

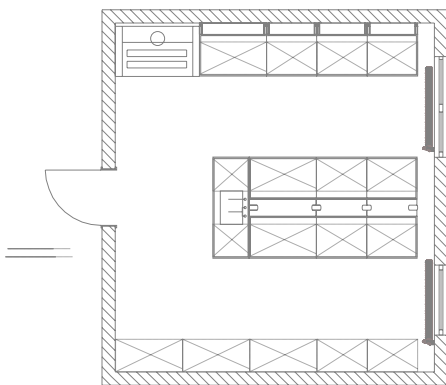
Furniture for people



Innovative. Individual. *Tec-Onomic*



Your strong partner for laboratory equipment

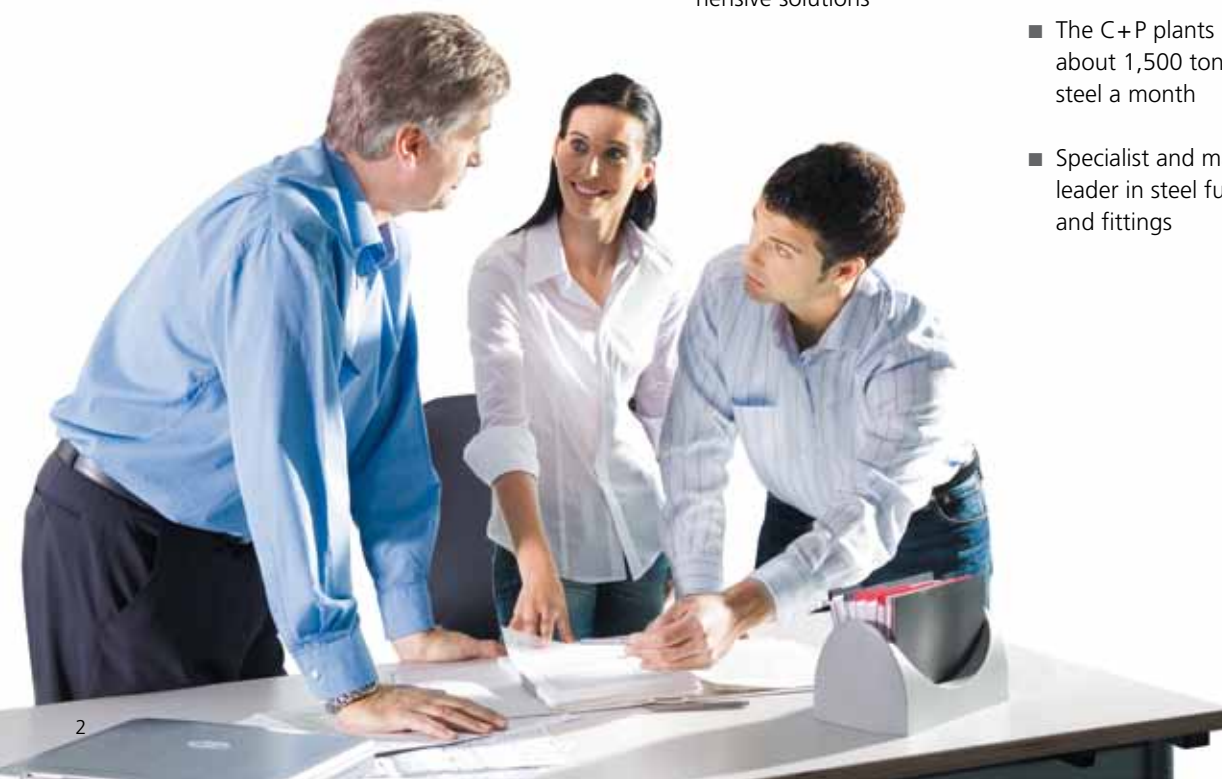


C+P offers a coordinated partnership concept incorporating product solutions and services:

- Laboratory equipment solutions for different target groups and applications
- Project support from acquisition, through planning, to final assembly and delivery
- Advice and support from trained staff
- Attractive furniture accessories range to create comprehensive solutions

C+P in figures:

- Business founded in 1925
- C+P employs about 700 people
- Production locations:
Breidenbach (Hesse)
Gotha (Thuringia)
Legnica (Poland)
- Worldwide distribution
- More than 100 truck-loads leave the C+P plants every week
- The C+P plants process about 1,500 tonnes of steel a month
- Specialist and market leader in steel furnishings and fittings



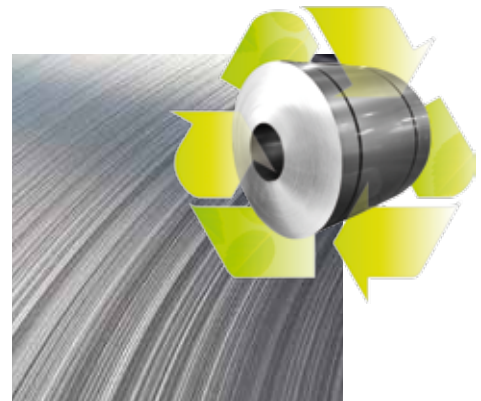


C+P is a specialist in laboratory equipment:

- Know-how built from years of experience executing projects for customers in industry, science, quality control and other facilities
- System solutions for demanding requirements and challenging space constraints
- Outstanding quality based on high-end manufacturing techniques and state of the art machinery
- Highly qualified and experienced workforce specializing in planning, design, assembly and installation

Steel – a green material

- Steel recycling plays a key role in conserving material resources. Because steel can be repeatedly smelted without losing quality.
- Just under half of all the steel in Germany is produced from this "secondary" raw material. That helps to reduce energy demand in production, substantially cutting CO₂ emissions.
- Since steel furniture is lighter than furniture made of wood, less energy is consumed and fewer emissions are produced in its transportation too. Steel combines ecology, stability and design in an ideal way.
www.stahl-info.de





Sample project Sandoz

Laboratory with horizontal service supply. In the background fume hoods with front-mounted slide controller

C+P's comprehensive installation concept was successfully implemented at the Sandoz facility in Rudolstadt:

- On-site customer support and advice
- Complete 3D design planning
- Integration of the specified laboratory equipment into an existing office building
- Supply, installation and service connection of the laboratory equipment and
 - the reception area,
 - the library, etc.

All furnishings and fittings are harmoniously matched, based on a color scheme devised in consultation with the customer.

- the changing facilities,
- the office furnishings,

Underbench cabinet with pull-out and container for waste liquids



Mobile cabinets for HPLC installations. Soundproofed walls shield the area for carrying out desk work

Lockers with forced ventilation and underbench components



Clean-room changing with swing-over bench in the foreground



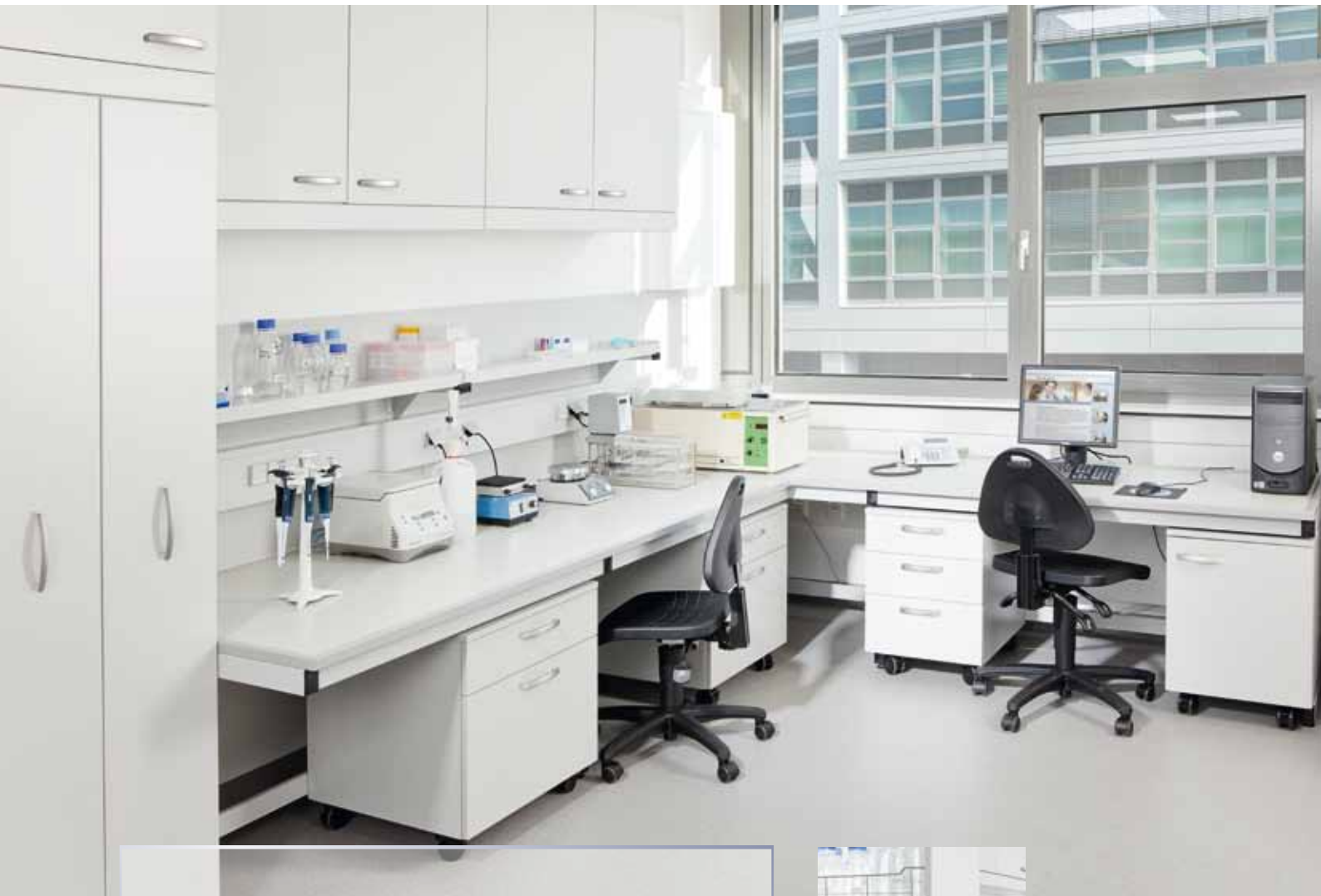
Library and conference room featuring Asisto tables and shelving



Canteen and bistro area



The Sandoz facility in Rudolstadt



Sample project University Hospital of Essen



Pull-out cabinet with height-adjustable storage baskets and bins for optimized space usage

A wide variety of demands had to be on this project: flexibility of the planned work procedures, available space, regulatory requirements and customer-specific needs.

The concept was devised in consultation with the customer. A basic requirement was the

configuration of all areas (laboratory, measurement and analysis area) for both high-intensity equipment use and for the performance of manual tasks.

The furnishings used had to be easily reconfigurable to carry out new tasks.

This was achieved by means of system components assuring maximum adaptability, flexibility, interchangeability and expandability.



Sink cabinet with Trespa® worktop, featuring two built-under sinks made of technical ceramic and side splash guard made of Makrolon®.



Fume hood with adjacent sink, worktop made of high-pressure laminate (HPL) and built-under sink made of technical ceramic material.



Double laboratory bench with worktop made of technical ceramic material and vertical service supply, also featuring HPL panels to screen off the opposite work areas.

Mobile underbench cabinets provide greater flexibility and more freedom of movement.



Customer-specific solutions

Laboratory wall cell with integrated partition, tailored precisely to the customer's needs.

Every laboratory design concept must meet individual demands, and many laboratory facilities pose very specific challenges.

So creating custom solutions – building on the underlying flexibility of the TEC-ONOMIC system – is part of our everyday business.

In doing so, we enable you also to benefit from C+P's experience in many different sectors and on a wide range of projects. In fact, there are few installation challenges which we have not met opti-

mally for our customers at some time in the past – from power cells to fume hoods; from storage solutions to ergonomic workstations:

Your needs are our guiding rule – whether in the integration of technical systems; in the creation of custom design solutions; in design, material, color matching and styling; or simply in tailoring installations to the specific site conditions.

Infinitely height-adjustable stainless steel hanging cabinet with glass sliding doors.



Wall laboratory with mobile stainless steel cabinets and integrated OR light.



Wall laboratory with sink and pure-water system including dispenser.



Underbench cabinet for pull-out pure-water system

Desk workstations with full toughened safety glass (TSG) partitioning. Cable-free workspace thanks to under-desk electrical installation

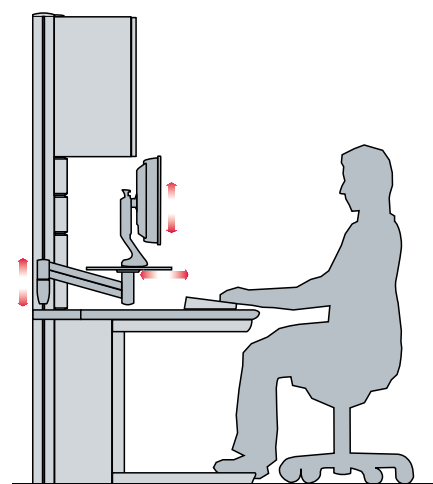
Fume hood with volume flow control. The special underbench cabinets to store acids and alkalis and the separate FW 90 hazardous materials cabinet have a separate extraction system.





Example laboratory configuration with integrated computer workstation

Shown in this example: Full utilization of corner spaces; standard-compliant computer workstations; integration of a walk-in fume hood; service supply columns in various heights; and a wide variety of cabinet versions for any storage needs. With TEC-ONOMIC everything is easy!



Talking about: Computer workstations

Thanks to C+P's expertise in office furnishing, in which nowadays almost every workplace is a computer worksta-

tion, you can also profit from our detailed knowledge of the relevant laws and standards to configure your laboratory workstations.

Integrating custom solutions

Integration of accessory lab equipment, such as a washer



Wall laboratory with hanging cabinets



At a glance:

- Integration of computer workstations for standing and seated work
- Built-in or built-under lab equipment (washers, refrigerators, etc.) from a wide range of leading manufacturers
- Hanging cabinets optionally wall-mounted or – if wall loading is not possible – mounted on service supply columns
- Flexible sanitation and electrical service supply configuration
- Custom underbench cabinet configuration featuring hinged doors, drawers or shelves, single or combined.



Double laboratory bench with glass shelves and custom underbench cabinet configuration

Modularity is everything: Documentation area with adjacent tall cabinet. Number of shelves can be customized according to usage.

The underbench cabinet can be fitted out with drawers or also hinged doors.





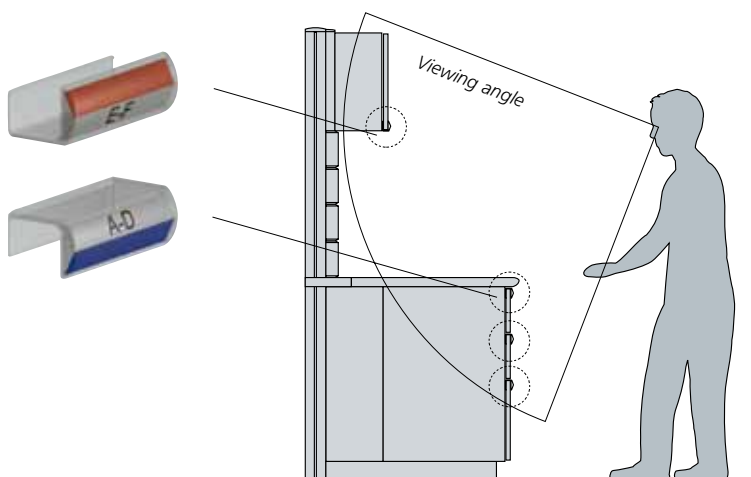
Wall laboratory as corner solution with glass shelves and work island with service supply column and side shelving

The modular design of this wall laboratory unit enables optimum adaptation to the available space. Service supply points can be exchanged or added. Integrated oval tubes between the service supply columns permit easy installation of perforated panels, paper holders, etc. and – together with the exemplary labeling system – ensure good order is maintained in the laboratory.



Talking about: Organizing / Labeling

Transparent labels identify cabinet contents. The labels' wedge shape ensures optimum visibility of labeling on both under-bench and hanging cabinets. The labels can be slotted onto the cabinet fronts as required, and can be located wherever needed to identify the content.



Needs-based organization

Drawers with variable boltless system and special labels



Integrated waste system for separated disposal



At a glance:

- Intelligent, variable labeling system, featuring universal boltless attachment to hinged doors and drawers
- Drawer configuration can be adapted at any time to specific working needs thanks to a variable boltless system
- A range of administrative and organizational elements can be attached directly to system components (see illustrations on these pages)
- Disposal of different waste materials based on pull-out waste systems



Copy holder as sloping shelf

Combination cabinet



Underbench cabinet for compliant storage of hazardous materials





Laboratory equipment featuring optimized corner solutions, such as for the analytics lab

Making optimum use of space

Laboratory working and storage space is valuable. With TEC-ONOMIC not a square inch is wasted: Inside corner solutions, front-end shelving units and pull-out racks optimize space usage even in the smallest lab.



Wall workbench and fume hood with AIR-TEC exhaust air extraction system, pull-out cabinet with integrated interior fittings

*Utilization of high-up space
with pull-out equipment
racks enabling easier access
(such as when connecting/
disconnecting equipment)*



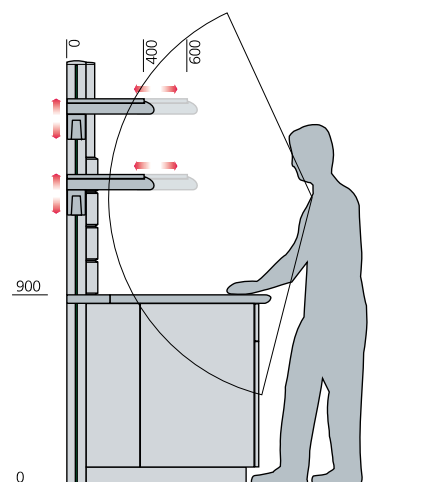
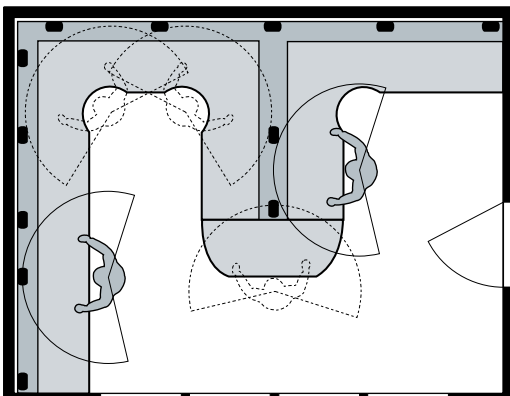
The rail-attached ladder system provides quick access to high cabinets

At a glance:

- Additionally utilizing high-up space optimizes access to equipment and storage locations
- Efficient, optimized configuration of corners and niches provides an integrated work environment and enhances work procedures



Tall pull-out cabinet with height-adjustable interior fittings



TEC-ONOMIC is available in vertical and horizontal variants.

For **both** systems we offer cabinets in steel or wood, or in combinations of the two.

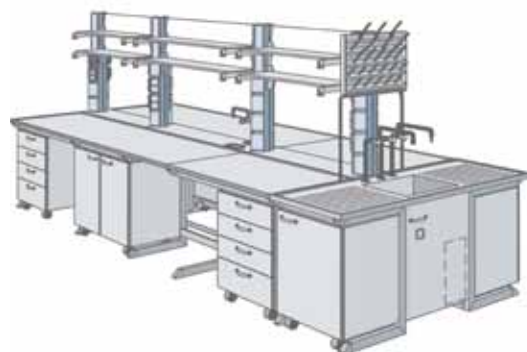
Vertical



Vertical system

System with **vertical** service supply. Service supply inside vertical columns

- Load-bearing power cell racks in 160 x 90 mm aluminum section, with slots to accommodate the sanitation and electrical modules, reagent racks and hanging cabinets, and for infinitely adjustable mounting of a wide variety of other add-on units
- Transparency based on splash guards made of composite safety glass or reach-throughs between the service supply columns
- Optimized use of space, utilizing corners and front-end faces to provide an integrated work environment even where space is tight
- Galvanized sheet-steel hopper array with epoxy-polyester powder coating, with inset PP hopper if required
- Modular service supply; electrical and sanitation modules can be exchanged or added post-installation
- Infinitely height-adjustable equipment racks, optionally pull-out
- Functional working aids: Custom positionable perforated panels, small-part trays, paper towel holders, mounting brackets for telephones and monitors, copy holders, etc.



The TEC-ONOMIC system concept

Horizontal

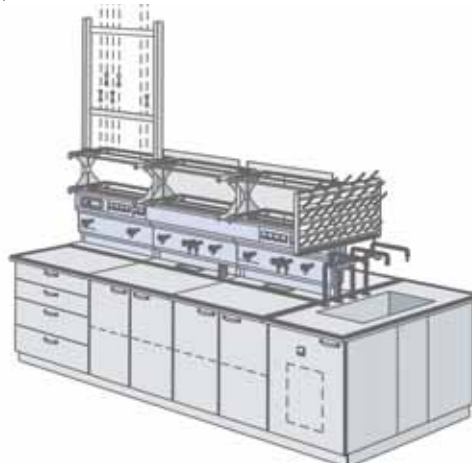


Horizontal system

System with **horizontal** service supply. Service supply inside large-area panels arrayed alongside each other

- Load-bearing power cell racks in 60 x 40 mm aluminum section, with slots to accommodate reagent racks and hanging cabinets, and for infinitely adjustable mounting of a wide variety of other add-on units
- Seamless service supply arrays over the entire step width
- Infinitely height-adjustable equipment racks, optionally pull-out

- Optimized component mounting on sanitation, electrical and pure-gas installations
- Galvanized sheet-steel hopper array with epoxy-polyester powder coating, with inset PP hopper if required

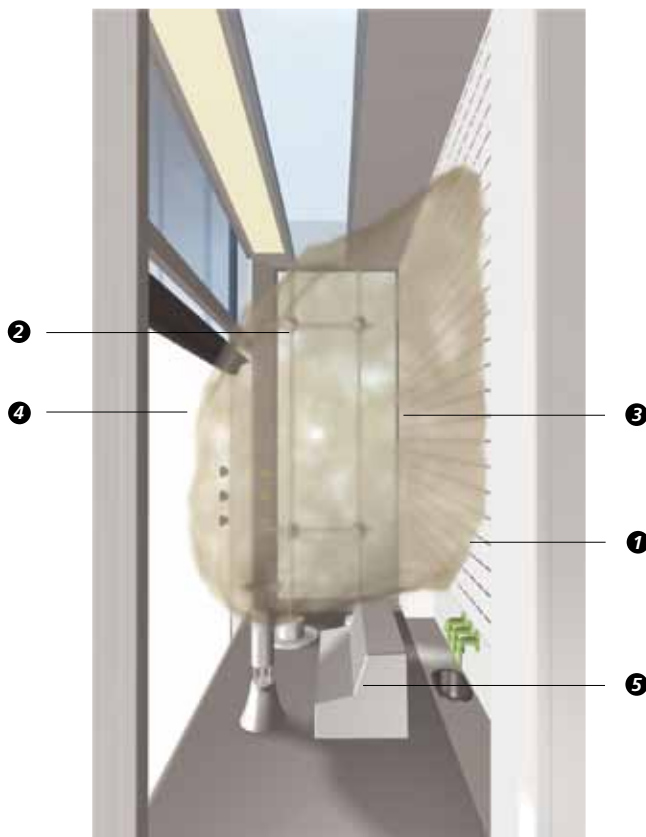


The AIR-TEC exhaust air extraction system

The AIR-TEC exhaust air extraction system complies with all standards and for some practical applications extends well beyond them.

This is accomplished by virtually full-area extraction through the specially perforated back wall of the fume hood. This technique reduces turbu-

lence or enrichment of pollutant gases in the vicinity of equipment and installations. A virtually constant laminar exhaust air flow is created.



At a glance:

- ❶ Specially perforated fume hood back wall
- ❷ Test installations
- ❸ Interior flow
- ❹ Full extraction capacity even with the window open
- ❺ Equipment, installations



Low-room fume hood



Bench fume hood



Low-level fume hood

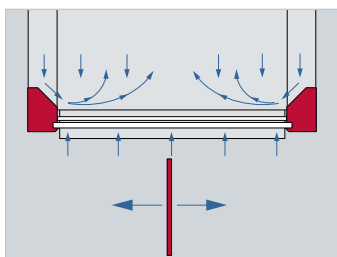


Walk-in fume hood

Outstanding retention capacity:

In accordance with EN 14175, a fume hood must be capable of maintaining its retention capacity even in the event of external disturbance upstream of the fume hood.

This disturbance is simulated in a robustness test, in which a plate is moved back and forth in front of the fume hood to create air turbulence. The geometry of the columns on the front of the TEC-ONOMIC fume hoods diverts the flow (see graphic), preventing air from escaping from inside the fume hood.



TEC-ONOMIC fume hood with AIR-TEC extraction system and acid-alkali cabinet with exhaust air extraction



Gaseous media (valve on outside, tapping point on inside)



Power supply (switch on outside, socket on inside)

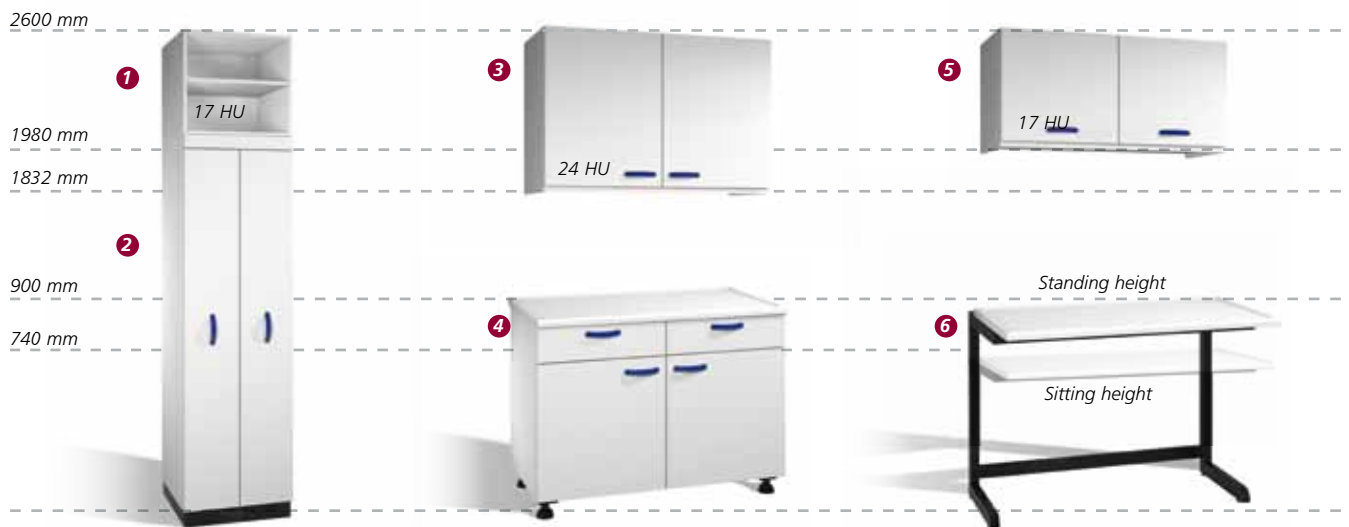
The TEC-ONOMIC cabinet concept

The option to use rollers instead of feet or plinths (on the same cabinet) enables laboratory unit components to be interchanged and reconfigured with

other equipment combinations. There is no need to dismantle and reinstall the systems when doing so. This makes it possible to deploy complex analytical

systems more efficiently for varying project-specific tasks at multiple workstations with no additional installation effort.

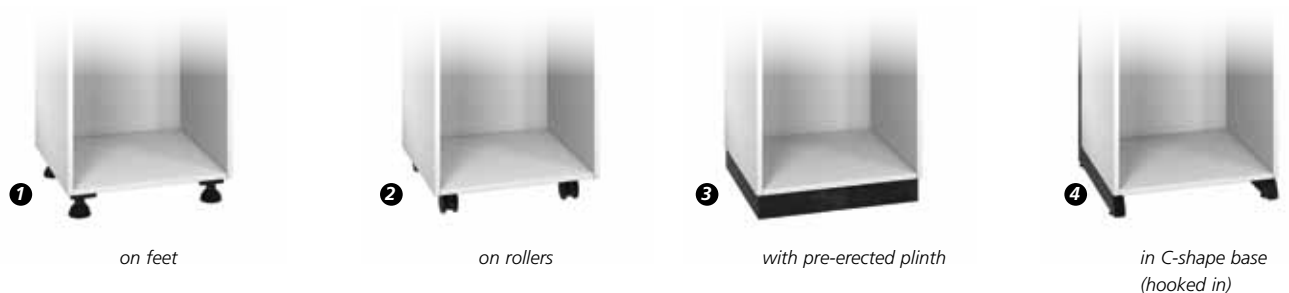
Height space for flexible configuration



Variability of door configuration



Various underbench units



Steel or wood/plastic – both are possible!

To meet as wide a range of customer needs as possible, the TEC-ONOMIC laboratory furniture system is available in two material qualities:

- Highly durable solid sheet-steel construction with limitless color options, fire load resistant

- Wood/plastic, with similarly high quality characteristics in terms of safety and functionality.

In the wood/plastic variant, the housings and front panels are made of 19 mm thick E1 grade press board coated on both sides with melamine resin.

The edges of the hinged doors and drawer fronts are fitted with ABS edge banding.

The shelves in both variants are made of powder-coated sheet steel (electrogalvanized). This increases their load capacity, and prevents them from bending.

The drawers are made of powder-coated sheet steel (electrogalvanized) featuring full extensions, self-closing, and with end position damping.



Example
Variant
Melamine (wood)



Light gray
similar to RAL
7035

Example
Steel



Gentian blue
RAL 5010



For color and
decor selection see
pages 24 and 25



From planning to the project.



Good planning is a good part of the job.

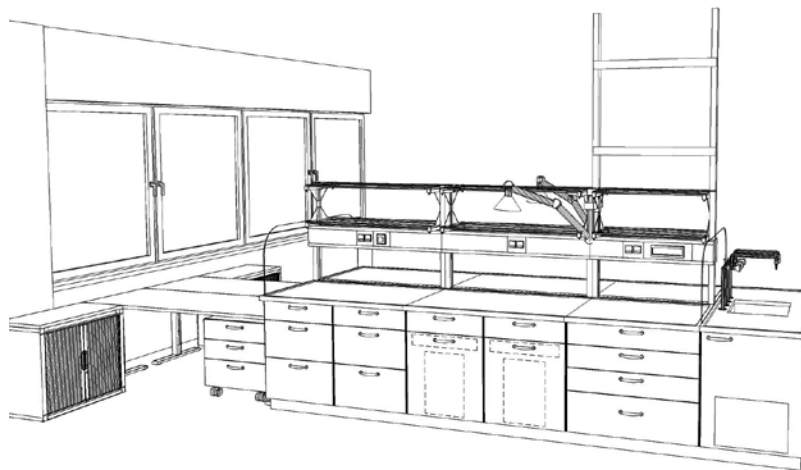
Nothing can be left to chance when planning installations:
How future-proof is the design?

Have all legal requirements been met?
What colors and materials will best meet the users' demands? What connections for sanitation, electrical and

ventilation systems will be needed?

Our experts will advise you in all relevant matters, and will translate your ideas into reality.

3D planning



3D rendering with textures





Finished installation: WEILBURGER Coatings GmbH



Detailed views of the laboratory equipment

Worktop qualities

Tabletops

Other materials are available on request.

Melamine resin panel

Applications:

- Workstations in dry zones, e.g. documentation tables

Trespa® solid-core panel

Applications:

- Wet room
- Chemical, microbiological, genetic engineering labs

Stainless steel panel

Applications:

- For ultra-high demands in the decontamination field, also resistance to damp and foodstuffs
- Biology/Microbiology
- Pharmaceuticals

Porcelain stoneware panel

Applications:

- Areas subject to ultra-high chemical loading

Porcelain stoneware composite panel

Applications:

- Areas subject to ultra-high chemical loading

Polypropylene panel

Applications:

- Areas providing high resistance to chemicals

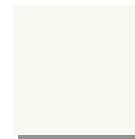
Colors



White
DBS 001



Light gray
DBS 000



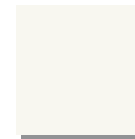
White



Light gray



Stainless steel



White



Light gray



Light gray



Light gray



Almost all panels are available in variants with or without beaded edging

Fronts and carcasses

- Melamine-coated surfaces with edge banding, 19 mm thick

Melamine decor panels

3-layer fine particle board, 19 mm



White
DBS 001

Light gray
DBS 000

Standard



Silver-gray
DBS 002

Maple
DBS 004

Beech
DBS 005

Cherry
DBS 003

Wenge
DBS 006

These and other decor options available on request

Color group 0 (for steel cabinets and metal components)



Light gray
RAL 7035

Anthracite
RAL 7021
(black-gray)

Volcano gray
RDS 000 50 00

Color group I (for steel cabinets and metal components)



Lapis blue
RDS 270 20 29

Fire red
RAL 3000

Burgundy red
RDS 010 20 25

Ruby red
RAL 3003

Light green
RAL 6027

Water blue
RAL 5021

Color group II (for steel cabinets and metal components)



Pastel yellow
RDS 095 90 30

Sulfur yellow
RDS 095 90 59

Sun yellow
RDS 080 80 60

Yellow-orange
RAL 2000

Pastel green
RDS 110 90 20

Viridine green
RDS 110 80 60



Pure white
RAL 9010

White aluminum
RAL 9006

Gray aluminum
RAL 9007



Color groups 0-II are only available for steel. Other colors on request



C + P. At home in every sector.

Our broad and continually expanding product range provides customer-oriented solutions for virtually any application and budget.

- From team workstations to the boardroom.
- From offices or archives, through warehouses and workshops, to
- changing facilities, locker-rooms, as well as fitness and wellness areas.





The C+P catalog program offers everything to meet your needs: benches and workstations; storage and archiving; warehouse and workshop outfitting; as well as changing and locker-room equipment.



Want to find out more about furnishings and fittings from C+P?

Then our installation reports are just what you need. The reports demonstrate the versatility of C+P furnishings and fittings in practice: from swimming pools to indoor skiing complexes; from banks to office buildings; from rehab centers to changing facilities for industrial plants.

Just visit **www.cp.de** to request one.



The choice is yours.

The TEC-ONOMIC range is highly flexible and versatile. Because we place great value in variability. And we are certain that we have just the right solutions for you too!

Your C+P advisor will be glad to provide you with more information and show you the optimum solution for your installation.

The vertical service supply columns of the C+P TEC-ONOMIC series are available...

...in various step widths and heights

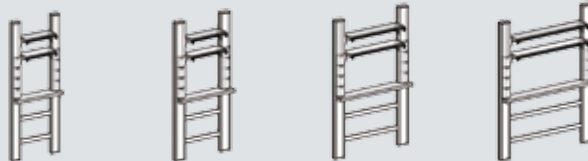
Width 600 mm

Width 900 mm

Width 1200 mm

Width 1500 mm

Height 1540/1980/2600 mm



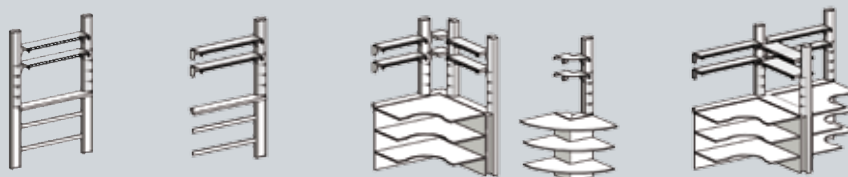
...for modular configuration

as single/start modules

as follow-on/end modules

as corner modules

as T-modules



The horizontal service supply columns of the C+P TEC-ONOMIC series are available...

...in various step widths

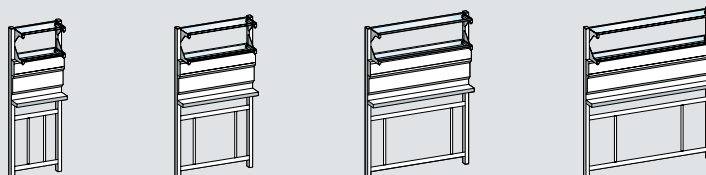
Width 600 mm

Width 900 mm

Width 1200 mm

Width 1500 mm

Height 1715 mm



The fume hoods of the C+P TEC-ONOMIC series are available...

...in 4 functions

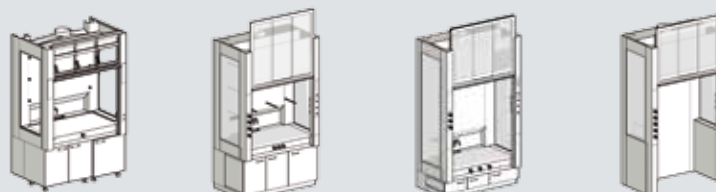
as bench fume hood/low-room fume hood

as low fume hood

as walk-in fume hood

with front slider, 2- or 4-track

Single front slider or telescopic slider



...with various built-under units and widths

- Shelves,

- Drawer cabinets

- Hinged door cabinets

- Acid and alkali cabinets in widths 600, 900, 1200 mm, combinable in modular configuration



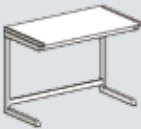
The Monotop flexible partition wall system and the ergonomically styled standing/sitting workstation ideally complement the C+P laboratory range. Take a look for yourself!



The workbenches of the C+P TEC-ONOMIC series are available...

...as C-shape bases

- Low
- Sitting workbench height
- Standing workbench height
- in the widths
600/900/1200/1500/1800 mm



...as four-foot bases

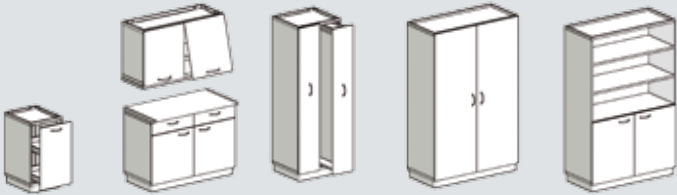
- with or without rollers
- with A-feet
- Sitting workbench height
- Standing workbench height



The cabinets of the C+P TEC-ONOMIC series are available...

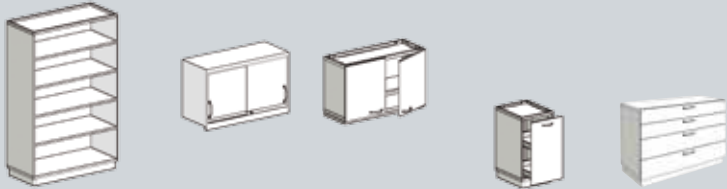
...in numerous variants

- Various widths
450/ 600/ 900/ 1200 mm
- Flexible height space
740/ 900/ 1980 mm
- Various functions



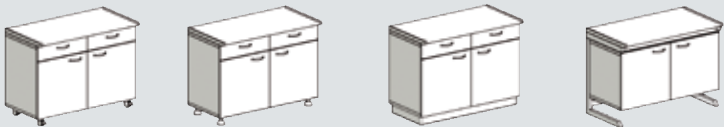
...with a range of door variants

- as open shelving
- as flap-door cabinets
- as hinged door cabinets
- as pull-out/equipment storage cabinets
- as sliding door cabinets



...as underbench cabinet at sitting or standing height

- with various built-under units:
- on rollers
- with pre-erected plinth
- on feet
- in C-shape base (hooked in)



Incidentally:

C+P is an expert in tasteful and efficient furnishings and fittings made of steel. We have been specializing in the field for decades. So it is no wonder that our customers have enabled C+P to become the market leader in numerous product segments.

To find out more about TEC-ONOMIC contact:

info@cp-lab.ae

www.cp-lab.ae

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FNC Complex

Building 13, Unit 10

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www.cp-lab.ae

Furniture for people

