Monmouth Scientific

Operating & Maintenance Manual

Circulaire®
Powder Containment Cabinet 2.0

PCC900/PCC1200/PCC1500

monmouthscientific.co.uk

PCC V2

90/120/150 POWDER CONTAINMENT CABINET

INSTALLATION OPERATION AND MAINTENANCE MANUAL

Monmouth Scientific

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English Edition

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This manual is intended to provide information about the product. Monmouth Scientific assumes no liability whatsoever for the accuracy of any information contained herein, as products can be subject to improvement and/or changes at any time.

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WARNING

This cabinet must be used in compliance with these instructions and any repairs or maintenance carried out by qualified personnel. See explanation of hazard symbols at the end of this document.

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SECTION 1

Description of Unit

The PCC V2 is a specialized powder containment cabinet designed for precision balance scales and sensitive powder handling processes. Its low-velocity inward airflow safeguards operators while minimizing disturbance to fine powders. Engineered to eliminate fan-induced internal vibrations, the cabinet ensures uninterrupted performance of precision instruments.

Power efficiency is at the forefront, with a high-efficiency fan, energy-saving LED lighting, and an Eco mode for additional savings, ideal for sustainable lab operations.

Available in three widths, PCC V2-90 (923 mm), PCC V2-120 (1,223 mm), and PCC V2-150 (1,523 mm). Each unit includes a standard high-efficiency H14 HEPA filter with options for an additional H14 exhaust HEPA filter and/or carbon filters for odour control. Worktops are available in brushed stainless steel or dark grey ceramic.

Normal Environmental Conditions

INDOOR OR OUTDOOR USE	INDOOR USE
TEMPERATURE	5 °C to 40°C
RELATIVE HUMIDITY	MAX HUMIDITY 80%
OVERVOLTAGE CATEGORY	OVERVOLTAGE CATEGORY II
POLLUTION DEGREE (II)	POLLUTION CATEGORY II
ALTITUDE	UP TO 2000m
MAINS SUPPLY VOLTAGE FLUCTUATION	230V -6% +10%

Technical Data

	VARIANT		
	90	**120**	**150**
AIR INLET VELOCITY (+/- 0.02 m/s)	0.37 m/s	0.37 m/s	0.37 m/s
AIR VOLUME (mean)	346 m³/h	466 m³/h	586 m³/h
POWER REQUIREMENT	1~230V 50Hz	1~230V 50Hz	1~230V 50Hz
POWER CONSUMPTION	150 W (MAX)	200 W (MAX)	250 W (MAX)
WEIGHT, ASSEMBLED May vary depending on configuration	130 Kg (Approx)	174 Kg (Approx)	217 Kg (Approx)
NOISE LEVEL	TBC	49.5dB @ 1m	TBC
LIGHT INTENSITY	>1500 LUX	>1500 LUX	>1500 LUX
DIMENSIONS, WIDTH X DEPTH	923 X 832mm	1223 X 832mm	1523 X 832mm
DIMENSIONS, HEIGHT	SEE SECTION 2	SEE SECTION 2	SEE SECTION 2
MODEL No.	PCC V2 90	PCC V2 120	PCC V2 150

Test Certificates (unit specific)

	Document No.
AIRFLOW & PAT TEST CERTIFICATE	
DOP TEST CERTIFICATE	
SF6 TEST CERTIFICATE	
EN61010-1:2010 ELECTRICAL SAFETY STANDARD. EN61326-1:2013 CLASS A, EMC STANDARD TEST.	C20-5317 20-5317-2
RESERVED	-

Packaged Items

 PCC V2 unit	 Power Cable, C13, IEC country specific (Plug, 10A, 250 V)
 DOP, Airflow & Electrical Certificate	 PCC V2 User Manual

SECTION 2

Installation

WARNING

Heavy object. Ensure the correct lifting equipment and PPE is used during installation.

NOTICE

For best performance, the unit should be positioned away from human traffic, opening doorways and windows.

The PCC V2 unit must be mounted on a flat and level surface. The mounting surface must be at least as large as the PCC V2 footprint i.e. the unit must not overhang on any side.

Once installed Check that the worksurface is level left to right and front to back using a spirit level and adjust where necessary. See **Fig 2.1.1, Fig 2.1.2 & Fig 2.1.3** for installation dimensions.

Use the supplied mains cable to connect the unit to the power supply then switch the unit on using the mains switch located at the back of the unit, ref **Fig 2.1.1**.

CAUTION

Only the supplied mains cable must be used to connect the unit to the power supply. Damaged cables must be replaced.

Customer to Provide:-

- Electrical outlet socket, 1~230 V, min 5A.
- A stable mounting frame or table with adjustable leveling.
- At least 200mm clearance from the top of the unit to the ceiling is required, see **Fig 2.1.1**.
- If the unit is used in a ducted configuration a Ø200mm flexible duct must be provided to connect to the top of the unit, ref **Fig 2.1.2**.

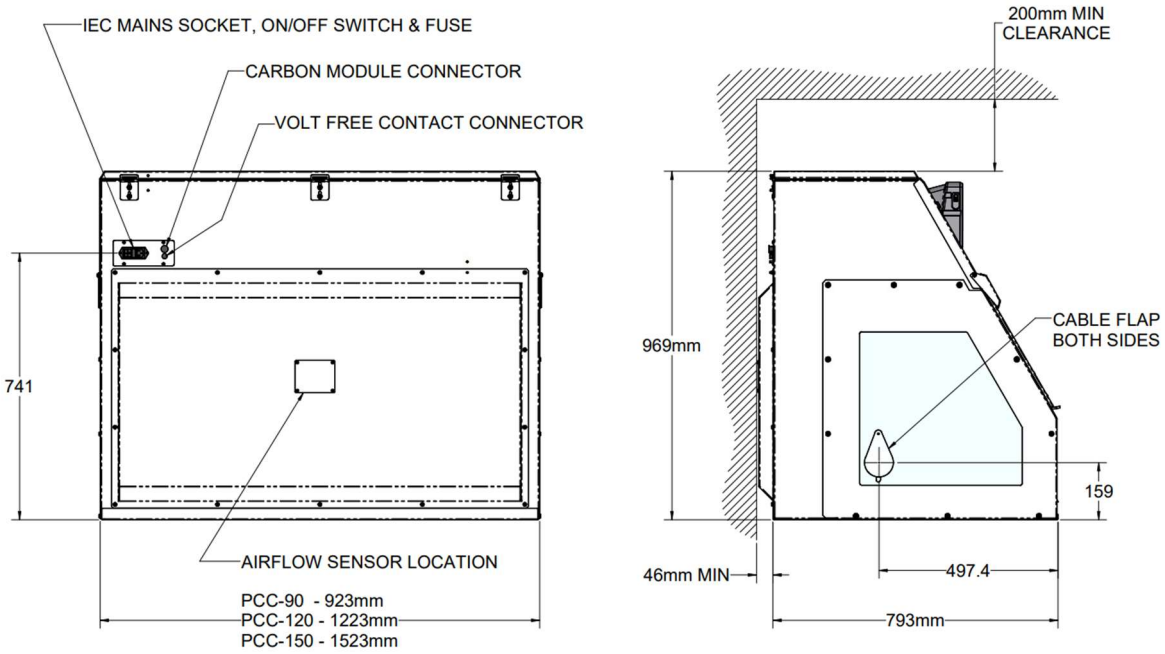


Fig 2.1.1

Installation Dimensions, Recirculated Option

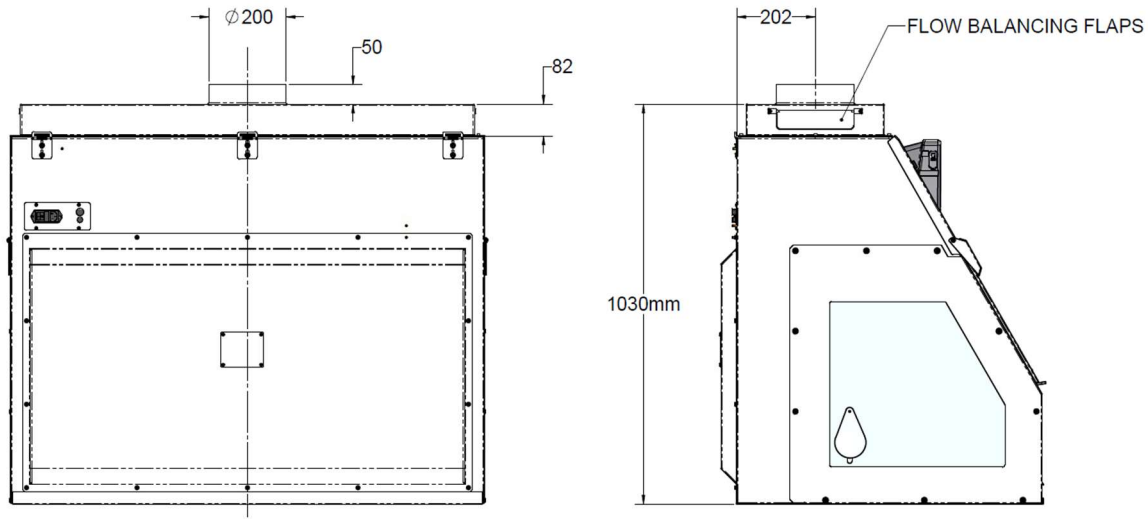


Fig 2.1.2

Dimensions, Ducted Option

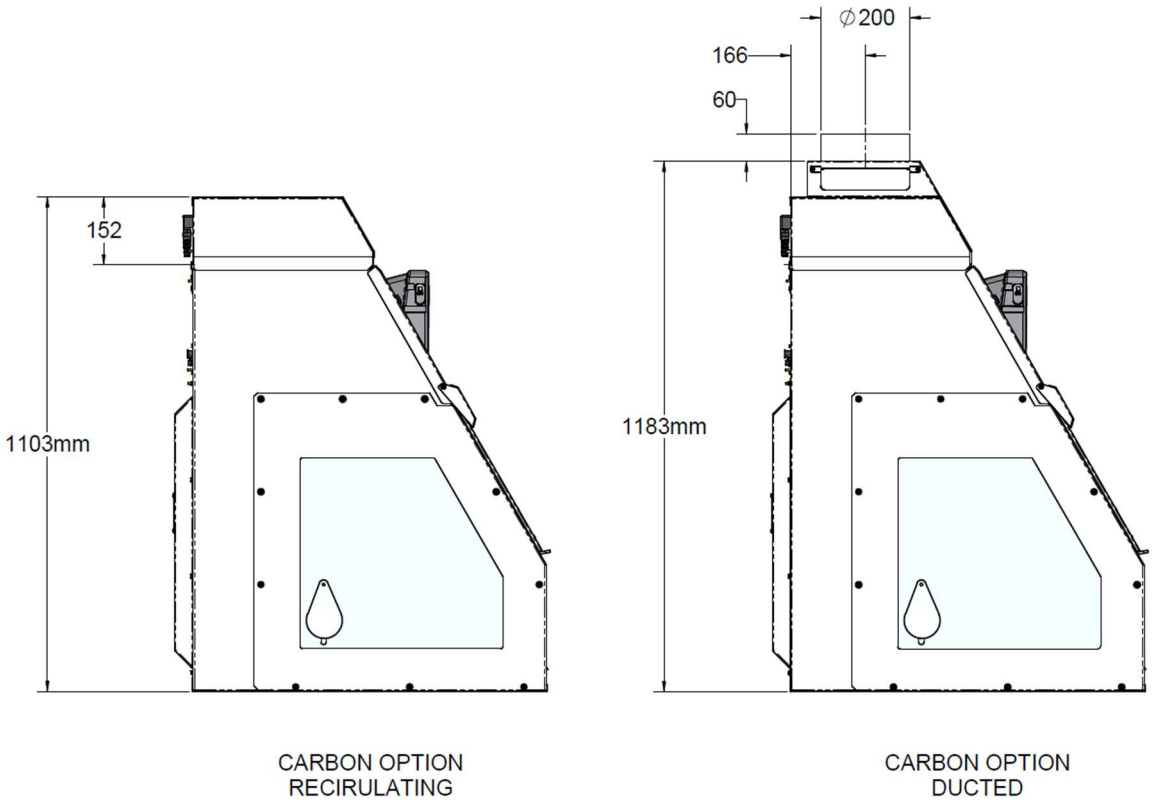


Fig 2.1.3

Dimensions, With Carbon Filter Module fitted

Testing / Commissioning

A test certificate will be supplied for conformity to CE marking, and electrical test. The Hepa filter/s are tested in the factory, and a DOP test certificate will be supplied.

Once the unit has been installed in its final position, turn the unit on and wait for the status LED to turn green. If the unit is connected to an exhaust duct, ensure all ductwork is connected. Check the air velocity at the working aperture at 6 positions as shown in **Fig 2.2**. The velocity must be an average of between 0.35m/s and 0.4 m/s.

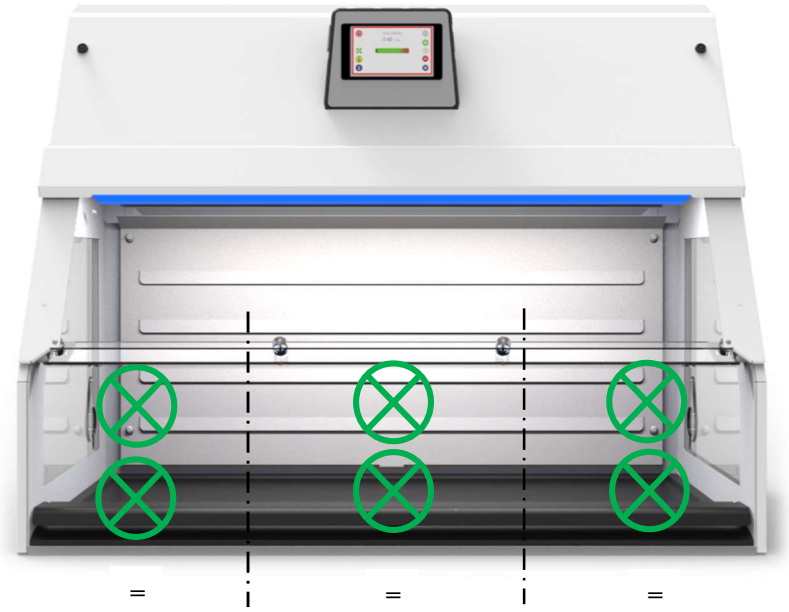


Fig 2.2

Inlet Airflow Measurements

SECTION 3

General Operation

	**CAUTION** • The PCC V2 unit is not equipped with any fire arrest or fire detection systems so care should be taken when working with flammable substances within the cabinet. • The unit must only be used for the intended purpose. MONMOUTH SCIENTIFIC is not responsible for injury or damage to equipment caused by incorrect use.

The only means of switching the unit on is via the mains power switch located at the back of the unit, ref **Fig 4.1.** The PCC V2 is designed to run continuously and will automatically enter into economy (ECO) mode when an operator is not present.

	NOTICE
	The unit can be turned off at any time using the main power switch without causing any harm to the unit.

Once turned on the unit will take about 25 seconds to boot to the main screen and a further 14 seconds for the fan to reach operational speed. At this point the status lights will turn **GREEN** indicating 'normal' operating condition. There are 3 operational conditions which have different colours these are:

GREEN	Indicates normal running mode.
BLUE	Indicates ECO mode (main light turns off).
RED	Indicates low flow.
Light off	Standby mode / unit off.

If no carbon filters are fitted the unit will boot straight into the home screen. If the carbon filter option has been selected in setup but NO carbon filters are installed a 'No Filter Data Detected' screen will appear.

When carbon filters are fitted you will be presented with a screen asking you to confirm the suitability of the carbon type. If the carbon type is correct press YES to enter the home screen. If the carbon type is incorrect press NO and report it to MONMOUTH SCIENTIFIC.

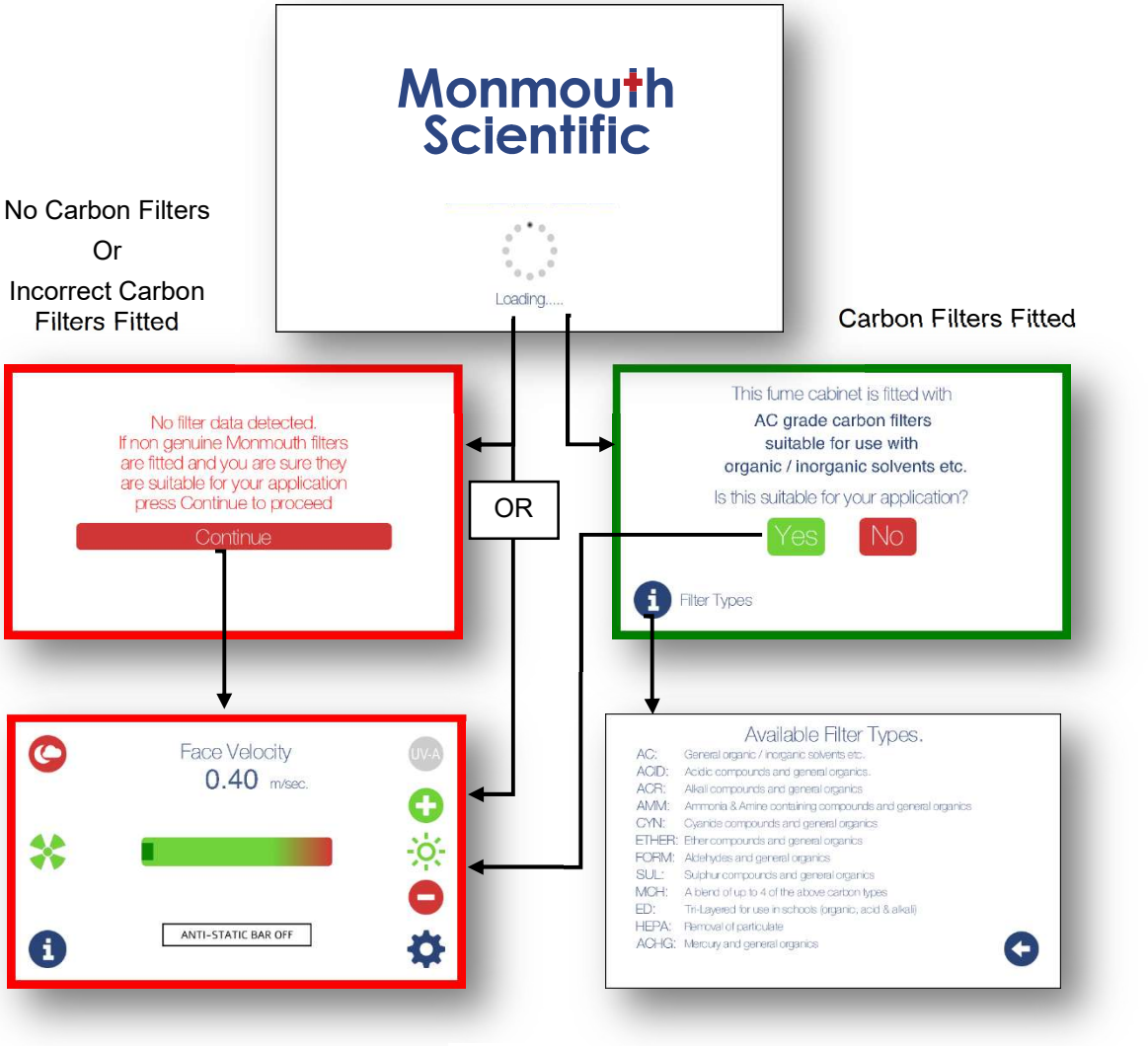


Fig 3.1

Start-up screens

	NOTICE
	All screen images in Fig 3.1, 3.2, 3.3, 3.4 and 3.5 may change without notice due to software updates. The manual is only meant as a guide, always follow the instructions on-screen.

Control Panel

Home Screen

Once the machine has started and you have gone through the process in the previous section you will be presented with the home screen shown below. The Anti-static bar and UV-A light are options so may not appear on your unit. The carbon saturation level will also not appear if no carbon filters are fitted

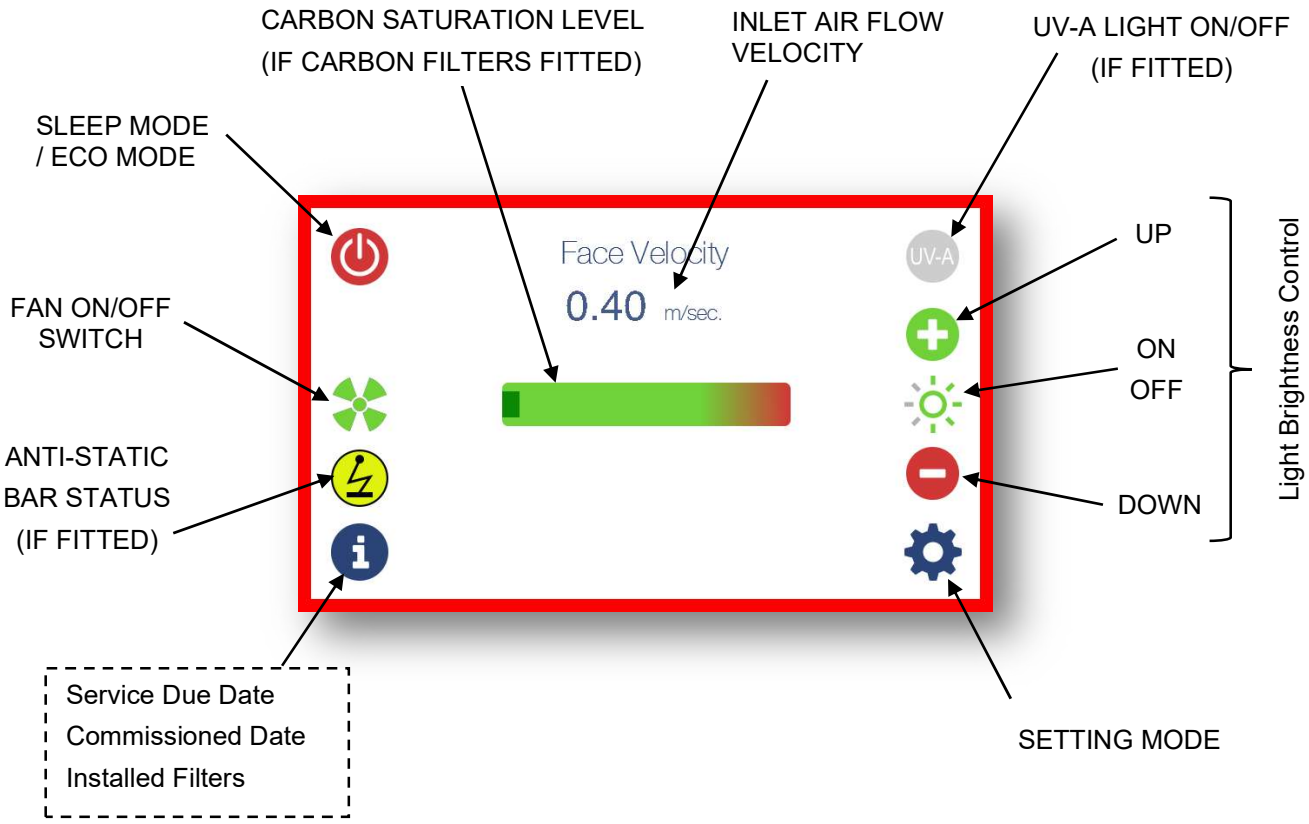


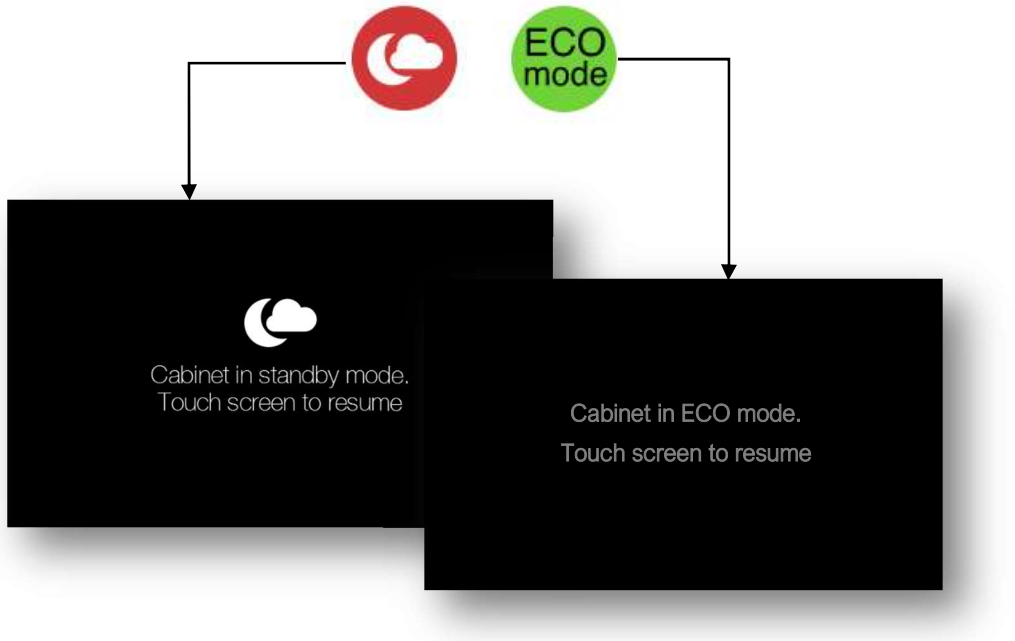
Fig 3.2

Home Screen

Power Button (Sleep & ECO modes)

When the power button is pressed you will be presented with 2 new buttons, Sleep and ECO (Note; If the ECO button is not present it will need to be turned on in the Supervisor Setting menu). Pressing the sleep button will turn off the fan and lights. To turn the unit back on press the touch screen. It will take approximately 20 seconds for the fan to stabilize and the unit to be fully operational.

Pressing the ECO button will turn the lights off and reduce the fan speed. You can wake the PCC V2 almost instantly from ECO mode by touching the screen.



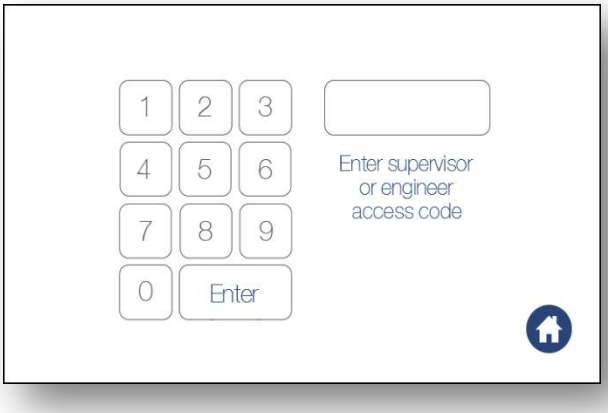
The PCC V2 will automatically enter into ECO mode if no movement is detected within the cabinet after a set amount of time (adjustable within the Supervisors Settings menu). This function can also be turned off.

	CAUTION
	In ECO mode the PCC V2 operates at a lower inlet velocity which may affect containment in certain conditions (air movement from doors, windows, human traffic etc). If the PCC V2 is used unattended, for instance in automated processes, the ECO mode should be disabled.

The PCC V2 uses very little energy in sleep mode so it is not necessary to turn the unit off at the mains switch unless the unit will not be used for several days.

Settings Mode

To enter the settings access keyboard below press the gear icon from the HOME screen. Enter the relevant access code (Supervisor, Production or Service) and press enter. Default codes shown below.



Supervisor Settings Code

4916

Production Setup Code

3176 RESTRICTED

Service Settings Code

1968 RESTRICTED

NOTICE

To prevent accidental adjustment of the unit parameters the ‘Production Setup’ and ‘Service Settings’ codes should only be shared with Service Engineers. In most cases the operator should not need to access any of the settings modes during normal operation.

Supervisor Settings:

Refer **Fig 3.3**

The Supervisor Settings allow adjustment and access to some basic functions and the following sub menus:-

- **Set Time**: Sets the current date and time. Press Enter to save
- **Set Language**: Select different language.
- **Change Access Code**: Changes supervisor code only. Enter new code and press enter to save.

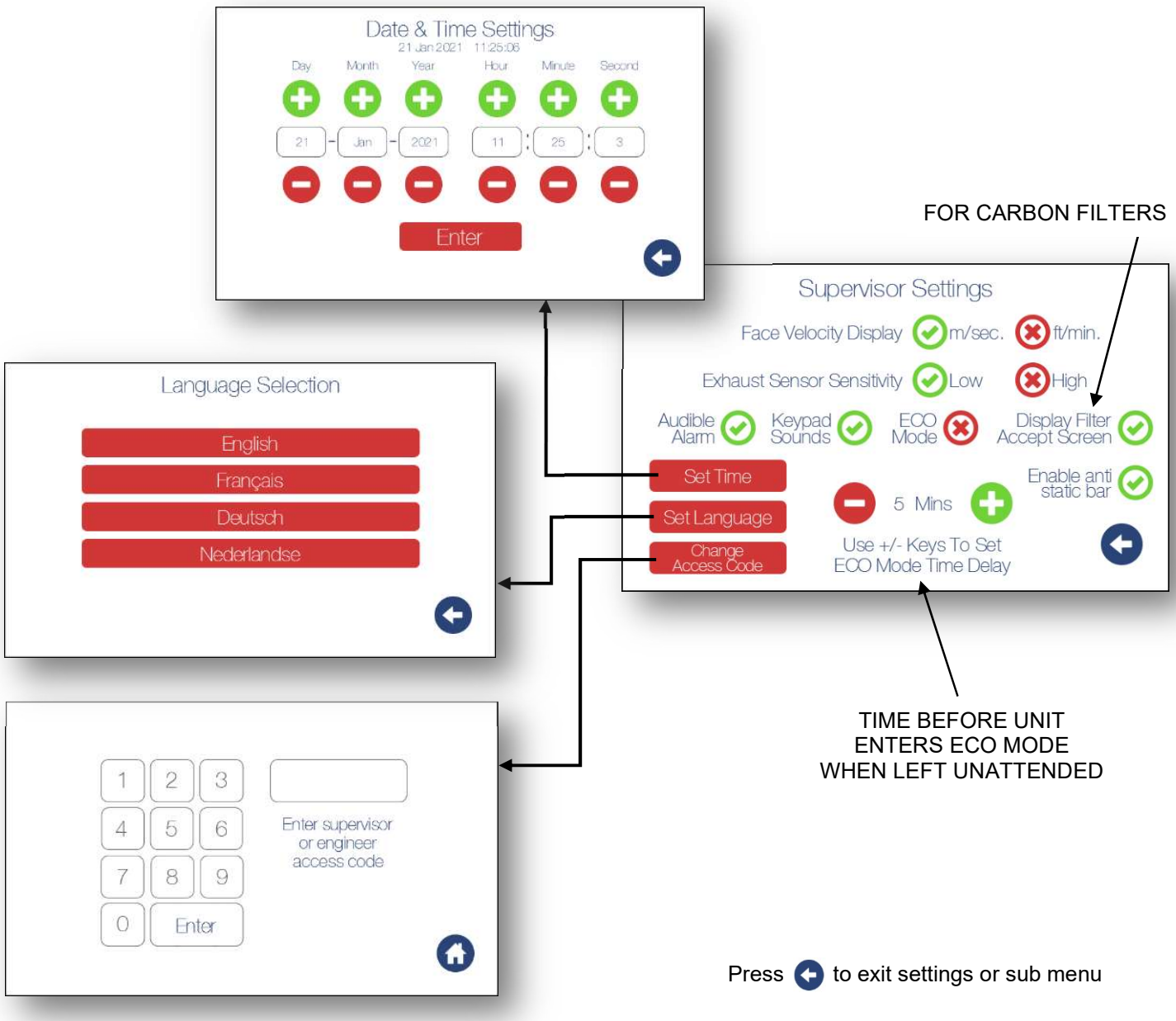


Fig 3.3

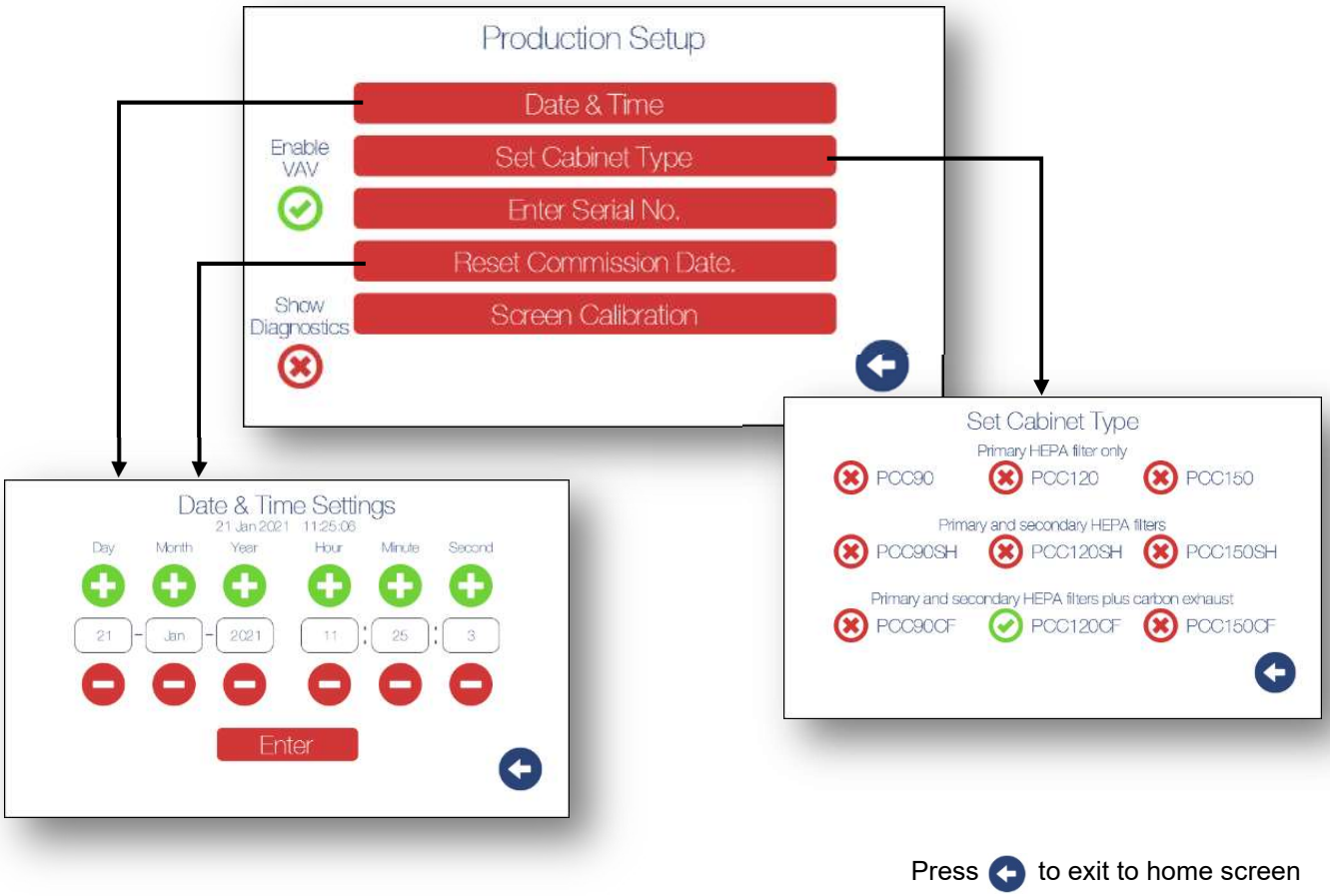
Supervisor Settings

Refer **Fig 3.4**

Production Setup:

The Production Setup contains unit and customer specific information.

- **Date and time**: *Set current date and time using '+' and '-' buttons to change values. Press ENTER when complete.*
- **Set Cabinet Type**: *Select the correct unit type and filters installed.*
- **Enter Serial Number**: *Select button to pull up keyboard. Enter serial number and press enter to save or cancel to ignore.*
- **Reset Commission Date**: *Reset date and time of commission using '+' and '-' buttons to change values. Press ENTER when complete.*
- **Screen Calibration:** *Selecting this will bring up a blank screen with a cross hair in the top left hand corner. Use a stylus and press and hold in the centre of the cross hair until the cross hair moves to the next position. Repeat for all corners.*



Press ← to exit to home screen

Fig 3.4

Production Setup

Service Settings:

Refer **Fig 3.5**

- **Calibration**: For service engineer use only.
  - **Airflow Sensor Calibration.** *This function calibrates the airflow sensor with reference to a set inflow velocity.*
  - **Set Airflow Target.** *This sets the inlet velocity during normal operation. If in doubt set flow to 0.4 m/sec*
  - **Airflow Alarm Setpoint.** *Sets alarm for the 'normal' operating inlet velocity. ECO mode will over-ride this.*
  - **Screen Calibration.** *Selecting this will bring up a blank screen with a cross hair in the top left hand corner. Use a stylus and press and hold in the centre of the cross hair until the cross hair moves to the next position. Repeat for all corners.*
  - **ECO Airflow Target.** *When unit enters into ECO mode or when ECO mode is manually selected this will adjust the reduced fan speed.*
  - **Gas Sensor Calibration.** *This option only appears when carbon filters are fitted. When installing new carbon filter the saturation level bar graph must be re-set to the minimum value.*
- **Log Service Visit**: For service engineers use only. Set values and press enter to save.
- **View Filter Data:** This displays the installed filters and filter types. This relies on the correct cabinet being selecting in Production Setup > Set Cabinet Type.

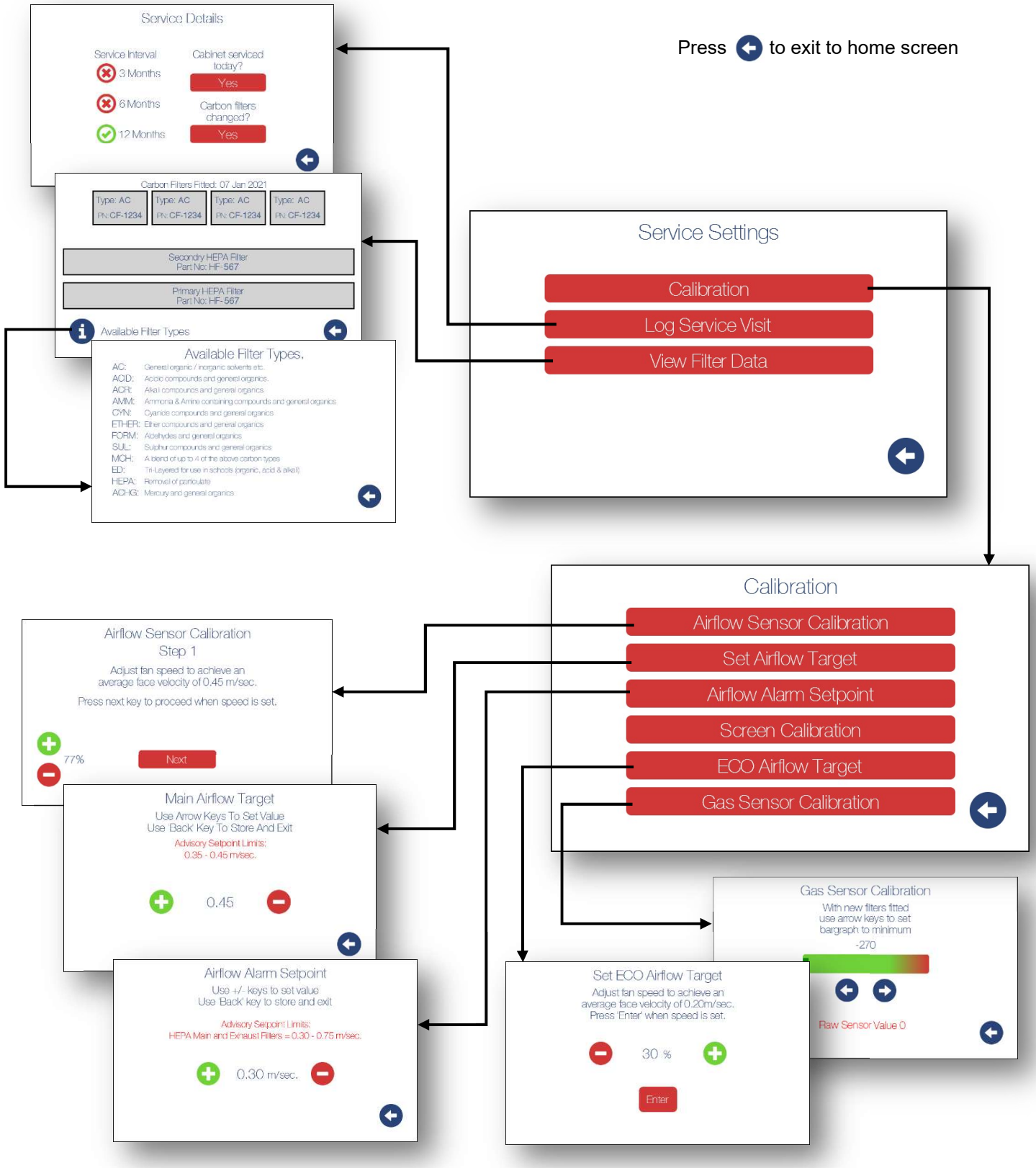


Fig 3.5

Service Settings

Accessing Work Area

To open the sash, place both hands under the air deflector and slowly lift until the sash comes to a stop then lower it slightly until the sash automatically locks into-position. If you are using one hand, lift in the centre of the air deflector. To release the sash gently lift the sash up to the stop then lower it (the sash will automatically unlatch). See **Fig 3.6**.

	**CAUTION** Never force the sash up or lean on the sash in the UP position as this could damage the mechanism. Keep hands clear of sash stays during operation

	**NOTICE** During normal use the front sash MUST be closed to ensure adequate containment.

Fig 3.6
Work Area Access

SECTION 4

Maintenance

To ensure reliable containment and optimum performance the PCC V2 must be maintained in accordance with the service intervals detailed in section 6. Filters may also need replacing if LOW AIRFLOW shows on the HOME screen.

	NOTICE
	Only trained and authorised specialists are permitted to connect, setup, service or repair the system/device in accordance with the rules for electrical safety.

	WARNING
	The cabinet must be isolated from the mains electricity supply before carrying out any maintenance procedures.

Fuses

The PCC V2 unit is fitted with 2 mains fuses at the back of the unit. The fuses are located inside the IEC connector housing see **Fig 4.1**. To remove the fuse cover, unplug the mains lead from the unit and lever the lifting tab up using a small flat screwdriver. Replace with 2 x type T, 5 x 20mm, 3A fuses.

	NOTICE
	If a fuse is blown ensure the unit is checked thoroughly to identify any faults with the electrical components or connected circuitry.

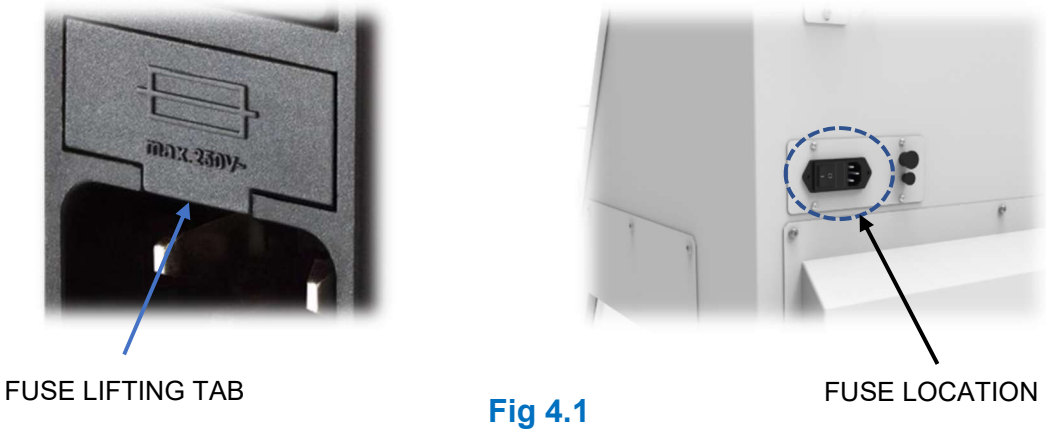


Fig 4.1
Main Fuse Location

If an anti-static bar is fitted the circuit will be protected by an additional fuse. This fuse is located behind the front cover on the left-hand side din rail as shown in **Fig 4.2**. Replace with type T, 5 x 20mm, 1A fuse.

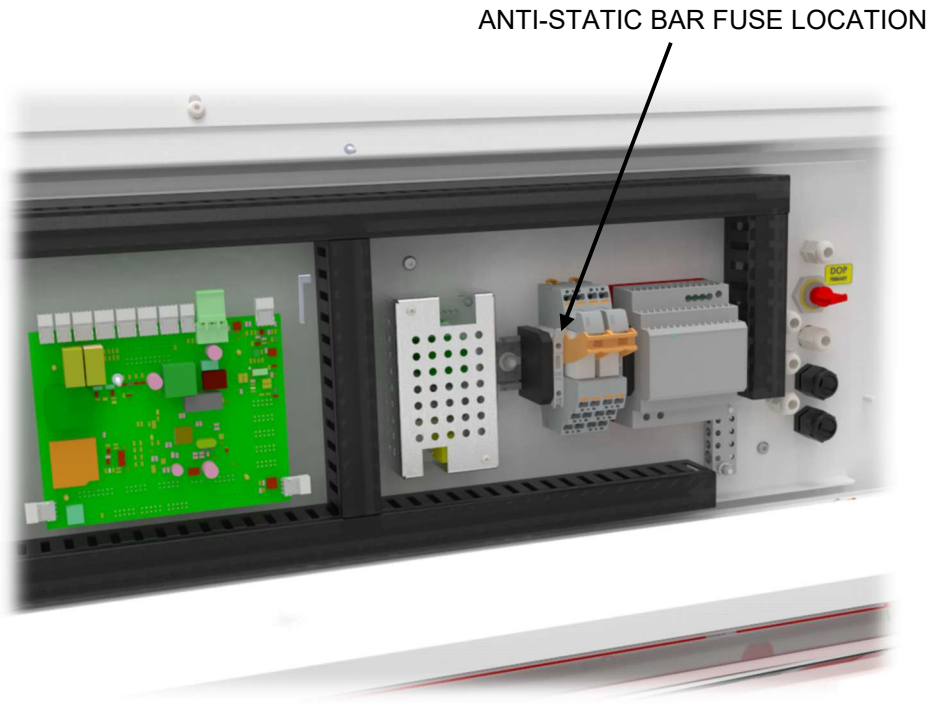


Fig 4.2
Antistatic Bar Fuse Location.

Primary HEPA Filter Replacement

CAUTION

Personal protective equipment must be worn when changing filters as dust may inadvertently be released.

All variants of the PCC V2 unit are fitted with a vertically mounted H14 HEPA filter. The size of the filter will vary according to the specific model, ref to the *Filter Selection Table*, **Fig 4.6** for filter part numbers.

NOTICE

If a secondary 'Safe Change' HEPA is fitted the following procedure can be carried out with the unit ON and the fan running. This will ensure that any loose particles are contained within the unit and trapped by the 'Safe Change' filter.

Follow the steps below to remove and replace the main filter:-

1. Lift the front 'sash' and lock into-place.
2. Remove the *Air Diffuser* panel by lifting the panel up and towards you. The panel is heavy and may require a bit of force to free it from its fixing pegs. Take care not to damage the side and front glazing whilst removing it, ref **Fig 4.3**.
3. Remove all the counter sunk screws around the *Filter Clamp Ring* then remove the *Filter Clamp Ring.*
4. The HEPA filter bag is attached to the HEPA filter frame and tucked in around the outside of the filter. Gently pull the *Polythene Filter Bag* out all around the filter to make a 'tunnel' in front of the HEPA filter.
5. Fold the sides of the polythene into the centre on both sides, then fold the bottom up and lastly fold the top down. The top piece of polythene has a strip of double-sided tape attached to it. Peel off the release liner and stick the polythene flap to the bottom polythene flap. Once done the air inlet will be totally restricted so the filter should be removed immediately.
6. Seal the filter in a suitable bag and dispose of in accordance with local regulations.

Primary HEPA Replacement:

7. Make sure the unit is OFF.
8. Unpack the new HEPA filter leaving the folded polythene intact.
9. Insert the filter into the filter aperture with the polythene covered side facing you. Note the ‘this side up label’.
10. Remove the tape from the centre of the filter holding the polythene folds together, DO NOT REMOVE THE TAPE FROM AROUND THE FILTER FRAME.
11. Carefully tuck the polythene into the aperture around the filter. Take care not to damage the polythene sheet. NOTE: the polythene only needs to stay in-place whilst the clamping ring is being bolted on.
12. Replace the *Filter Clamping Ring*.
13. Replace the Air Diffuser.

Primary HEPA Filter Replacement Part No: *Ref 'Filter Selection Table' Fig 4.6 item 4*

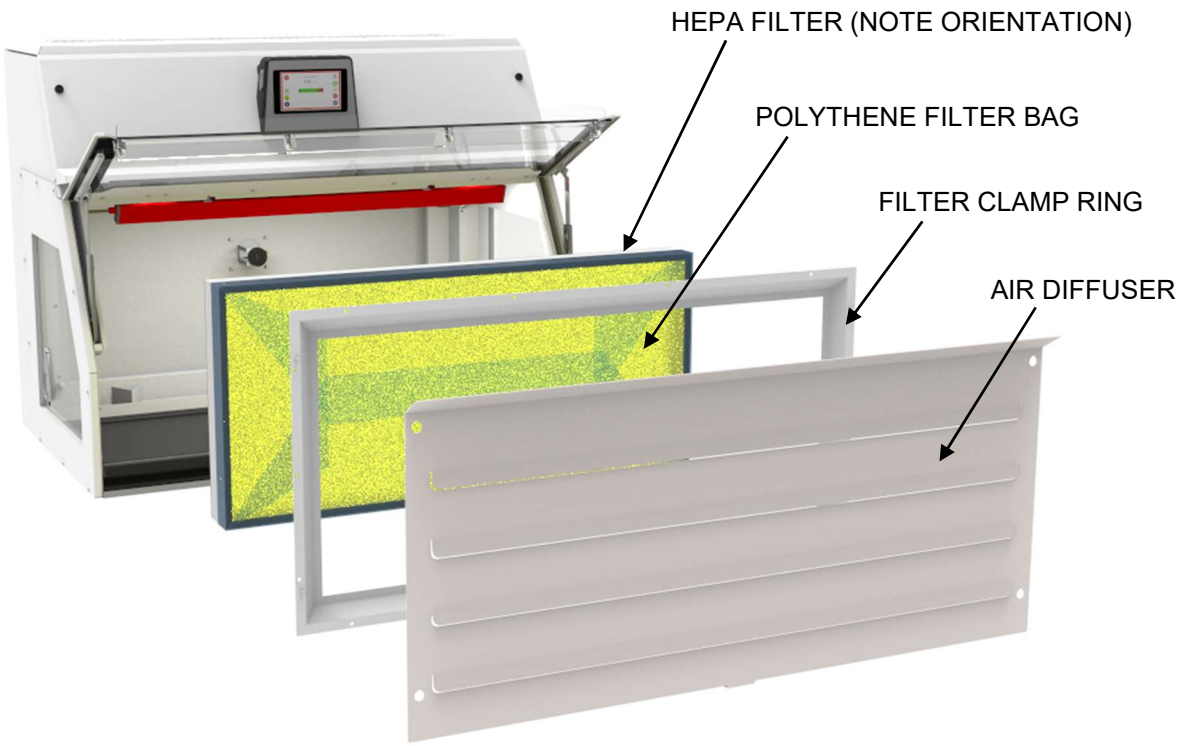


Fig 4.3

Main HEPA Filter Removal.

Secondary HEPA Filter Replacement (if fitted)

CAUTION

Personal protective equipment must be worn when changing filters as dust may inadvertently be released.

Secondary HEPA Filter Removal and Replacement:

*Refer to **Fig 4.4** for reference.*

- Turn the unit off using the switch at the back of the unit or unplug at the mains socket.
- Use an Allen key to turn the compression latches on the electrical cover, then swing the cover down.
- If a carbon module is fitted it must be removed to allow access to the HEPA filter, ref ***Fig 4.5***. Remove the carbon module cover and remove all the carbon filters. Unplug the carbon module from the rear of the PCC V2 unit, then unscrew the 3 bolts on the front flange of the carbon module. Pull the carbon module up and forward to release it from the rear retaining brackets.
- If no carbon filters are fitted, remove either the ducted hood (and any flexible ducting) or the filter cover to access the secondary HEPA filter.
- Remove the Filter Clamp from the top of the HEPA filter.
- Use the returns around the filter to lift the filter up and out of the unit.
- Dispose of the filter in accordance with local regulations.

Secondary HEPA Replacement

- Insert the HEPA filter with the deeper flange facing upwards. Use the returns of the filter flange to hold the filter. Take care not to damage the face of the filter during installation as the filter media is fragile.
- Ensure the HEPA filter seal and the cabinet seal is intact (replace if necessary). Lightly bolt down the clamp then using a circular fastening pattern slowly start tightening the bolts on each pass until the filter seal is evenly compressed.
- Place either the filter cover, ducted hood or carbon filter box into-place and replace the fixing bolts.
- For units fitted with a carbon module plug the module into the back of the PCC V2 unit.

Secondary HEPA Filter Replacement Part No: *Ref 'Filter Selection Table' Fig 4.6, item 5*

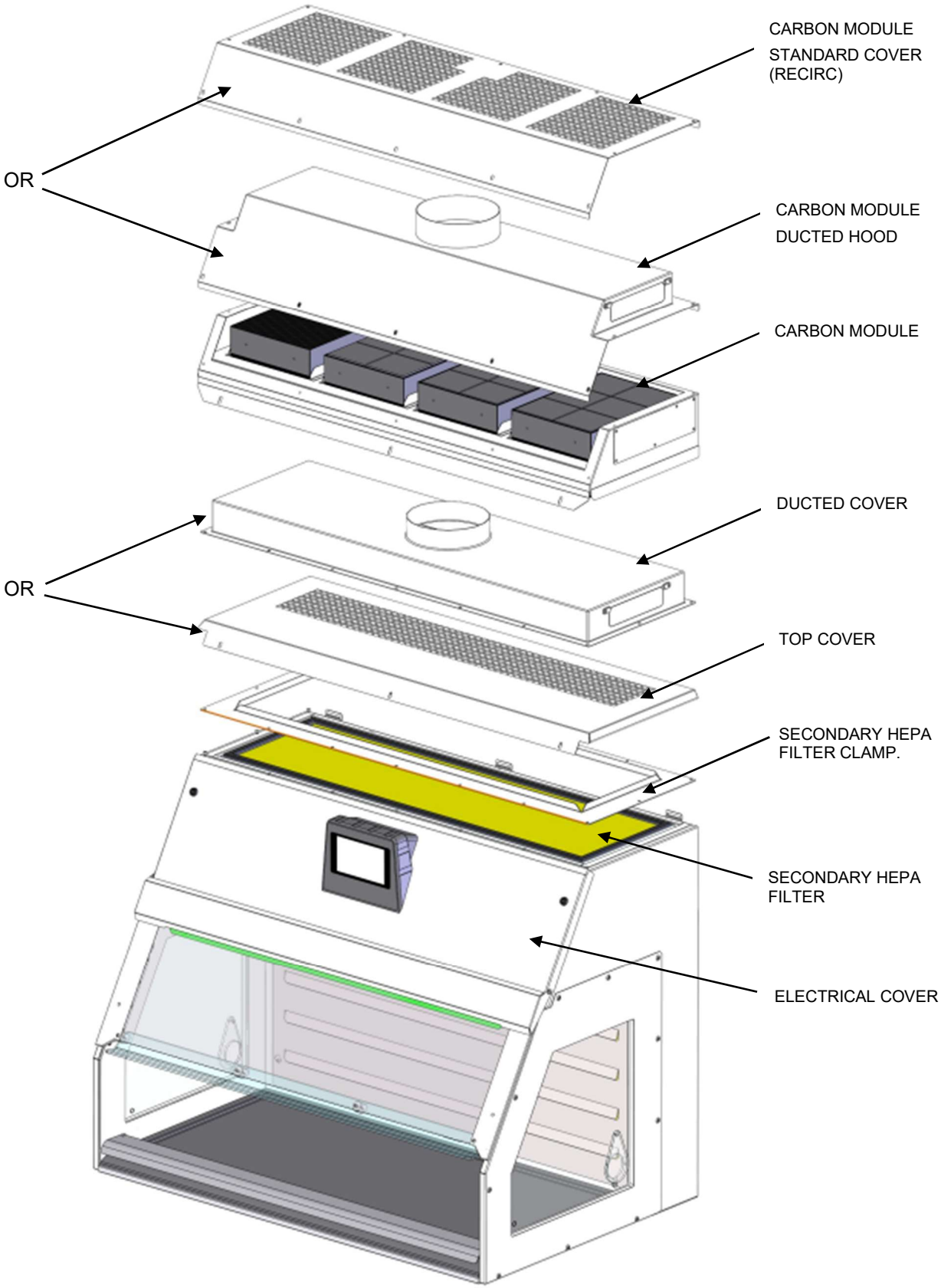


Fig 4.4

Secondary HEPA Filter Removal.

Carbon Filter Changing (if fitted)

	**CAUTION** Personal protective equipment must be worn when changing filters as dust may inadvertently be released.

Carbon Filter Removal and Replacement:

*Refer to **Fig 4.5** for reference.*

1. Turn the unit off using the switch at the back of the unit or unplug at the mains socket.
2. Remove the filter cover.
3. Disconnect the filter tag cable and slowly pull the carbon filter out using the handle. Repeat for all carbon filters.
4. Dispose of carbon filters in accordance with local regulations.

Carbon Filter Replacement

5. Slide the new carbon filter into-place until it drops into position then re-connect the filter tag cable. Repeat for all carbon filters.
6. Replace carbon filter cover.

Carbon Filter Replacement Part Number: *Ref 'Filter Selection Table' item Fig 4.6*

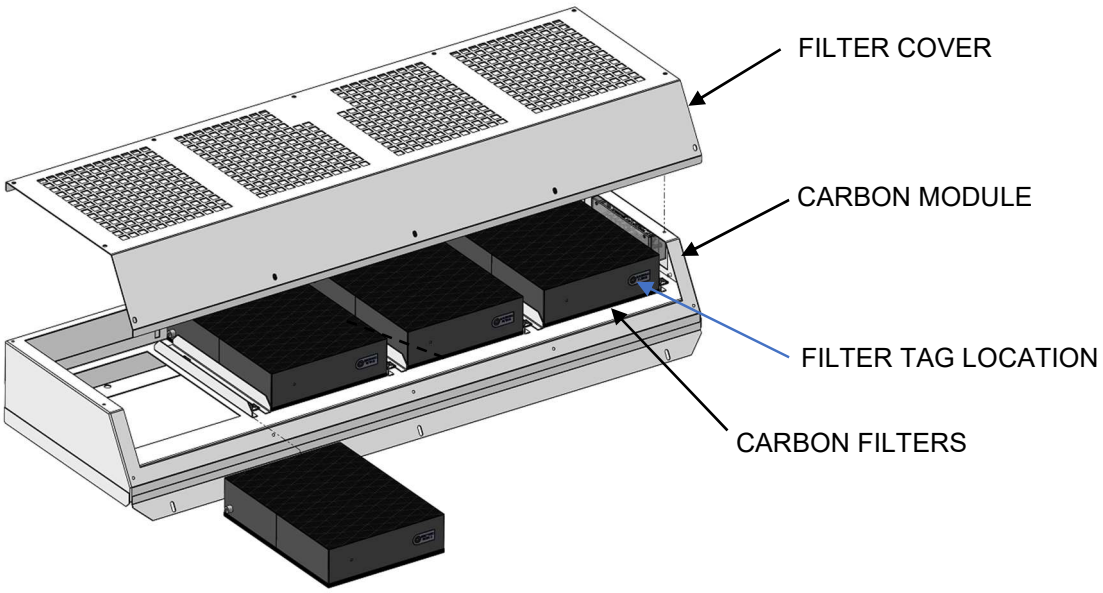


Fig 4.5

Carbon Filter Removal.

Filter Selection Table:

ITEM	FILTER TYPE		PCC V2-90	PCC V2-120	PCC V2-150
1	CARBON FILTER	AC	*3-off* **K-CF0604**	*4-off* **K-CF0604**	*5-off* **K-CF0604**
2		FORM	*3-off* **K-CF0655**	*4-off* **K-CF0655**	*5-off* **K-CF0655**
3		ACID	*3-off* **K-CF0654**	*4-off* **K-CF0654**	*5-off* **K-CF0654**
4	MAIN HEPA		*1-off* **K-HF0429**	*1-off* **K-HF0428**	*1-off* **K-HF0430**
5	SECONDARY HEPA		*1-off* **K-HF0411**	*1-off* **K-HF0409**	*1-off* **K-HF0432**
6	MAIN HEPA U15		*1-off* **K-HF0463-A**	*1-off* **K-HF0464-A**	*1-off* **K-HF0465-A**
7	SECONDARY HEPA U15		*1-off* **K-HF0466**	*1-off* **K-HF0467**	*1-off* **K-HF0468**

Fig 4.6

Filter Selection Table

Cleaning

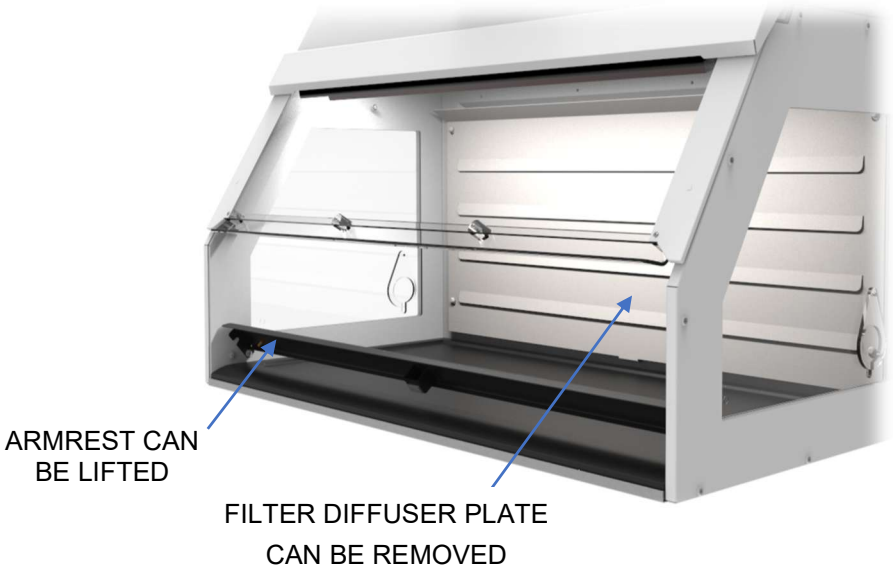
The powder coated surfaces of the PCC V2 should be kept clean to preserve the finish by preventing stains. Only soapy water or mild detergents should be used on powder coated surfaces, abrasive products and harsh chemical cleaners should be avoided.

The glass or acrylic side glazing and sash must only be cleaned with soapy water. Abrasive products and harsh chemical cleaners must be avoided. Use microfibre clothes to avoid scratching the surfaces.

All versions of the work surface have some degree of chemical and scratch resistance. However, care must be taken when selecting cleaning products to avoid damaging the surface. Avoid abrasive products and harsh chemical cleaners. Always check the compatibility of the cleaning chemicals against the surface to be cleaned.

Deep cleaning and special precautions:

- Life the armrest to provide better access for cleaning.
- For deep cleaning, the filter diffuser plate can be removed completely. However, it is heavy and difficult to remove so this is best done by a service engineer.
- When opening the sash for cleaning **always support it by hand**. Do not rely on the stays.
- If an anti-static bar is fitted:
    - Isolate the PCC V2 from mains power before attempting any cleaning.
    - Use a non-conductive brush to gently remove dust and debris.
    - For deep cleaning, sparingly apply isopropyl alcohol to the brush or a microfiber cloth.



SECTION 5

Servicing 

An annual service is recommended to maintain optimum operating conditions and will include the following points: -

- Test unit for full functionality
- DOP test Hepa filter/s.
- Check filter inlet air flows.
- Check general condition of cabinet - fasteners, seals, corrosion etc.
- Inspect electrical components.
- Issue test report and airflow certificate.
- Install software updates if available.
- Note any feedback from customer.

SECTION 6

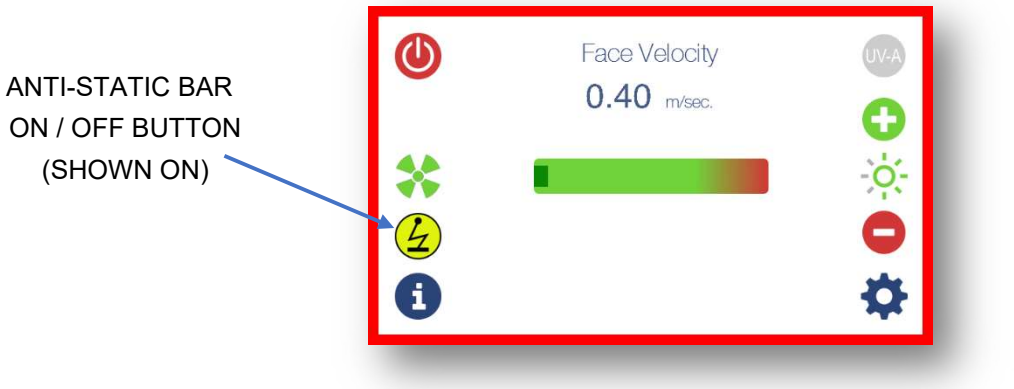
Optional Features

The following items are optional and as such may not be fitted to your PCC V2 unit.

Anti-Static Bar

	**CAUTION** Avoid touching the Anti-Static bar located by the main light. Although the bar is completely touch safe it may give you a small electrical shock when touched.

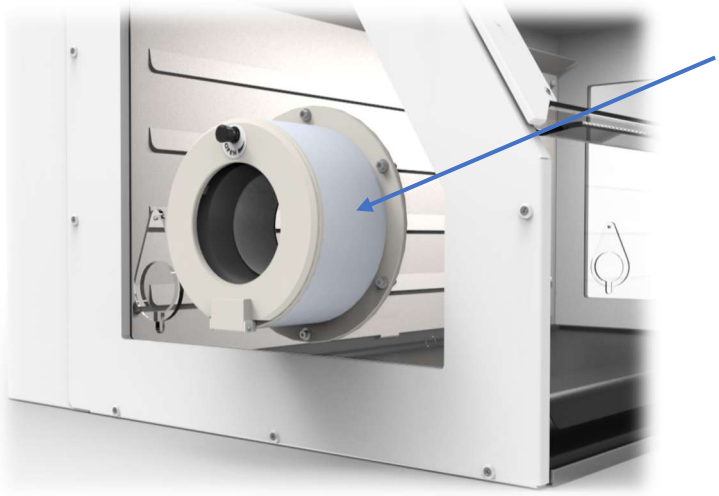
If an Anti-Static bar is fitted you will see a yellow button on the LCD display. If this button is absent no anti-static bar is fitted, or the anti-static bar has not been activated in supervisor settings. This button turns the anti-static bar on and off, it should be off by default.



The Anti-Static bar is located at the top of the working area. You should avoid touching the bar whilst the system is active as it may give you a small (yet harmless) shock.

Endless Bag Feeder

The endless bag feeder (if fitted) allows for the disposal of contaminated waste without removing it from the cabinet. The system uses a transparent plastic HD-FE film bagging tube which is feed through the bagging system.



ENDLESS BAGGING SYSTEM
Can be fitted to either the left- or right-hand side of the unit or both sides.

See below for instructions on loading & using the bagging cartridges. Replacement cartridges are available from Monmouth

Part No. PP-05993

	**CAUTION** Do not dispose of sharp or pointed objects into the bag feeder unit. Make sure the bagging system is suitable for the waste being disposed of.

	**WARNING** Do not use the disposal system in a potentially explosive environment. The friction of the film bag may lead to static discharge.

1. **Open the Endless Bag unit by turning the black locking knob anticlockwise until the door is free to open.**

---

2. **Using the red tab on the cartridge Pull the film tube out by about 10cm.**
3. **Now feed the film tube inwards through the hole in the cartridge.**
4. **Insert the cartridge, with the opening facing the feeder system.**

---

5. **Close the bag feeder door fully then lock the door by turning the black locking knob clockwise until lightly tight. DO NOT OVER-TIGHTEN.**

---

6. **Check the door is closed by gently**
7. **Pulling on locking knob.**

8. **Pull the bag through the feeder until about 25 cm of the bag is showing. Close the end of the bag using a knot or a cable tie.**

---

9. **Place contaminated waste, from Inside of the unit, through the tube in the feeder unit and into the film bag.**

---

10. **Gently pull the film tube out of the Feeder horizontally (do not pull downwards).**

---

11. **Seal the film tube between the waste and the cartridge using a knot or a cable tie. The contaminated waste is now sealed in the film tube.**

12. **Add a second knot or cable tie between the waste and the feeder unit to seal the tube for the next disposal process.**

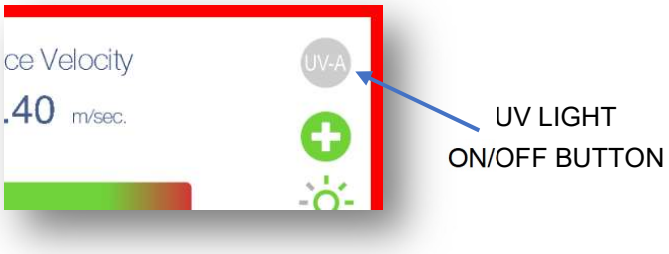
---

13. ***Cut the film tube between the knots to Remove the bagged waste.***

UV (black) light

The UV-A light (if fitted) is used to illuminate white powder particles to aid in the cleaning process.

If a UV light is fitted to your PCC V2 you will see a grey UV-A light button on the top right hand side of the LCD display. Activating the UV light will turn on the UV-A light and turn off the main LED light.



	NOTICE
	The UV light is not a UV-C germicidal light and will not be effective for the decontamination of cabinet.

SECTION 7

Certificates

Monmouth Scientific

THE MARKET LEADER IN CLEAN AIR SOLUTIONS

EU DECLARATION OF CONFORMITY

CE

Monmouth Scientific Ltd
Units 5 & 6 Kilnside
East Quay, Bridgwater
TA6 4DB

We declare under our responsibility, that when installed in accordance with the installation and commissioning instructions, the following products, to which this declaration relates

Powder Containment Cabinet, Model: HFCpro/PCC-90 /120/150
are in conformity and compliance with the following standards, directives or other normative documents, and follow the essential requirements and provisions as stated below:

BS EN ISO 14175 'Fume Cupboards'
Consisting of the following parts, under the general title Fume Cupboards:
Part 1: Vocabulary & Measurement, Part 2: Safety And Performance Requirements, Part 3: Type Test Procedures, Part 4: On-Site Test Procedures, Part 5: Recommendations For Installation And Maintenance--- published as Technical Specification CEN/TS 14175-5, Part 6: Variable Air Volume Fume Cupboards

BS 7989:2001 'Specification For Recirculatory Filtration Fume Cupboards'

Electromagnetic Compatibility (EMC) Directive (2014/30/EU)
Harmonized Standard:
EN 61326-1:2013 'Electrical Equipment For Measurement, Control And Laboratory Use'
(EMC requirements & general requirements)

Low Voltage Directive (2014/35/EU)
Harmonized Standard:
EN 61010-1: 2010 'Safety Requirements For Electrical Equipment For Measurement, Control And Laboratory Use'
(general requirements)

Machinery Directive (2006/42/EC)
DS/EN ISO 12100-1: 2010 / DS/EN ISO 12100-2: 2010 'Safety Of Machinery'
(general principles, basic terminology and methodology used in achieving safety of machinery---design guidance / technical principles and specifications)

BS EN 60204-1:2018 'Safety Of Machinery'
'Electrical Equipment Of Machines'
(general requirements)

RoHS 3 Directive (2015/863/EU)
'Restriction Of Hazardous Substances'
(in electrical and electronic equipment)

Name Of Authorised Person: Mr David Pomeroy (Managing Director)

Dated: 15/05/2021 **Signed:**

Issue1

Monmouth Scientific Limited
Units 5 & 6, Kilnside, East Quay, Bridgwater, Somerset, TA6 4DB.
Telephone: 01278 458090
Email: info@monmouthscientific.co.uk www.monmouthscientific.co.uk Registered Company No. 04716008

CERTIFICATE

Electrical Safety Test Certificate

Date Issued:	February 15th 2021
Issue number:	1
Certificate number:	C20-5317

Manufacturer:	Monmouth Scientific Limited
Product name:	HFC/PCC Powder Containment Unit
Model Number:	PCC-120
Serial Number:	PCC12-17213

Kiwa Electrical Compliance that the product detailed above has been tested to and meets the applied clauses of the below standards (see remarks section of R20-5317 for devaitons / exclusions):

EN 61010-1:2010

Signed on behalf of Kiwa Electrical Compliance

Name: Chris Jefferies

Job Title: Compliance Engineer

This certificate consists of 1 page.
Full details of the testing performed are given in Kiwa Electrical Compliance Test Report R20-5317
For deviations / exclusions see section III and Annex A of report.
This test certificate may be reproduced and shall only be reproduced in full.
The digital signature(s) used on the PDF certificate enable identification of the signatories.
The signatures tab can be used to confirm that no changes were made to this document since it was signed.
If the integrity of any reproduction of this test certificate is in doubt contact Kiwa Electrical Compliance for validation.

Kiwa Electrical Compliance
8 Woodfieldside Business Park
Pontllanfraith
Blackwood
NP12 2DG
United Kingdom
T +44 (0)14995 229219
www.kiwa.co.uk

CERTIFICATE

EMC Test Certificate

Date Issued: *1st February 2021*

Issue number: *2*

Certificate number: *20-5317-2*

Manufacturer:	Monmouth Scientific
Product name:	HFC/PCC
Description:	Powder Containment Unit
Model Number:	HFC/PCC-120
Serial Number:	PCC12-17213-1

A sample of the above product was tested and found to be compliance with the standards below.
Full results are retained on file at Kiwa Electrical Compliance.

EN 61326-1:2013
(Class A Emissions, Basic Immunity Environment)
EN 61000-3-2:2014
EN 61000-3-3:2013

Signed on behalf of Kiwa Electrical Compliance

G.Baker

Ginnie Baker
Quality Manager

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If the integrity of any reproduction of this test certificate is in doubt contact Kiwa Electrical Compliance for validation.
This amended certificate replaces all previous certificates with a lower issue number.

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Pontllanfraith
Blackwood
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T +44 (0)1495 229219
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ilac-MRA UKAS TESTING 2667

Explanation of Hazard Labels

	**DANGER** Indicate[s] a hazardous situation which, if not avoided, will result in death or serious injury.

	**WARNING** Indicate[s] a hazardous situation which, if not avoided, could result in death or serious injury.

	**CAUTION** Indicate[s] a hazardous situation which, if not avoided, could result in minor or moderate injury.

	**NOTICE** Best practice, housekeeping, security permissions and general notices which don't necessarily indicate a hazard.

Not to be included with manual

Revision History

Rev	Details
1a	New Release

Monmouth Scientific

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