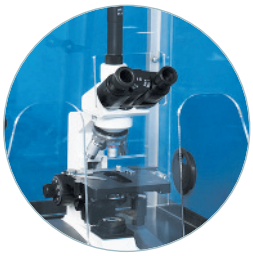
A WIDE SELECTION OF HEPA FILTERED CABINETS & HOODS

Powder Handling/ Weighing Stations

For protecting the operator from hazardous airborne particulates and powders

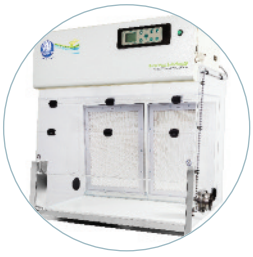
F3-XIT
Small footprint weighing cabinets

XIT Plus
Larger cabinets, with more features



Specialist application and custom built
Examples include: Asbestos Inspection Cabinets

EXCEL Plus
For more demanding weighing applications, turbulent free air flow



EXCEL Plus Safechange
Cabinets for the most hazardous powders

EXCEL Plus Safechange

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BIGNEAT CONTAINMENT TECHNOLOGY

Value. Service. Experience.

Bigneat is an innovator in the design of laboratory safety cabinets for operator and sample/process protection

Powder cabinets (otherwise called stations, workstations or enclosures) utilise HEPA filtration technology and protect the operator from particles whilst weighing and handling powders.

F3-XIT-D

XIT Weighing Stations

These cabinets have a very small footprint and excellent all-round vision. Cabinets have hinged access flap (F3-XIT-D) or corner tear drops (F3-XIT-S).

Option: Black base tray is manufactured from black PVC.

Note: Black is ideal for highlighting powder spillages.

Sizes and Technical Information

Model	Dimensions mm (external wxdxh)	Dimensions mm (internal wxdxh)	Sound Levels	Face Air Velocity	Access Aperture mm
F3-XIT-S	440 x 600 x 650	415 x 575 x 455	<50dBA	0.3m/s – 0.5 m/s	N/A
F3-XIT-D	600 x 520 x 650	579 x 506 x 455	<50dBA	0.3m/s – 0.5 m/s	529 x 165

Cabinets available for power supply: 230V, AC, 50Hz, 5Amp, 1Ø and 110V, AC, 60Hz, 8Amp, 1Ø.
Filtration in this cabinet: Pre-filter and HEPA filter

XIT Plus Weighing Stations

This cabinet offers excellent unhindered all-round vision and has trapezium shaped front access (285mm height) with double hinged doors for easy access to cabinet interior. A services access port is provided in each side panel.

Cabinet can be placed onto an existing work surface or supplied on mobile bench. Black base tray is manufactured from PVC.

Note: Black is ideal for highlighting powder spillages.

Options: Lighting (18W fluorescent lamp). White rear panel in Foamex. Static stand (open or cupboard).

Sizes and Technical Information

Model	Dimensions mm (external wxdxh)	Dimensions mm (internal wxdxh)	Sound Levels	Face Air Velocity	Access Aperture mm
XIT PLUS 804	820 x 570 x 1145	770 x 510 x 810	<50dBA	Average 0.5 m/s	600 x 285
XIT PLUS 1004	1020 x 570 x 1145	970 x 510 x 810	<50dBA	Average 0.5 m/s	600 x 285
XIT PLUS 1204	1220 x 570 x 1145	1170 x 510 x 810	<50dBA	Average 0.5 m/s	600 x 285

Cabinets available for power supply: 230V, AC, 50Hz, 5Amp, 1Ø and 110V, AC, 60Hz, 8Amp, 1Ø.
Filtration in this cabinet: Pre-filter and HEPA filter

F3-XIT-S

Features

- Quiet operation
- Suited to weighing with a **Precision Balance**
- Services access port in rear panel
- Fan is pre-set between 0.3 and 0.5m/s depending on application.
- Suited to 3 figure balance

XIT Plus on optional stand

Features

- Quiet operation
- Keypad control panel with touch button controls and service due indicator
- Audible electronic low airflow alarm
- Safe-change pre-filter can be bagged under negative pressure
- Lockable front access doors
- Fan is pre-set between 0.3 and 0.5m/s depending on the application.
- Suited for weighing with an **Analytical Balance**

Excel Plus

Recirculatory filtration or for ducted installation.

Excel Plus cabinets incorporate aerofoil technology and graded rear back baffles to ensure reduced turbulence and precise control of horizontal air flow across the entire width of the working access.

Acrylic construction and angled clear front windows enable excellent vision of enclosed manipulations and comfort during use. Black base tray is manufactured from PVC.

- Fan is pre-set between 0.3 and 0.5m/s depending on the application (recirculatory model only).
- Safe-change pre-filter can be bagged under negative pressure (recirculatory model only).
- 175mm height front access across full cabinet width (240mm on ducted model).

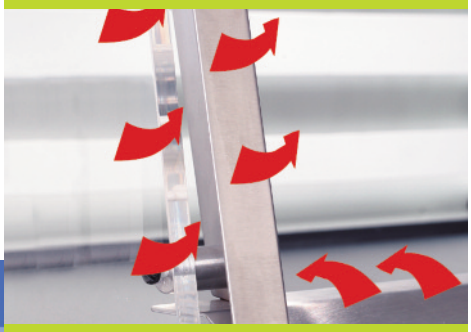
Excel Plus - recirculatory filtration

Options: Lighting (18W fluorescent lamp). Black base tray manufactured from HPL. Carbon filtration for chemical fumes. Ionising bars. ULPA Filtration upgrade. Static stand (open or cupboard). Spigot (200mm) for connection to house ducting (ducted model only).

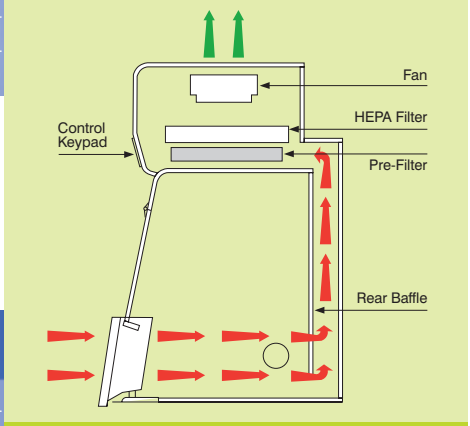
Features

- Gentle non-turbulent flow prevents balance fluctuation and cabinet dead spots
- Suited to weighing with a **Micro Balance**
- Keypad control panel with touch button controls and service due indicator
- Audible electronic low airflow alarm
- Lockable front access doors

Ionising bars eliminate dust attraction and control the static environment.



Air flow pattern over and under aerofoils.



Horizontal turbulent free air flow pattern in an Excel Plus Recirculatory Filtration Cabinet.

Recirculatory Filtration Cabinets

Sizes and Technical Information

Model	Dimensions mm (external wxdxh)	Dimensions mm (internal wxdxh)	Sound Levels	Face Air Velocity	Access Aperture mm
EXCEL PLUS 804	820 x 725 x 1167	770 x 605 x 790	<50dBA	0.3m/s - 0.5 m/s	690 x 175
EXCEL PLUS 1004	1020 x 725 x 1167	970 x 605 x 790	<50dBA	0.3m/s - 0.5 m/s	890 x 175
EXCEL PLUS 1206	1220 x 725 x 1167	1170 x 605 x 790	<55dBA	0.3m/s - 0.5 m/s	1090 x 175
EXCEL PLUS 1506	1520 x 725 x 1167	1470 x 605 x 790	<55dBA	0.3m/s - 0.5 m/s	1390 x 175

Cabinets available for power supply: 230V, AC, 50Hz, 5Amp, 1Ø and 110V, AC, 60Hz, 8Amp, 1Ø.
Filtration in this cabinet: Pre-filter and particulate filter (HEPA or ULPA).

Ducted Cabinets

Sizes and Technical Information

Model	Dimensions mm (external wxdxh)	Dimensions mm (internal wxdxh)	Face Air Velocity	Access Aperture mm
EXCEL PLUS 800	800 x 740 x 912	772 x 605 x 885	installation dependent	694 x 240
EXCEL PLUS 1000	1000 x 740 x 912	972 x 605 x 885	installation dependent	894 x 240
EXCEL PLUS 1200	1200 x 740 x 912	1172 x 605 x 885	installation dependent	1094 x 240
EXCEL PLUS 1500	1500 x 740 x 912	1472 x 605 x 885	installation dependent	1394 x 240

Stand Option

For all XIT Plus and Excel Plus cabinets.

Installation onto an existing work surface is easy however a static stand provides greater flexibility. Stand has levelling/ adjustable feet, an adjustable height electronic open stand model is available.

Excel Plus Ducted

For installation into existing ducting

Excel Plus Safechange

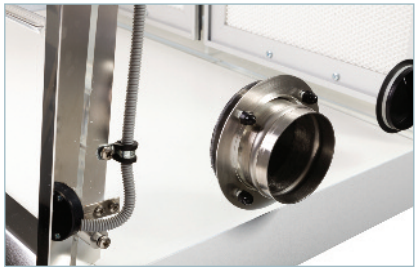
Excel Plus Workstations are used for the most demanding powder handling applications, such as high accuracy weighing, processing of pellets, capsules and tablets or for dispensing of potentially toxic powdered substances.

The Safechange cabinet in the Excel Plus range has been designed to provide the safest possible operation for both the user and maintenance staff.

True Safechange Technology Feature

Cabinet incorporates a 'True Safechange' mechanism that enables the safe removal of HEPA particulate filters. Replacement is performed under negative pressure, with the cabinet running. This is an alternative to a bag-in/bag-out system.

Door open stay



Waste bag port

Specialist application and custom built weighing stations

Please tell us of your specific needs and our design team will offer a custom enclosure solution or bespoke finishing of a standard cabinet.

Cut-out to accept microscope eyepiece

Asbestos Inspection Cabinet

This is an adapted XIT Plus Cabinet and shares the same features and options.

An aperture is provided for access to microscope eyepiece.

Please call us!

Quality Assured

Bigneat is accredited to BS EN ISO 9001: 2008
Bigneat products are CE marked.

Please request literature on this range

Filtration Technology

Cabinets are supplied complete with particulate filtration.

Pre-filtration eliminates particles at 5.0 microns or larger to an efficiency of 92% as defined in BS EN 779.

HEPA filtration (H14 Standard) eliminates particles 0.3 microns or larger to an efficiency of 99.995%.

ULPA (U16 Standard) is available as optional upgrade (on certain models) and has an efficiency of 99.999% for particle sizes of 0.1 – 0.3 microns MPPS (Most Penetrating Particle Size) as defined in EN 1822.

Please visit our website at:
www.bigneat.com

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