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CORPORATION

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USER INSTRUCTIONS PF3000H/ PF3000B

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USER INSTRUCTIONS

PF3000H/ PF3000B



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USER INSTRUCTIONS

**PF3000H/
PF3000B**



EN
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Issue 07



PureFlo 3000H/ PureFlo 3000B



Australian
Standard

AS/NZS 1337.1 SMK1633
AS/NZS 1716 SMK1607
SAI Global

Declaration of Conformity available at:

<https://shop.gentexcorp.com/content/DoC-PF3000H.pdf>

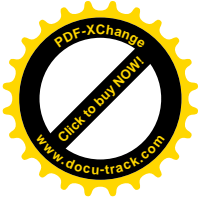


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USER INSTRUCTIONS

Please read these instructions and then store them in a safe place for future reference.

The respirator must be fitted and used in accordance with these instructions to obtain the approved level of performance.

CAUTIONS

- For adequate protection this respirator must fit or be adjusted to the size of the user's head.
- The respirator is made to absorb the energy of a blow by partial destruction or damage to the shell and the harness, and even though such damage may not be readily apparent, any respirator subjected to severe impact should be replaced.
- The attention of users is also drawn to the danger of modifying or removing any of the original component parts of the respirator, other than as recommended by the respirator manufacturer.
- Respirators should not be adapted for the purpose of fitting attachments in any way not recommended by the respirator manufacturer.
- Do not apply paint, solvents, adhesives or self-adhesive labels, except in accordance with instructions from the respirator manufacturer.

WARNINGS

- REPAIR IS BY REPLACEMENT OF DEFECTIVE PARTS ONLY.
- ONLY APPROVED PureFlo® PARTS SHOULD BE USED.
- ALTERATIONS AND AFTER-MARKET MODIFICATIONS TO HEADWEAR PRODUCTS MIGHT COMPROMISE THE PROTECTIVE FEATURES OF THE HEADWEAR.
- RESPIRATORS MUST BE STORED IN ACCORDANCE WITH THESE INSTRUCTIONS. (INCLUDING DURING BREAK TIMES etc.) RESPIRATORS MUST BE REGULARLY CLEANED IN ACCORDANCE WITH THESE INSTRUCTIONS.
- RESPIRATORS MUST BE DECONTAMINATED IN ACCORDANCE WITH THESE INSTRUCTIONS.
- THE HEADBAND, CONCUSSION STRAPS, FIXINGS AND MOUNTING POINTS FORM PART OF THE STRUCTURE OF THE RESPIRATOR. ENSURE THAT THE NEW ASSEMBLY IS FITTED CORRECTLY, OR THE INTEGRITY OF THE RESPIRATOR MAY BE COMPROMISED.
- PRIOR TO USE A FLOW CHECK MUST BE PERFORMED.
- DO NOT HOLD OR SUSPEND THE RESPIRATOR BY THE HEADBAND OR FACE SEAL.



PureFlo 3000H/ PureFlo 3000B

- DO NOT WEAR THE RESPIRATOR IF THE AIR FLOW IS SWITCHED OFF.
- AT VERY HIGH WORK RATES THE PRESSURE IN THE DEVICE MAY BECOME NEGATIVE AT PEAK INHALATION FLOW.
- LONG HAIR MUST NOT BE TIED TO THE BACK OF THE USERS' HEAD TO USE THIS PRODUCT. TIED BACK HAIR MAY PROHIBIT THE NAPE RATCHET FROM WORKING CORRECTLY AND CAUSING THE RESPIRATOR TO BE INSECURELY FITTED ON THE USERS' HEAD.
- MATERIALS, WHICH MAY COME INTO CONTACT WITH THE WEARER'S SKIN COULD CAUSE ALLERGIC REACTION TO SUSCEPTIBLE INDIVIDUALS.
- SCRATCHED OR DAMAGED VISOR SHOULD BE REPLACED.
- HIGH SPEED PARTICLE IMPACT ON FACE SHIELD MAY TRANSMIT IMPACT ON STANDARD OPHTHALMIC SPECTACLES WORN UNDERNEATH.

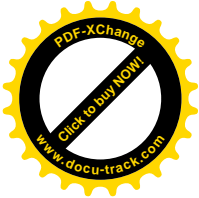
The PureFlo® 3000 is equipped with a High Efficiency Particulate Air Filter (P3/HEPA) and is powered by a re-chargeable battery incorporated into the respirator.

The respirator filters the surrounding air providing a flow of clean air into the user's breathing zone.

The PureFlo 3000B and PureFlo 3000H are supplied with a face seal, designed to help to maintain a positive pressure within the respirator, preventing penetration of the ambient air.

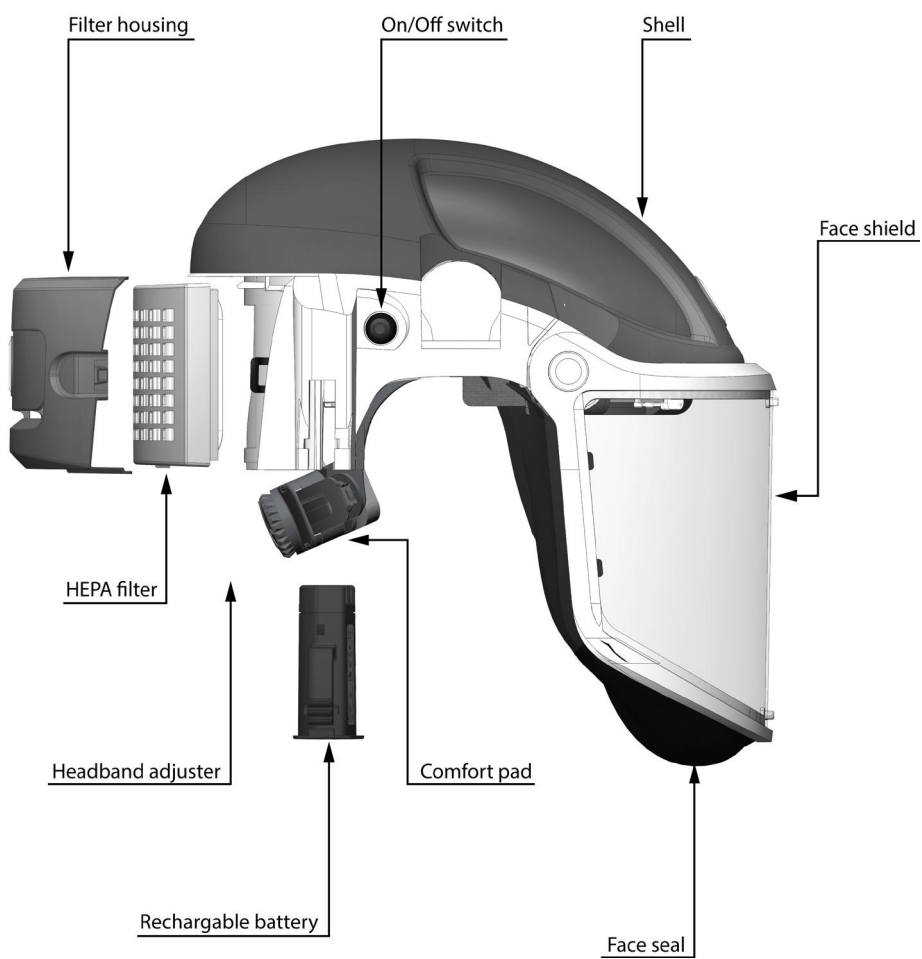
NOTE: To avoid the danger of choking or suffocation please keep the respirator and associated components away from babies and children.

PureFlo® 3000 contains an adjustable quick release headband ensuring a comfortable fit for head sizes between 53.5 cm and 63.5 cm.

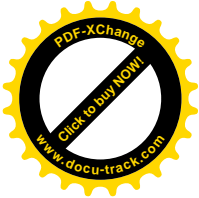


PUREFLO 3000H

HARD HAT*



* BUMP CAP NOT SHOWN



GENERAL DESCRIPTION

The respirator must be fitted and used in accordance with these instructions to obtain the approved level of performance.

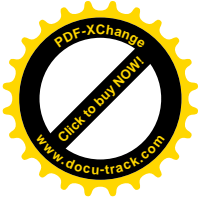
APPROVED PUREFLO3000 PARTS MUST BE USED.

The PureFlo®3000 respirator box contains the following items:

Item	Description	Part Number
Powered Air Purifying Respirator	Respirator module (TH3P)* with Face Shield and Hard Hat	PF3000H
	Respirator module (TH3P)* with Face Shield and Bump Cap	PF3000B
Filter	High Efficiency Particulate Air Filter (THP3/HEPA)	PF3000-02-001
Rechargeable battery	Rechargeable Lithium-Ion high capacity battery.	PF3000-03-003
Battery charger	Mains and 12V inputs	PF3000-03-004
Mains cable	Mains cable for the battery charger	See 'SPARE PARTS' list
Cleaning plugs	3 cleaning plugs	PF3000-03-014
User instructions	Printed instructions for correct use of respirator	PF3000-03-035
Storage Bag	Protective storage bag for respirator	PF3000-03-017

Table 1

* TH3P – A powered filtering device incorporating a helmet or hood and a particulate filter (P3,) where the inward leakage of the complete device is $\leq 0.2\%$.



APPROVAL FOR USE

This product has been assessed by BSI Group The Netherlands B.V, John M. Keynesplein 9, 1066EP Amsterdam, The Netherlands (Notified body No. 2797) to show it meets requirements of Annex V (module B) of the European Regulation EU2016/425. It has also been assessed by BSI Group UK, Davy Avenue, Knowlhill, Milton Keynes, MK5 8PP, UK (Approved Body No. 0086) to show it meets requirements of UK PPE Regulation (EU)2016/425 (as retained in the UK law and amended).

This product is manufactured in accordance with Annex VIII (module D) of PPE Regulation EU2016/425 quality monitoring system, hence it is CE and UKCA marked. Quality system surveillance is carried out by BSI Group UK (Approved Body No. 0086) and BSI Group The Netherlands (Notified body No. 2797).

Product assessed against the requirements of the following standards:

Respiratory Protection	EN12941:1998+A2:2008 – TH3P AS/NZ 1716: 2012
Eye / Face protection	EN 166:2002 – 1B3 (1 - Optical class, B - Medium Energy impact, 3 – Liquid splash) AS/NZ 1337.1:2010
Head Protection (Hard Hat)	EN 397:2012+A1:2012 AS/NZ 1801-1997 Type 1
Head Protection (Bump Cap)	EN812:2012

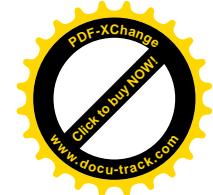
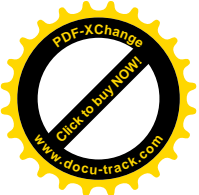
Table 2

Declaration of Conformity available at:

<https://shop.gentexcorp.com/content/DoC-PF3000H.pdf>

Special conditions for safe use

1. The plastic helmet shell, transparent face shield and face seal could present a potential electrostatic risk. Suitable precautions should be taken to minimise this risk and the helmet should only be cleaned with a damp cloth.
2. Only battery Part No PF3000-03-003 should be fitted to the respirators.
3. The battery should only be recharged in a safe area.
4. PureFlo® 3000 respirators are only tested to be used within the limited ambient temperature range (+5°C to +40°C).
5. The unit should not be worn in the power off state. No respiratory protection is to be expected and can result in rapid build-up of carbon dioxide and depletion of oxygen within the hood.
6. Marking on filters used on this device are in accordance with EN 12941 and do not relate to any other standards.



PureFlo 3000H/ PureFlo 3000B

SUITABILITY FOR USE

This respirator must be used strictly in accordance with these instructions.

When using the approved PureFlo® filter, the workplace concentrations of the vapour must not exceed the O.E.L. (Occupational Exposure Limit). **Intended for use against dusts, mists and aerosols.**

Available air filtration options:

- Pre-filter PF3000-04-005
- Odour pre-filter PF3000-04-004

Do not use this respirator for protection against unknown atmospheric contaminants.

Do not use this respirator when

- Concentrations of contaminants are unknown,
- Contaminants are immediately dangerous to life or health,
- Ambient atmosphere is likely to be deficient in oxygen.

Use this respirator only with the parts and accessories listed in these instructions.

The respirator is intended only for use by competent personnel.

Leave the contaminated area immediately if any of the following conditions apply:

- LED indicates red
- Any part of the respirator becomes damaged.
- Airflow into the respirator decreases or stops.
- Breathing becomes difficult.
- Dizziness or other physical distress or irritation occurs.
- The user tastes or smells contaminants.

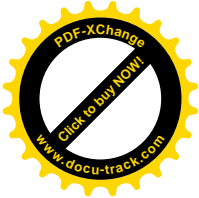
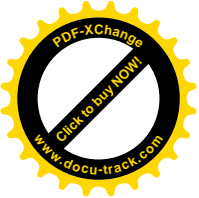
Never modify or alter this product, except as directed in the service tasks contained in these instructions.

Materials, which may come into contact with the wearer's skin could cause allergic reactions to susceptible individuals.

TRANSPORTATION

For transportation purposes use the carry bag provided and protect the respirator from physical or chemical damage.

A protective durable bag is available as an accessory. (Part No. PF3000-03-017)



PREPARATION FOR USE

The following tasks must be performed prior to use:

Battery charging

Only charge the battery in a safe area free from sources of flame and sparks, temperature between +5°C and +40°C.

NOTE: Do not use mains supply and 12V supply at the same time.



Figure 1A

If using mains electricity to charge the battery, use the appropriate power cable relating to country of use.

Insert the power cable plug into the mains supply and the charger, then switch on the supply. (Figure 1A)

If using a 12V supply (vehicle, site supply, etc.) to charge the battery, use the appropriate 12V power cable (PF3000-04-008, SOLD SEPARATELY)

Insert the 12V power cable plug into the charger and the power supply then switch the power supply on, if applicable.

(Figure 1B)

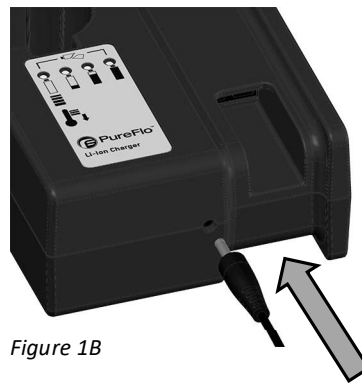
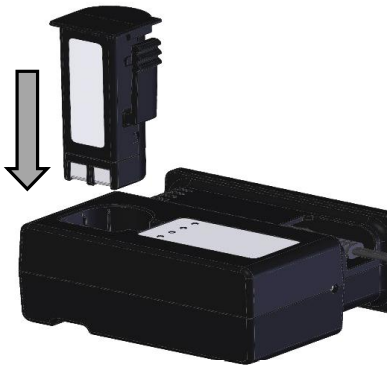


Figure 1B

NOTE: Centre positive power cable must be used.



Insert the battery as shown in Figure 2.

Ensure the battery fully 'clicks' into position.

For more information check 'TROUBLESHOOTING' section on page 34.

NOTE: It is normal for the battery and charger to get warm during use.

Figure 2

Observe the status indicator LEDs. (Figure 3)

The following indications and warnings may be given during charging:

Mode/Display	LED1 red	LED2 green	LED3 green	LED4 green
No battery	Off	Off	Off	On
Low/high temp.	Flashing	Off	Off	Off
Pre-charging	On	Off	Off	Off
Constant current charging	On	Off	Off	Off
Constant current charging after 25 min	Off	On	Off	Off
Constant voltage charging	Off	On	On	Off
Battery full	Off	On	On	On
Battery failed	Flashing	Off	Off	Flashing

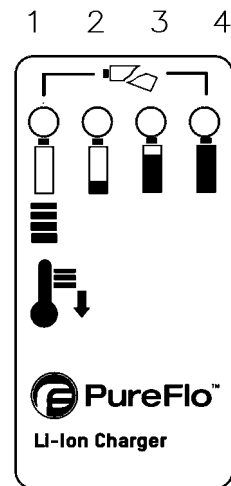
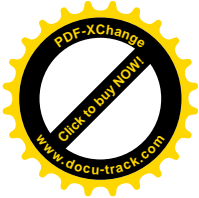
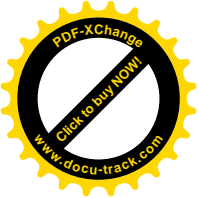


Figure 3

Table 3

The nominal recharge time for a battery is below 2 hours.



When to recharge

Do not force the PAPR/Unit to restart after auto-shut down following a low battery alarm. Doing so may ‘deep discharge’ the battery, which will permanently reduce available capacity.

Battery charger advisory symbols’ legend












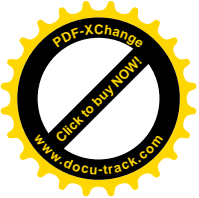
	UK Conformity Assessed – product meets the requirements of applicable UK directives
	European Conformity – product meets the requirements of applicable EU directives
	At the end of the service life, this product shall not be discarded with the municipal waste but needs to be disposed of using separate collection, treatment, recovery/recycling and environmentally sound disposal
	Product is double insulated (Insulation Class II)
	Product is designed for indoor use
	Read Operator’s Manual
	Battery charger terminal polarity
	Fuse link
	RCM compliance
	TÜV Rheinland approved
	California Energy Commission compliant

Table 4



Battery installation and removal

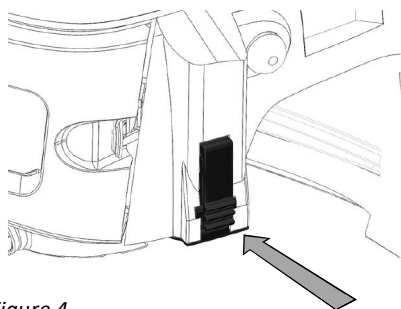


Figure 4

Remove battery by pushing lightly on the release area indicated.

(Figure 4)

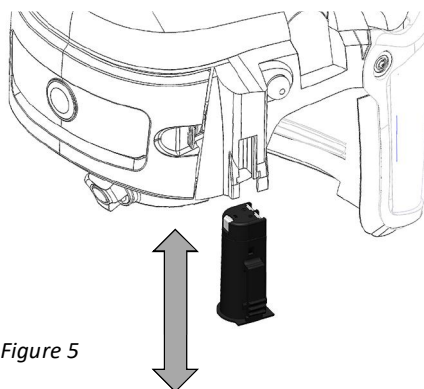


Figure 5

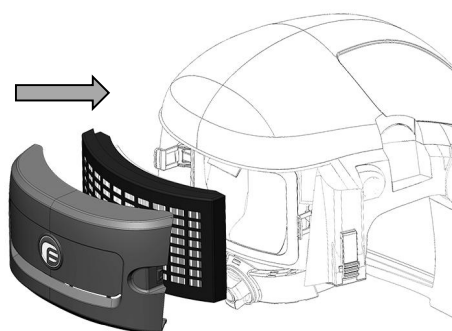
Observing the orientation shown in Figure 5, install a fully charged battery into the respirator until the battery fully 'clicks' into position.

Activate the respirator by pressing the on/off switch shown in Figure 9.

Visual inspection of breathing zone

- Check the face seal for damage.
- Check the face seal engages properly into the frame. If the face seal cannot be retained securely in the face shield frame, a new face seal must be fitted. See section 'Removing & replacing the face seal' on page 24.
- Check the quick release headband is properly installed. Replace any damaged parts including scratched or damaged face shield.

HEPA filter fitting and checking the respirator



Ensure that the high efficiency particulate (HEPA) filter is installed correctly as shown in Figure 6.

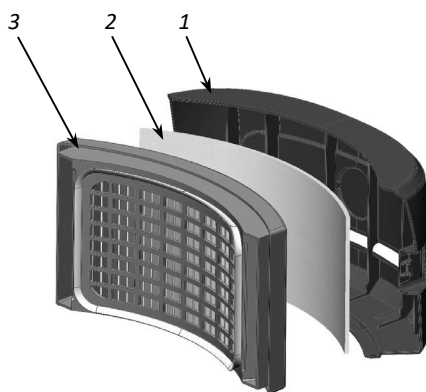
When fitting the filter element into the filter housing, observe that the filter label faces upwards as worn.

Then applying firm pressure, click to engage the filter housing with the two filter latches.

Figure 6

If a pre-filter (PF3000-04-004 or PF3000-04-005) is to be used, ensure this is positioned inside the filter housing prior to fitting the HEPA filter.

More information in section 'High efficiency particulate air filter replacement' on page 31.



Correct positions of filters:

1. Housing
2. Odour / Pre-filter
3. HEPA filter

Figure 7

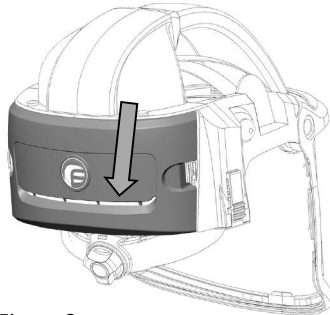
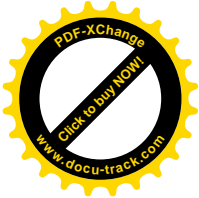


Figure 8

Check that the air inlet is clean and free from any obstructions. (Figure 8)

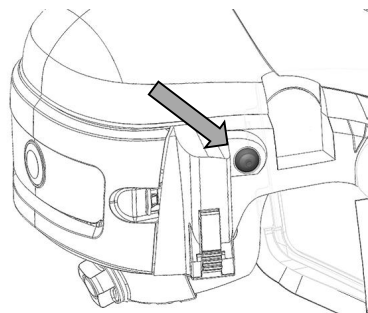


Figure 9

Activate the respirator with the on/off switch as shown in Figure 9, noting the LED display. (Figure 9)

The respirator can be turned off by pressing and holding in the on/off switch for approximately 3 seconds.

If the respirator is working correctly, status indicator LED (Figure 10)(1)) will illuminate green.

The respirator is then ready to use.

If status indicator LED is RED proceed to 'Troubleshooting' section on page 34.

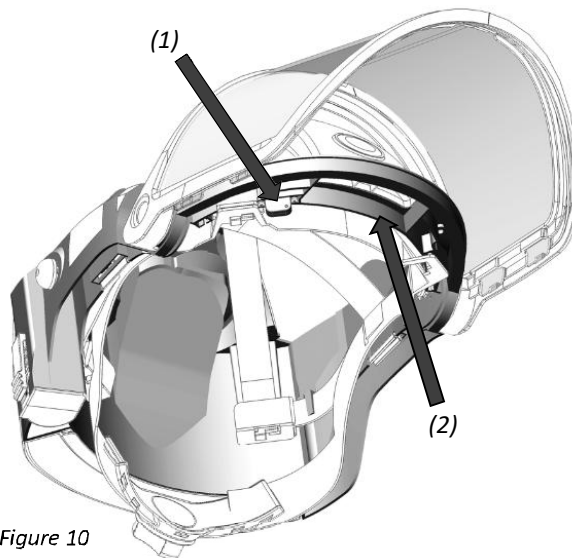
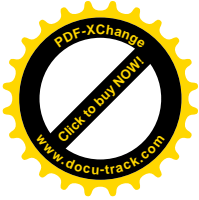


Figure 10



Low airflow indicator check

Before using the respirator perform a low airflow indicator check:

1. Ensure that the HEPA filter has been installed correctly as shown in Figure 6 on page 15.
2. Activate the respirator with the on/off switch as shown in Figure 9 and perform the following test, noting the LED indicator.
3. Use your hand to block the airflow outlet as shown in Figure 10(2).
If the respirator is working correctly the fan will increase in speed.
4. Within approximately 10 seconds the LED will turn from GREEN to a slow flashing RED LED indicator.
5. The slow RED LED flashing indicates low air flow.
6. Remove your hand from the air inlet.
7. Switch the respirator off by pressing and holding the on/off switch for approximately 3 seconds to cancel the test.
8. Activate the respirator with the on/off switch once again before use.

WEARING AND USING

Fitting the respirator

To achieve an optimal level of respirator performance, follow the fitting instructions below.

Headband height adjustment

Before first use, adjust the headband height by following Figure 11-Figure 14.

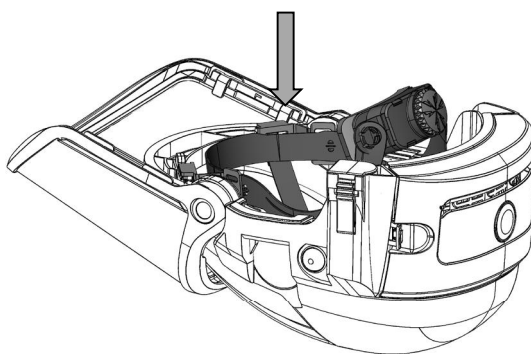


Figure 11

Release the face seal press fasteners, secured to the elastic strap, from around the brow pad & headband.

Release the red headband mounts from the 4 attachment posts in the respirator frame (Figure 11) by pressing the headband support bracket. The mount will 'click' out of the attachment post.

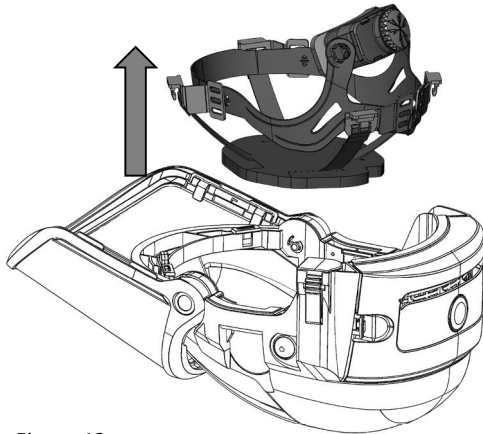
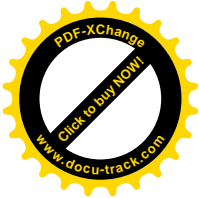


Figure 12

Remove the headband from the respirator. (Figure 12)

Rotate the headband support and remove from the headband assembly (Figure 13).

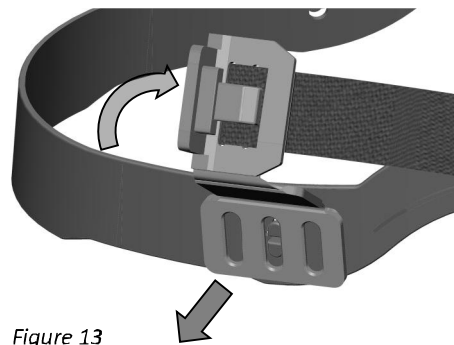


Figure 13

Position the headband support using the required height adjustment slot and rotate back into position (Figure 14).

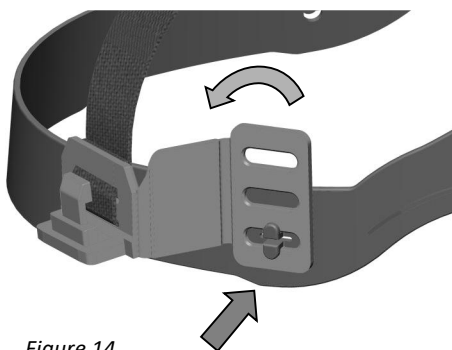
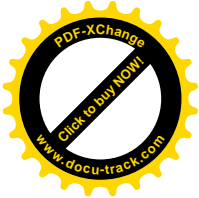


Figure 14

Adjust all 4 headband supports so they are positioned on the same corresponding slot. This will ensure the headband and respirator are sitting level.

Re-attach headband assembly into the frame by locating the red headband mounts into the attachment posts. Ensure the concussion strap is out of the way before clicking the mount into the attachment post.



Re-attach face seal as described in section 'Removing & replacing the face seal' on page 24.

NOTE: Do not hold or suspend the respirator by the headband or face seal.

Quick release headband adjustment

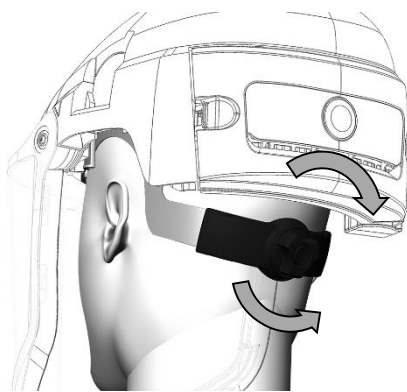


Figure 15

For comfort and security, the quick release headband must be adjusted each time prior to entering the work environment. (Figure 15)

Modify the headband size using the headband adjuster:

- To tighten - rotate the adjuster clockwise.
- To loosen – rotate the adjuster counter-clockwise.

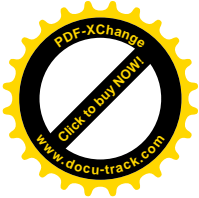
Face seal



Figure 16

Firmly close the face shield, before adjusting the face seal.

Ensure that the face seal is pulled under the chin and is not twisted or folded. (Figure 16).



Activating respirator

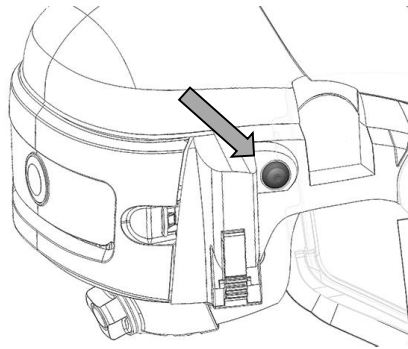


Figure 17

Switch the respirator on using the on/off switch. (Figure 17)

The respirator can be turned off by pressing and holding in the on/off switch for approximately 3 seconds.

WARNING: DO NOT USE THE RESPIRATOR if LED status indicator illuminates RED. Refer to 'Troubleshooting' section on page 34.

Status indicator (LED)

(All filter types)

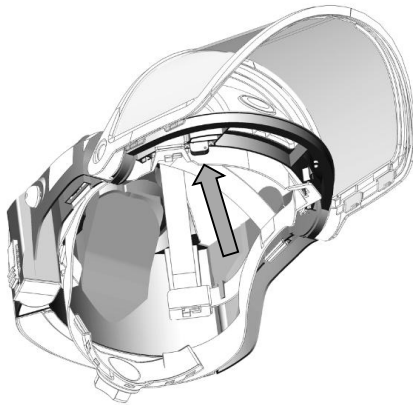


Figure 18

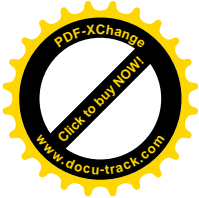
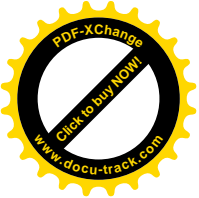
When LED (Figure 18) illuminates green it indicates that respirator is in a useable condition.

If LED illuminates red, you have 10 minutes to leave the area **while still being protected**.

Exit to a safe zone and either replace the battery or filter as required.

Never enter the working environment with LED illuminated red.

Refer to 'Troubleshooting' section on page 34.



PureFlo 3000H/ PureFlo 3000B

Users must also consider whether the filter and battery have sufficient life for the planned time in the work environment.

The following indications are given when switching on the respirator:

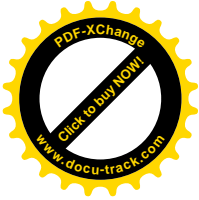
Condition	LED light	
	Red	Green
Starting sequence – investigation required. Respirator is NOT USABLE.	Fast/ Slow Flashing	Off
Respirator is in a useable condition	Off	On

Table 5

The following warnings may be given during operation:

Condition	LED light	
	Red	Green
High efficiency particulate (HEPA) filter ready for replacement – change filter as soon as possible.	Slow Flashing	Off
Airflow cannot be maintained stop work immediately, leave a contaminated area and replace HEPA filter.	Fast/ Slow Flashing	Off
Low battery - stop work immediately; leave contaminated area and replace battery.	Fast Flashing	Off
System fault (abnormal warning)	Off	Off

Table 6



PureFlo 3000H/ PureFlo 3000B

Removing the respirator

Do not remove the respirator until you have vacated the contaminated area.

1. Before taking the respirator off, loosen the quick release headband by rotating the ratchet counter-clockwise.
2. Pull the face seal away from the chin to allow easy removal of the respirator.
3. Remove the respirator. Press the on/off switch for approximately 3 seconds to switch the respirator off.
4. If special decontamination procedures are required, take appropriate precautions and place the respirator in a suitable sealed container.
5. Otherwise clean the respirator as indicated on page 22 after every use.

SERVICING

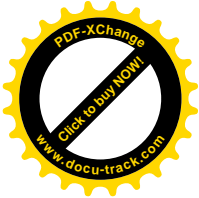
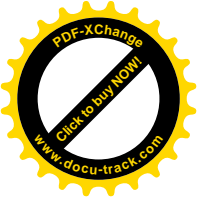
Cleaning

Remove respirator from user's head before cleaning.

WARNING: Never use pressurised air on any part of the respirator.

- Before cleaning remove face seal, brow pad, crown pad, nape pad, HEPA filter with cover along with the rechargeable battery. Insert provided cleaning plugs as shown at Figure 19-Figure 21
- Do not turn the respirator upside down and fill any area or cavity with liquids.
- For respirators with contamination, ensure that the face shield is down, and respirator is upright. Clean using a clean cloth with a mild solution of a household liquid soap and water. For ingrained dirt on the outside of the respirator (excluding visor), a nailbrush or ultrasonic brush may be used. Dry the respirator with a clean lint free cloth - do not use a heat source.
- Wipe the inside & outside of the respirator. **PUREWIPE PR01110SP** cleaning wipes are recommended for this purpose.
- Do not immerse the respirator in water or any fluid.
- Do not use organic solvents or abrasive cleaning agents on any part of the respirator.
- Disposal and cleaning of parts should be undertaken in accordance with local health and safety, and environmental regulations.
- If the respirator has been used in an area that has caused it to become contaminated with a substance requiring special decontamination procedures, observe the precautions described in the manufacturer's health and safety information.

NOTE: For further advice and support on fitting and cleaning procedures please contact Customer Services.



Air outlet cleaning plug.

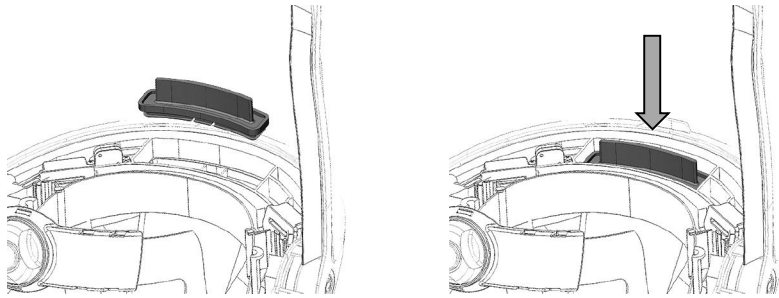


Figure 19

Air inlet cleaning plug.

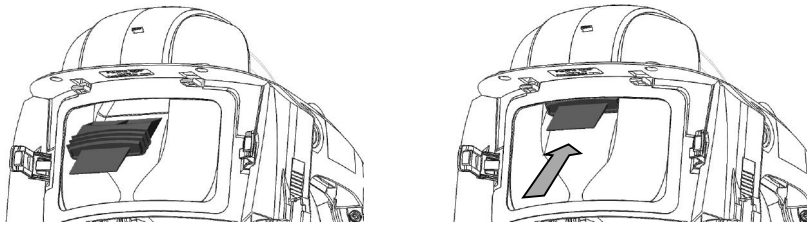


Figure 20

Battery cavity cleaning plug.

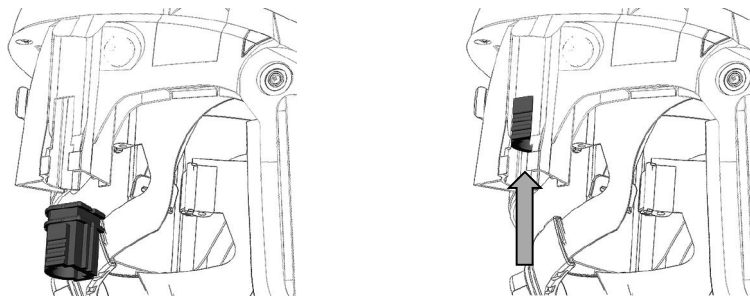
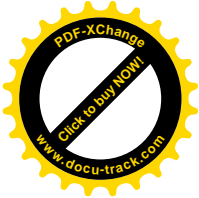
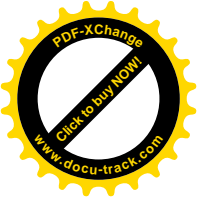


Figure 21



Annual servicing

Please note that all PureFlo® respirators should be serviced annually.

For further details on your nearest PureFlo® authorised servicing centre details, visit our website <http://www.pureflo.gentecorp.com>.

NOTE: Repair is only by replacement of defective parts in accordance with manufacturer instruction.

Before disassembly

Before disassembly or filter replacement, always clean contamination from the respirator in accordance with the cleaning instructions on page 22.

Removing & replacing the face seal

Removing the face seal and brow pad

Observe the position of the face seal, before removal, as this will assist in the fitting procedure shown below.

Detach all press fasteners along with all hook and loop retainers (left and right).

Remove the brow pad, before releasing the face seal elastic ends from the headband hook tape (left and right), referring to Figure 23.

Complete the face seal removal by pulling the rubber sealing strip out of the face seal channel.

Replacing the face seal and brow pad

NOTE: The following instructions describe fitting the face seal with the respirator upside-down, and in the open/raised position. (Figure 22)

With the face shield in the open position, place the new face seal in the orientation shown in Figure 22, with the grey side facing upwards.

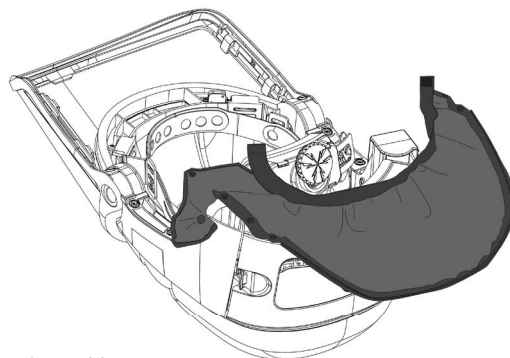


Figure 22

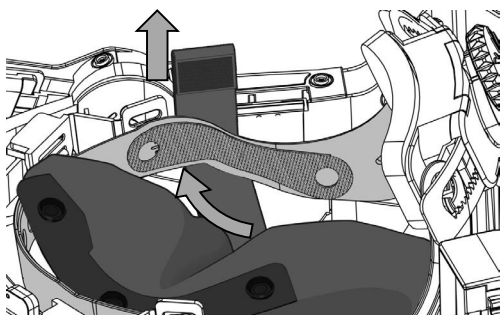
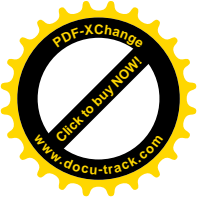


Figure 23

Place the face seal inside the respirator head space and ensure the elastic loop tape does not become twisted.

NOTE: Gently pull the headband into the head space to increase accessibility.

Starting from inside the head space, feed the elastic loop tape under, up and back over the headband.

(Figure 23/ Figure 24)

Secure the elastic loop tape to the headband hook tape, next to the red headband clips. (Figure 24)

Repeat this process for the other side of the face shield.

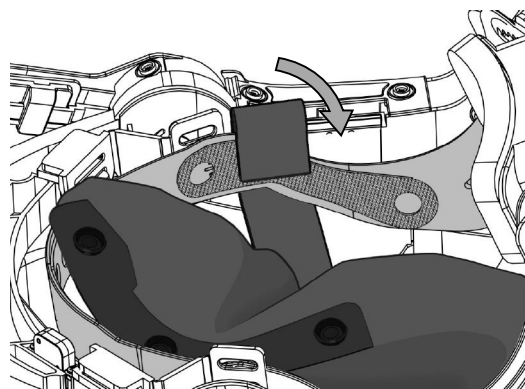


Figure 24

NOTE: Tuck the face seal into the respirator head space to allow clearance for the attachment of the brow pad.

Re-attach the brow pad (covering both face seal elastic ends) ensuring it is placed centrally on the hook and loop strip located on the inside surface of the headband, with the 'perforated' side of the brow pad facing the user's skin.

(Figure 25)

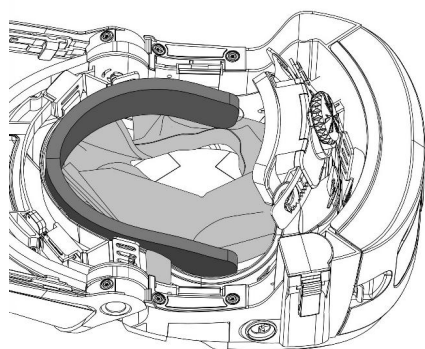
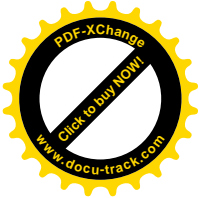


Figure 25



Attach the press fastener (located next to the rubber sealing strip) to the mating press fastener on the face shield frame.

(Figure 26)

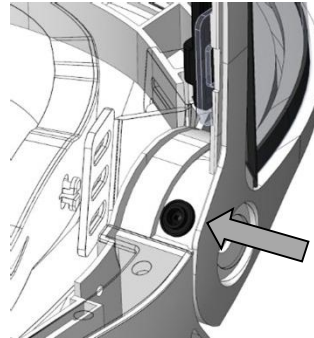
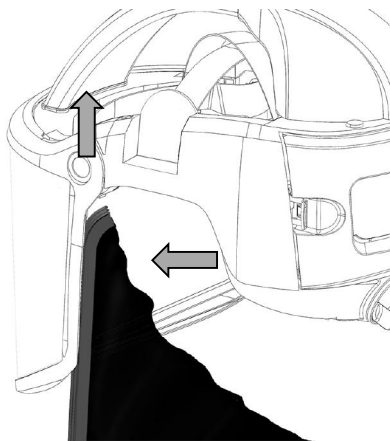


Figure 26



Starting at one end, press the rubber sealing strip firmly in and around the face seal channel, ensuring the sealing strip is fully engaged. (Figure 27)

CAUTION: Ensure the face seal is positioned fully, up to the channel end stop. (Figure 27)

Figure 27

Secure the press fastener on the other side of the face shield. (Figure 28)

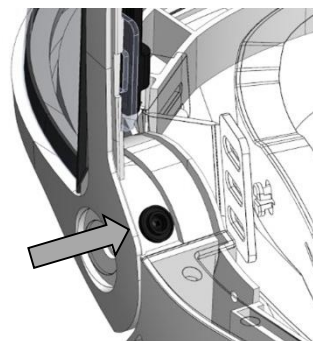
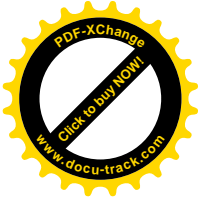
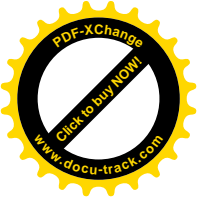


Figure 28



Secure the face seal to the two press fasteners and hook tape, as shown in Figure 29.

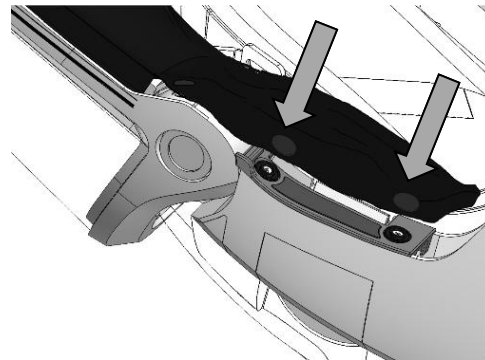


Figure 29

Repeat this process for the other side of the face shield.



Figure 30

Approaching from the front of the respirator, wrap the rear section of the face seal around both sides of the adjuster arm of the headband.

Mate the two press fasteners together in the space behind the adjuster arm, below the nape ratchet. (Figure 30)

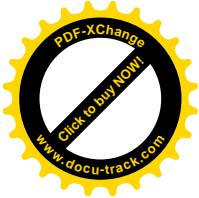
Referring to Figure 31, locate the remaining press fastener inside the helmet frame and secure.



Figure 31

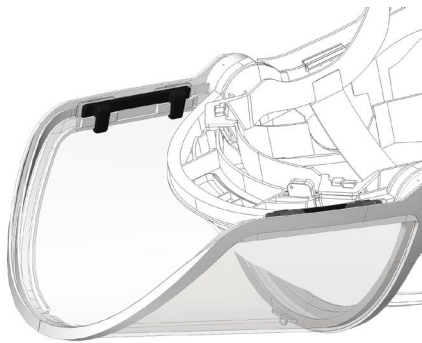
Repeat the process referring to Figure 30 – Figure 31 for the other side of the face shield.

NOTE: Ensure the rubber sealing strip remains fully inserted into the face shield frame channel.



Face shield replacement

Replace an old or damaged face shield as shown. Face shields should be stored out of direct sunlight and replaced at least every 5 years or according to local regulations, whichever is soonest.



Turn the respirator upside down to gain access to the face shield retainer clips. (Figure 32)

Figure 32

Insert a flat blade screwdriver (or similar) into the slot to disengage the clips from both sides of the face shield as shown. (Figure 33)

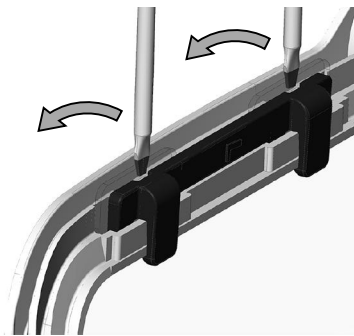


Figure 33

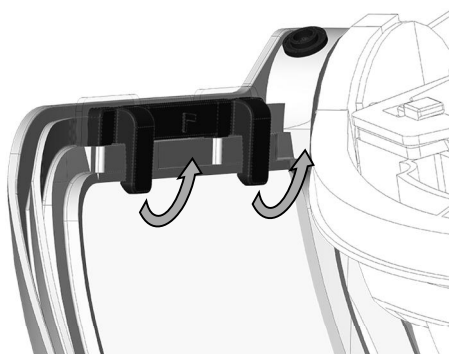
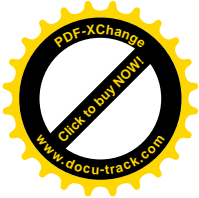
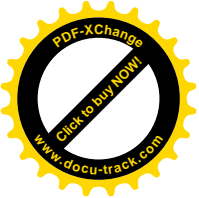


Figure 34

Release the face shield retainer clips from each side of the frame. (Figure 34)



Remove clips from both sides of the face shield frame as shown. (Figure 35)

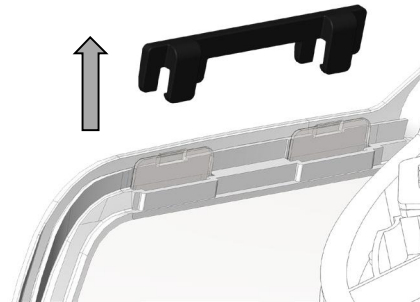
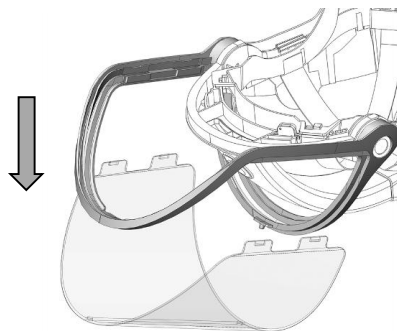


Figure 35



Remove face shield from the frame. (Figure 36)

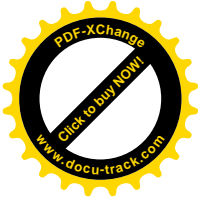
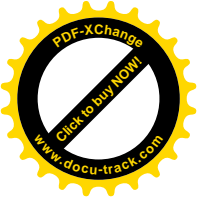
Figure 36

Carefully reassemble, fitting the new face shield in reverse order. Tools are not required for reassembly.

Helmet shells

Helmet shells must only be replaced by an authorised service centre. If the helmet shell has sustained an impact, it should be replaced immediately, even if the damage is not visible. Once the helmet shell has been impacted, the materials may be weakened and may no longer provide its intended impact and penetration resistance. When subjected to an impact, return the complete respirator to a Service Centre for assessment.

The respirator should be stored out of direct sunlight and the helmet shell should be replaced every 5 years.



Head band assembly

WARNING: The headband, concussion straps, fixings and mounting points form part of the structure of the helmet. Ensure that the new assembly is fitted correctly, or the integrity of the respirator may be compromised.

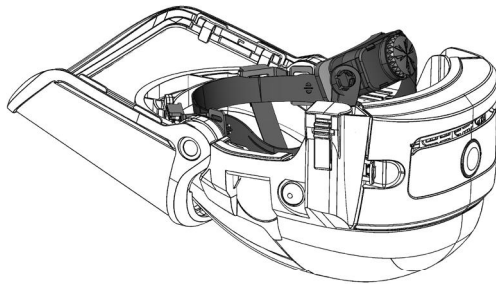


Figure 37

Remove the headband as per instruction on pages 17-19, in section 'Headband height adjustment'

Refit new head band in reverse order as shown on pages 17 and 18 'Headband height adjustment'.

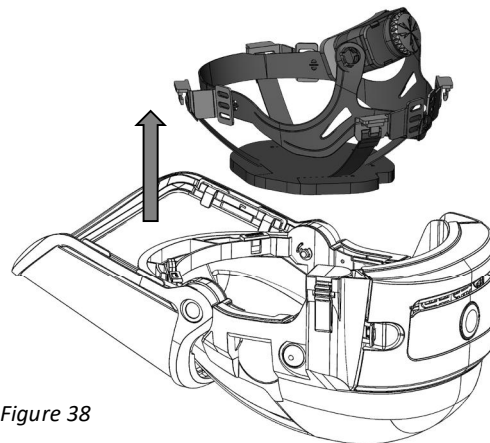
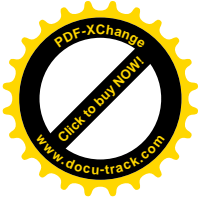
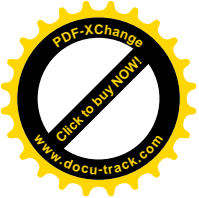


Figure 38

Replacing the comfort pads

Brow pad

Remove the brow comfort pad by pulling away from the 'hook and loop' retaining strip, whilst referring to "Removing the face seal and brow pad" on page 24. Place the new brow pad onto the 'hook and loop' strip. Ensure the brow pad is placed centrally to the front of the headband so that it sits equally left and right to the user's head. Ensure the 'perforated' side of the brow pad is facing the user's skin.



Crown pad

Pull the crown pad away from the headband straps.
Place the new crown pad inside the headband and insert the straps into the corresponding slots. Position cut-out marker to the front of the headband.
Ensure the 'perforated' side of the crown pad is facing the user's skin.

Nape pad

Remove nape comfort pad by pulling away from the 'hook and loop' retaining strip.
Place the new nape pad onto the 'hook and loop' strip. Ensure the nape pad is placed centrally to the headband adjuster.
Ensure the 'perforated' side of the nape pad is facing the user's skin.

High efficiency particulate air filter replacement

When the status indicator LED illuminates RED, further investigation is required regarding condition of a filter and a battery. If no fault on battery has been found, the high efficiency particulate (HEPA) filter must be replaced.

Install a new HEPA filter as shown in Figure 39-Figure 42 and Figure 6 on page 15.

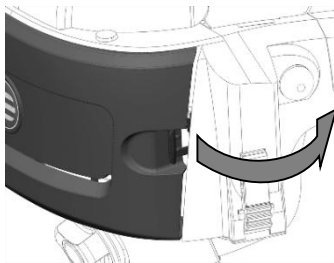


Figure 39

Doff the respirator.
Turn off the respirator and open the filter cover, by releasing the latches on both sides of the respirator as shown in Figure 39 and Figure 40.

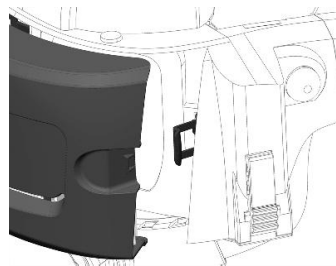


Figure 40

Remove filter cover (Figure 41).

Remove contaminated HEPA filter, odour filter/pre-filter and hood anti-recirculation gasket, as applicable.

Dispose of contaminated items according to local regulations.

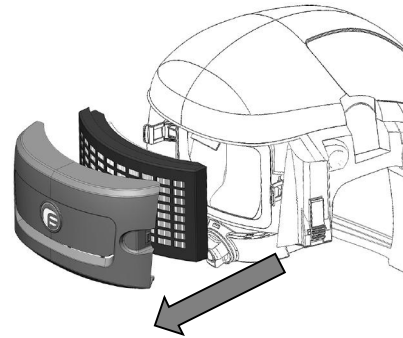


Figure 41

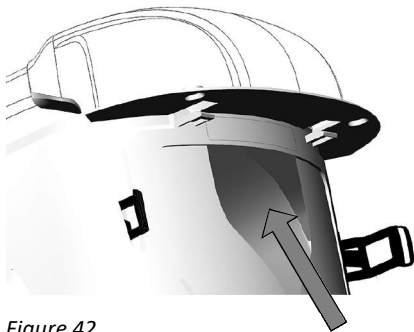


Figure 42

NOTE:

Do not allow any dirt or elements, which may obstruct the air flow to enter the air inlet. (Figure 42)

Make sure that the HEPA filter is fitted correctly into a filter cover housing with filter label facing upwards as fitted to the respirator. (Figure 43)

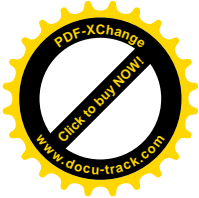


Figure 43

If a spark arrester is to be used ensure it is fitted as shown on page 15.

If pre-filters (PF3000-04-004 or PF3000-04-005) are to be used, these must be placed in the filter housing before the HEPA filter is fitted as shown on pages 15 - 16

Fit new HEPA filter before refitting the filter cover into its original position on the respirator.



PureFlo 3000H/ PureFlo 3000B

DISPOSAL

Disposal of respirator

This product should not be mixed with general household waste. For proper treatment, recovery and recycling, please take this product(s) to designated collection points where it may be accepted free of charge.

Alternatively, in some countries you may be able to return your products to your local retailer upon purchase of an equivalent new product.

Disposing of this product correctly will help save valuable resources and prevent any potential negative effects on human health and the environment, which could otherwise arise from inappropriate waste handling.

Please contact your local authority for further details of your nearest designated collection point.

Penalties may be applicable for incorrect disposal of this product, in accordance with your national legislation.

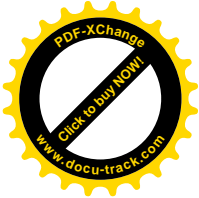
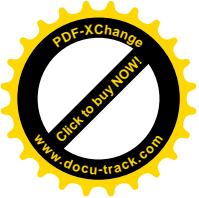
Alternatively, please contact your dealer or supplier for further information.

Disposal of rechargeable battery

Dispose in accordance with all applicable regulations.

Disposal of contaminated filter

Dispose in accordance with all applicable regulations.



TROUBLESHOOTING

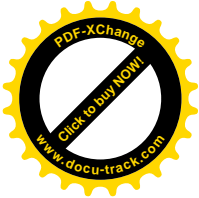
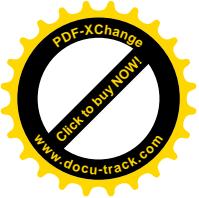
Problem	Possible Reasons	Corrective actions
LED is fast flashing RED when switched on	Low battery	Remove battery and charge
LED is slow flashing RED when switched on	Air flow too low	Remove HEPA filter and replace
LED does not illuminate when switched on	Battery is drained	Remove battery and charge
	Respirator is faulty	Return to service centre for repair
Headband does not tighten	Adjuster damaged	Replace headband
	Ratchet damaged	Replace headband
Battery charger does not switch on or charge the battery	Mains electrical supply not active	Check mains electrical supply
	Fuse in plug blown (if applicable)	Replace fuse
	Vehicle/site power supply not active	Check vehicle/site power supply
	Fuse in 12V plug broken	Replace fuse
	Battery damaged	Replace battery

Table 7

STORAGE (excluding battery)

The respirator should be stored in dry, clean conditions away from direct sunlight, sources of heat, petrol and solvent vapours. Store in accordance with the guide below.

Respirator should be stored in the bag provided, when not in use.



PureFlo 3000H/ PureFlo 3000B

TECHNICAL SPECIFICATION

Weight	Nominal 1.5kg Weight may increase with certain accessories fitted.
Head Size Range	53.5 cm – 63.5 cm
Airflow	Initial flowrate: >220 l/min Minimum flowrate: 190 l/min

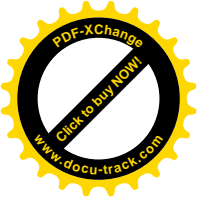
Environmental range (storage and use, excluding battery)

Humidity	0-90% for storage and use (Store out of direct sunlight.)
Temperature Range	Use +5°C to +40°C Storage -20°C to +50°C

Power supply

WARNING: General precautions for using Lithium-Ion batteries apply.

Battery Pack	Single cell Lithium-Ion battery
Capacity	nominal 3500mAh discharge at 0.2C
Nominal Voltage	3.6V±5%
Standard Charge Voltage	4.2V±1%
Ambient temperature	+5°C... +40°C charge -20... +60°C discharge -20...+30°C storage max. 1 year
Standards	UN 3480, CE, UKCA
Battery life	Respirator is supplied with 2 batteries. If fully charged, each battery provides power for min 4 hours respirator performance.
Charging	Mains charger, max. 2 hrs from fully discharged



PureFlo 3000H/ PureFlo 3000B

Battery Charger

Input	100 - 240 volts AC / 50 - 60 Hz 10V-16DC
Output	3.7 volts DC / 2100 mA
Operational Temperature	-15°C... +50°C
Charging Temperature	+5°C... +40°C
Storage Temperature	-15°C... +50°C
Case Protection	IP41

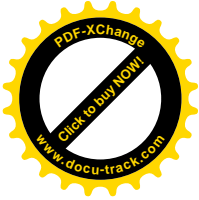
Filters

TH3P R SL	For use against solid and liquid aerosols
R	Reusable
SL	Solid Liquid Aerosols

PureFlo® DECONTAMINATION RETURN PROCEDURE

WARNING: Never use pressurised air on any part of the respirator.

Please contact Customer Services to confirm decontamination and return procedures.

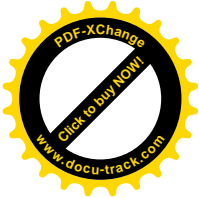


PureFlo 3000H/ PureFlo 3000B

SPARE PARTS

Description	Type	Part Number
Battery	Spare	PF3000-03-003
Battery charger (unit only)	Spare	PF3000-03-004
AC power cable (EU)	Spare	PF3000-03-008
AC power cable (UK)	Spare	PF3000-03-009
AC power cable (AUS)	Spare	PF3000-03-010
Battery charger kit (UK)	Spare	PF3000-03-048
Battery charger kit (EU)	Spare	PF3000-03-049
Battery charger kit (AUS)	Spare	PF3000-03-050
High Efficiency Particulate Air Filter (HEPA)	HEPA Filter	PF3000-02-001
Filter cover retaining clips	Spare	PF3000-03-006
Filter cover - Blue	Spare	PF3000-03-082
Filter cover - Black	Spare	PF3000-03-083
Face seal	Spare	PF3000-03-093
Comfort pad kit	Spare	PF3000-03-091
Headband assembly	Spare	PF3000-03-092
Face shield (EU/UK)	Spare	PF3000-03-001
Face shield (AUS)	Spare	PF3000-03-002
Cleaning plugs	Spare	PF3000-03-014
User instruction manual	Spare	PF3000-03-076
Battery charger instruction manual	Spare	PF3000-03-036
Protective carrier bag	Spare	PF3000-03-017

Table 8



PureFlo 3000H/ PureFlo 3000B

ACCESSORIES

Description	Type	Part Number
Odour pre-filter	Accessory	PF3000-04-004
Pre-filter	Accessory	PF3000-04-005
Tear-off visor protective film x 10	Accessory	PF3000-04-009
Disposable wipes PUREWIPE	Accessory	PR01110SP
Ear defender infills	Accessory	PF3000-04-017
Ear defenders SNR 28	Accessory	PF3000-04-001
12V power cable	Accessory	PF3000-04-008
COSHH data sheet for rechargeable battery	Accessory	PF3000-04-007

Table 9