

DATA SHEETS

Fume cupboard systems

Walk-in fume cupboard (DB)



„Vorrichtung über geschlossener Hülle.“
Beim horizontalen Saughub abenerger geschlo.

„Filter & Quarzglas“
Es ist notwendig, das Wasser zu ersetzen.

Säure
acid

GENERAL INFORMATION

Fundamental safety and performance targets

The walk-in fume cupboard is designed in such a way that

- hazardous airborne pollutant concentrations or quantities do not escape from the fume cupboard into the room;
 - hazardous substances are efficiently removed to reduce the risk of formation of an explosive or hazardous atmosphere in the interior of the fume cupboard;
 - the user is protected against splashing and splinters by a front sash.
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- The walk-in fume cupboards comply with the standards of DIN EN 14175 Parts 1-3.
 - All fume cupboards are subject to prototype testing by an independent aerotechnical test institute. The fume cupboard emissions have all been far under the limit values of BG Chemie. They meet the safety requirements in all respects.

Note:

- Separate types of fume cupboard are available for high thermal loads with acid digestions or for dealing with unsealed radioactive substances.

PRODUCT ADVANTAGES

- Fume cupboard tested and certified in accordance with DIN EN 14175
- Synchronous-running telescope sliding sash for high operating comfort
- Optimized pollutant retention capacity with simultaneous low exhaust air volume flows
- Maximum usable inner workspace, due to extra-narrow fume cupboard sides
- Maximum visibility through the use of standard top glazing (glass skirting)
- Worktops and interior surfaces according to requirements
- Exhaust air system with optimized air intake zones for a full-surface extraction above the work surface
- Ergonomically designed sash handle bar for easy, one-handed operation of the sliding sash
- Maintenance-friendly thanks to large inspection panel, simple-to-disassemble installations and easily replaced worktops
- Electrical panels on both sides of the interior
- High installation density possible, no overlap of the service outlet and stand areas
- Standard battery-buffered exhaust air monitoring unit with IR interface
- Integrated function and control panel at eye level in the pilaster, optionally with a graphical OLED function display on which all main operating and status information of the fume cupboard is directly readable (e.g. volume flow, inflow, as well as error and operating messages)
- Wide range of accessories and options, such as automatic motorized sash drive, fume cupboard control (with integrated Web server and ECO-efficiency indicator, by means of which the energy demand of the individual mode of operation is determined and represented by averaging in comparison to other fume cupboards networked in the laboratory building)

DELTAguard Walk-in fume cupboard (DB)

TECHNICAL DATA

			Grid			
			1200	1500	1800	2100
Dimensions	Width (outer)	mm	1200	1500	1800	2100
	Depth (outer) Standard	mm	910			
	Depth (outer) Alternative	mm	1070 / 1270			
	Height (outer)	mm	2730			
	Width (inner)	mm	1160	1460	1760	2060
	Depth (inner) Standard	mm	680			
	Depth (inner) Alternative	mm	840 / 1040			
	Height (inner)	mm	2400			
	Weight	kg	270	290	310	355
Interior	Interior surface	Melamine resin	X			
		Side panels lined, 0.8 mm HPL Polypropylene (PP)	O			
		Ceramic (SZ)	O			
		Stainless steel (CNS)	O			
		Edelstahl (CNS)	O			
	Worktop	On-site floor	X			
		Stoneware	O			
		Stainless steel (CNS)	O			
	Drip cup	in energy service panel	O			
Rod holder	2 rows	X				
	3 rows		X	X		
	4 rows				X	
Front sash	Cross-slide	without	O ¹			
		2-fold	X			
		3-fold	O			
		4-fold			O	O
	Operation	manual	X			
		electrical, incl. motion detector	O			
	Design	telescopic	X			

DELTAguard Walk-in fume cupboard (DB)

		Grid			
		1200	1500	1800	2100
Electrical service outlets	Electrical panels both sides	in interior, sockets switched outside			O ²
	System duct	Electrical service outlet			O ²
Sanitary service outlets	Service fitting points in grid 75 mm	in interior (water, gases, vacuum)			O ²
	System duct	Front control valves			O ²
Additional equipment	Side glazing	right	O		
		left	O		
	Media feed-through D = 100 mm	right	O		
		left	O		
	Construction material Class B1	flame-resistant	O		
Ex-Explosionsschutz	Electrostatic charge dissipation facility	O ³			

X Standard
O Optional

- *1 necessary for extinguishing fume cupboards
 *2 Media and Electrical service outlets freely selectable
 *3 not in combination with DELTAprotect and/or electric window regulator

DELTAguard Walk-in fume cupboard (DB)

AEROTECHNICAL DATA

				Grid							
				1200	1500		1800		2100		
				Exhaust air volume Pressure loss							
Model	Equipment			m ³ /h	Pa	m ³ /h	Pa	m ³ /h	Pa	m ³ /h	Pa
Depth 910 mm	DELTAguard DB-DG03	Exhaust air monitoring (unregulated)	tested	420	25	525	49	630	45	735	57
			recomm. V min.	480	33	600	64	720	58	840	71
			recomm. V max.	720	71	900	135	1080	111	1080	104
	DELTAguard + DELTAcontrol DB-DG03	Volume flow regulation (regulated)	tested	420	16	525	35	630	26	735	32
			recomm. V min. ¹	240	5	300	11	300	6	400	9
			recomm. V max. ²	480	21	600	46	720	34	840	42

				Grid							
				1200	1500		1800		2100		
				Exhaust air volume Pressure loss							
Model	Equipment			m ³ /h	Pa	m ³ /h	Pa	m ³ /h	Pa	m ³ /h	Pa
Depth 1070 / 1270 mm	DELTAguard DB-DG03-1070 DB-DG03-1270	Exhaust air monitoring (unregulated)	tested	720		900		1080		1260	
			recomm. V min.	720		900		1080		1260	
			recomm. V max.	870		1050		1230		1350	
	DELTAguard + DELTAcontrol DB-DG03-1070 DB-DG03-1270	Volume flow regulation (regulated)	tested	720		900		1080		1260	
			recomm. V min. ¹	330		400		480		560	
			recomm. V max. ²	720		900		1080		1260	

¹ Front sash closed

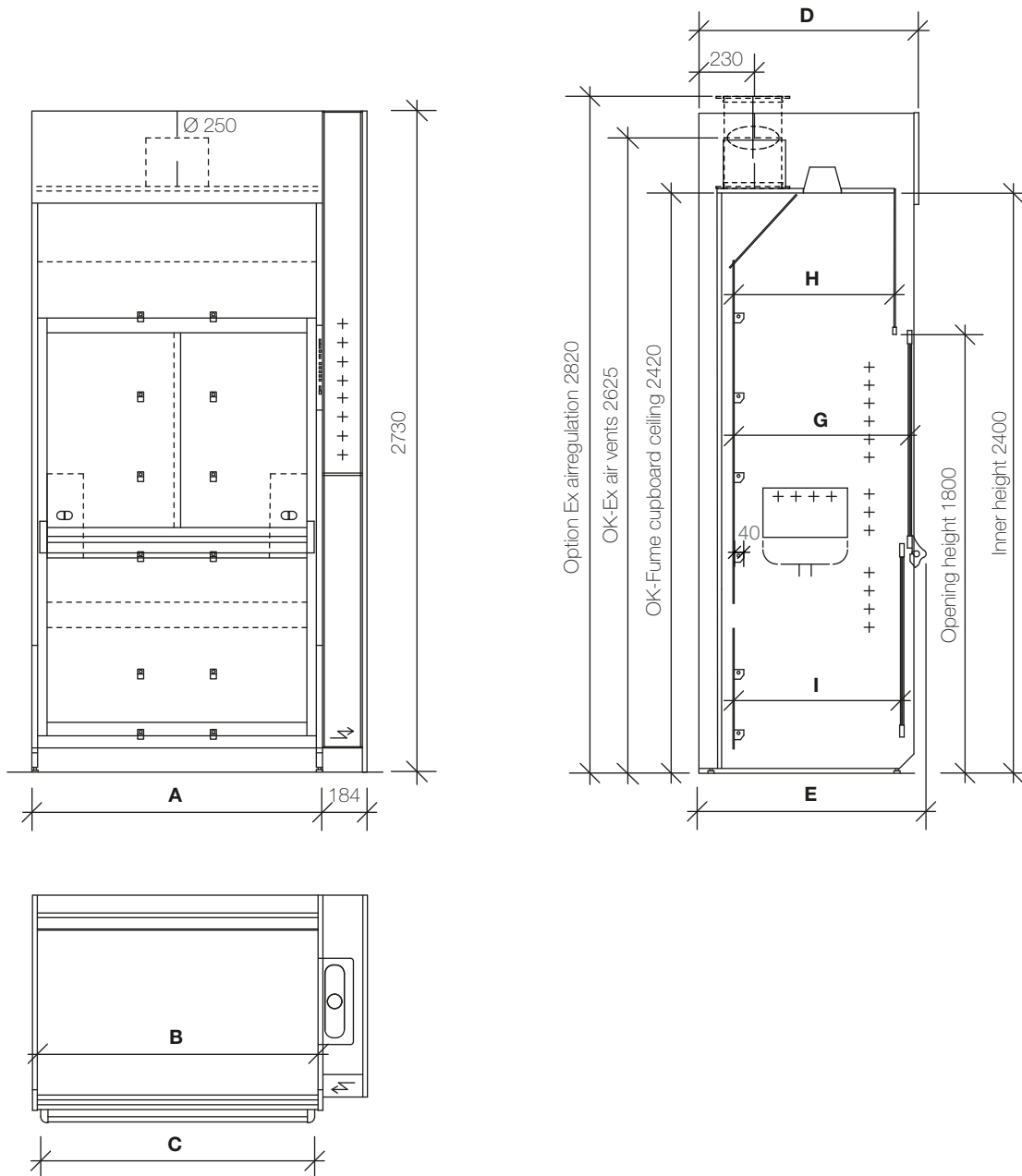
² Front sash open

The tested values are air quantities determined under test room conditions in accordance with DIN EN 14175. Our experience has shown that higher air volumes may be necessary in practice. Therefore the recommended values are sometimes higher.

When designing the ventilation system, please note that respective pressure losses must be taken into account. As a planning value, an average of approx. 100-150 Pa/fume cupboard with regulation can be assumed. An adjustment of the minimum volume flow may be necessary. Our experts will be pleased to provide you with advice and assistance during every phase of the project – talk to us.

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DIMENSIONS EXTERNAL AND INTERNAL



Grid width	A	1200	1500	1800	2100
Interior width	B	1160	1460	1760	2060
Opening width	C	1140	1440	1740	2040
Fume cupboard depth	D	910	1070	1270	
Total depth	E	940	1100	1300	
Usable depth in area of front sash	G	710	870	1070	
Usable depth in area of skirting	H	650	810	1010	
Usable depth in area of telescope sash	I	680	840	1040	

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