

DATA SHEETS

Fume cupboard systems

Low level fume cupboard (DT)



GENERAL INFORMATION

Fundamental safety and performance targets

The DELTAguard low level 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 DELTAguard low level 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
- Worktop with moulded, flow-optimized front rim
- 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)
- Optional: Substructure
- 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)
- Optional: Available with active air-injection system

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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			
	Height (outer)	mm	2730			
	Width (inner)	mm	1160	1460	1760	2060
	Depth (inner) Standard	mm	710 (690)			
	Depth (inner) Alternative	mm	870 (850)			
	Height (inner)	mm	1900			
	Weight	kg	345	400	455	510
Interior	Interior surface	Melamine resin	X			
		Side panels lined, 0.8 mm HPL	O			
		Polypropylene (PP)	O			
		Ceramic (SZ)	O			
		Stainless steel (CNS)	O			
	Worktop	Stoneware	X			
		Polypropylene (PP)	O			
		Stainless steel (CNS)	O			
	Drip cup	rear right (preferred position)	O			
		rear centre	O			
		rear left	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				

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		Grid			
		1200	1500	1800	2100
Electrical service outlets	Electrical panels both sides	in interior, sockets switched outside		O ²	
	System duct	Electrical service outlets		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	
	Substructure	Drawers		O	
	Substructure extraction			O	
	Construction material class B1	flame-resistant		O	
Ex-Explosion protection	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

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AEROTECHNICAL DATA

Model	Equipment		Grid							
			1200		1500		1800		2100	
			Exhaust air volume / Pressure loss							
			m ³ /h	Pa	m ³ /h	Pa	m ³ /h	Pa	m ³ /h	Pa
DELTAguard DT-DG03	Exhaust air monitoring (unregulated)	tested	540	34	680	52	820	59	950	117
		recomm. V min.	540	34	680	52	840	59	950	117
		recomm. V max. ²	720	60	900	91	1150	97	1150	171
DELTAguard + DELTAprotect DT-DG03-P	Exhaust air monitoring (unregulated) Active air-injection system	tested	420	57	525	76	630	133	735	100
		recomm. V min.	420	57	525	76	630	133	735	100
		recomm. V max.	720	168	900	223	1050	369	1150	245
DELTAguard + DELTAcontrol DT-DG03	Volume flow regulation (regulated)	tested	540	34	680	52	820	59	950	117
		recomm. V min. ¹	250	7	250	7	250	5	300	12
		recomm. V max. ²	540	28	680	30	820	46	950	117
DELTAguard + DELTAcontrol + DELTAprotect DT-DG03-P	Volume flow regulation (regulated) Active air-injection system	tested	420	11	525	18	630	19	735	100
		recomm. V min. ¹	200	13	200	11	200	13	300	17
		recomm. V max. ²	420	16	525	26	630	27	735	100

¹ Front sash closed

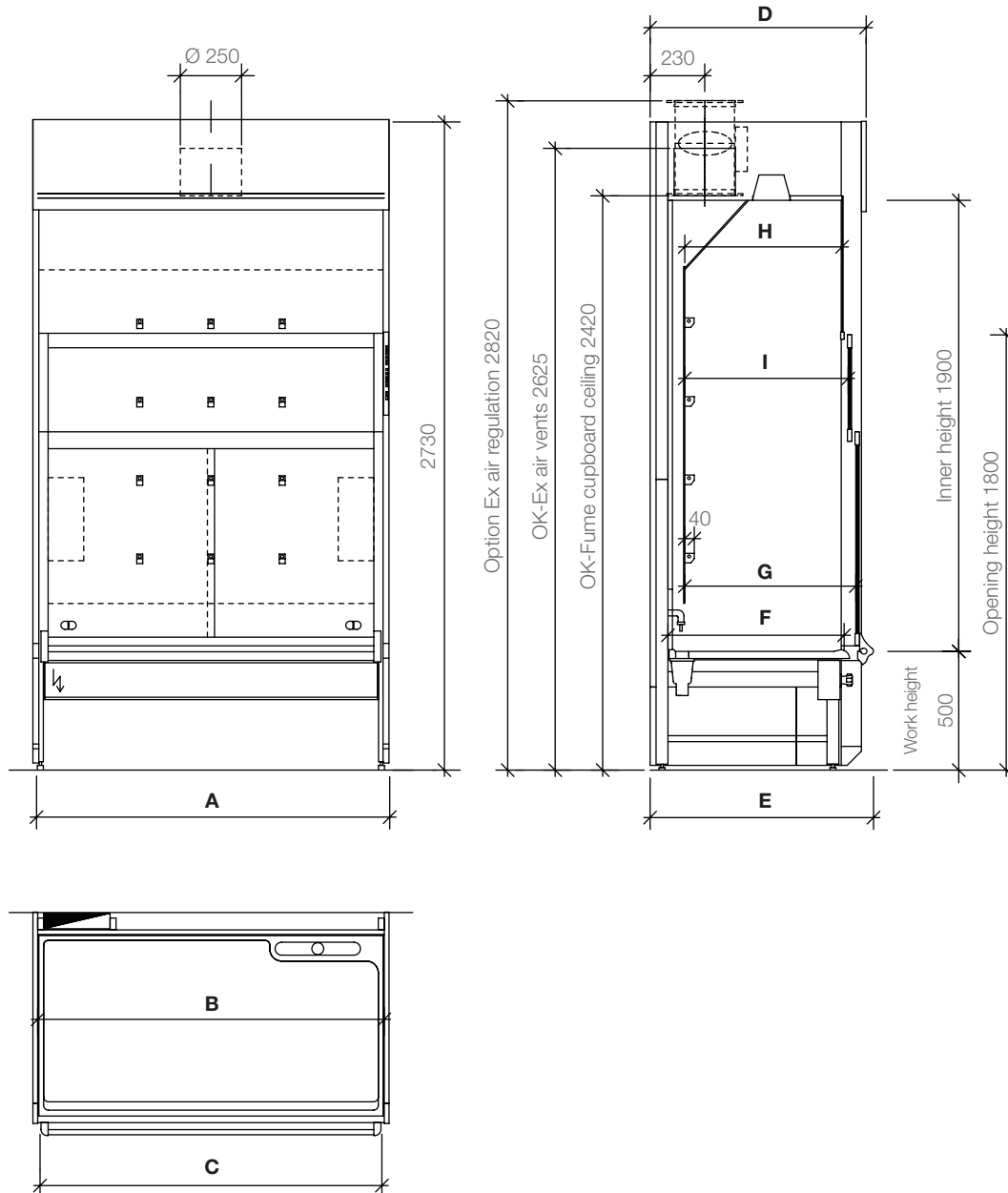
² Front sash open

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		
Total depth	E	940	1100		
Usable depth worktop	F	720	880		
Usable depth in area of front sash	G	710	870		
Usable depth in area of skirting	H	650	810		
Usable depth in area of telescope sash	I	680	840		

www.wesemann.com

Wesemann GmbH – Headquarters

Max-Planck-Straße 15-25

28857 Syke

Germany

Telephone +49 (0) 42 42 594-0

Telefax +49 (0) 42 42 594-333

E-Mail info@wesemann.com

