



# POWDER HANDLING & CONTAINMENT SYSTEMS

**WORK  
SAFELY  
WITH  
BIGNEAT**



**THE LEADING PROVIDER OF CLEAN AIR SAFETY SOLUTIONS  
FOR WORKING ENVIRONMENTS**

## FILTRATION TECHNOLOGY

Two-stage filtration is used in all Bigneat particulate filtration systems. Firstly a pre-filter removes particles >5 microns, then a high capacity design HEPA filter, certified to BS EN1822, removes particulate matter >0.3 microns to an absolute filtration of 99.997%.

## XIT CABINETS



### SMALL WEIGHING CABINET - RECIRCULATORY FILTRATION

#### FEATURES

- Compact size
- Quiet operation
- Fan speed provides for optimum face velocities of between 0.3 to 0.5 ms<sup>-1</sup>

#### OPTIONS

- PVC base tray



Dimensions: Internal mm			
model	width	depth	height
F3-XIT-S	415	575	455
F3-XIT-D	579	506	455

Dimensions: External mm			
model	width	depth	height
F3-XIT-S	440	600	650
F3-XIT-D	600	520	650

## XIT PLUS CABINETS



### RECIRCULATORY FILTRATION

#### FEATURES

- Safechange pre-filter bagged under negative pressure
- Variable fan-speed control provides for optimum face velocities; 0.3 to 0.5 ms<sup>-1</sup>
- Vaneometer indicates flow condition

#### OPTIONS

- Electronic low airflow alarm (as shown in picture opposite)
- PVC base tray
- Fluorescent lighting (11W)
- Trolley with locking castors
- Chemcap™ filter for chemical fume removal

Dimensions: Internal mm			
model	width	depth	height
XIT Plus 800	770	520	810
XIT Plus 1000	970	520	810
XIT Plus 1200	1170	520	810

Dimensions: External mm			
model	width	depth	height
XIT Plus 800	800	570	1145
XIT Plus 1000	1000	570	1145
XIT Plus 1200	1200	570	1145

## ASBESTOS INSPECTION CABINET



### RECIRCULATORY FILTRATION

#### FEATURES

- An aperture is provided for access to inspection microscope eyepiece
- Electronic low airflow alarm fitted as standard (set to alarm at minimum face velocity of 0.5m/s)
- This is an adapted XIT Plus Cabinet and shares the same features and options

Legislation relating to Asbestos Inspection Cabinets is covered within HSE publication HSG 248. This states that a cabinet should conform to BS 7258.

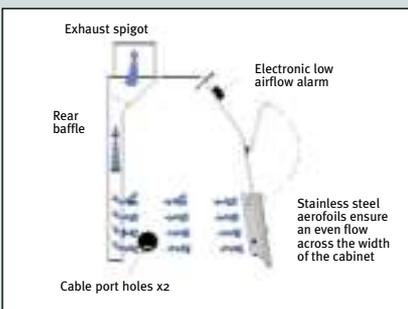
BS 7258 has now been superseded by EN14175 2003

Dimensions: Internal mm			
model	width	depth	height
BA8004	770	520	810

Dimensions: External mm			
model	width	depth	height
BA8004	800	570	1145

# EXCEL PLUS CABINETS

FOR THE MOST DEMANDING POWDER HANDLING APPLICATIONS – PROVIDING HORIZONTAL, TURBULENT-FREE AIRFLOW



## RECIRCULATORY FILTRATION OR DUCTED INSTALLATION

### FEATURES

- Extraction of air can be through integral filters, filters at a remote location or through existing ductwork
- The air flow route via graded baffles at the rear of the cabinet reduces turbulence to a minimum, enabling excellent balance stability
- Aerofoils ensure an even flow across the width of the cabinet and the best containment possible
- Electronic low airflow alarm

### FEATURES – Recirculatory Models

- Variable fan speed
- Safechange pre-filter bagged under negative pressure



### OPTIONS

- Ionising bars to eliminate dust attraction and control the static environment
- Electrical sockets
- PVC base tray
- 11w lighting



EXCEL Plus Recirculatory Dimensions: Internal mm			
model	width	depth	height
EXCEL Plus 804	770	605	790
EXCEL Plus 1004	970	605	790
EXCEL Plus 1206	1170	605	790
EXCEL Plus 1506	1470	605	790

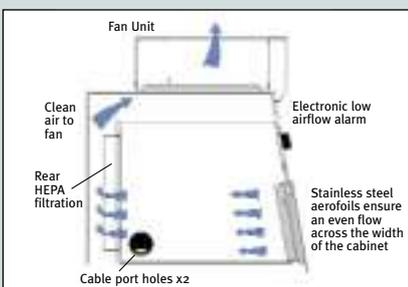
EXCEL Plus Recirculatory Dimensions: External mm			
model	width	depth	height
EXCEL Plus 804	794	725	1145
EXCEL Plus 1004	994	725	1145
EXCEL Plus 1206	1194	725	1145
EXCEL Plus 1506	1494	725	1145

EXCEL Plus Ducted Dimensions: Internal mm			
model	width	depth	height
EXCEL Plus 800	776	635	885
EXCEL Plus 1000	976	635	885
EXCEL Plus 1200	1176	635	885
EXCEL Plus 1500	1476	635	885

EXCEL Plus Ducted Dimensions: External mm			
model	width	depth	height
EXCEL Plus 800	800	740	900
EXCEL Plus 1000	1000	740	900
EXCEL Plus 1200	1200	740	900
EXCEL Plus 1500	1500	740	900

# EXCEL PLUS SAFECHANGE CABINETS

ALL THE BENEFITS OF EXCEL PLUS CABINETS WITH ADDED SAFECHANGE SYSTEM WHICH ELIMINATES THE POSSIBILITY OF CONTAMINATION EITHER IN THE LABORATORY, OR UPSTREAM IN DUCTWORK OR FAN ASSEMBLY



## RECIRCULATORY FILTRATION

- Same features and options as EXCEL Plus Recirculatory Models

### Plus additional option

- Spigot for connection to house extract ducting

### Note:

This cabinet offers 'True' Safechange Technology, many competitive 'Safe' changing systems do not offer this level of protection.

## TRUE SAFECHANGE TECHNOLOGY

This is a mechanism that enables the safe removal of HEPA particulate filters. Replacement is performed under negative pressure, with the cabinet running. Bagging takes place within the cabinet.

Safechange filter replacement is important for safe maintenance of systems in cleanrooms and when particulates may be hazardous to the working environment.

EXCEL Plus Safechange Dimensions: Internal mm			
model	width	depth	height
Excel Plus 1306	1279	608	500
Excel Plus 1606	1579	608	500

EXCEL Plus Safechange Dimensions: External mm			
model	width	depth	height
Excel Plus 1306	1327	748	806
Excel Plus 1606	1627	748	806



**BIGNEAT PROVIDES THE BEST OPERATOR PROTECTION  
WHEN HANDLING FINE POWDERS AND DUSTS  
DURING WEIGHING AND TESTING**



## OTHER EQUIPMENT AVAILABLE FROM BIGNEAT



### LAMINAR FLOW SYSTEMS

Bigneat laminar flow cabinets protect by maintaining a particle-free ultra clean zone.



### CLEANTEC® EXTRACTION SYSTEMS

At-the-source, underbench systems are ideal for using in the laboratory, at the production line and for many other general extraction applications.

### DESIGN AND CONSTRUCTION OF SPECIAL CONTAINMENT SYSTEMS

Bigneat's experience extends from the standard to the very unusual and as a result much of Bigneat's production is of bespoke manufacture. If you have an unusual or difficult application, please call us.



## WHY BIGNEAT?

Bigneat knows that every application is subtly different, so we endeavour to establish your needs before we offer a cabinet suggestion.

We will ask you:

- **What powder matter do you handle?**
- **Do you have existing ductwork? Is it suitable for satisfactory removal of particulates?**
- **Do you have adequate control of air flow for providing optimum balance accuracy whilst still maintaining operator protection all the time?**

The solution may be a standard product, or we may solve your needs by building a bespoke cabinet.

Our major priority will always be to provide you with the **safest possible** working environment.

Call Bigneat for...

### QUALITY PRODUCTS, QUALITY SERVICE

### CABINET TESTING

Cabinet designs are tested and approved by an external agency.



### QUALITY ASSURED

Bigneat is accredited to ISO 9001:2000.



### ON-GOING PRODUCT DEVELOPMENT

Bigneat reserves the right to make modification to designs shown within this brochure, this is in line with our policy of continually improving our products for you, our customer.



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