BECOME ST fume cupboards

Application

The BECOME ST fume cupboard is intended for general use in the laboratory. Recommended for evacuating fumes, fine dust and light particles from the work area to avoid contaminating the laboratory atmosphere. Not recommended for use with compounds emitting ionising radiation, concentrated acids with a high thermal load or pathogens. The BECOME ST Low version for low ceilings allows it to be installed in laboratories with a minimum height of 2.700mm.

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 1,415 mm high inside, with a glazed upper part that allows full visibility of the tests being carried out inside.

Models

1. BECOME ST

2. BECOME ST Low

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.

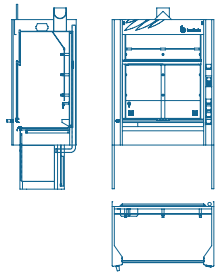
Optional accessories

- Motorised sash.
- VAV crontrol with a valve for a group of fume cupboards.
- Waste collection.
- Power sockets inside.
- Side window.
- Pass box.
- Cable glands.
- Storage under the fume cupboard.

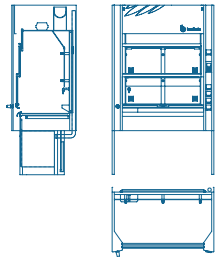
**For more details, see the chapter on "Accessories for fume cupboards".*

Drawings

BECOME ST



BECOME ST Low



Datos técnicos

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

(*) Minimum recommended laboratory height for BST: 3.000mm See lower heights
Minimum recommended laboratory height for BST LOW: 2.700 mm See lower heights.

Interior dimensions	
Width (mm)	1.135 I 1.435 I 1.735 I 2.035 I 2.335
Depth (mm)	740/620
Height (mm) (*)	1.415 I 1.215

Todos los datos dimensionales Tol: +/- 5mm.

BECOME ST 1500 fume cupboard is certified according to the UNE-EN ISO 14006: 2011 standard.

Technical data

Work dimensions	
Work height (mm)	900
Maximum operational 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	BST 1200	BST 1500	BST 1800	BST 2100	BST 2400
Frame	Side frames made of steel pipe, with sheet metal lids, coated with polyester resin. Lower frame.				
Worktop	White, 26mm 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 (Elite/ Elite Low)	1/2				
No. of horizontal rails	2			4	
No. of support for scaffold	9			12	
Maximum load per scaffold support (kg) (*)	5				
Services (**)					
LED lighting (20W)	1	2	2	3	3
230V/16A IP55 power sockets	4				
Magneto-thermal protection	1 x 16A				
Optional services (**)					
Sink	300x120x111mm 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 10bar.				
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 07bar.				
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 gases	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.				
	Telephone socket.				
	Voice and data socket.				
Thermal-magnetic cut-outs	16A single-phase thermal magnetic circuit breaker.				
	16A three-phase thermal magnetic circuit breaker.				
	20A single-phase thermal magnetic circuit breaker.				
	20A three-phase thermal magnetic circuit breaker.				
Socket power (**)	Single-phase power socket (3 poles) 230V - 16A.				
	Single-phase power socket (3 poles) 230 - 32A.				
	Three-phase power socket (5 poles) 400V - 16A.				
	Three-phase power socket (5 poles) 400V - 32A.				
Start / stop for accessories in fume cupboard	Start / stop switch.				
	Emergency stop button.				

(*) Load considered at a distance of 100mm from the support. Higher support loads on the worktop.
(**) The services will be located on the side and front panels, the configuration will be carried out according to the needs of each customer. 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

Models	BST 1200	BST 1500	BST 1800	BST 2100	BST 2400
Height of the extraction outlet from the ground (mm) BST/ BST Low	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	EO25 (For details, see the chapter on accessories).				
Test flow rate (**)	350m³/hx mlin.				
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