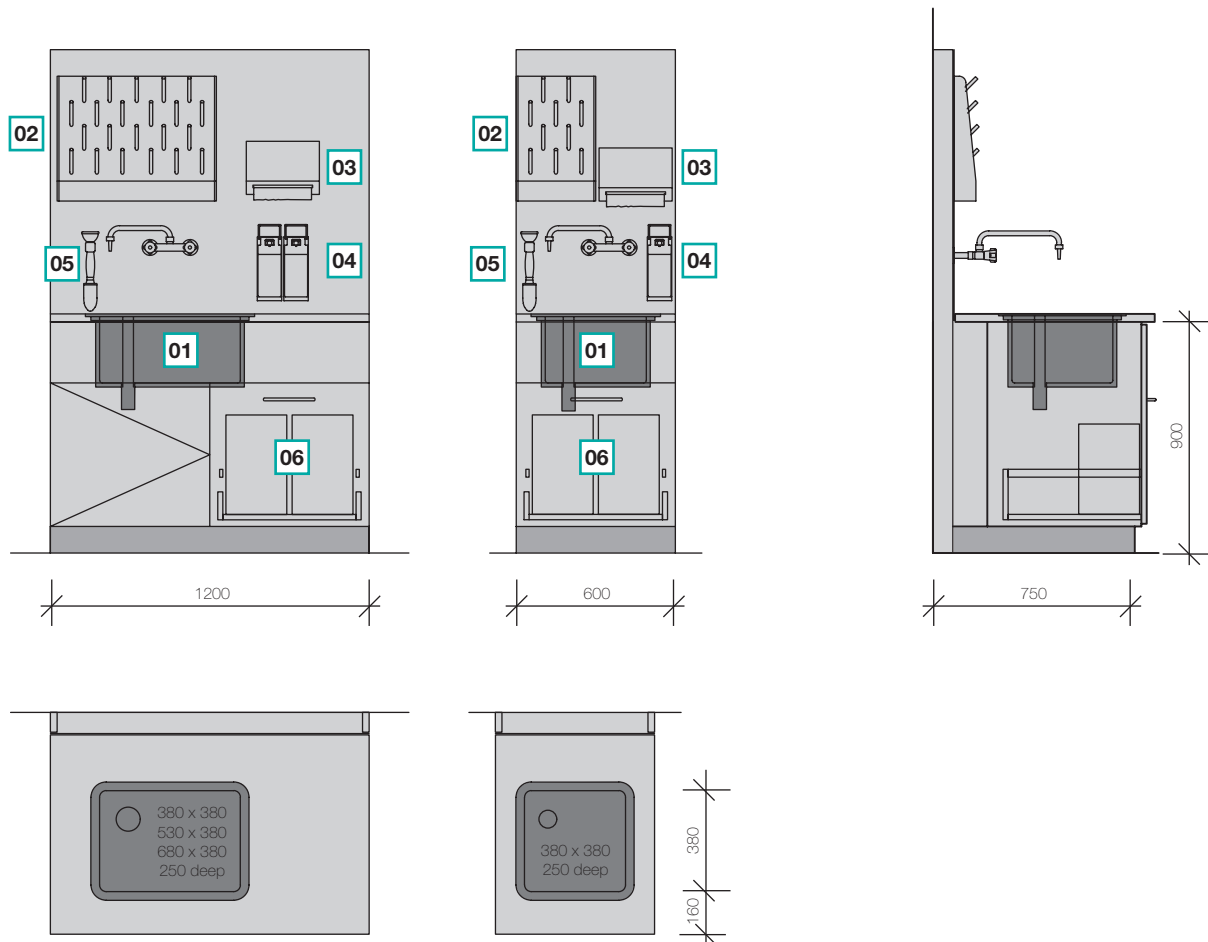
03 Ceiling connector if required

Service systems | 2.11 Sink



- Sink for installation into wall benches or in the laboratory rows
- Flush sink
- Option: under mount basin
- 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 Stoneware sink

02 Option: Draining rack

03 Option: Towel dispenser

04 Option: Soap dispenser

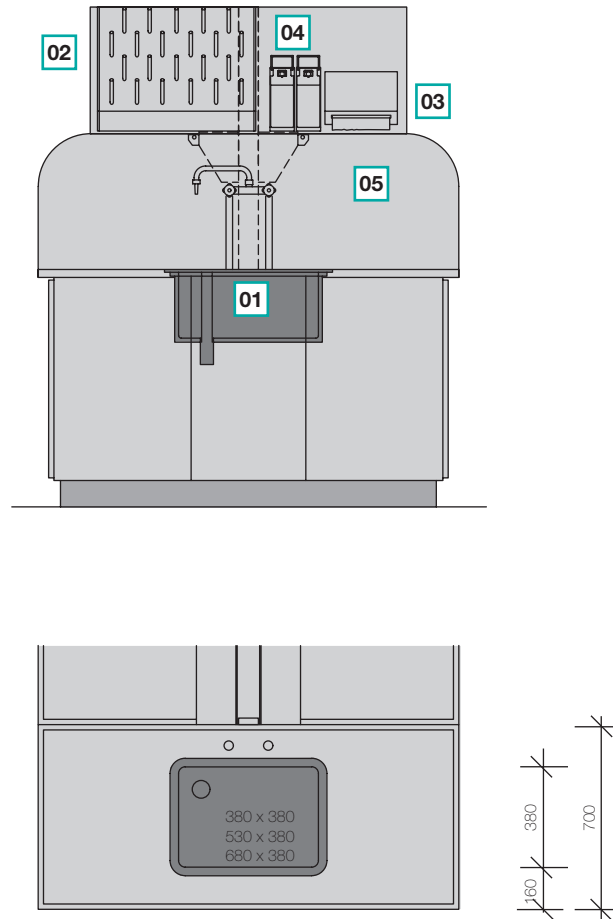
05 Option: Eye wash

06 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



01 Stoneware basin

02 Option: Draining rack

03 Option: Towel dispenser

04 Option: Soap dispenser

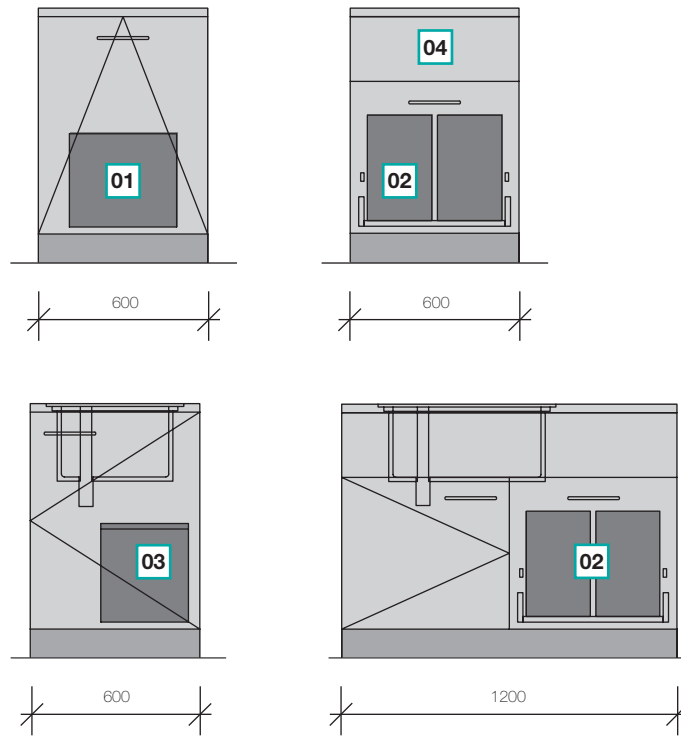
05 Option: Splash guard

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 Pull-out with 2 x waste bin 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

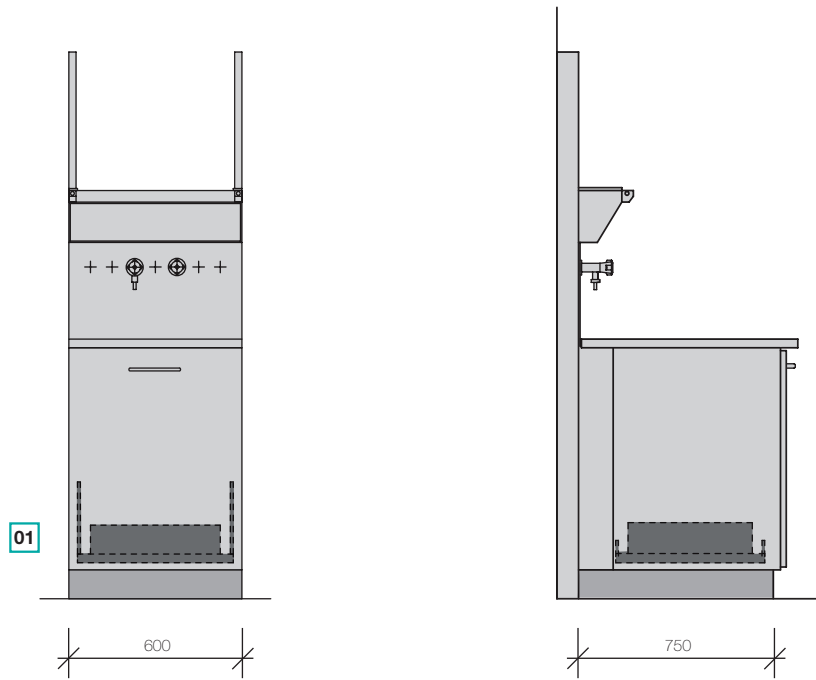
04 Panel, option: drawer

Service systems | 2.14 Decentralised services and supply



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.



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

Service systems | 2.15 System accessories

With the DELTAup system, you can flexibly organize your laboratory workplace so that working surfaces are really free and form a large usable area.

The DELTAup system consists of a base carrier, which can be freely placed in the function groove and is simply fixed by a lever clamp. Various functional modules can be attached to this base carrier simply by “plugging”

them in. Thanks to the modular construction of the system, it is possible to transfer the functional modules quickly from one base carrier to the next and thus efficiently organize your workplace at any time.



FUNCTIONAL MODULES

- ❶ Wastedisposal module
- ❷ Pipette holder module
- ❸ Box holder module
- ❹ Document holder module
- ❺ Utensil quiver module
- ❻ Dispenser module
- ❼ Tab module
- ❽ Cable holder
- ❾ Paper roll holder module
- ❿ Monitor holder module
- ⓫ System tray module

and others...



Service systems | 2.15 System accessories

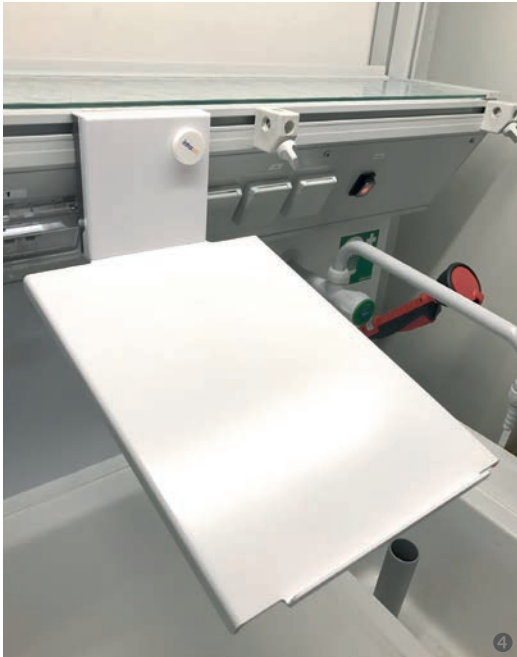




Table systems

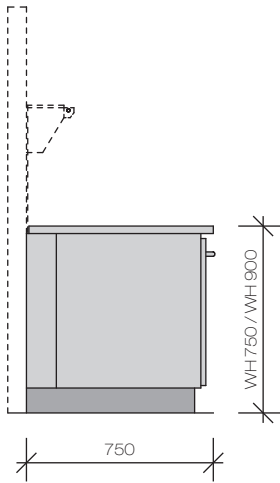
The basis for your workplace

3.1 Series E	96-97
3.2 Series 4FU	98-99
3.3 Series CFU	100-101
3.4 Auxiliary frame	102-103
3.5 Single table	104-105
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3.7 LABterminal	108-111
3.8 Balance table	112-113
3.9 Rack	114-115
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3.12 Writing table work space	118-119

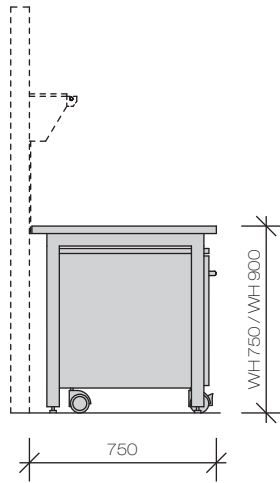
Series

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

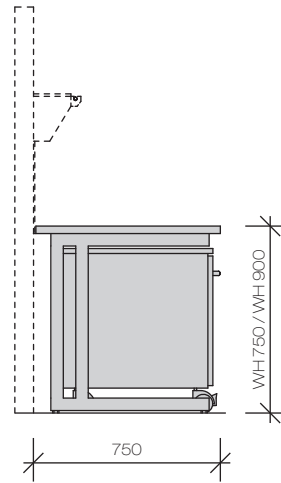
- Series E Economy
- Series 4FU 4-legged frame
- Series CFU C-frame
- Series 4FU with inserted sub-base and plinth 4-legged frame with inserted sub-base and plinth
- Series 4FU with inserted under bench cabinet and plinth 4-legged frame with inserted under bench cabinet and plinth
- Auxiliary frame with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



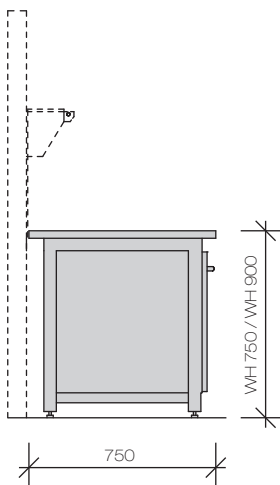
Series ES



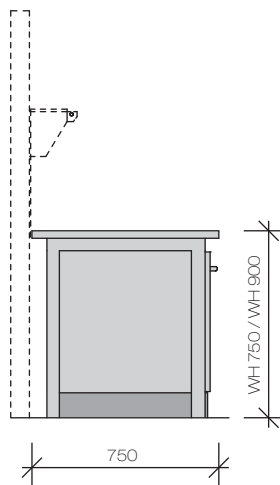
Series 4FU with mobile
under bench cabinet



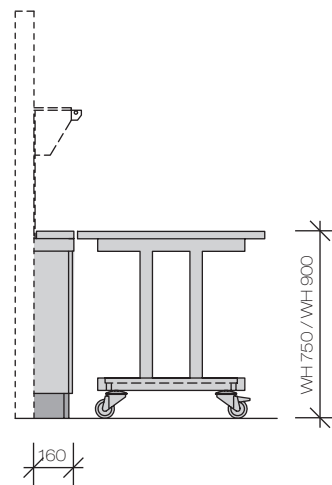
Series CFU with mobile
under bench cabinet



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



Composite stoneware work surface



Stoneware work surface



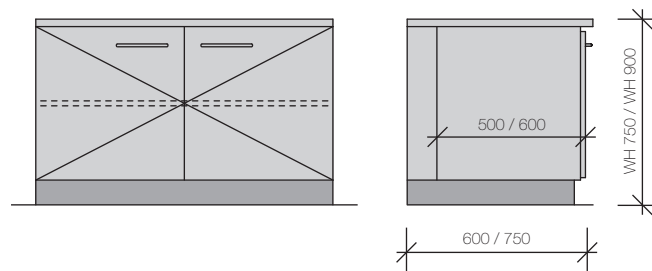
Glass work surface



Melamine work surface, PP edge

- Epoxy resin work surface
- Stainless steel work surface
- Glass work surface, epoxy marine edge
- Melamine resin – postforming plate/board
- 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
- High-pressure compact laminate work surface, epoxy marine edge
- Virtually all worktops can be supplied with or without edge beading, as required.

Table systems | 3.1 Series E



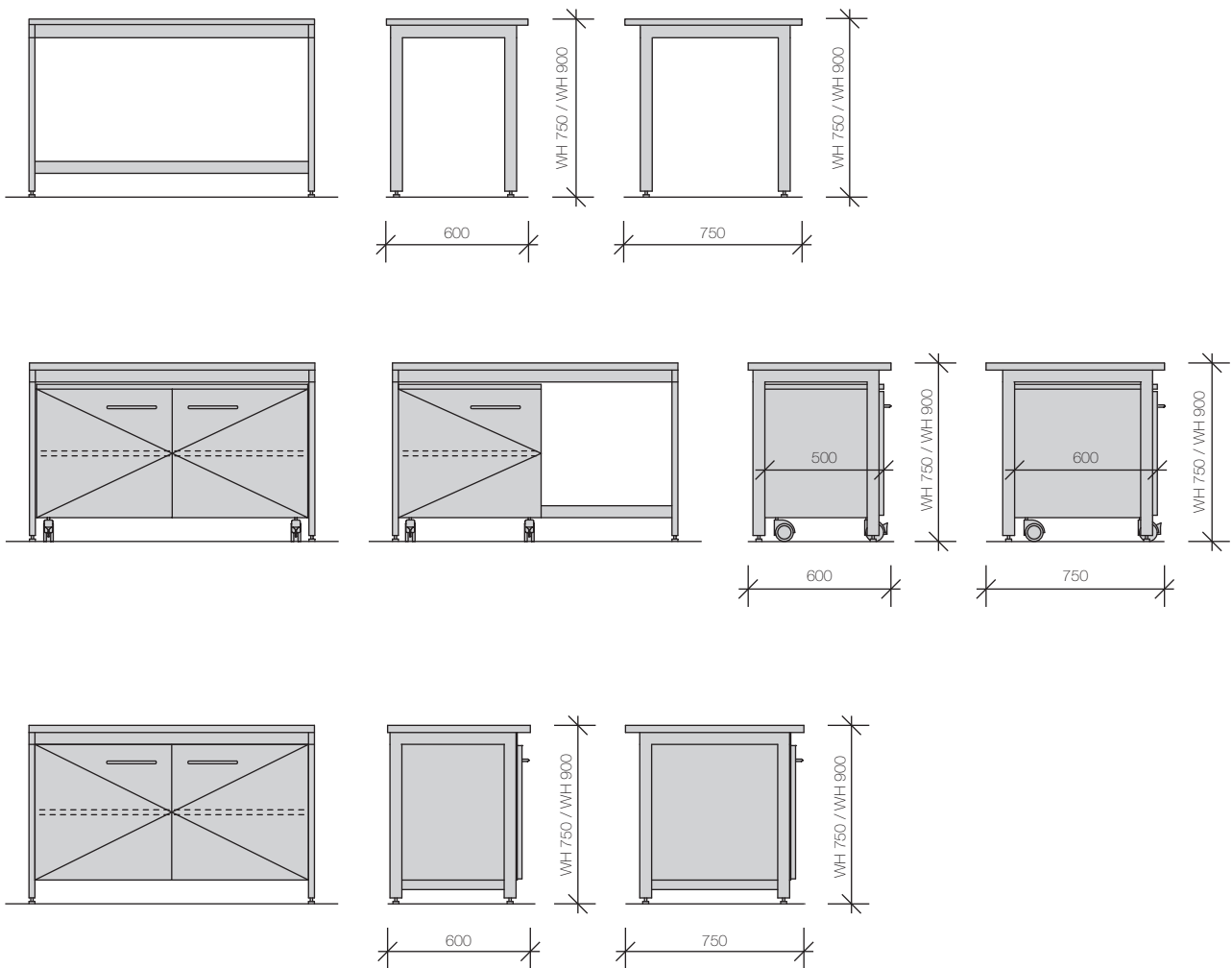
Series E

For the series E, the E stands for E Economy, as this is the most economical design. Here, a table frame can be dispensed with, as the base cabinet forms the supporting element for the worktop. The body stands on legs and is fitted with a plinth. The E series can be used both alone and combined 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



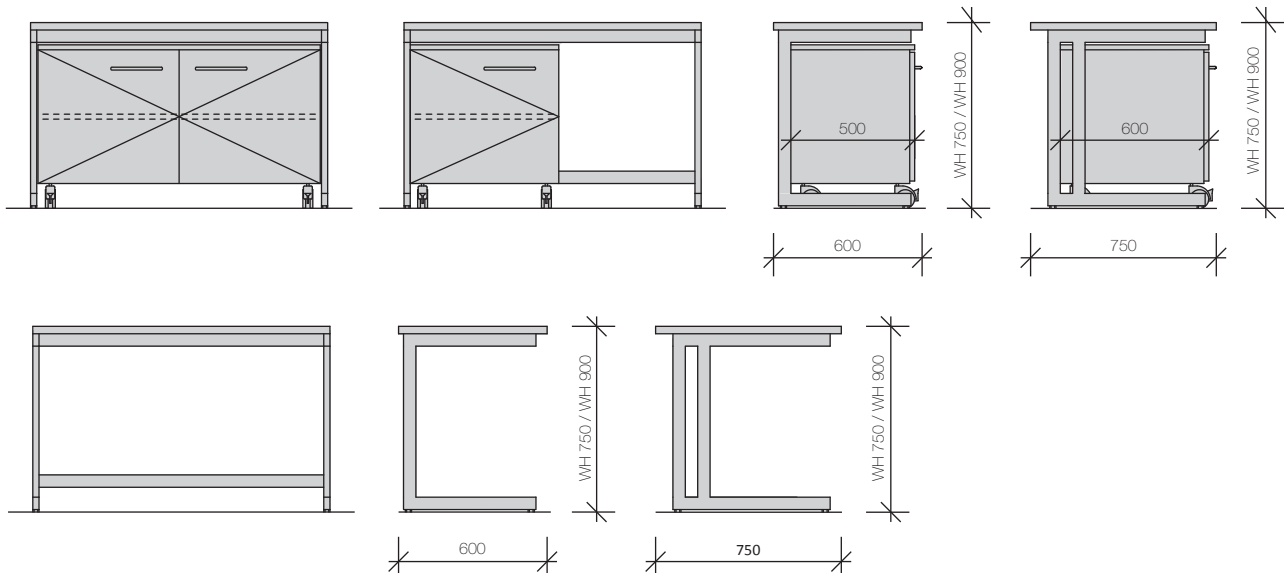
Series 4FU

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



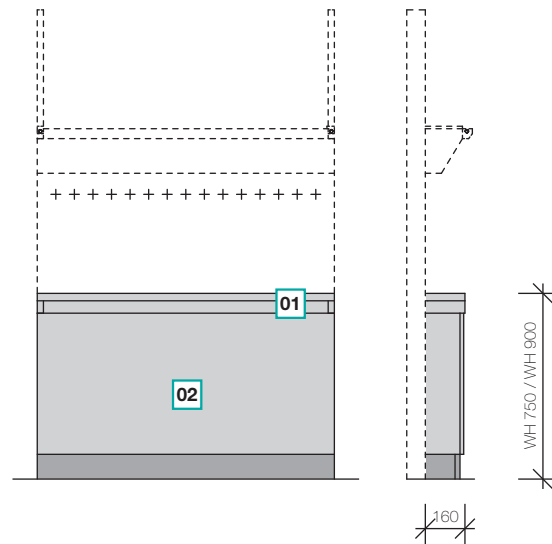
Series CFU

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: Media

Table systems | 3.5 Single table

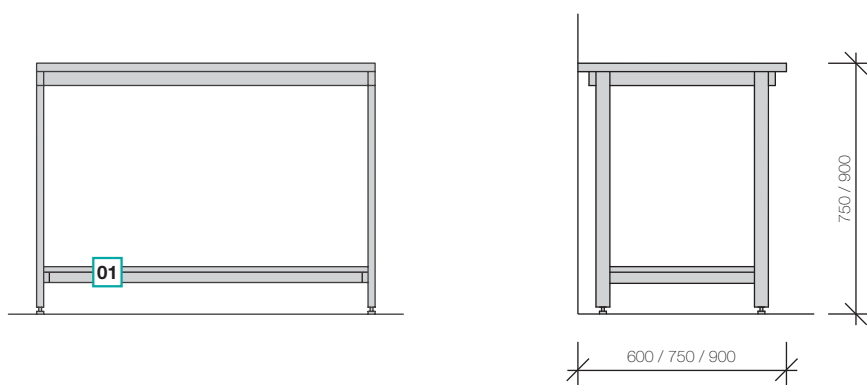


Height-adjustable table frames

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.

- Standard widths: 600 / 900 / 1200 / 1500 / 1800 mm
- Standard heights: 750 / 900 mm
- Standard depths: 600 / 750 / 900 mm
- Option: Height-adjustable table frame (manually and electrically adjustable table frames)

Table systems | 3.5 Single table



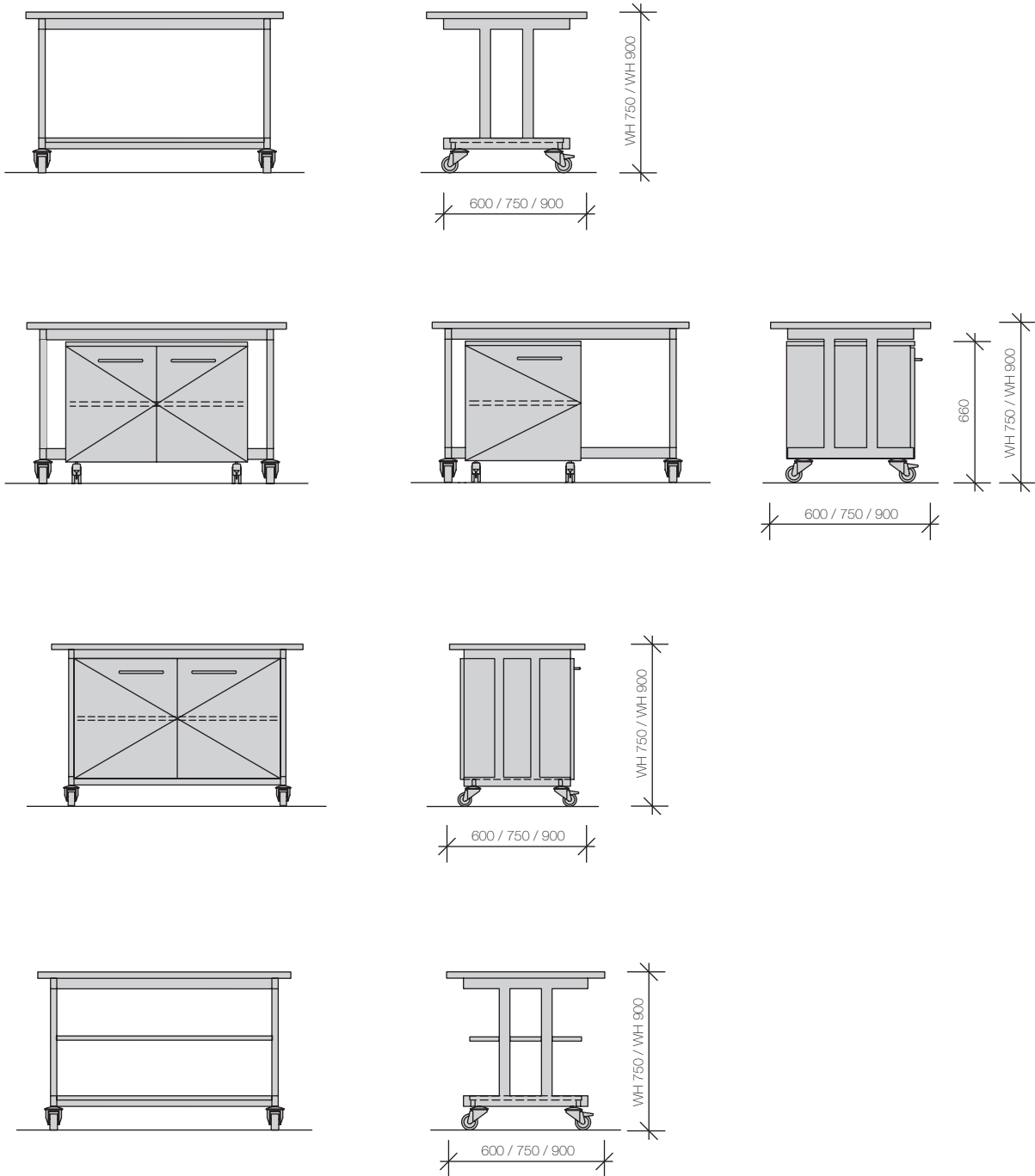
Single table

01 Option: frame with storage level

Table systems | 3.6 Mobile auxiliary table



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

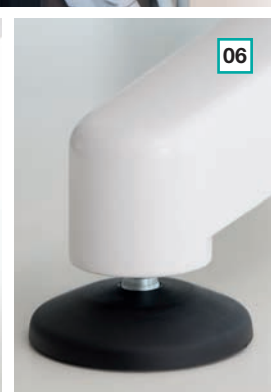


- Flexibility due to mobility
- Extremely stable multi-chamber aluminium profile
- Robust and durable frame and base
- Integrated high-volume media duct (electricity, gas, and data)
- Flexible positioning of the media (sockets, network connections and gas fittings)
- Variable by simple adaptation to 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



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



01 Mechanical service box with fittings

02 Tool-less handling of the E-boxes

03 Easy variation of the modular shelves

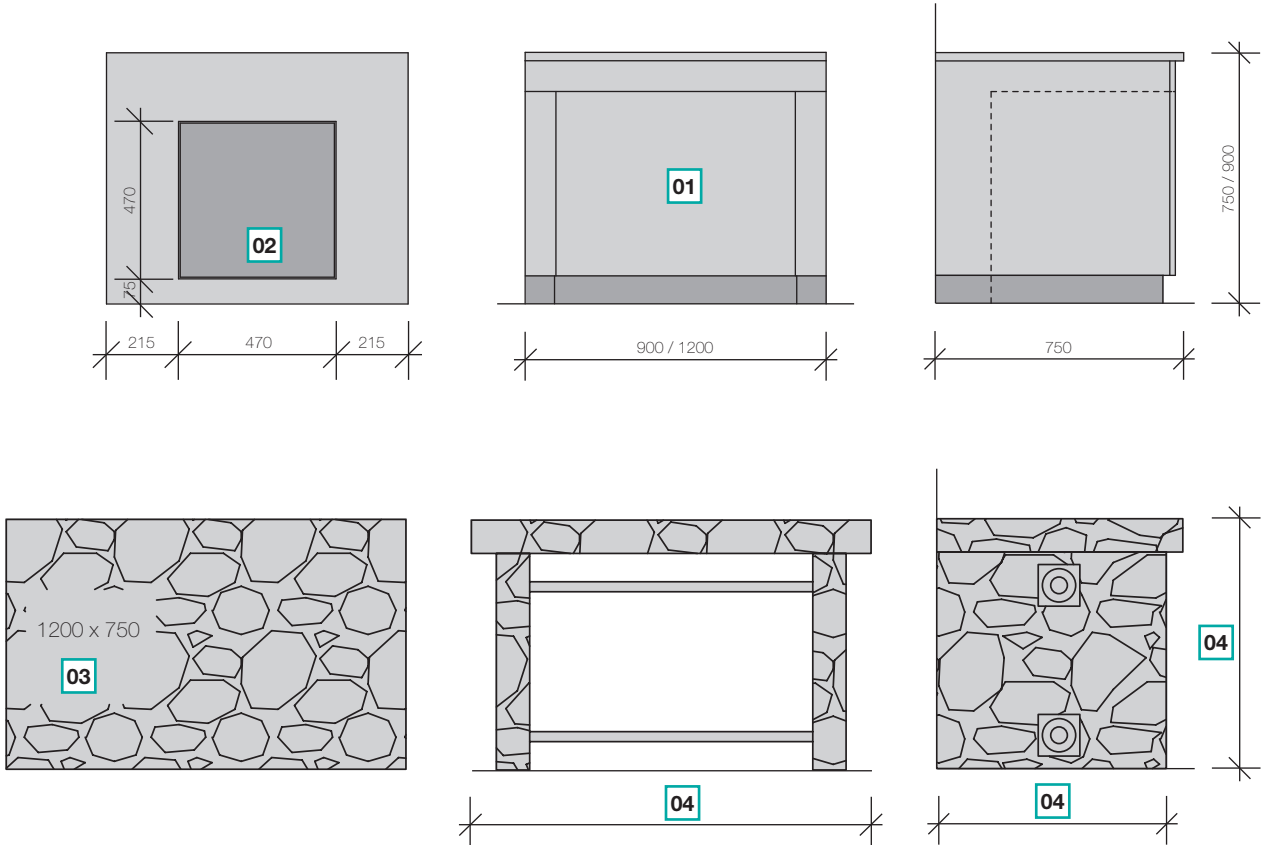
04 Electrical services, including cable storage

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

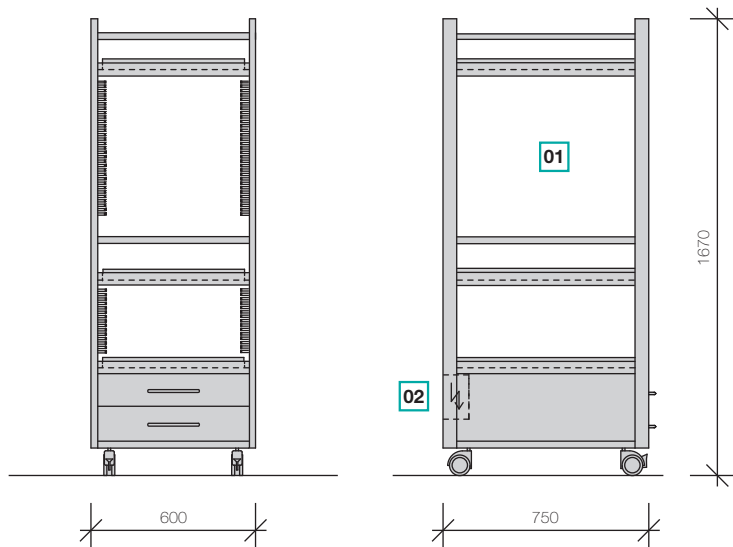
- 03 Balance table surface made of artificial stone
- 04 Size according to requirements

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

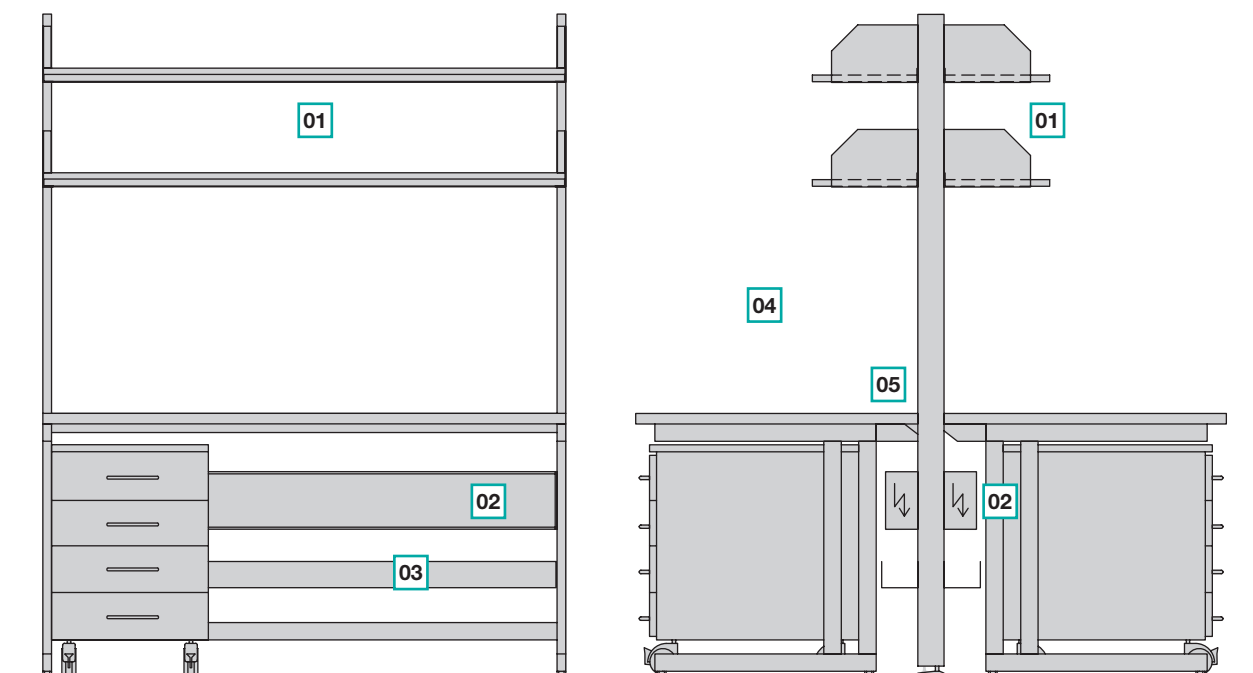
- Preparation room (kitchen) with sideboard and mobile tables
- Partition with hatch (electronic, both central as well as individual locked) between the test and preparation room
- Neutral, separated cabins (noise protection) with sufficient space to move
- Test room temperature of 20 ± 3 ° C with odourless 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

01 Option: Shelves

02 Option: Electric duct

03 Option: Cable tray

04 Option: Single work space

05 Option: Cable port \varnothing 80 mm



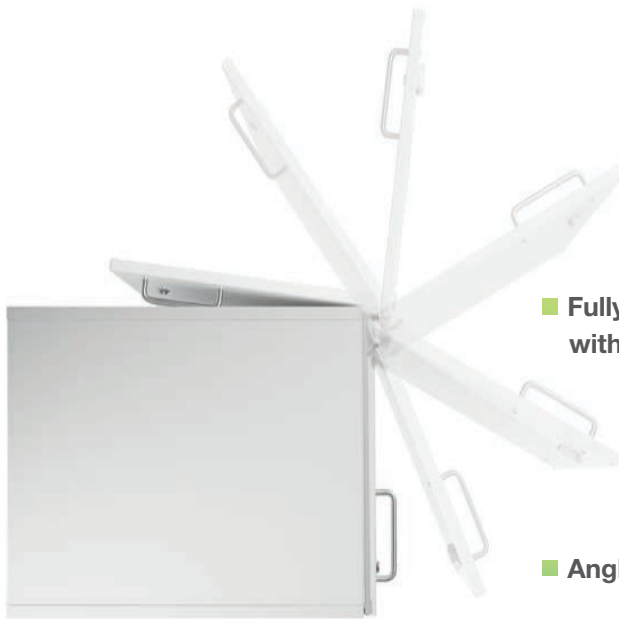
Cupboard systems

Everything organized to perfection

4.1 Under bench cabinets	124-127
4.2 Tall Cabinets / Top-mounted cabinets	128-129
4.3 Under bench safety cabinets for hazardous materials storage	130-131
4.4 Safety cabinets for hazardous materials storage	132-133
4.5 Special cabinets	134-135
4.6 Overbench cabinets	136-137

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.

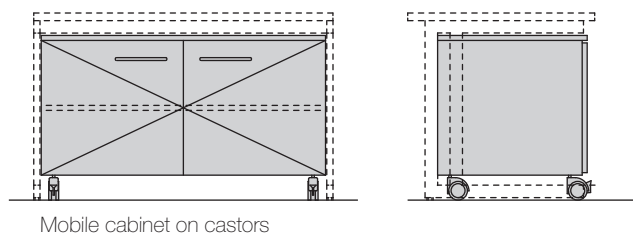
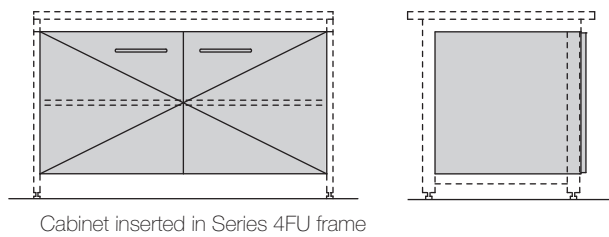
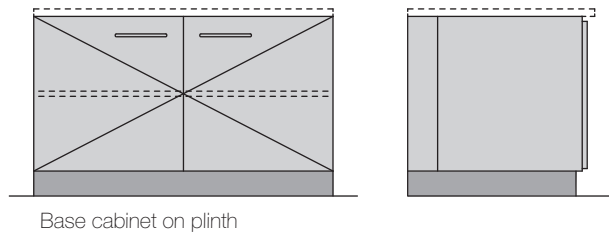
Alle Unterbauschränke gibt es in folgenden Ausführungen:

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

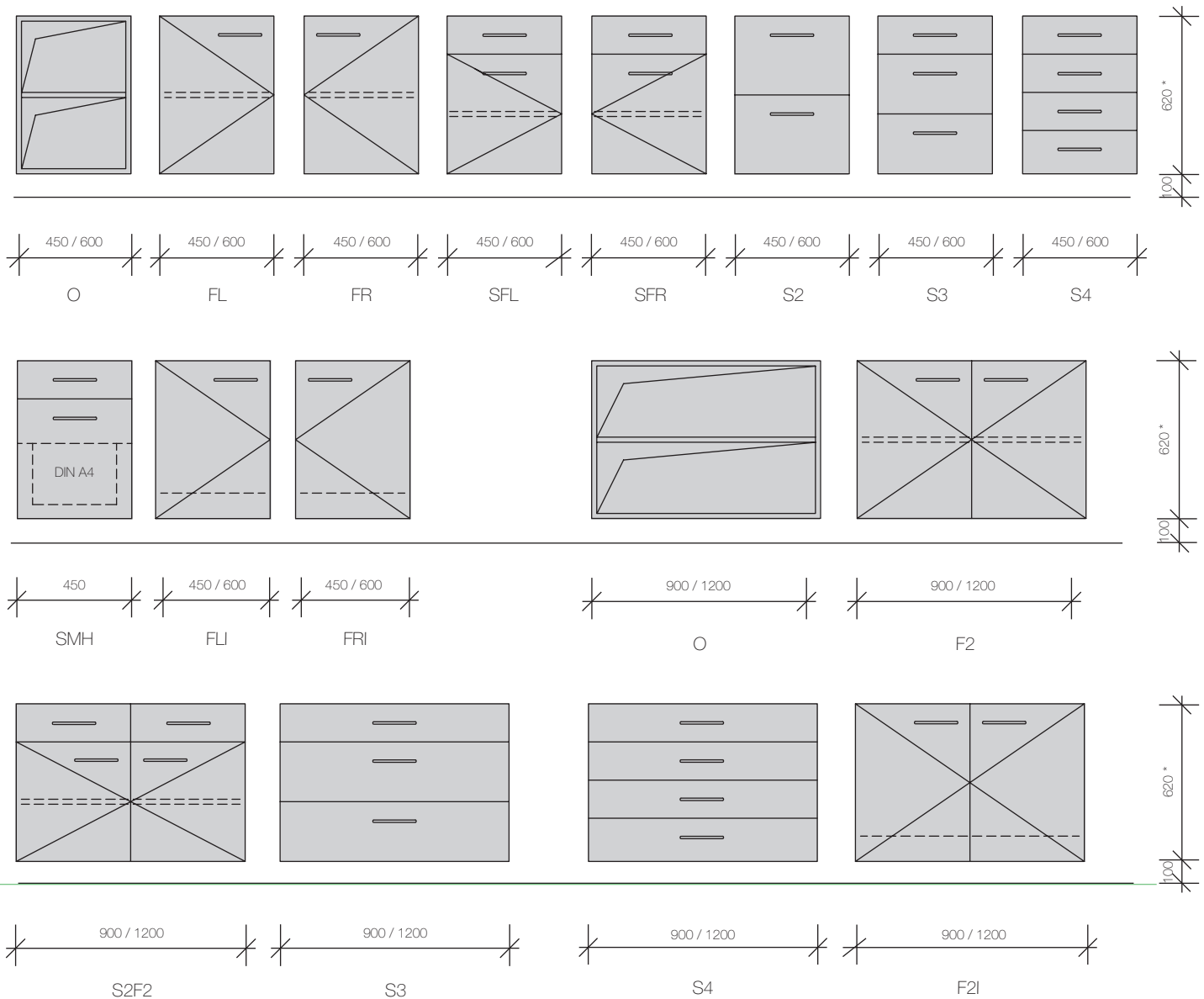


Cabinet models

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
- 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

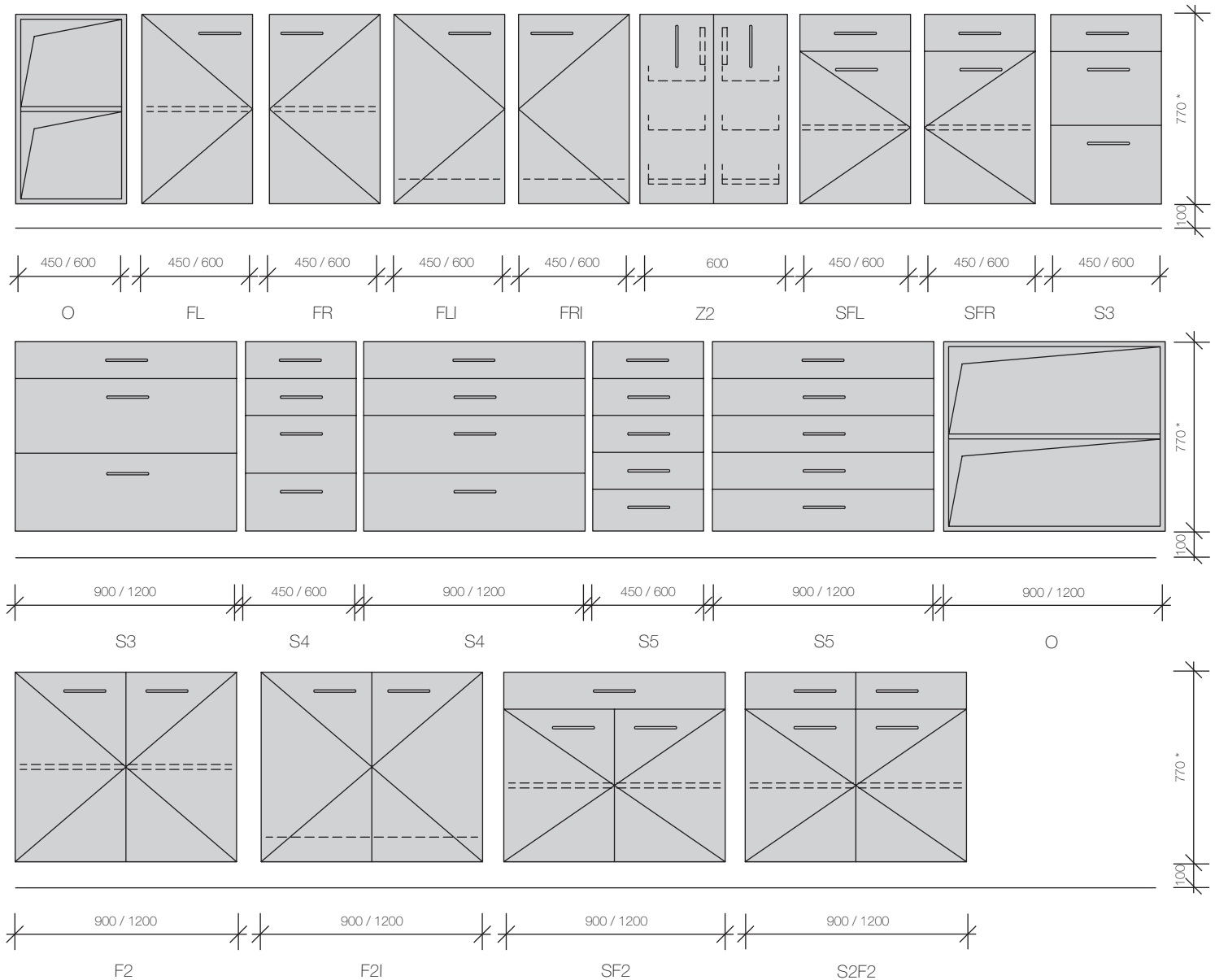
O	= open
FL	= single door, left hinged
FR	= single door, right hinged
SFL	= single drawer, single door, left hinged
SFR	= single drawer, single door, right hinged
S2	= 2 drawers
S3	= 3 drawers
S4	= 4 drawers
SMH	= single drawer, pencil tray, suspended filing system
FLI	= single door, left hinged, installation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

* Valid only for series E

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

* Valid only for series E

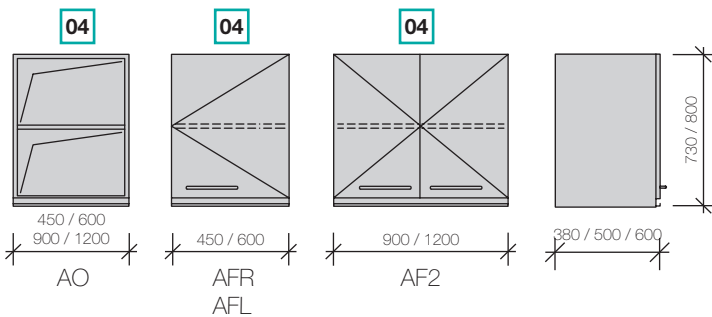
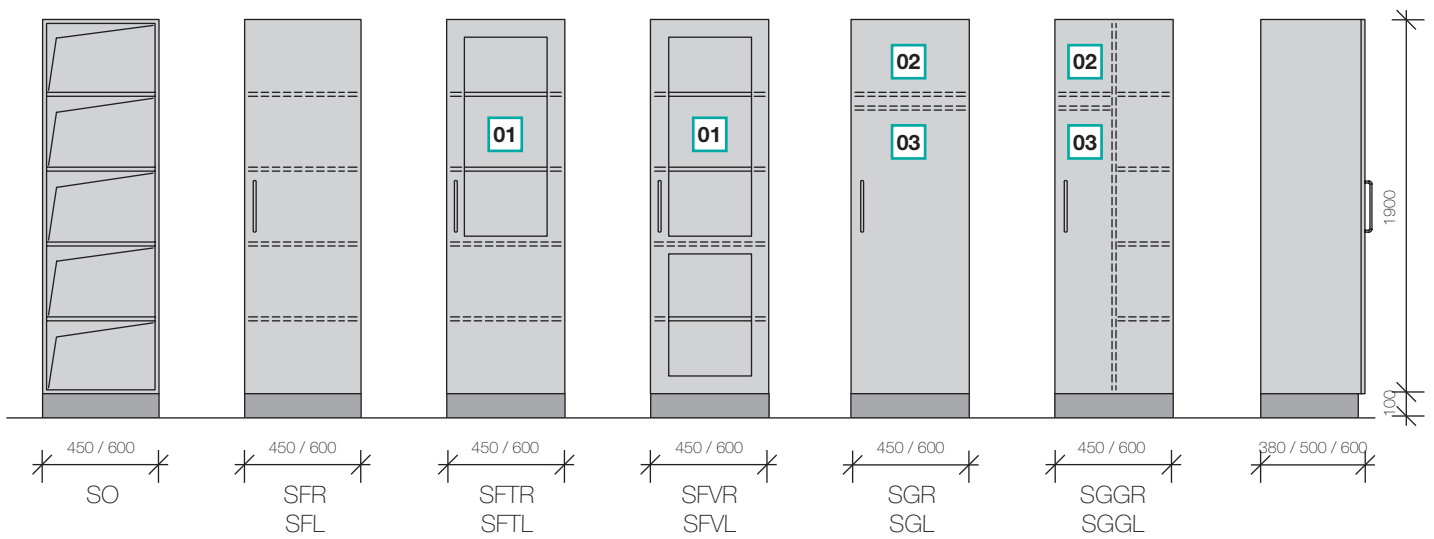
Storage systems | 4.2 Tall cabinets / Top-mounted cabinets



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
- Optionally with aluminum reinforcement
- Wide range of accessories, variations and options available, such as extra shelves, pull drawers, internal drawers, suspended filing system, staggered drawers, etc.
- Optional lock for all tall cupboards and top cupboards possible

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

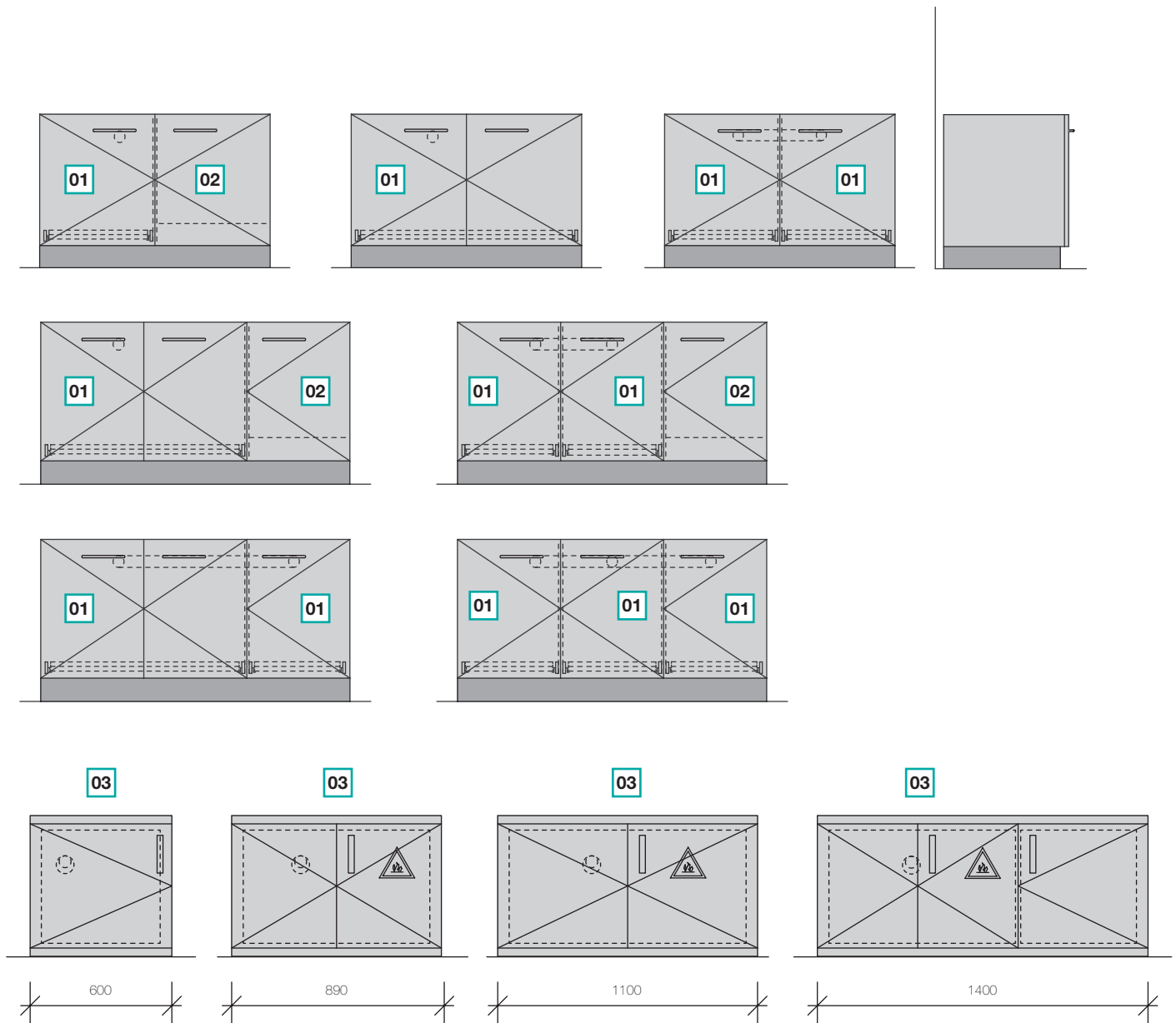
04 Option: without guide rail

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



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,
with pull-out, hinged door or folding door

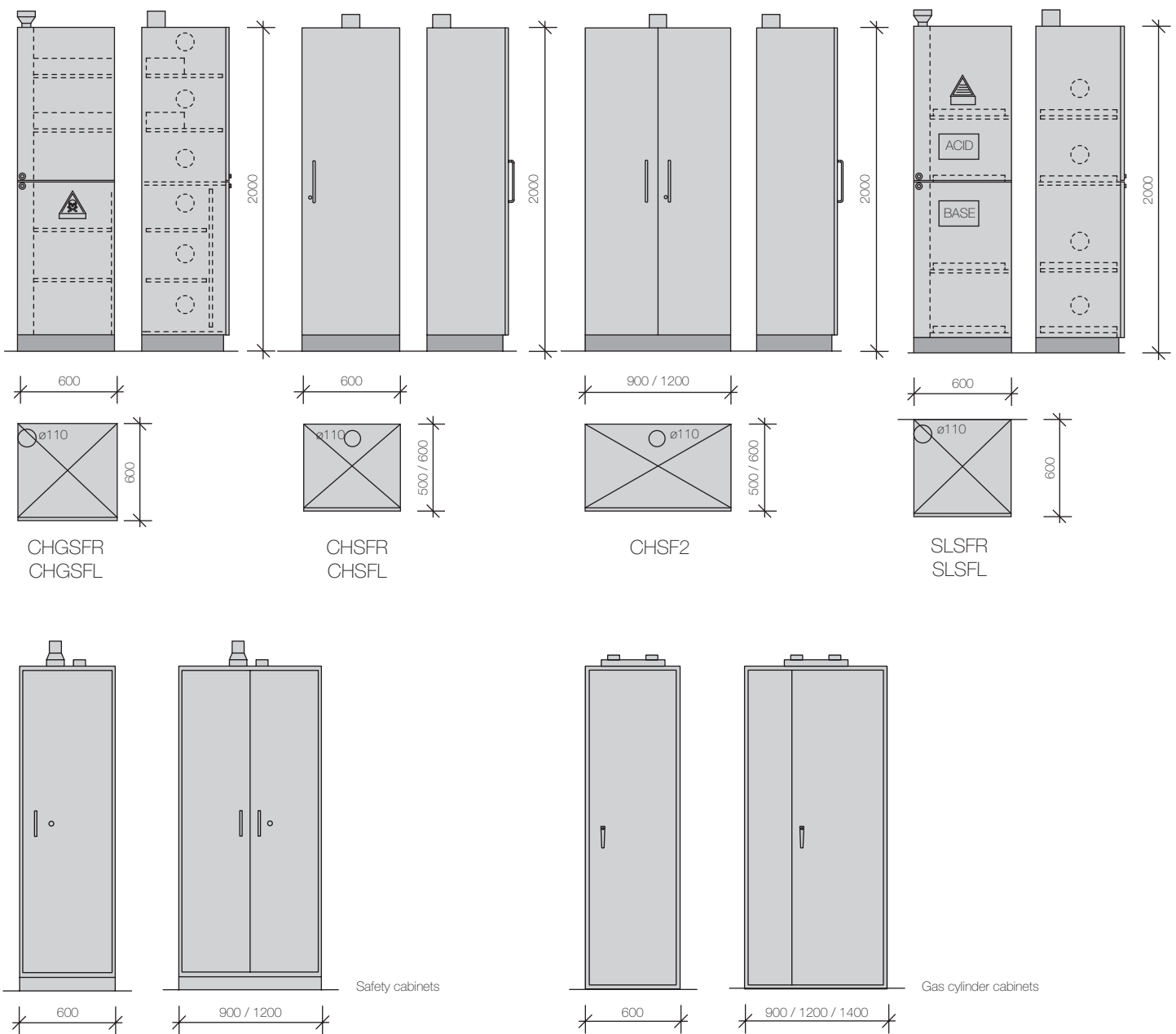
Storage systems| 4.4 Safety cabinets for hazardous materials storage



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)
- Alkalis 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

Safety cabinet / gas cylinder cabinets TYPE 90 in accordance with DIN EN 14470-1, with pull-out, hinged door or folding door

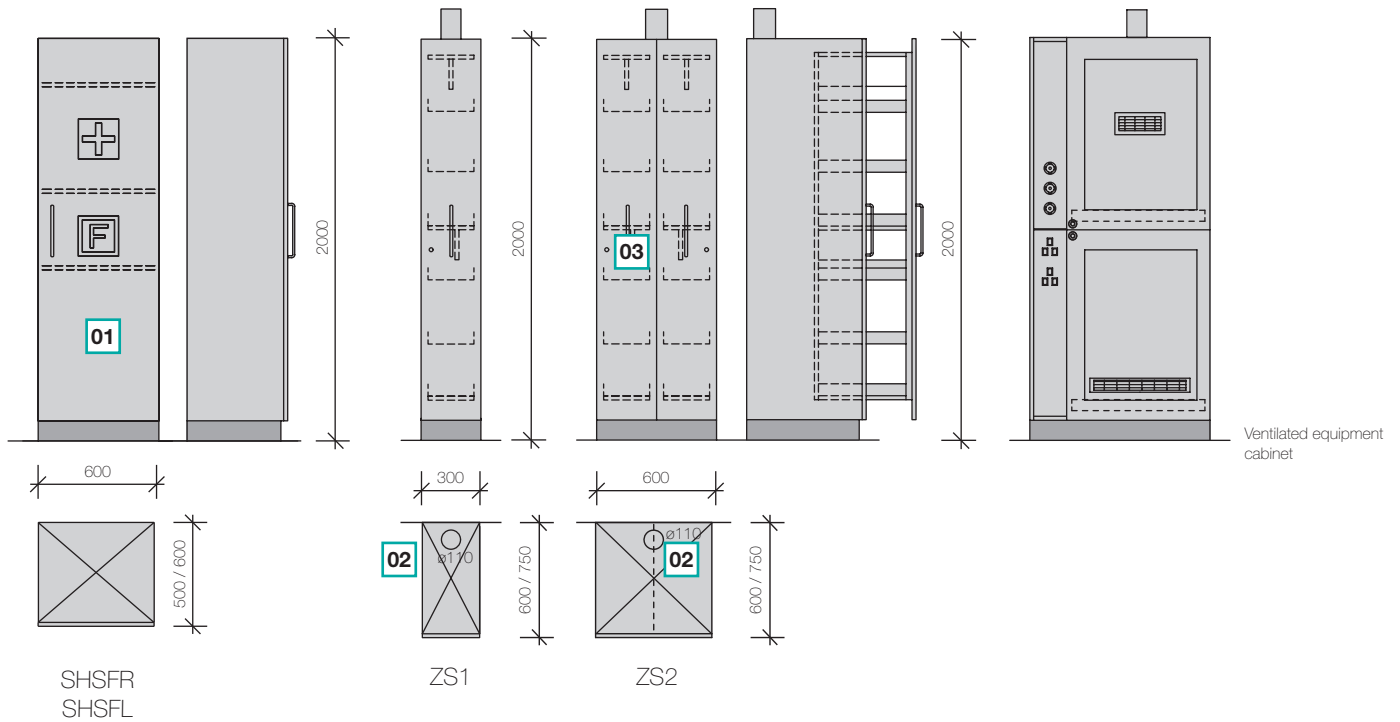
Storage systems | 4.5 Special cabinets



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
 ZS1 Pull-out cabinet, 1 full-height drawer
 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 \varnothing 110 mm
- 03** Option: Lock, available for all tall cabinets

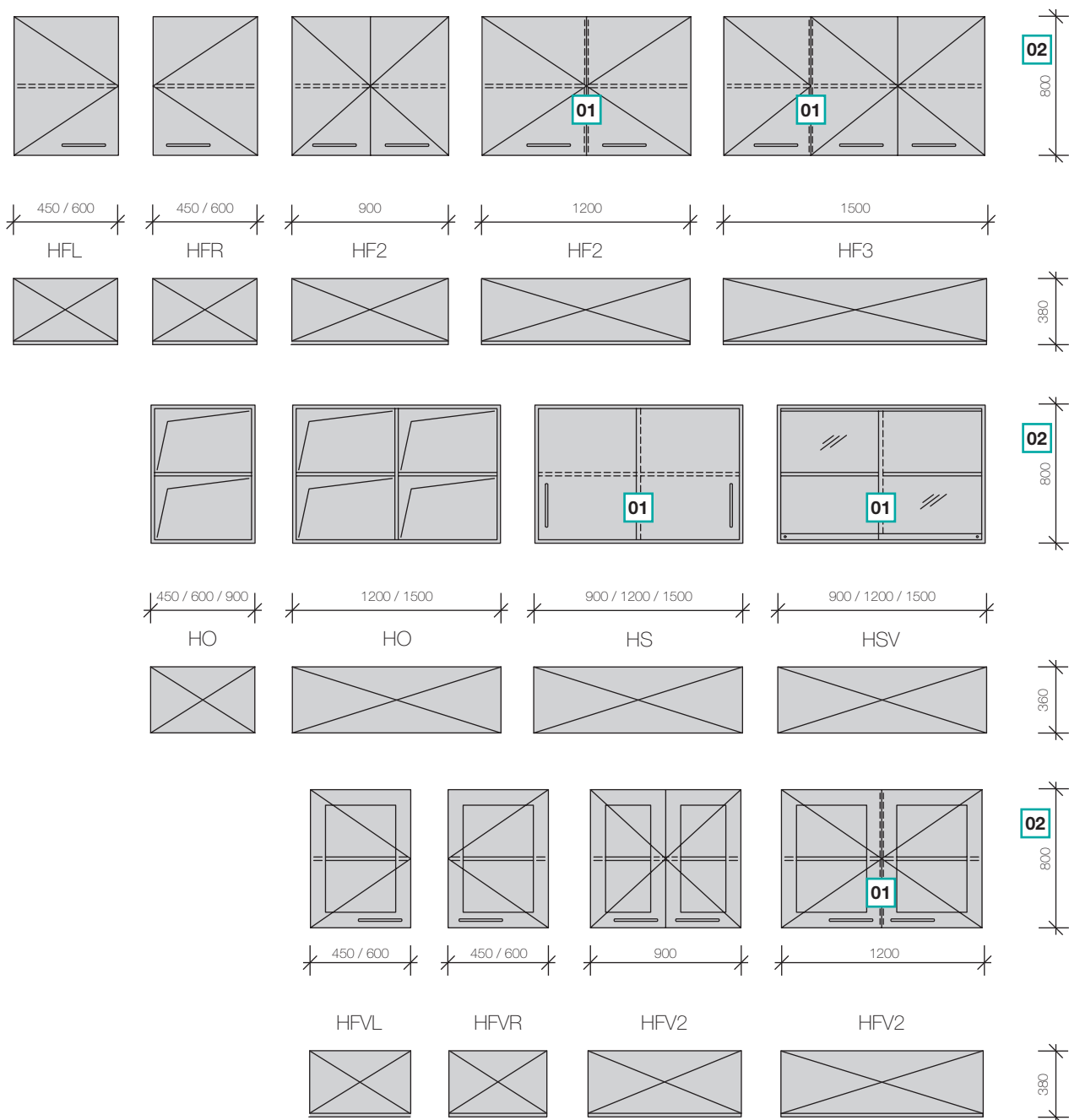
Storage systems | 4.6 Wall / overbench cabinets



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
- Option: Under-cabinet lighting
- Option: Lock

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: Special heights available



Furnishing samples

Furnishing samples



VU AMSTERDAM, NETHERLANDS



Furnishing samples



SANOFI GROUP, GERMANY



Furnishing samples



MEDIZINISCHES FORSCHUNGSZENTRUM, ESSEN, GERMANY



Furnishing samples



TU BERGAKADEMIE, CLEMENS-WINKLER-BAU, FREIBERG, GERMANY



Furnishing samples



TU BERGAKADEMIE, CLEMENS-WINKLER-BAU, FREIBERG, GERMANY



Furnishing samples



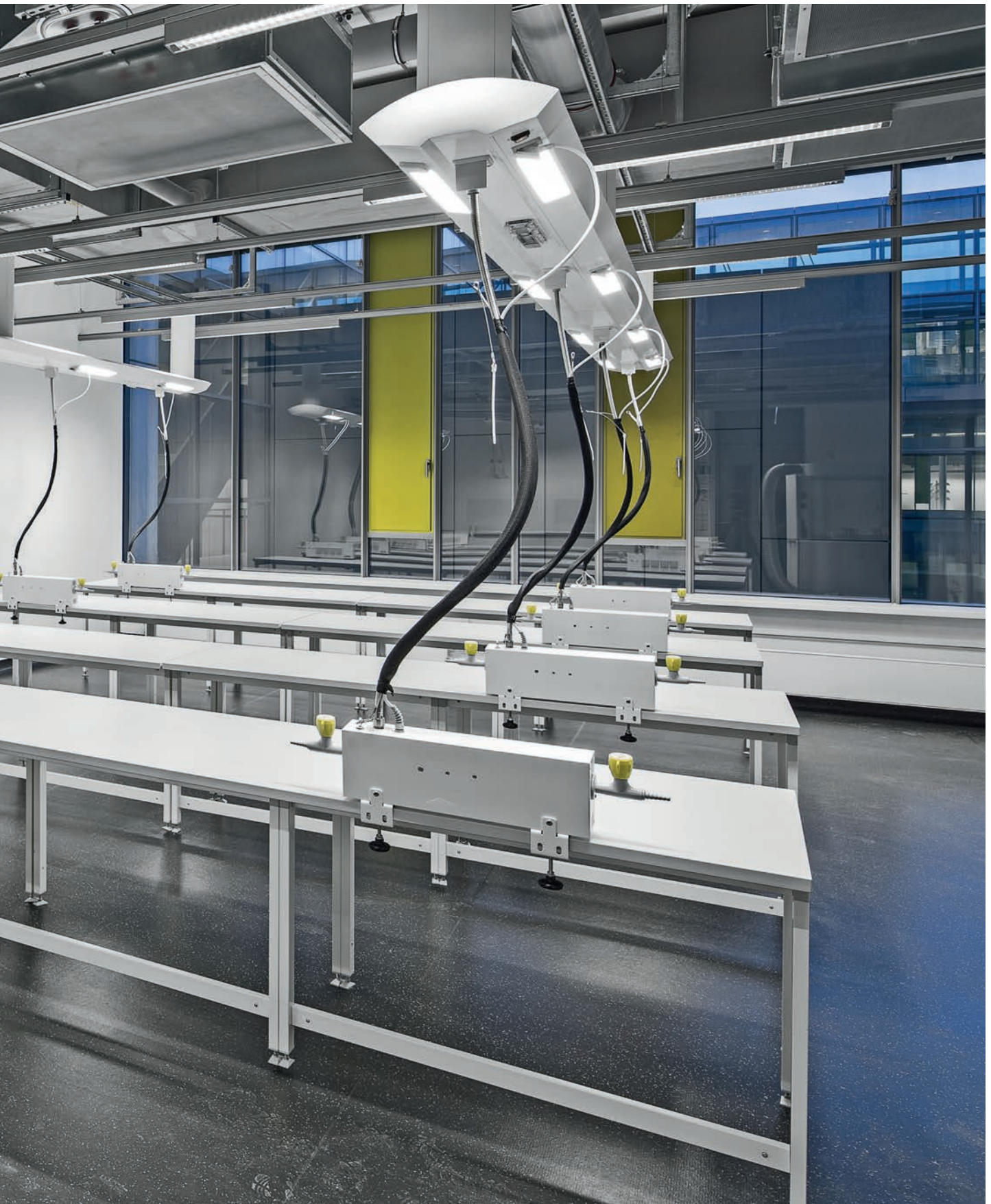
JUSTUS-LIEBIG UNIVERSITÄT GIESSEN, GERMANY



Furnishing samples



JUSTUS-LIEBIG UNIVERSITÄT GIESSEN, GERMANY



Furnishing samples



CELLNANOS OSNABRÜCK, GERMANY



Furnishing samples



LONZA AG BASEL, SWITZERLAND



Headquarters Syke



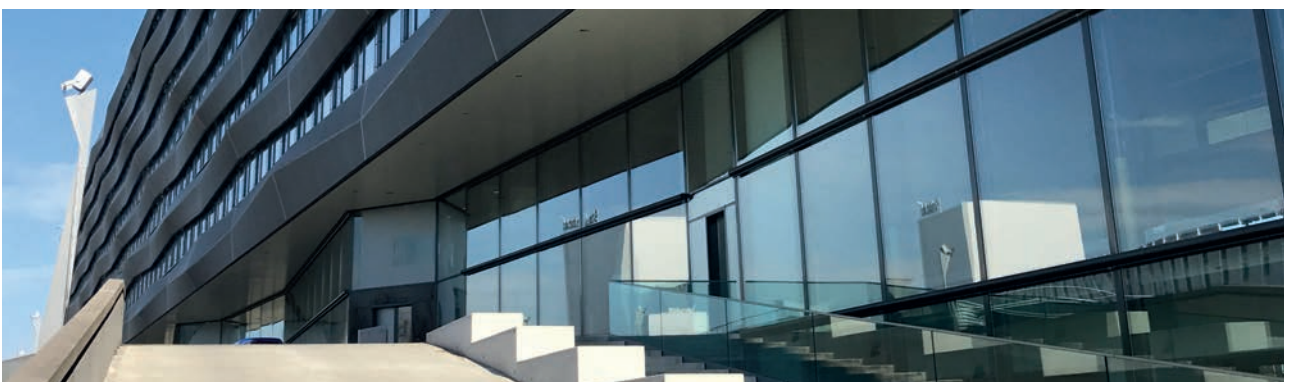
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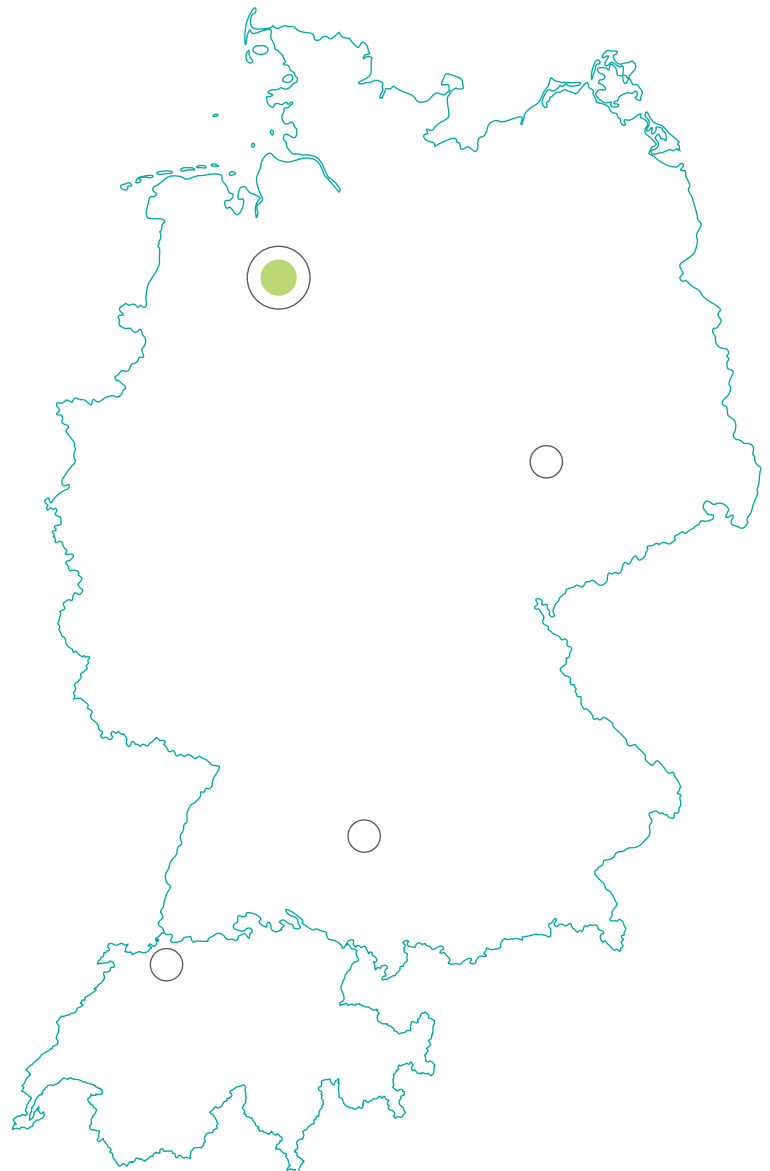
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