

Cleantec[®] Extraction Technology

the effective way to eliminate dust & fume hazards

MINI CLEANTEC[®] RANGE

Bigneat Mini Cleantec systems are designed to solve your fume, dust and odour problems at the press of a switch. Local extraction and filtration efficiently removes low volumes of hazardous materials at source; the systems are easily installed and can be readily moved.



Mini Cleantec 100 — Example configuration using 2x32mm flexible arms with optional domed and clear flanged hoods, semi-permanent fixture to bench

Mini Cleantec 100 — Example of mobile configuration with 50mm jointed arm and metal conical cowl

Two standard Mini Cleantec models are available. The Mini 100 is ideal for lighter duties in laboratory or educational areas and is available as a mobile unit (see illustration).

The Mini 200 has increased flow and filter capacity for heavy loading applications, with the option of an additional high-capacity pre-filter system.

Select the appropriate HEPA, Carbon or Combination filter, choose from our range of 32mm diameter flexible arms or 50mm diameter jointed arms complete with manual flow control dampers and a nozzle, hood or cowl to match your personal requirements.

Alternatively, you can connect a Cleantec unit to your process equipment or custom enclosure via our 50mm, 80mm or 100mm diameter flexible hose kits.

FREE ASSESSMENT SERVICEURES

For FREE assessment of your current or proposed installation and uses, please request a Risk Assessment Form, or download a copy from www.bigneat.com

HEALTH & SAFETY

Dust and fumes released into the working environment from commonly used raw materials during processing may be hazardous to health. It is imperative that all personnel are protected from exposure to any potential health hazards. The Cleantec system, combined with the use of the correct PPE and used as part of a comprehensive safety routine, offer a cost-effective solution to ensuring operator safety.

EFFICIENCY IN THE WORKPLACE

Cleantec systems enhance productivity in the laboratory and workplace by efficiently removing dusts and odours directly from the source.

THE PURIFICATION PROCESS

Mini Cleantec systems are compact yet can handle large air volumes (refer to specifications overleaf).

The contaminated air is drawn into the Cleantec by a centrifugal fan through the hose connection on the lid; after passing through the filtration stages, the clean air is discharged by the fan into the room.

Years of research have enabled Bigneat to develop a range of carbon filters with highly efficient absorption characteristics providing high loading capacities for a wide selection of chemical fumes.

Refer to the specification table on the reverse to select the filter you require or use our Free Assessment Service.

FILTRATION STAGE 1

- Removal of larger particles using EU5 grade pre-filter

FILTRATION STAGE 2

- Removal of fine particles using HEPA 14 grade filter or
- Removal of chemical fumes by activated carbon filter

Alternatively, removal of fine particles and chemical fumes can be achieved with our Combination HEPA-Carbon filters.

Our H14 Grade HEPA filters will remove 99.997% of particles of 0.3µm or greater



Mini Cleantec 100 (left) and 200 side by side



Mini Cleantec 200 connected to 50mm arm located through work surface



Mini Cleantec 200 extracting from fume cabinet enclosure

GENERAL FEATURES

- Lightweight moulded ABS case ensures high resistance to chemicals
- Easily changed pre-filters give extended HEPA filter life
- Portable and adaptable to your changing process requirements
- Standard electrical socket connection for extraction fan supply
- 230v 1 Phase 50Hz standard – 115v 50/60Hz systems available on request

CLEANTEC OPTIONS

- Trolleys & Castors
- 115v 50/60Hz fan available
- High-capacity add-on pre-filter (Mini 200 only)
- Filter-blocked audible alarm (Mini 200 only)
- Laser-produced dusts? Contact us for information about our LASTEC models.

TECHNICAL SPECIFICATIONS

Model Mini 100			
Dimensions (H x W x D)		360 x 295 x 285m	
Weight		11kg	
Hose Connections		32mm/50mm/80mm	
Voltage/Wattage		230v/54W	
Construction		Cabinet body high-grade acrylic-capped ABS	
Alarm/Speed Control		Not available	
Flow Rates	Chemicals & Dusts	Chemicals Vapours	Dusts & Powders
Maximum	65m ³ /hr	60m ³ /hr	80m ³ /hr
Filter Selection Vapour Filter Types	Chemical Vapours	Chemicals & Dust	
Organics & Solvents	FB0008/01	FL0001/01	
Acid	FB0008/02	FL0001/02	
Multipurpose	FB0008/03	FL0001/03	
Formaldehyde	FB0008/04	FL0001/04	
Ammonia	FB0008/05	FL0001/05	
Dust & Powders only	FH0011/01 (HEPA only)		

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A full selection of accessories, nozzles, hoods and arms are available to complete your system. Please contact us for illustrated datasheets.

QUALITY ASSURED



Bigneat is accredited to BS EN ISO 9001: 2008



Bigneat systems are CE marked

Bigneat manufactures from UL approved components

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