

CHEMCAP CLEARVIEW™

Ductless Fume Cabinets & Hoods



Incorporating Chemcap Enviro™ carbon filtration
Over 20% improvement in retention capacity



Provides the highest possible level of containment in a ductless fume cabinet, ideal for the safety conscious laboratory

BIGNEAT CONTAINMENT TECHNOLOGY

Value. Service. Experience.

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New generation

Bigneat is a leading manufacturer of laboratory safety enclosures. In the past decade Chemcap Ductless Fume Cabinets, which operate with excellent airflow control and with high efficiency carbon filtration, have been sold to over 28 countries around the world.



manufacturing enclosures in the UK since 1972

Chemcap Clearview cabinets are launched with significant design improvements which ensure they operate to the highest industry standards and provide the user with improved all-round clearview vision.

Initiator of change

Leader in carbon filtration

technology: High performance laboratory grade carbon filter media is impregnated with additives to ensure the best possible retention capacities and filtration performance. Bigneat was one of the first companies to replace potentially toxic and carcinogenic inorganic additives with environmentally friendly and biodegradable compounds whilst maintaining excellent performance.

Always make sure your cabinet is fitted with a Chemcap filter

Bigneat's carbon media have excellent retention capacities which are amongst the best in the world. Our programme of research and development continues to improve filter performance.

Our promise:

Bigneat is committed to your safety and will advise on the suitability of ductless fume cabinets for your applications. We will suggest good working practices and how best to maintain the safety and wellbeing of your staff using our cabinets.

Chemcap Clearview – the effective way to eliminate airborne risks and to purify laboratory air

Chemcap Clearview Ductless Fume Cabinets & Hoods

Model	Width
BC 4002	400mm
BC 6003	600mm
BC 8004	800mm
BC 1004	1000mm
BC 1206	1200mm
BC 1506	1500mm



Model BC 4002



Model BC 6003



Model BC 8004



Model BC 1004

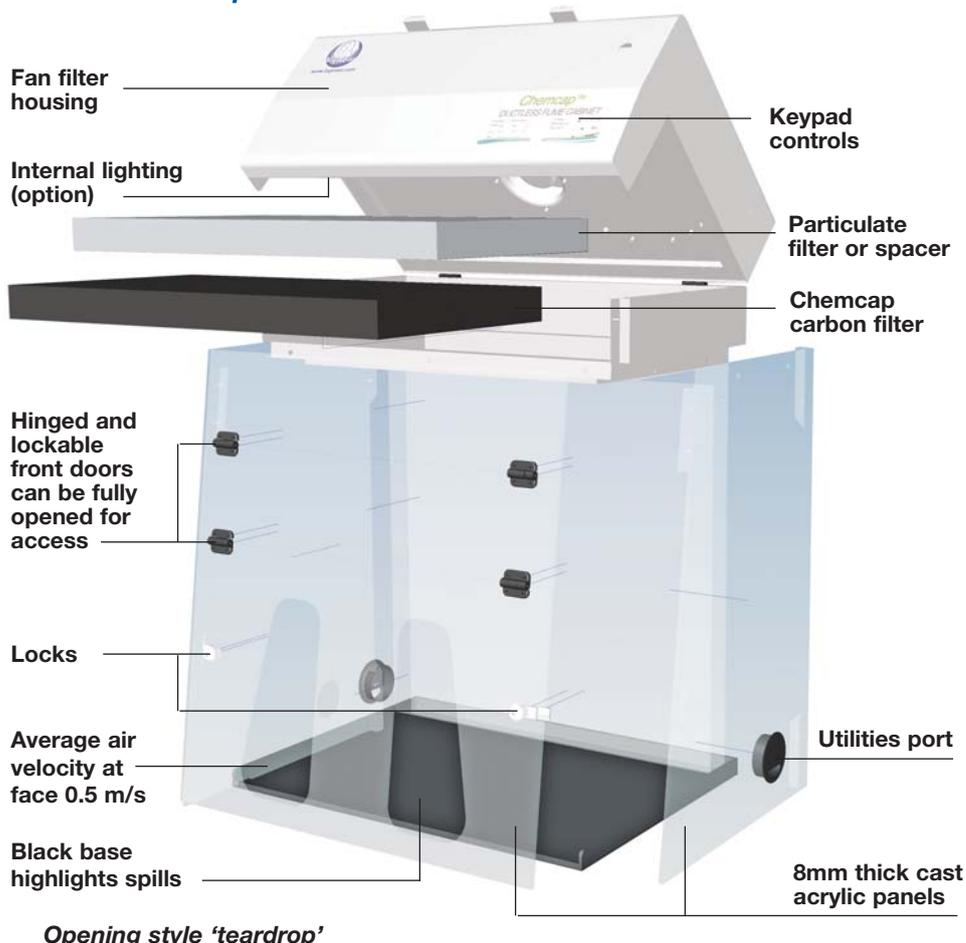


Model BC 1206



Model BC 1506

Chemcap Clearview



Key Features



- Keypad control panel with touch button controls and service due indicator
- Audible electronic low airflow alarm
- Clearview all-round vision
- Quiet operation
- Pre-filter can be bagged under negative pressure
- Easy clean – all materials chemically resistant
- Lockable front access windows

Optional extras

EC – Configurable control system; flow rate indication, hour counter, visible and audible alarm

B - Rear baffle

L - Lighting, 18 watt fluorescent lamps

FSA – Electronic filter saturation alarm

WP – Replacement of rear window with opaque white panel

FHP – Heat protection shield for filters

SK – Services Kit - see mobile bench for details

Description and Technical Information

Model	Description	Dimensions mm (external wxdxh)	Dimensions mm (internal wxdxh)	Access Style	Face Velocity	Power Consumption	Sound Level dBA	Boxed Weight kg	Boxed Dimensions
BC 4002	Chemcap Clearview Ductless Fume Cabinet supplied complete with pre-filter, carbon filter of pre-determined type and HEPA filter on request. (Single filter stack)	410 x 540 x 900	380 x 495 x 580	Flap	0.5 m/s	60W•	<50	71	715 x 660 x 7605
BC 6003		600 x 570 x 1145	570 x 520 x 810	Teardrop	0.5 m/s	60W•	<50	91	960 x 710 x 760
BC 8004		800 x 570 x 1145	770 x 520 x 810	Teardrop	0.5 m/s	60W•	<50	105	1020 x 930 x 760
BC 1004		1000 x 570 x 1145	970 x 520 x 810	Teardrop	0.5 m/s	60W•	<50	127	1140 x 1010 x 735
BC 1204		1200 x 570 x 1145	1170 x 520 x 810	Teardrop	0.5 m/s	60W•	<50	151	1350 x 1010 x 790
BC 1206		1200 x 570 x 1145	1170 x 520 x 810	Trapezium	0.5 m/s	120W•	<55	170	1350 x 1010 x 790
BC 1506	Supplied complete with 2x pre-filters, 2x carbon filters of pre-determined type and 2x HEPA filters on request. (Double filter stack, double fan system)	1500 x 570 x 1145	1470 x 520 x 810	Trapezium	0.5 m/s	120W•	<55	192	1640 x 1010 x 790

Cabinets available for power supply: 230V, AC, 50Hz, 5Amp, 1Ø and 110V, AC, 60Hz, 8Amp, 1Ø.
Alternative front apertures can be requested or specially engineered for access to contained equipment such as a microscope.

• Power is shown with fan operating only.

Standards for filtration and containment

Chemcap Clearview cabinets meet the requirements of all major and recognised Standards worldwide for containment and filtration, for example:

- US Standard ASHRAE 110: 1995 12-203 (for containment)
- British Standard BS 7989:2001 (for filter efficiency and retention capacity) ‡
- French Standard AFNOR NFX 15-211:2009 - Class 2 (for filter retention capacity)
- Canadian Standard CSA Z316.5 (for containment)

‡ See optional extras, rear baffle required



Clear all-round vision

Protect your laboratory staff and improve the laboratory environment

When you want to contain and remove hazardous fumes, vapours and/or particulates in your laboratory turn to **Chemcap Clearview**.

SAFETY FIRST: Ductless Fume Cabinets offer protection to laboratory staff when undergoing experimentation, testing or hazardous procedures that release fumes, aerosols, particles or vapours. Hazardous compounds are retained in a chemical filter and particulate HEPA filter (if fitted) and clean air is returned back to the laboratory. An operating Chemcap cabinet will remove odours and purify air within the laboratory. It freshens up the environment, making it a safer, more pleasant place to work and improves the wellbeing of laboratory personnel.

SAFE FOR THE ENVIRONMENT: Unlike conventional fume cupboards which vent directly to the atmosphere, these filtration based systems completely eliminate the release of hazardous compounds into the environment.

ENERGY SAVING: The main energy consumption of a Chemcap cabinet is the fan which creates the airflow. Conventional fume cupboards draw air-conditioned air out of the room and it is ducted away. Whenever possible use your Chemcap cabinet which saves the cost of heating or cooling replacement air for your laboratory.

CONVENIENT: An important feature of Chemcap cabinets is their portability; they can be moved easily to wherever laboratory procedures are to be undertaken. Less walking – less risk.

Cabinet Filtration Technology

Carbon filtration for chemical fumes and vapours.

Highly efficient Chemcap filters eliminate toxic substances and compounds within the recommended occupational exposure limit for pollutant gases having molecular weight equal to or greater than 30. Efficiency is 99.9% for the duration of the filter life and with no deterioration in filter performance.



Particulate filtration for aerosols and particulates.

Pre-filters fulfil the need to arrest larger particles and are fitted to all Chemcap Clearview cabinets, HEPA filtration is fitted as an option when aerosols and small particles require removal. This can be upgraded to ULPA filtration when nanoparticle removal is required.

KEY DEVELOPMENT

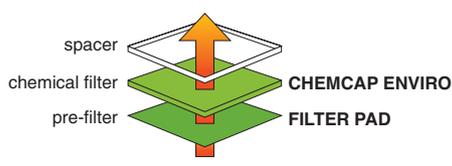
Improvements in the flow patterns in the design of Chemcap Clearview cabinets ensure that more of the carbon within the filtration bed is utilised and that retention capacity is maximised.

New Chemcap Clearview cabinets utilise filtration more effectively with an overall retention improvement of

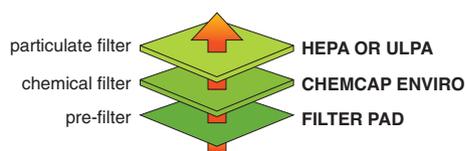
20%

Two or three-stage filtration is used in Chemcap cabinets

2-stage filtration



3-stage filtration



Designed in improvements

Chemcap Clearview cabinets feature a new easy-to-use touchbutton on/off control panel with incorporated service due indicator and audible low airflow. View of the working area is an unobstructed all-round 360° and this clearview vision makes a cabinet comfortable to use for long periods.

'Tear drop' shaped arm access apertures are provided in smaller cabinets and 'trapezium' shaped access in larger cabinets.

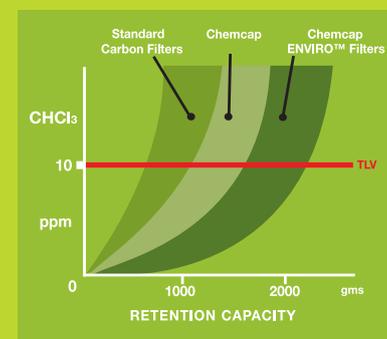
Front access doors are lockable.

Face velocity is maintained at 0.5m/s (average).

Optional in previous generation of Chemcap but now included as standard equipment:

- Audible electronic low airflow alarm
- Base tray
- Chemcap Enviro™ filter

Filter performance



Free Assessment Service

Please contact us for a free assessment and our chemist will undertake a risk analysis and suggest the best filter for your purposes.

You may download an assessment form at

www.bigneat.com/filtration/

Check out the website at
www.bigneat.com

Choosing your optimised *Chemcap* filtration

Bigneat offers a multi-purpose (universal) filter which should be selected when a fume cabinet is to be used for a variety of different procedures and handlings.

For best performance Bigneat's chemist recommends choosing an optimised filter which will give the best retention and a long filter life.

To check out which filter is best for your applications please download a Chemcap Filter Chemical Activity and Retention Listing Datasheet at: www.bigneat.com/filtration/ or contact Bigneat's technical team.



Available on USB, CD or on the web



Filtration used in Chemcap Clearview cabinets

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

Carbon Filtration; filtration efficiency of 99.9%, meets BS 7989:2001 Standard.

OPTIONAL PARTICULATE FILTRATION

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

Filter selection

Filters OS and H ⁺ are suitable for most organic vapours and acid handlings. However we recommend when:	Composition of Vapours handled		Filter Type 2-stage without particulates	Filter Type 3-stage for chemicals with particulates (HEPA)
Organic compounds predominate	ORGANIC VAPOURS secondary acids	→	Filter OS	Filter OS HP
Acid compounds predominate	ACID VAPOURS secondary organic vapours	→	Filter H ⁺	Filter H ⁺ HP
Formaldehyde predominates	FORMALDEHYDE	→	Filter F	Filter F HP
Ammonia predominates	AMMONIA	→	Filter AM	Filter AM HP
Radioactive particles are present	RADIOACTIVE IODINE	→		Filter Ri HP
Mercury is present	MERCURY	→		Filter Hg HP
Uses are varied	MULTIPURPOSE (Universal)	→	Filter MP	Filter MP HP

Static or Mobile Bench



To make your cabinet truly portable, either select a mobile bench with integrated cupboard or an open box section bench (castors/fixed height).

Alternatively a static stand with levelling/adjustable feet may be selected (an adjustable height electronic model is available).



Technical Information

Part No.	Description	Dimensions mm (external wxdxh)
MTC 6000	Mobile Bench robust epoxy coated mild steel construction, cupboard doors with magnetic catches and lockable 130mm castors.	600 x 570 x 1145
MTC 8000		800 x 570 x 1145
MTC 1000		1000 x 570 x 1145
MTC 1200		1200 x 570 x 1145
MTC 1500		1500 x 570 x 1145

Stand prefix is MT for box section stand, MTA for electrical height adjustment stand.



Option

SK - Services Kit, mobile bench or stand to be supplied with swan neck water tap with drip cup, gas tap and electrical socket. The gas and water supply hoses are fitted with quick release couplings.



Ask about Chemcap Pro2



Designed for use with the most toxic fumes, vapours and particulates. Incorporated is a back up Chemcap filter in the filter stack.

- Increased operator safety
- Improved environmental protection

Worldwide Representation



More about Bigneat

Bigneat has been designing, manufacturing and maintaining just about every conceivable style of clean air safety cabinet for more than 35 years. Bigneat has grown from a national business to become a company with links worldwide and now enjoys an unrivalled reputation as the world's most innovative supplier in this specialist sector.

In addition to Chemcap Ductless Fume Cabinets, Bigneat manufactures fume cupboards, fume & dust arm extraction systems, biological safety cabinets, chemical storage systems, controlled environment enclosures & gloveboxes, laminar flow cabinets, PCR workstations, powder weighing cabinets and robotics & laboratory automation enclosures.

Bespoke and custom-built cabinets & hoods

If you need a special size cabinet, or require a cabinet or hood to enclose laboratory automation or apparatus, Bigneat should be your first point of contact. We are happy to quote you for a specially built or adapted product.

Quality Assured

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



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WORK SAFELY WITH BIGNEAT

Simple ordering process:

STEP 1

Choose what size cabinet you need and which options you would like.

STEP 2

Decide on the filter optimisation you require and whether you need particulate filtration (required for powders and fumes or compounds as specified by Chemcap Filter Chemical Activity Listing downloadable at www.bigneat.com/filtration/).

STEP 3

Call us and ask for an **Instant Quote**.

Keep costs low with chemcap

Conventional fume cabinets must be installed into existing or new duct work – Chemcap cabinets do not require ducting or any associated building works.

ENVIRONMENTAL STATEMENT:

Chemcap Cabinets are kind to the environment

- Long lasting construction and low environmental impact at installation.
- Eliminates the release of hazardous emissions into the environment.
- Reduces your CO2 footprint energy consumption (comparing ducted vs ductless).

Please visit our website at:
www.bigneat.com

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