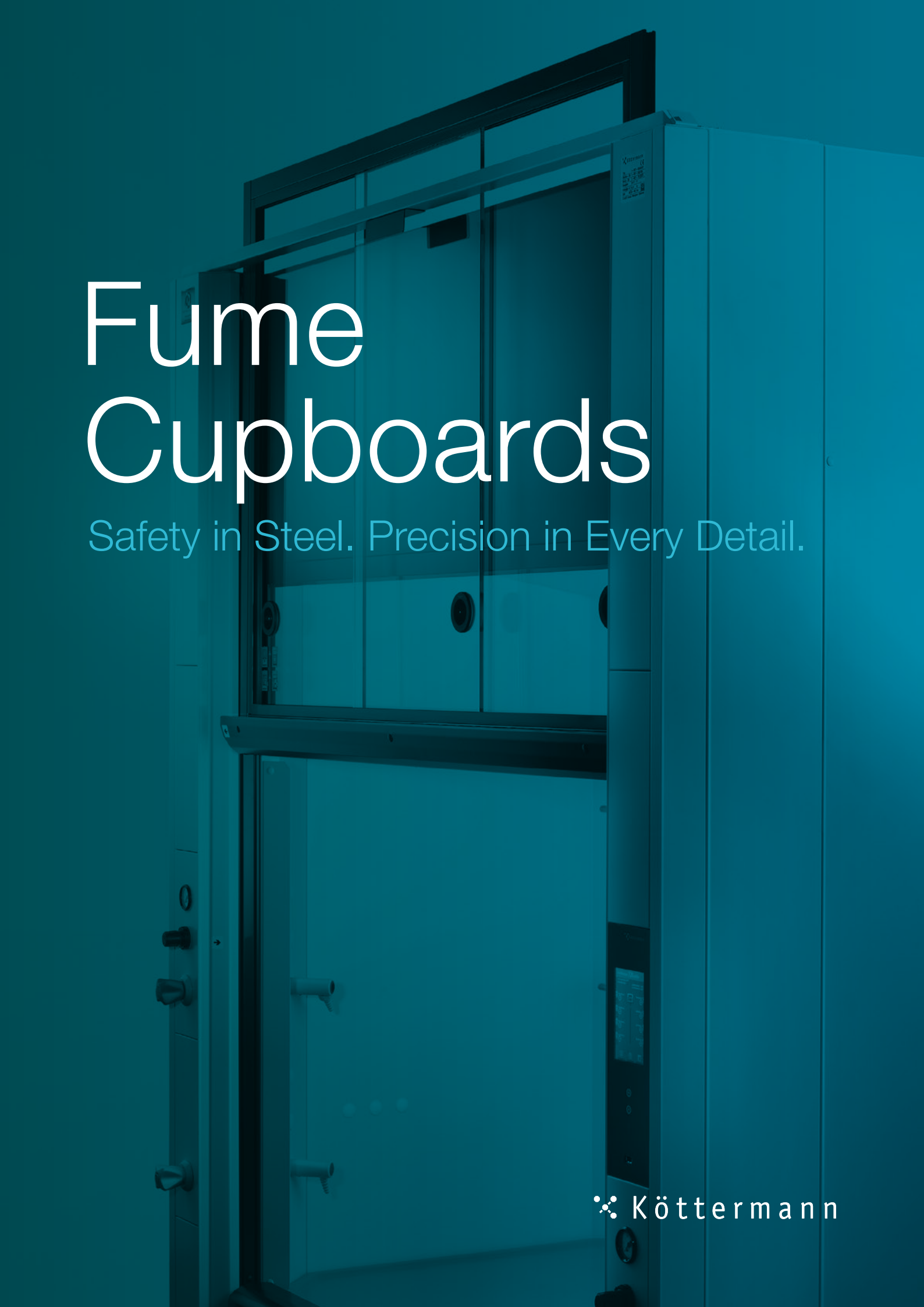

Fume Cupboards

Safety in Steel. Precision in Every Detail.

Köttermann

Reliably Safe

Every movement counts in the laboratory. Köttermann fume cupboards not only protect laboratory environments and processes, but above all the people who work within them – combining intelligent technology, durable steel construction and product design that unites safety and efficiency.

Our fume cupboards create safe working environments within the laboratory. Individually manufactured, engineered down to the finest detail and precisely tailored to your requirements – so you can focus entirely on your work.

Why Fume Cupboards Are Essential

International safety regulations require the use of fume cupboards whenever hazardous gases, vapours or particles may be released during laboratory work.

Tested and Certified Safety

Certified in accordance with EN 14175 and accredited by independent notified bodies. Complies with operating conditions defined by British Standard, AFNOR NFX15-206 and BG RCI exposure limits.
Your advantage: documented safety – for every application.

Key Benefits

Protection of personnel	Hazardous substances are reliably extracted – ensuring safe working conditions in everyday laboratory practice.
Optimised workflows	Well thought-out ergonomics, intuitive operation and flexible configurations support efficient laboratory processes.
Sustainable operation	Durable corrosion-resistant steel and intelligent air control technology reduce costs and energy consumption over the lifecycle.
Certified and compliant	All fume cupboards are tested and certified in accordance with EN 14175 and meet international requirements with high safety margins.
Intelligent system integration	Integrated monitoring electronics continuously check the extract volume flow rate and provide reliable warnings in the event of deviations. If required, alarm signals can be forwarded directly to a building management system.

Fume Cupboards Fulfil Three Central Safety Objectives

1

Protection against hazardous substances

Hazardous substances remain safely contained within the fume cupboard and do not escape into the room air.

2

Protection against explosions

Constant airflow prevents the formation of explosive atmospheres inside the fume cupboard.

3

Protection in case of accidents

The closed sash protects against splashes of hazardous chemicals and flying glass fragments.

Engineered to Meet the Highest Demands

1 Construction & Safety

Steel – durable and non-combustible
Robust, fully recyclable steel construction ensures maximum stability, long service life and safety in daily laboratory operation.

Aerodynamically optimised design
High containment levels achieved through optimised aerodynamic airflow – ensuring stable flow conditions.

Generous interior depth
Thanks to the octagonal geometry, the spacious 800 mm interior depth provides ample room for equipment, complex set-ups and demanding experiments.

2 Ergonomics & Operation

TouchTronic control unit
All functions at a glance in digital form: intuitive control, clear display and rapid adjustment during operation.

Service outlets in the front
Gas and water outlets are ergonomically positioned at the front of the interior – easily accessible without having to lean into the fume cupboard.

Foot switch
Open and close the sash with your foot – leaving both hands free for working safely.

3 Integration & Flexibility

Sockets in the fume cupboard interior
Individually switchable and controllable via TouchTronic – including timer functions for defined operating times.

Cable routing via the inflow profile
Clean cable management for appliances connected to sockets outside of the fume cupboard interior, allowing the sash to close fully.

Modular expandability
Cassette-based system for maximum adaptability. Underbench safety cabinets or acid and base cabinets can also be integrated flexibly.

4 Availability & Maintenance

Fast and reliable
Tailor-made solutions with short project lead times – from planning and manufacturing to professional installation.

Service without compromise
Maintenance-friendly designs, such as easily accessible counterweights in the fume cupboard columns, enable quick servicing with minimal effort.

Fume Cupboards for Every Application

Laboratory fume cupboard requirements are as varied as the applications encountered in everyday laboratory work. Köttermann therefore offers a comprehensive range of fume cupboard models – from laboratory fume cupboards for general-purpose applications, through specialised high-performance fume cupboards for concentrated acids and high heat loads, to radionuclide fume cupboards for working with radioactive isotopes.

There are also numerous options available in terms of size and configuration: bench type fume cupboards at an ergonomic standing work height, distillation fume cupboards and walk-in fume cupboards with particularly spacious interiors, as well as special models for rooms with low ceiling heights. This allows safety requirements, workflows and spatial conditions to be optimally combined.

The All-Rounder – Bench Type Fume Cupboard

The universal classic for everyday laboratory work.

The bench type fume cupboard is suitable for a wide range of chemical applications. Its design, which features no rear baffle, makes cleaning particularly convenient and efficient. At the same time, the fume cupboard ensures ergonomic and safe working conditions in accordance with current regulations and standards.

For laboratories with low ceilings, a reduced-height version with a height of just 2300 mm is also available.

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Typical applications include:

- ✔ Working with volatile hazardous substances
- ✔ Laboratory processes involving low to moderate heat release
- ✔ General research and development work

Special fume cupboards are required for specific applications – for example, when working with hot, concentrated acids, performing acid digestion processes with high heat loads, or carrying out work involving radioactive isotopes.

The Specialists

Distillation Fume Cupboard

More vertical space for larger set-ups.

Lowered worktop for large equipment, distillation assemblies or tall devices.

Application examples:

- ✔ Preparative chemistry, where large-scale distillations, syntheses or reactions with extensive glassware set-ups are installed inside the fume cupboard.
- ✔ Industrial laboratories carrying out production tests involving larger quantities or bulky experimental equipment.

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Walk-in Fume Cupboard

Maximum flexibility and safety for demanding processes.

Designed for large-scale set-ups, preparative chemistry and technical applications. Large and heavy apparatus can be moved directly into the interior of the fume cupboard on a mobile table.

Areas of application:

- ✔ Research and development, where large-scale appliances or systems must be installed and operated directly inside the cupboard – for example tall distillation columns or extensive chromatography systems.
- ✔ Chemical and pharmaceutical production environments, where experiments or processes involving larger quantities of substances must be carried out safely and reliably.

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High-Performance Fume Cupboard

Designed for high thermal and acid loads.

For aggressive substances, high temperatures or hydrofluoric acid. Available with a ceramic or polypropylene lining, depending on the application. Certified in accordance with EN 14175-7.

Typical applications include:

- ✔ Acid digestion for sample preparation in elemental analysis, for example in spectrometric methods such as AAS or ICP, where maximum safety and reliable protection are essential.
- ✔ Metallurgy and materials analysis, involving processes with high thermal loads or the digestion of samples using aggressive chemicals.

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Radionuclide Fume Cupboard

Köttermann's specialised solution for radioactive substances.

Featuring a seamlessly welded stainless-steel interior and optional lead lining to meet the highest hygiene and radiation protection requirements.

High load capacity allows the safe installation of heavy lead shielding commonly used in experiments involving radioactive isotopes.

Compliant with the latest European standard EN 14175-8.

Application examples:

- ✔ Nuclear medicine and diagnostics, for sample preparation using radioactive tracers.
- ✔ Radiochemistry or isotope laboratories, for the safe handling of volatile or contamination-prone radioactive materials.

Customisable Configuration

Down to the Last Detail.

1

Sash

Composite glass · Polyacrylic · Polycarbonate
Smooth and precise – available in either manual or automatic version. Available as a single-piece or two-piece telescopic front sash with fixed or sliding panes.

2

Lighting

500 lux · 1000 lux
Energy-saving LED lighting – controlled separately via the control unit and optimally tailored to the workspace.

3

Rear baffle

EcoPlus · British Standard · EKAS 1871
Suitable rear baffles are available for specialised applications and country-specific requirements.

4

Service supply

Gases · Water · Electricity
Ideally positioned and easy to operate – customised service supply comprising ultra-high-purity gases, technical gases and water of various grades.

5

Control unit

TouchTronic · LSÜ
Standard-compliant monitoring and operation with TouchTronic or LSÜ – for maximum flexibility. The added bonus of convenience and functionality: TouchTronic combines intelligent control, monitoring and intuitive operation.

6

Inner lining

Steel · HPL · PP · Ceramic
The right lining for every application – robust coated steel, HPL, PP or highly resistant ceramic for aggressive chemicals.

7

Worktop

Ceramic · Stainless steel · PP · HPL
The right surface for every application – for example, highly durable ceramic, hygienic stainless steel or PP for hydrofluoric acid applications.

8

Underbench service panel

Single-piece · Modular
Well-organised installation space for integrating gas, water and electricity. Also available with an optional drawer including dividers.

9

Substructure

Panel · Underbench cabinet
Flexible storage space beneath the fume cupboard – available with a standard underbench cabinet for storing consumables, or an underbench safety cabinet or acid and base cabinet for chemicals.

Additional accessories for your fume cupboard
Upgrade your laboratory fume cupboard with the right accessories – from extract air temperature monitoring and scaffolding systems to filter cupboards and extract air scrubbers.

Positioned directly next to the fume cupboard, the VarioProtect® safety cabinet offers a space-saving solution for the combined storage of various hazardous substances.

3D Configurator: From idea to personalised solution.
Configure your laboratory fume cupboard in just a few steps – intuitively, in 3D, and tailored precisely to your requirements.

TouchTronic

Intelligent Control for Maximum Safety.

The TouchTronic combines all control and monitoring functions in a single electronic control unit.
User-friendly: All functions can be operated ergonomically with one hand – even whilst wearing gloves.

More Details.

Additional Highlight:
Optional in combination with TouchTronic: Foot switches enable hands-free opening and closing of the sash.

Advanced features combined with digital technology – for greater comfort and control in everyday laboratory work:

AutoProtect
The sash closes automatically when the workplace is left.

AirControl
Direct connection to external variable air volume (VAV) systems from leading manufacturers. Variable and demand-based control of the extract volume flow rate.

USB interface
Easy access to operational parameters, fault logs and software updates. Supports rapid analysis and efficient servicing.

CloseGuard
Optional light barrier system: detects obstacles in the closing area of the sash and stops the movement automatically.

AirMonitor
Continuous monitoring of air flow with visual and audible warning signals in the case of deviations.

Programmable sockets
Time-controlled and individually switchable – directly via the TouchTronic.

LevelControl
Intelligent fill level monitoring for waste containers in the underbench cabinet. Enables the safe collection of solvent waste directly in the fume cupboard and provides a timely warning when the maximum fill level is reached.

GHS pictograms
Hazard pictograms of substances used inside the fume cupboard can be displayed directly on the TouchTronic – enhancing safety and transparency.

LSÜ – Fume Cupboard Control Unit

The basic control unit option for standard-compliant laboratory fume cupboards.

The LSÜ (German: Luftstromüberwachung, English: air flow monitoring) is a cost-effective solution for standard-compliant laboratory fume cupboards. It precisely monitors the air flow rate via a pressure sensor, thereby ensuring safe operation in accordance with the applicable requirements.

Safety and convenience at a glance:

Precise monitoring
Continuous measurement of the air flow rate with a clear display. If the flow rate falls below the minimum, a visual and audible alarm is triggered.

Easy operation
The interior lighting and an optional fan can be comfortably controlled via the LSÜ.

Sustainability – Using Energy Efficiently

Reduced exhaust air consumption. Significant energy savings. Certified safety.

Sustainable laboratories are created where safety, functionality and energy efficiency come together. Laboratory fume cupboards play a key role in this: they provide reliable protection during work with hazardous substances and extract specially conditioned room air for this purpose.

Optimised airflow helps to reduce energy consumption, operating costs and CO_2 emissions – without compromising on safety.

EcoPlus

The low-energy fume cupboard for sustainable laboratories

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LABO Produkt des Jahres 2025 Gewinner www.labo.de

LOW-ENERGY HIGHLIGHT

The Köttermann EcoPlus is specifically designed with sustainability in mind. Thanks to its special airflow technology and aerodynamically optimised design, the fume cupboard can be operated at a low, constant volume flow rate.

The EcoPlus operates at a volume flow rate of 275 m^3/h per metre of fume cupboard width. This is around 30 % less extract air than is required for a standard bench type fume cupboard. The EcoPlus does not require a complex supply air system.

- ✔ **Up to 30 % less extract air**
  thanks to flow-optimised extraction technology
- ✔ **Safety without additional air injection**
  with performance certified according to EN 14175
- ✔ Retrofit option for existing fume cupboards

The **Köttermann EcoPlus** impresses with its particularly cost-effective design.
Thanks to the low minimum extract air flow rate and the continuous extract air flow, the planning and layout requirements for the ventilation system can be reduced. This lowers the capital costs compared to solutions with variable air volume (VAV) control systems.

Köttermann AirControl offers optimal energy efficiency and flexibility. This is especially true for laboratories with high levels of utilisation, where significant energy savings can be achieved. The higher capital costs are recouped in many projects through permanently reduced operating and energy costs over the laboratory's service life.

Less extract air means:

- ✔ reduced demand for conditioned supply air
- ✔ less energy required for heating and cooling
- ✔ reduced operating costs over time
- ✔ potentially smaller-scale ventilation systems

Which solution is most suitable depends on the individual requirements of the project, the conditions of use and the building services framework. Our experts will be happy to assist you in finding the optimal system for your application.

AirControl

Regulate based on your demands and save energy.

With an integrated variable air volume (VAV) system, Köttermann fume cupboards become even more efficient. The volume flow rate automatically adjusts to the level necessary for safe operation:
When the sash is open, the system delivers maximum airflow. When the sash is closed, the volume flow rate is reduced to the minimum required.

- ✔ **Demand-based volume flow rate**
  The fume cupboard only extracts as much air as is necessary for safe operation.
- ✔ **Balanced air balance in the laboratory**
  Optimised interaction between supply and extract air for consistent air quality
- ✔ **Flexible integration**
  The TouchTronic can be used as a display and control element for VAV systems from leading manufacturers.

Other Extraction Solutions

Pharmacy Fume Cupboard

Full protection in a compact design.

The pharmacy fume cupboard provides a safe working area for the preparation of prescriptions and minor laboratory work.
Suitable for the safe handling of less toxic but harmful or highly volatile chemicals, as well as dusty preparations.
As a fully-fledged laboratory fume cupboard, it features continuous airflow monitoring and a seamlessly adjustable polyacrylic sash – with the option of integration into existing extract air systems. Tested in accordance with DIN 12924 and designed to comply with the German Pharmacy Operating Regulations. Thanks to its compact design, it can be used on worktops to save space.

Typical applications include:

- ✔ Compounding and dispensing in public and hospital pharmacies.
- ✔ Weighing, mixing and decanting chemicals and dusty preparations.
- ✔ Reliable extraction of vapours and odours during minor laboratory work.
- ✔ Available with or without service supply and with or without a fan.

Specifications on page 29

Bench Type Fume Hood

A compact solution for simple extraction tasks.

Ideal for small-scale laboratory work and the decanting of volatile solvents: bench type fume hoods reliably capture gases and vapours and reduce odour nuisance at the workstation.

They are designed for applications involving small quantities of less toxic substances and are used wherever airflow monitoring is not required.

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Specifications on page 30

Extract Canopies

Efficient removal of warm air.

For larger work areas where the main aim is to capture warm air or small quantities of vapours, extract canopies offer a cost-effective solution. Similar to a cooker hood in a kitchen, they reliably extract rising air, but are not designed for applications requiring comprehensive capture of harmful substances.

They are suitable, for example, for use above muffle furnaces or similar heat sources.

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Extraction Arm

Precise extraction directly at the source.

Ideal for localised emissions: the height-adjustable swivel arm positions the extraction head precisely and captures gases and vapours directly at the point of origin.

Extraction arms complement laboratory fume cupboards wherever targeted, localised capture is required.

Available in three different materials:

- ✔ Anodised aluminium pipes – for applications involving low exposure to corrosive chemicals.
- ✔ White polypropylene pipes – for applications requiring increased resistance to corrosive chemicals.
- ✔ Black, electrically conductive polypropylene pipes – for applications involving explosive mixtures.

How Laboratory Fume Cupboards Add Flexibility to Processes

C. Gerhardt's new demonstration and applications laboratory in Königswinter combines spatial flexibility with state-of-the-art laboratory technology. Given that the laboratory is used for applications development, training and customer demonstrations, the design had to be adaptable to accommodate changing equipment set-ups and processes.

The Köttermann planning team developed a laboratory layout that harmoniously integrates walk-in fume cupboards, a central service supply system via a service boom and mobile work benches. The fume cupboards create safe working areas for demanding applications. These are conveniently operated via the TouchTronic electronic control unit. The service supply from the ceiling keeps work surfaces clear and facilitates flexible workflows.

The result is a laboratory that combines functionality with sustainability whilst also providing the ideal setting for showcasing the equipment.

Sustainable Foundation

Made to last
The steel laboratory furniture is designed for endurance and longevity. Combined with energy-efficient fume cupboard technology, this creates a solution that brings together safety and sustainability.

Walk-in Fume Cupboards

Safety for flexible set-ups
The walk-in laboratory fume cupboards can be equipped with large appliances and support presentations, tests and practical work.

Centralised Service Supply

Clear work surfaces, flexible procedures
Service supply from the ceiling keeps work surfaces clear and facilitates changing applications in the laboratory. This makes it easier to reorganise equipment, analytical procedures and training sessions.

Mobile Work Benches

Quickly reposition equipment
Mobile work benches make the laboratory adaptable. Equipment and test set-ups can be repositioned with minimal effort, allowing for a straightforward approach to training sessions and customer demonstrations.

> *"The new laboratory offers a compelling, well-rounded package in which all aspects fit together perfectly."*
>
> Björn Krüger, Laboratory Manager at C. Gerhardt

135 m²
laboratory space

25 Years
of Köttermann furniture in use

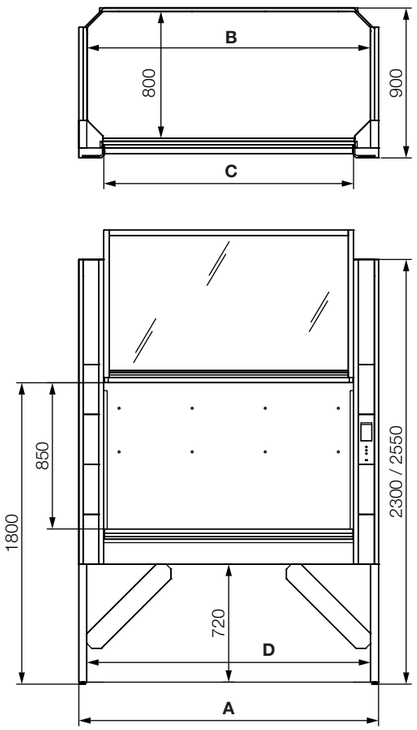
2024
completion of the new laboratory

More on the project.

Specifications

Everything you need to know at a glance: External dimensions, internal depth, connection heights and sash opening heights for every model series. Use this information to get right into your laboratory planning.

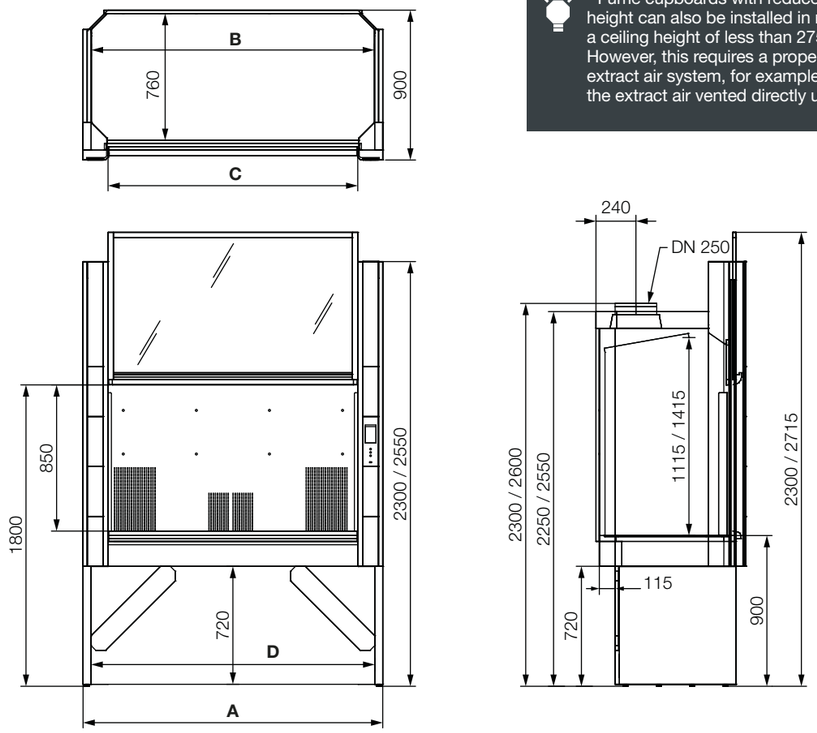
Bench Type Fume Cupboards



* Fume cupboards with reduced front height can also be installed in rooms with a ceiling height of less than 2750 mm. However, this requires a properly designed extract air system, for example one with the extract air vented directly upwards.

Exterior dimensions								
Grid width		**A**	[mm]	1200	1500	1800	2000	2100
Depth				900				
Front height	Reduced			2300				
	Standard			2550				
Chamber height	Low structure			2250				
	High structure			2550				
Opening height	Two-piece telescopic sash			2300				
	One-piece sash			2715				
Required room height for extract air connection DN 250	Low structure and reduced front height			2750 *				
	Low structure and standard front height			2800				
	High structure and standard front height			3000				
Interior dimensions (without lining or rear baffle)								
Width		**B**	[mm]	1100	1400	1700	1900	2000
Depth				800				
Height	Low structure			1190				
	High structure			1490				
Access width		**C**		840	1140	1440	1640	1740
Width space under FC / Width for substructure	Reduced front height	**D**		900	1200	1500	1700	1800
	Standard front height			1100	1400	1700	1900	2000
Height of the work surface				900				
Continuous air volume flow rate according to EN 14175 (with limit values of the German BG RCI)								
Minimum permissible volume flow rate (alarm value)			[m^3/h]	450	530	680	800	
Specified volume flow rate				480	600	720	840	
Maximum permissible volume flow rate				1500				
Pressure drop at specified volume flow rate (DN 250, sash closed)			[Pa]	27	35	43	61	

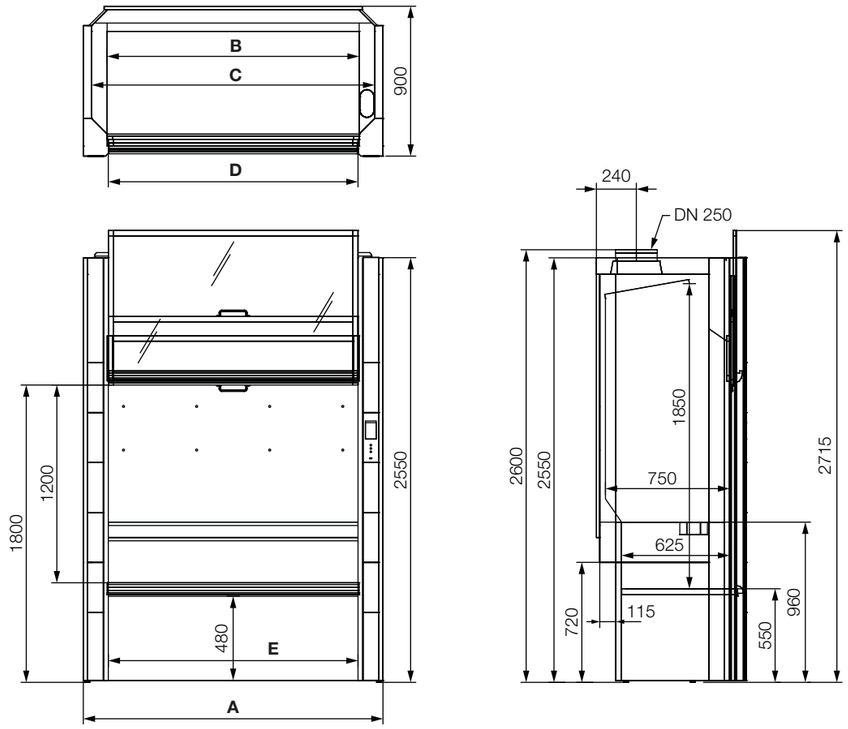
EcoPlus Fume Cupboards



* Fume cupboards with reduced front height can also be installed in rooms with a ceiling height of less than 2750 mm. However, this requires a properly designed extract air system, for example one with the extract air vented directly upwards.

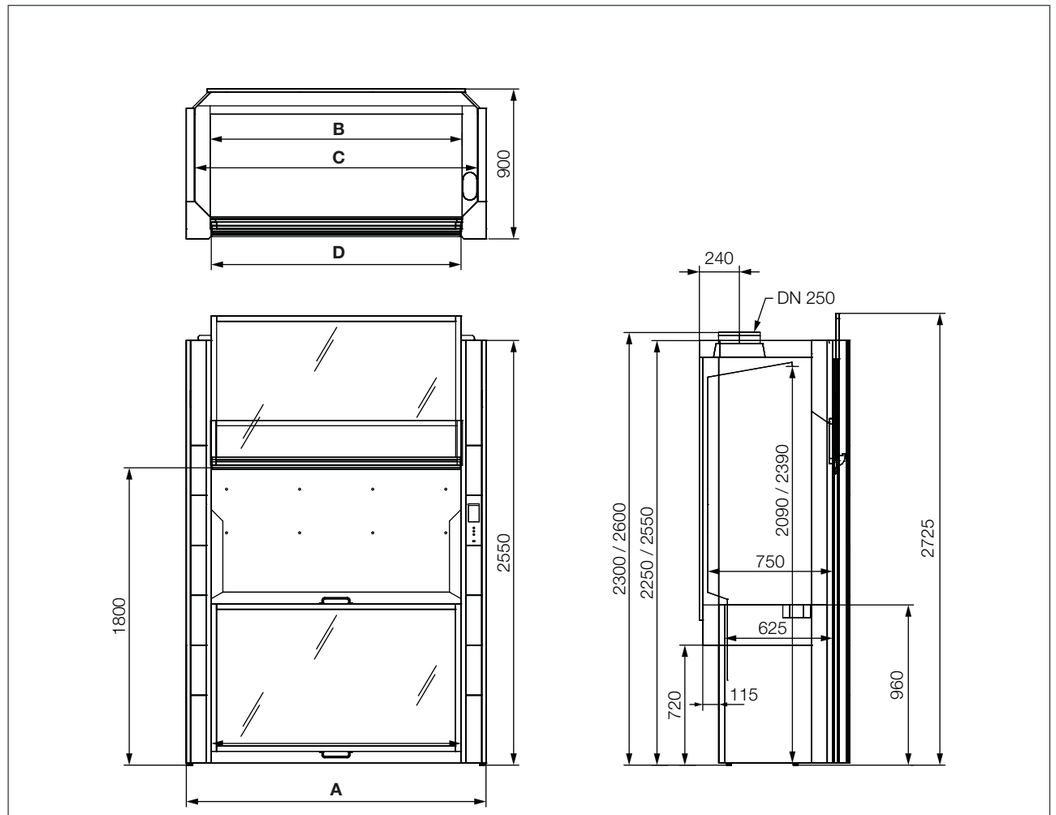
Exterior dimensions								
Grid width		**A**	[mm]	1200	1500	1800	2000	2100
Depth				900				
Front height	Reduced			2300				
	Standard			2550				
Chamber height	Low structure			2250				
	High structure			2550				
Opening height	Two-piece telescopic sash			2300				
	One-piece sash			2715				
Required room height for extract air connection DN 250	Low structure and reduced front height			2750 *				
	Low structure and standard front height			2800				
	High structure and standard front height			3000				
Interior dimensions (with EcoPlus rear baffle)								
Width		**B**	[mm]	1100	1400	1700	1900	2000
Depth				760				
Height	Low structure			1115				
	High structure			1415				
Access width		**C**		840	1140	1440	1640	1740
Width space under FC / Width for substructure	Reduced front height	**D**		900	1200	1500	1700	1800
	Standard front height			1100	1400	1700	1900	2000
Height of the work surface				900				
Continuous air volume flow rate according to EN 14175 (with limit values of the German BG RCI)								
Minimum permissible volume flow rate (alarm value)			[m^3/h]	300	380	450	530	
Specified volume flow rate				360	450	540	630	
Maximum permissible volume flow rate				1500				
Pressure drop at specified volume flow rate (DN 250, sash closed)			[Pa]	34	36	41	46	

Distillation Fume Cupboards



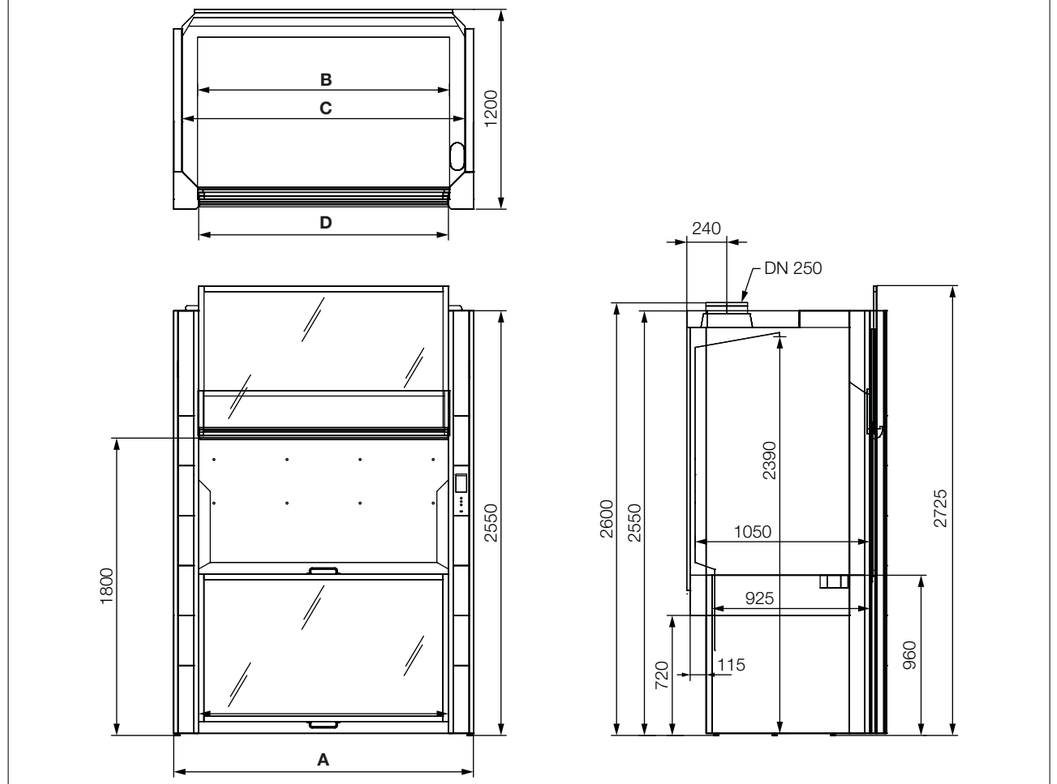
Exterior dimensions								
Grid width		**A**	[mm]	1200	1500	1800	2000	2100
Depth				900				
Front height	Reduced			2550				
Chamber height	High structure			2550				
Opening height				2715				
Required room height for extract air connection DN 250	High structure and standard front height			3000				
Interior dimensions (without lining)								
Width up to height 960 mm		**B**	[mm]	910	1210	1510	1710	1810
Width above height 960 mm		**C**		1100	1400	1700	1900	2000
Depth up to height 960 mm				625				
Depth above height 960 mm				750				
Height	High structure			1850				
Access width		**D**		840	1140	1440	1640	1740
Width space under FC / Width for substructure		**E**		900	1200	1500	1700	1800
Height of the work surface				550				
Continuous air volume flow rate according to EN 14175 (with limit values of the German BG RCI)								
Minimum permissible volume flow rate (alarm value)			[m^3/h]	600	750	900	1050	
Specified volume flow rate				630	790	950	1110	
Maximum permissible volume flow rate				1500				
Pressure drop at specified volume flow rate (DN 250, sash closed)			[Pa]	54	56	81	83	

Walk-in Fume Cupboards – 900 mm depth



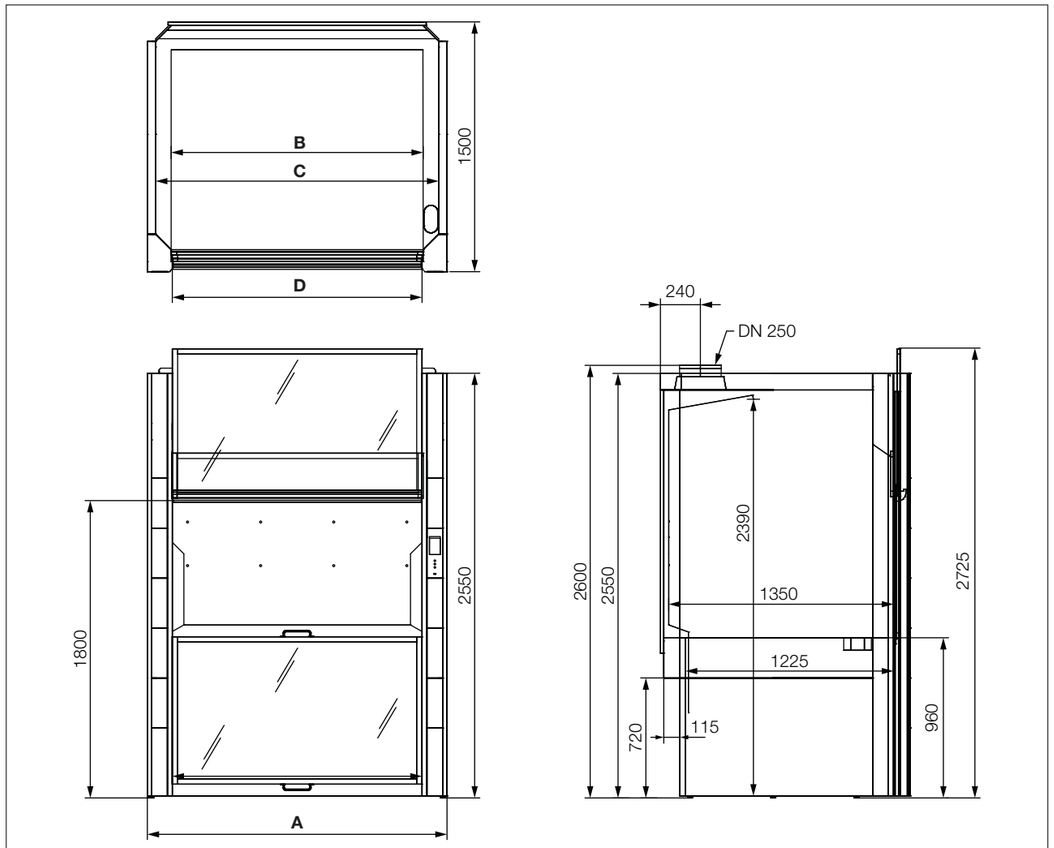
Exterior dimensions								
Grid width		**A**	[mm]	1200	1500	1800	2000	2100
Depth				900				
Front height	Standard			2550				
Chamber height	Low structure			2250				
	High structure			2550				
Opening height				2725				
Required room height for extract air connection DN 250	Low structure and standard front height			2800				
	High structure and standard front height			3000				
Interior dimensions (without lining)								
Width up to height 960 mm		**B**	[mm]	910	1210	1510	1710	1810
Width above height 960 mm		**C**		1100	1400	1700	1900	2000
Depth up to height 960 mm				625				
Depth above height 960 mm				750				
Height	Low structure			2090				
	High structure			2390				
Access width		**D**		840	1140	1440	1640	1740
Continuous air volume flow rate according to EN 14175 (with limit values of the German BG RCI)								
Minimum permissible volume flow rate (alarm value)			[m^3/h]	660	830	990	1160	
Specified volume flow rate				750	940	1120	1310	
Maximum permissible volume flow rate				2000				
Pressure drop at specified volume flow rate (DN 250, sash closed)		[Pa]		40	50	65	95	

Walk-in Fume Cupboards – 1200 mm depth



Exterior dimensions								
Grid width		**A**	[mm]	1200	1500	1800	2000	2100
Depth				1200				
Front height	Standard			2550				
Chamber height	High structure			2550				
Opening height				2725				
Required room height for extract air connection DN 250	High structure and standard front height			3000				
Interior dimensions (without lining)								
Width up to height 960 mm		**B**	[mm]	910	1210	1510	1710	1810
Width above height 960 mm		**C**		1100	1400	1700	1900	2000
Depth up to height 960 mm				925				
Depth above height 960 mm				1050				
Height	High structure			2390				
Access width		**D**		840	1140	1440	1640	1740
Continuous air volume flow rate according to EN 14175 (with limit values of the German BG RCI)								
Minimum permissible volume flow rate (alarm value)			[m^3/h]	720	900	1080	1260	
Specified volume flow rate				780	980	1170	1370	
Maximum permissible volume flow rate				2000				
Pressure drop at specified volume flow rate (DN 250, sash closed)		[Pa]		45	60	127	159	

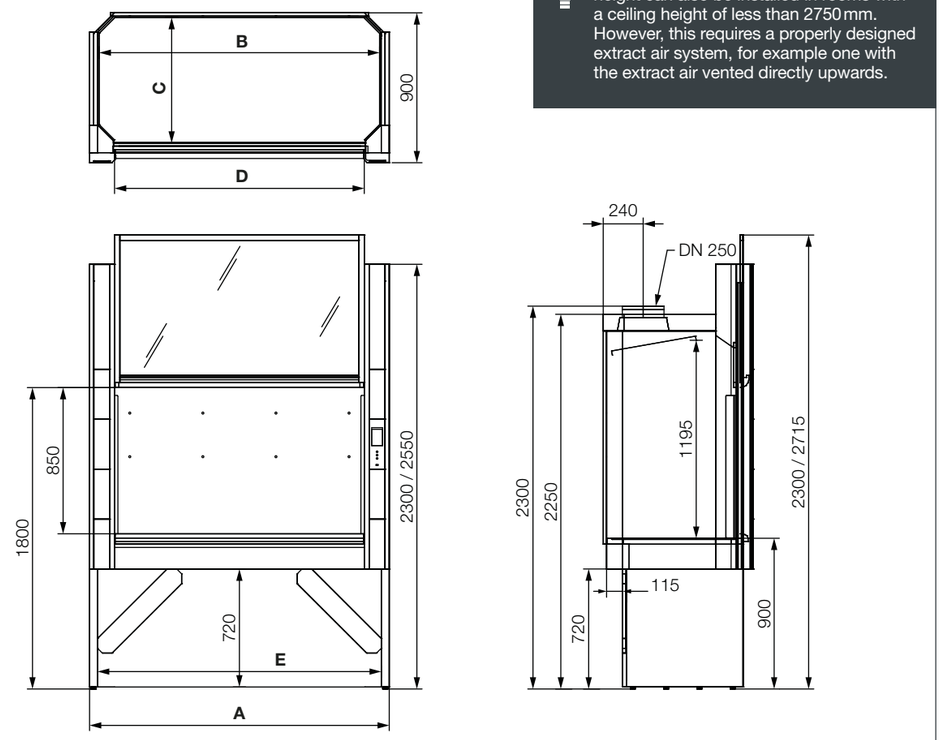
Walk-in Fume Cupboards – 1500 mm depth



Exterior dimensions								
Grid width		**A**	[mm]	1200	1500	1800	2000	2100
Depth				1500				
Front height	Standard			2550				
Chamber height	High structure			2550				
Opening height				2725				
Required room height for extract air connection DN 250	High structure and standard front height			3000				
Interior dimensions (without lining)								
Width up to height 960 mm		**B**	[mm]	910	1210	1510	1710	1810
Width above height 960 mm		**C**		1100	1400	1700	1900	2000
Depth up to height 960 mm				1225				
Depth above height 960 mm				1350				
Height	High structure			2390				
Access width		**D**		840	1140	1440	1640	1740
Continuous air volume flow rate according to EN 14175 (with limit values of the German BG RCI)								
Minimum permissible volume flow rate (alarm value)			[m³/h]	740	960	1170	1390	
Specified volume flow rate				810	1050	1280	1520	
Maximum permissible volume flow rate				2000				
Pressure drop at specified volume flow rate (DN 250, sash closed)			[Pa]	75	102	146	201	

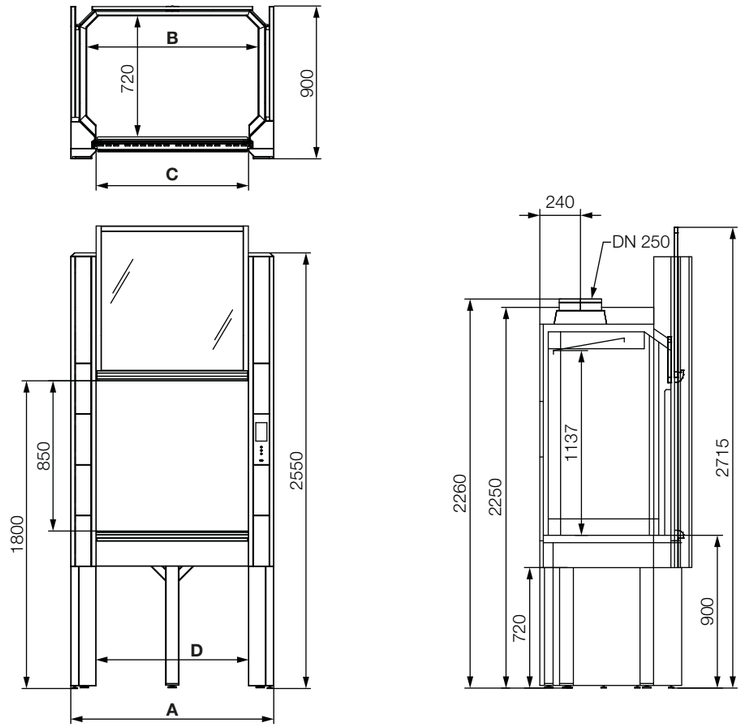
High-Performance Fume Cupboards

* Fume cupboards with reduced front height can also be installed in rooms with a ceiling height of less than 2750 mm. However, this requires a properly designed extract air system, for example one with the extract air vented directly upwards.



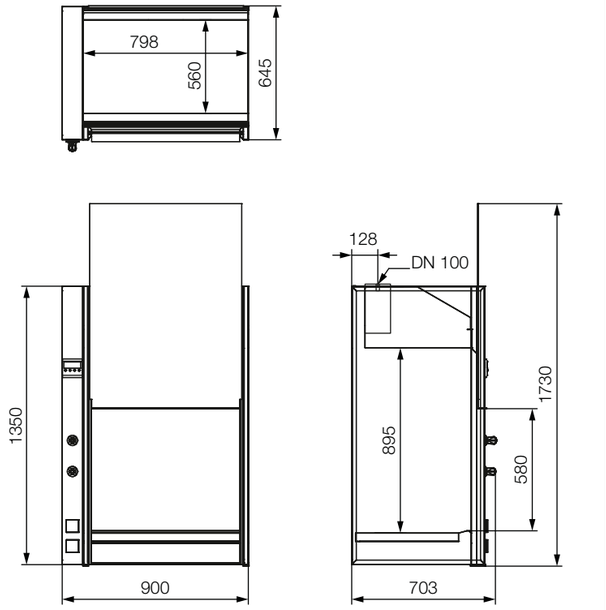
Exterior dimensions								
Grid width		**A**	[mm]	1200	1500	1800	2000	2100
Depth				900				
Front height	Reduced			2300				
	Standard			2550				
Chamber height	Low structure			2250				
Opening height	Two-piece telescopic sash			2300				
	One-piece sash			2715				
Required room height for extract air connection DN 250	Low structure and reduced front height			2750 *				
	Low structure and standard front height			2800				
Interior dimensions (without rear baffle)								
Width	With ceramic lining	**B**	[mm]	1090	1390	1690	1890	1990
	With polypropylene lining			1080	1380	1680	1880	1980
Depth	With ceramic lining	**C**		792				
	With polypropylene lining			795				
Height	Low structure			1195				
Access width		**D**		840	1140	1440	1640	1740
Width space under FC / Width for substructure	Reduced front height	**E**		900	1200	1500	1700	1800
	Standard front height			1100	1400	1700	1900	2000
Height of the work surface				900				
Continuous air volume flow rate according to EN 14175 (with limit values of the German BG RCI)								
Minimum permissible volume flow rate (alarm value)			[m³/h]	660	830	990	1790	
Specified volume flow rate				720	900	1080	1900	
Maximum permissible volume flow rate				1500			2000	
Pressure drop at specified volume flow rate (DN 250, sash closed)			[Pa]	50	60	80	300	

Radionuclide Fume Cupboards



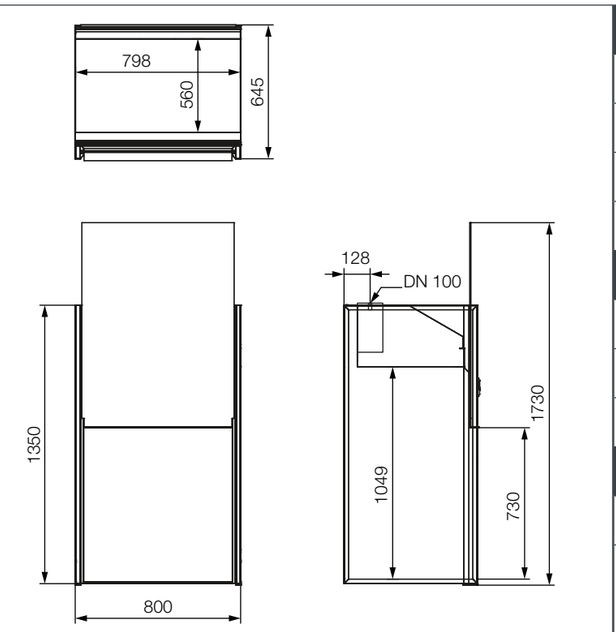
Exterior dimensions					
Grid width		**A**	[mm]	1200	1500
Depth				900	
Front height	Standard			2550	
Chamber height	Low structure			2250	
Opening height	One-piece sash			2715	
Required room height for extract air connection DN 250	Low structure and standard front height			2800	
Interior dimensions					
Width		**B**	[mm]	1018	1318
Depth				720	
Height	Low structure			1070	
Access width		**C**		906	1206
Width space under FC / Width for substructure	Standard front height	**D**		900	1200
Height of the work surface				900	
Continuous air volume flow rate according to EN 14175 (with limit values of the German BG RCI)					
Minimum permissible volume flow rate (alarm value)			[m³/h]	450	530
Specified volume flow rate				480	600
Maximum permissible volume flow rate				1500	
Pressure drop at specified volume flow rate (DN 250, sash closed)			[Pa]	27	35

Pharmacy Fume Cupboards



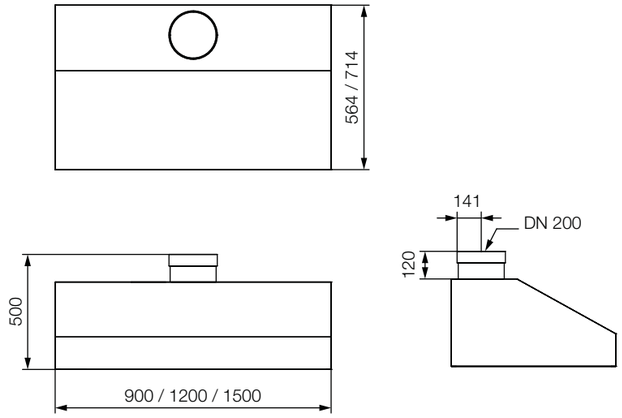
Exterior dimensions			
Width	[mm]		900
Depth			645
Front height			1350
Opening height			1730
Interior dimensions			
Width	[mm]		798
Depth			560
Height			895
Air handling specifications			
Minimum permissible volume flow rate		[m³/h]	250
Effective pressure drop (DN 100)	without fan	[Pa]	110
	with fan		-210

Bench Type Fume Hoods



Exterior dimensions			
Width	[mm]		800
Depth			645
Front height			1350
Opening height			1730
Interior dimensions			
Width	[mm]		798
Depth			560
Height			1049
Air handling specifications			
Minimum permissible volume flow rate		[m³/h]	250
Effective pressure drop (DN 100)	without fan	[Pa]	110
	with fan		-210

Extract Canopies



Exterior dimensions				
Width	[mm]	900	1200	1500
Depth		564 / 714		
Grid depth		600 / 750		
Height		500		
Air handling specifications		**with thermal load**		
Recommended volume flow rate	[m³/h]	900		
Pressure drop	[Pa]	14.4		
Dynamic pressure		41.2		
Pressure drop		55.6		
Air handling specifications		**without thermal load**		
Recommended volume flow rate	[m³/h]	500		
Pressure drop	[Pa]	4.5		
Dynamic pressure		12.7		
Pressure drop		17.2		

Let’s talk about your laboratory fume cupboard.

Every application has different requirements. Our experts will help you find the right solution – one that is safe, well-designed and tailored to your laboratory.

We’d be happy to advise you personally.

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Monday – Thursday: 8:00 am – 3:00 pm CET
Friday: 8:00 am – 12:00 pm CET

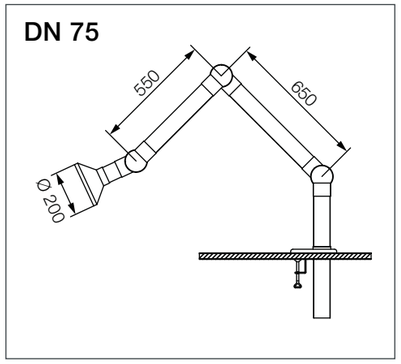
Send us your enquiry directly via our website:

Extract arms

Air handling specifications			
Diameter of the pipework		DN 75	DN 100
Minimum required volume flow rate (V_{min})	[m³/h]	80	140
Pressure drop at V_{min}	[Pa]	95	120
Recommended volume flow rate (V_{rec})	[m³/h]	140	270
Pressure drop at V_{rec}	[Pa]	280	400
Maximum volume flow rate (V_{max})	[m³/h]	180	400
Pressure drop at V_{max}	[Pa]	600	850

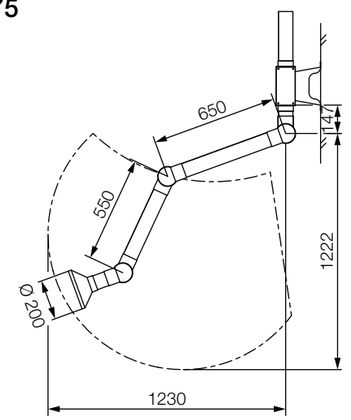
Table-mounted

DN 75

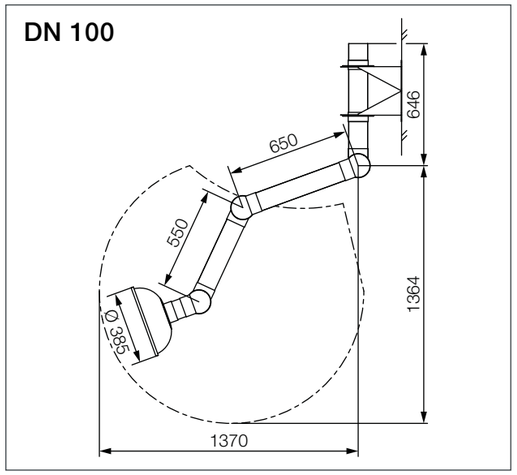


Wall-mounted

DN 75

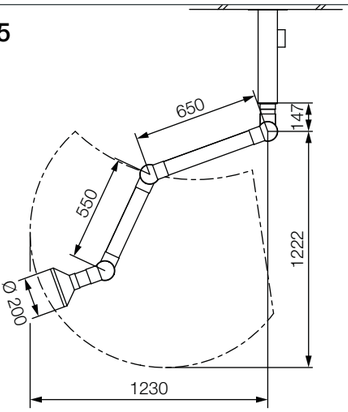


DN 100

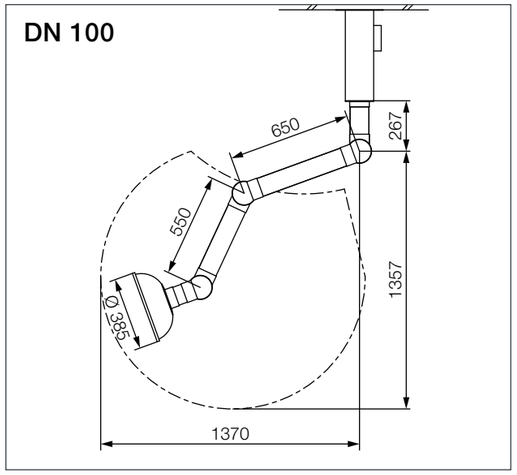


Ceiling-mounted

DN 75



DN 100



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