

# H-MAT

Horizontal Laminar Flow Cabinets



## Main Features

Main body manufactured in mild steel with white polyester finish RAL 9016

**Worksurface manufactured in grade 316 stainless steel**

Unidirectional airflow to give sterile working conditions almost immediately on start up

**Simple controls and indicators**

Clear side glazing for maximum working visibility

**Fluorescent lighting up to 1000 Lux at worksurface**

HEPA filtration to Class H14  
99.995 MPPS efficiency or  
99.999% DOP efficiency to  
EN 1822-1

**DOP Test Port**

Variable speed fans to maximise filter lifetime

**Wide range of available sizes**

Larger models available for specialised applications

**Standard compliance to**

**BSEN 14644 Class 3, 4 or 5**

**EC GMP Grade A**

**Class F to BS 5295 Class 100**

**(Federal Standard 209E)**



## Applications

Multi Purpose Clean Air Workstation designed to provide better than Class F (BS 5295) Class 100 (Federal Standard 209E) and BSEN 14644 (Class 3, 4 & 5) air quality in working zone

Suppliers of Class 1, 2 & 3 Microbiological Safety Cabinets, Isolators, laminar flow cabinets and associated clean air solutions

## Technical Specification

Model	Dimensions (mm)		
<b>External dimensions</b>	<b>W</b>	<b>D</b>	<b>H</b>
H-MAT 1200/750 Cabinet	1288	750	1255
H-MAT 1500/750 Cabinet	1593	750	1255
H-MAT 1800/750 Cabinet	1898	750	1255
Other widths and filter heights available on request			

Model	Dimensions (mm)		
<b>Workzone dimensions (mm)</b>	<b>W</b>	<b>D</b>	<b>H</b>
1200	1200	500	730
1500	1500	500	730
1800	1800	500	730

### Applications

General routine hospital pharmacy operations including preparation of IV and TPN bags

Laboratory plant tissue work where sterility of the work is essential

Pharmaceutical handling of liquids or powders where sterility is essential but the operation presents no hazard to the operator

Manufacture and assembly of micro - electronic components in a sterile environment

### Description

#### Construction:

2mm Mild steel body finished in "traffic white" powder paint RAL9016. Worktray manufactured in grade 316 stainless steel with 240G finish. All stainless steel construction can be provided on request.

#### Instrumentation and Controls:

Simple control panel with Power ON Indicator, On/Off switch and Workzone light switch.

#### Air Volume Rates:

1200mm model - 0.39 m<sup>3</sup>/sec  
 1500mm model - 0.49 m<sup>3</sup>/sec  
 1800mm model - 0.59 m<sup>3</sup>/sec

#### Cabinet Weights

160Kg  
 185Kg  
 230Kg

#### Face Velocity:

0.45m/sec

#### Alarms:

Audible and visual for low inflow and filter change required

#### Lighting Level:

1000 Lux at worksurface (white)

#### Noise Level:

Less than 65dB

#### Electrical Supply:

230v/50Hz/single phase

#### Electrical Load:

1200mm model 0.8kW  
 1500mm model 1.4kW  
 1800mm model 1.5kW

#### Options and Accessories

Support frame fitted with levelling feet or lockable castors  
 Electrically operated variable height stand with available travel from 750mm to 1050mm working height.  
 Service taps (vacuum , lab gasses etc)  
 Stainless steel hanging rail  
 Electrical sockets  
 UV Germicidal light  
 Digital airflow velocity measurement  
 Filter pressure differential gauge  
 All stainless steel construction



H-MAT controls (Filter pressure gauge optional)

### Other products from Contained Air Solutions

Class I Microbiological Safety Cabinets  
 Class 2 Microbiological Safety Cabinets  
 Class 3 Microbiological Safety Cabinets  
 Pharmaceutical Isolators  
 Powder Control booths  
 Containment booths  
 Robotics enclosures  
 Ventilated Tables



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