

BECOME M fume cupboards



Application

La vitrina **BECOME M** está destinada a un uso general en el laboratorio. Específicamente concebida para el acceso total de grandes aparatos. Desaconsejada para su uso con compuestos emisores de radiaciones ionizantes, ácidos concentrados con alta carga térmica o patógenos.

Safe Product

Range certified under European standard EN 14175 parts 2, 3 and 6. Aerodynamic design that makes it possible to obtain optimum results for containment and energy efficiency. Large useful interior capacity with a cabinet which is 1,815 mm high inside. Available for installation with individual or shared ventilation, with optimised VAV systems.

Models



1. BECOME M

Materials

- Resistant to Chemical Stress: Standard with the best quality on the market in terms of materials, a ceramic worktop and inner lining made of HPL high pressure compact laminate with a coating of urethane acrylic resistant to chemical agents.
- Resistant to Mechanical Stress: Great robustness provided by side structural elements.

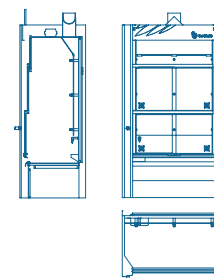
Optional Accessories

- Motorised sash.
- VAV control with a valve for a group of fume cupboards.
- Power sockets inside.
- Side window.
- Pass box.
- Cable glands

**For more details, see the chapter on "Accessories for fume cupboards".*

Drawings

BECOME M



Technical data

External dimensions

Width (mm)	1.200 1.500 1.800 2.100 2.400
Depth (mm)	950
Height (mm) (*)	2.500

(*) Minimum recommended laboratory height for BM: 3000 mm See lower heights.

Interior dimensions

Width (mm)	1.135 1.435 1.735 2.035 2.335
Depth (mm)	740/620
Height (mm) (*)	1.815

All dimensional data Tol: +/- 5mm.

Technical data

Work dimensions	
Work height (mm) (*)	500
Recommended distance from sash (area directly behind the sash) (mm)	150
Recommended free space between bulky equipment and the interior walls of the fume cupboard (mm)	100
Recommended elevation of large equipment over the surface of the worktop (mm)	from 25 to 50

(*) When working, keep the sash as low as possible or closed, for th greater protection of the user and lower energy consumption. In the case of installing bulky equipment inside fume cupboards, it is recommended that in situ tests are carried out to ensure containment in these circumstances.

Technical Characteristics

Models	BM 1200	BM 1500	BM 1800	BM 2100	BM 2400
Frame	Side frames made of steel pipe, with sheet metal lids, coated with polyester resin. Lower frame.				
Worktop	White, 26 mm thick vitrified stoneware panel, with a ridged edge for retaining liquids.				
Interior of the cabinet	6 mm compact high pressure with an acrylic urethane coating. Resistant to impact, humidity, chemical attack and antibacterial in accordance with DIN ES ISO 10545-13 and DIN EN ISO 10545-14. Reaction to fire B-s2-d0, as per EN 438-7.				
Sash	Sash made of 3+3 mm bi-laminar safety glass.				
No. of sashes (BM/ BM Low)	2				
No. of Horizontal Rails	4			8	
No. Suppor for scaffold	9			12	
Maximum load per busbar support (kg) (*)	5				

(*) Load considered at a distance of 100 mm from the support.
Higher support loads on the worktop.

Services (**)

LED lighting (20W)	1	2	2	3	3
230V/16A IP55 power sockets	4				
Magneto-thermal protection	1 x 16A				

Optional services (**)

Sink	300 x 120 x 111 mm made of PP.
Water tap with remote control	Acid-resistant handle with identification code in accordance with EN 13792. Brass body and EPDM seal. Maximum working pressure of 10 bar.
Combustible gas tap with remote control	Acid-resistant handle with identification code in accordance with EN 13792. Taps with safety lock. Brass body, ceramic seal with a nitrile gasket. Maximum working pressure of 07 bar.
Instrumental gas tap with remote control	Acid-resistant handle with identification code in accordance with EN 13792. Brass body, fine adjustment valve, PTFE shut-off. Acid-resistant epoxy powder coating.

Pressure reducers for instrumental gasses	Compact design, brass body, with shut-off and control valve and pressure display. Maximum input pressure of 20bar, output pressure of 1,0bar to 8bar. Optional tap for fine tuning.
Pressure reducers for corrosive gases	Compact design, stainless steel body, with shut-off and control valve and pressure display. Maximum input pressure of 20bar, output pressure of 1,0bar to 8bar. Optional tap for fine tuning.
Power sockets (***)	Socket voltage 230V - 16A.
	Socket voltage 230V - 13A.
	Computer socket.
Thermal-magnetic cut-outs	Telephone socket.
	Voice and data socket.
	16A single-phase thermal magnetic circuit breaker.
	16A three-phase thermal magnetic circuit breaker.
Socket power (**)	20A single-phase thermal magnetic circuit breaker.
	20A three-phase thermal magnetic circuit breaker.
	Single-phase power socket (3 poles) 230V - 16A.
Start / stop for accessories in fume cupboard	Single-phase power socket (3 poles) 230 - 32A.
	Three-phase power socket (5 poles) 400V - 16A.
	Three-phase power socket (5 poles) 400V - 32A.
Emergency stop button.	

(**) The services will be located on the side panels, the configuration will be carried out according to the needs of each customer. Power socket models will be adjusted to the regulations in each country
(***) Optionally, electrical outlets will be installed inside the fume cupboard with an externally-operated safety keypad.

Technical Installations

Modelos	BM 1200	BM 1500	BM 1800	BM 2100	BM 2400
Height of the extraction outlet from the ground (mm) BM	2.670/ 2.470				
Diameter of the extraction outlet (mm) (*)	1 x Ø200	1 x Ø250	1 x Ø250	1 x Ø250	1 x Ø250
Fume Cupboard Control	EO 25 (For details, see the chapter on accessories).				
Test flow rate (**)	350m ³ /hx mln.				
Maximum pressure in the duct	600Pa.				
Electricity	The installation of shielded hoses and super-immunised protection is recommended for the feed to a fume cupboard or group of fume cupboards.				

(*) The diameters of the outlet may vary depending on the installation.

(**) The flow rate data provided refers to that obtained in the tests in accordance with EN14175 part 3, taking the limit values set by the German conglomerate BG Chemie and the French research institute INRS as a reference for containment. It must not be used to calculate the dimensions of ducts or the HVAC system. Check nominal flow rates.