

CHEMCAP CLEARVIEW™

Ductless Fume Cabinets & Hoods



**Operating to
recognised worldwide
Standards:**
AFNOR NFX 15-211:2009
BS7989:2001



**Energy efficient fan system
incorporating Chemcap carbon filtration**

Chemcap Clearview is ideal for the safety conscious laboratory



*** COMPREHENSIVE WARRANTY NOW UP TO 5 YEARS ***

BIGNEAT CONTAINMENT TECHNOLOGY
Value. Service. Experience.



Tel: +44 (0)23 92 266400 · E-mail: info@bigneat.com

Global Leader

Bigneat has been manufacturing in the UK since 1972 and is leading the World in containment technology and laboratory safety cabinets.

In the past decade Chemcap ductless fume cabinets have been sold to over 70 countries.

Why Chemcap Clearview?

Chemcap Clearview cabinets operate with excellent airflow control, highly efficient carbon filtration, are energy efficient and easy to use. View of the working area is an unobstructed all-round 360° and this makes a cabinet comfortable to use for long periods.

Chemcap Clearview is a great choice for your laboratory.

Leader in carbon filtration technology:

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.

Chemcap Clearview – the effective way to eliminate airborne laboratory hazards

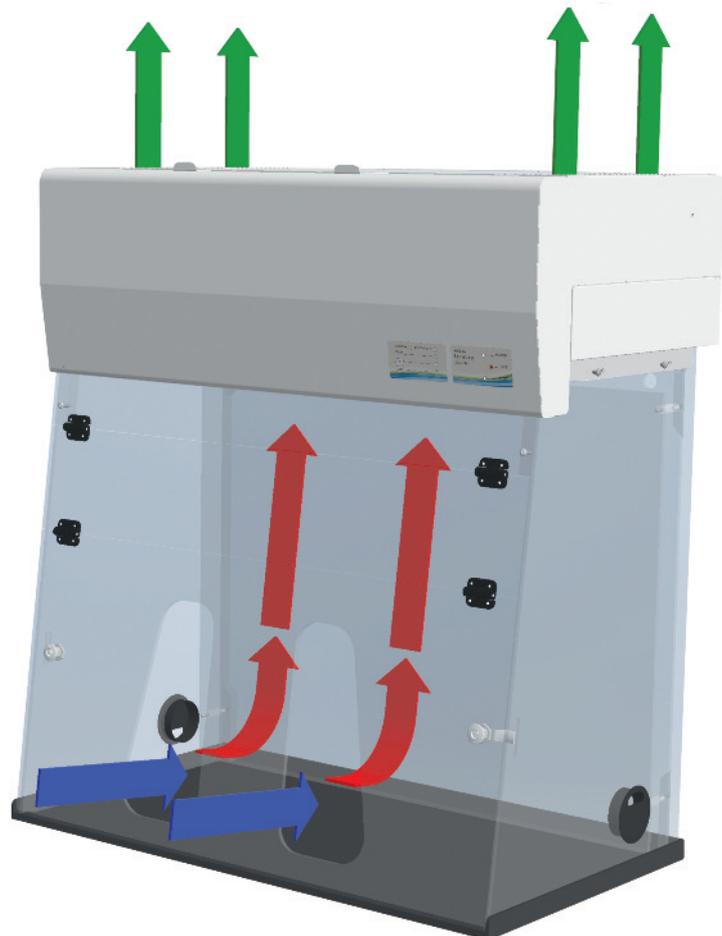
Chemcap Clearview Ductless Fume Cabinets & Hoods

From Model BC 4002
400mm wide

To Model BC 1506
1500mm wide

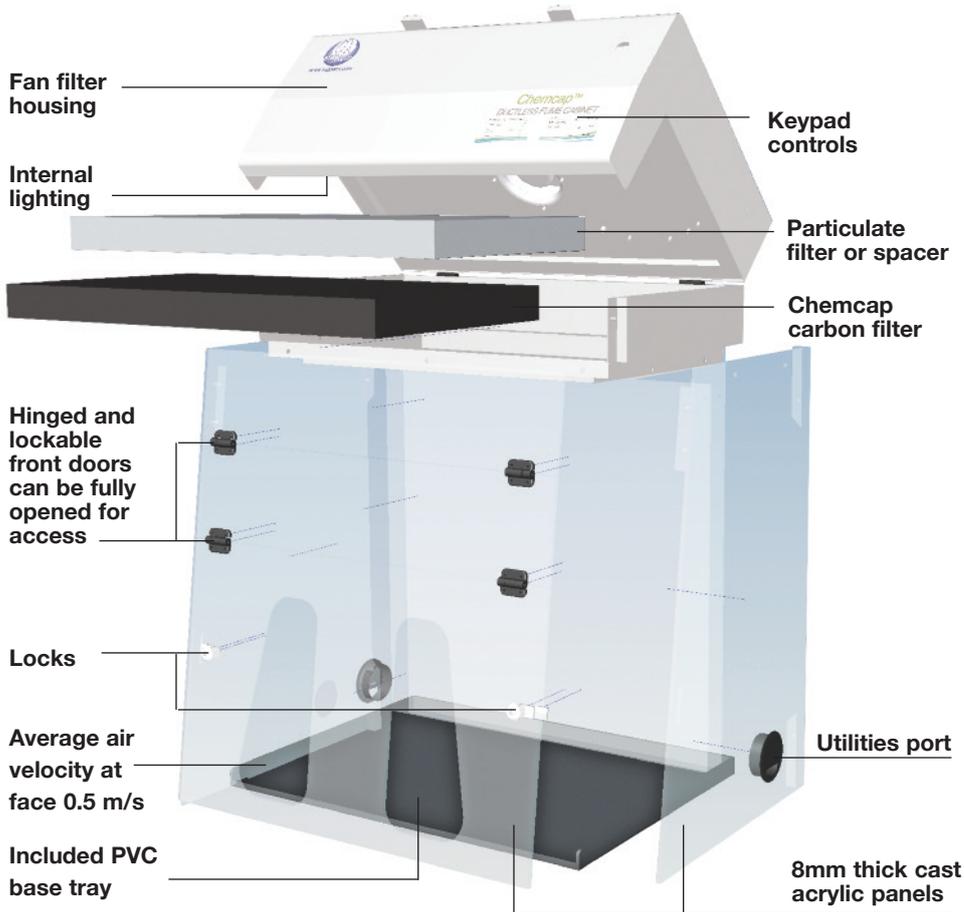


Airflows in a Clearview Cabinet



- Laboratory air enters the cabinet past the user
- Airborne contaminants drawn away and into the filter
- Clean air is returned to the laboratory

Chemcap Clearview™



Opening style 'teardrop'



Key Features

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

Optional extras

- B – Rear baffle
- FSA – Electronic filter saturation alarm
- FHP – Heat protection shield for filters
- SK – Services kit - see mobile bench for details
- ES – Top hat exhaust spigot
- STB – Stainless steel base tray upgrade

Description and Technical Information

Model	Description	Dimensions mm (external wxdxh)	Dimensions mm (internal wxdxh)	Access Style	Face Velocity	Fan System Rated	Average Power Consumption*	Sound Level dBA
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	52W	42W	<50
BC 6003		600 x 570 x 1145	570 x 520 x 810	Teardrop	0.5 m/s	52W	42W	<50
BC 8004		800 x 570 x 1145	770 x 520 x 810	Teardrop	0.5 m/s	52W	45W	<50
BC 1004		1000 x 570 x 1145	970 x 520 x 810	Teardrop	0.5 m/s	52W	48W	<50
BC 1204		1200 x 570 x 1145	1170 x 520 x 810	Teardrop	0.5 m/s	52W	52W	<50
BC 1206	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)	1200 x 570 x 1145	1170 x 520 x 810	Trapezium	0.5 m/s	104W	80W	<55
BC 1506		1500 x 570 x 1145	1470 x 520 x 810	Trapezium	0.5 m/s	104W	82W	<55

Cabinets available for power supply: 230VAC, 50Hz, 3Amp, 1Ø and 120VAC, 60Hz, 3Amp, 1Ø. Alternative front apertures can be requested or specially engineered for access to contained equipment such as a microscope.

- Power is shown with fan and lighting.

Standards for filtration and containment

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

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

ENERGY SAVING: The majority of the electricity consumed by a ductless fume cabinet is by 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 ductless 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.

Optional Bench



For your cabinet to be free-standing, select an open bench or cupboard unit either static or mobile.

A variable height bench with motorised adjustable legs, mobile or static, is available on request.



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).



Technical Information

Size mm	MT	MTC	MTA *	Dimensions mm (external wxdxh)
600	Bench, robust steel box section construction, epoxy coated, with foot rest bar. Available with levelling feet or lockable castors.	Bench, pressed mild steel, epoxy coated, with cupboard doors (magnetic catches). Available with levelling feet or lockable castors.	Bench, robust construction, epoxy coated, 4-leg frame, with motorized height adjustment. Available with levelling feet or lockable castors.	600 x 570 x 860
800				800 x 570 x 860
1000				1000 x 570 x 860
1200				1200 x 570 x 860
1500				1500 x 570 x 860

* Available for 1000 and 1200 mm cabinets {maximum combined weight of cabinet/hood and enclosed equipment cannot exceed 180kgs}



Bench 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.

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 with no deterioration in filter performance.

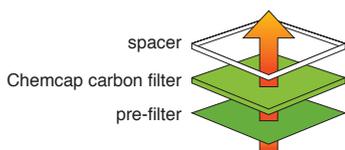


Particulate filtration for aerosols and particulates.

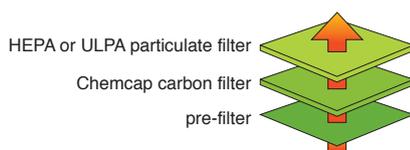
Pre-filters fulfil the need to arrest larger particles and are fitted to all Chemcap Clearview cabinets, HEPA filtration is fitted as an option when aerosols and small particles require removal. This can be upgraded to ULPA filtration when nanoparticle removal is required.

Two or three-stage filtration is used in a Chemcap Clearview cabinet

2-stage filtration



3-stage filtration



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.

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

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.



Filtration used in Chemcap Clearview cabinets

Pre-filtration; eliminates particles at $5.0\mu\text{m}$ or larger to an efficiency of 93% 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 $0.3\mu\text{m}$ or larger to an efficiency of 99.995%.

Filter system feature

A key feature of Bigneat's filter system is the negative pressure produced by the fan which is a necessity for filtration. Any by-pass of the filter system will cause the alarm to sound.

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.

Download an assessment form at www.bigneat.com/filtration

Chemcap Pro2

Pro2 cabinets operate exactly as Clearview however they have a back-up Chemcap filter. These cabinets are particularly suited for laboratories where uses change often such as in universities and for more toxic compounds where breakthrough into the laboratory would be hazardous.



When the lower primary filter reaches saturation and fumes breakthrough they will be retained by the upper back-up filter. An inter-filter saturation alarm monitors the primary filter status and alarms upon breakthrough. The cabinet can continue to be used while waiting for replacement filters.

Chemcap Pro2 has a safe-change pre-filter system and HEPA filtration is an option.

More about Bigneur

Bigneur has been designing, manufacturing and maintaining just about every conceivable style of clean air safety cabinet for more than 35 years. Bigneur 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, Bigneur 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

We can design and manufacture to your specification, any cabinet or hood whether you need to enclose laboratory automation or apparatus, we can also adapt any of our cabinets to suit your needs. Call us to discuss.

Worldwide Representation



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BIGNEAT CONTAINMENT TECHNOLOGY

Value. Service. Experience.

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Your Safety is Our Priority

Warranty

Bigneur provides 24 months Comprehensive warranty* on its products, extendable to 5 years when combined with Bigneur's Service Contract, or an equivalent from an approved partner.

*T&Cs apply, consumables not included.

Simple ordering process:

STEP 1

Choose cabinet size and which options you would like.

STEP 2

Decide on the filter optimisation you require and whether you need particulate filtration.

STEP 3

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

Quality Assured

Bigneur is accredited to BS EN ISO 9001



Bigneur systems are CE marked



Scan to watch a 30 second commercial of Bigneur's products.



www.bigneur.com