

Walcom[®]

G20-V

Powered Air Purifying Face Shield (Hard Hat) manual

* Designed to be used with PAPR svstem



<https://walcom.shop/>

SAFETY WARNINGS - READ BEFORE USING



WARNING

Read & Understand All Instructions Before Using



WALCOM powered air purifying face shield has a compact shape and a balanced center of gravity. Used together with PAPR system, the overall filtration efficiency is as high as 99.997%. It is convenient, comfortable and easy to adjust, providing users with comprehensive protection for respiratory, eyes and face, head, and hearing (requires noise-cancelling earmuffs).

Please do not raise the visor during usage, failure to follow this instruction to use this product may seriously affects the user's health.



WARNING



- Use of this product for other operations, such as laser welding/cutting, can result in permanent eye damage and loss of vision.
- This product is not suitable for protection against X-rays, Gamma rays, high energy particulate radiation, lasers and masers.
- Pls make sure the protection film be removed before use.
- Inspect the face shield before use to make sure it is fully assembled and well- functioned, to ensure safety.
- Check before use to determine whether this product is suitable for your application.
- Replace the protective visor immediately if pitted, scratched or broken, otherwise it will reduce vision clarity, or reduce impact protection.
- Before using the face shield, ensure that you have read and well understood the instructions. The Warranty Terms don't cover problems such as those caused by: unauthorized modifications; using unauthorized spare parts; abuse; failure to follow the instructions; improper maintenance; repairing.
- It will not provide protection against IR.
- There are only original spare parts (See page 7) to be installed. For information about suitable spare parts please contact the dealer or manufacturer.
- The duration of use depends on various factors such as use, cleaning storage and maintenance. Frequently inspections and replacement if it is damaged are recommended.
- Materials which may come into contact with the wearer's skin could cause allergic reactions to susceptible individuals.
- Eye-protectors against high speed particles worn over standard ophthalmic spectacles may transmit impacts, thus creating a hazard to the wearer.
- If protection against high speed particles at extremes of temperature is required then the selected eye-protector should be marked with the letter T immediately after the impact letter, i.e. FT, BT or AT. If the impact letter is not followed by the letter T then the eye protector shall only be used against high speed particles at room temperature.
- If the symbol F, B and A are not common to both the ocular and the frame, then it is the lower level which shall be assigned to the complete eye-protector.
- The optical class 3 oculars are not intended for long term use.
- For a face shield to comply with field of use symbol 8, it should be fitted with a filter of scale number 2-1,2 or 3-1,2 and have a minimum thickness of 1,4mm.
- For an eye-protector to comply with field of use symbol 9, both the frame and ocular shall be marked with this symbol together with one of the symbol F, B and A.

- The user shall contact the health and safety representative to ensure he is given the proper protection by the personal eyewear during working conditions.
- Substitute parts, films not included in instruction manual, or spraying or other modifications to face shield will seriously damage the product's protective function and void the warranty, or cause the product's use effect to be inconsistent with protection level and certification.
- Failure to strictly follow all instructions for use and/or to wear product incorrectly throughout exposure can damage wearer's health, resulting in serious or fatal illness, injury, or permanent disability.
- Dispose of waste product parts in accordance with local regulations.

Before / after using G20-V face shield, Check the following items.

- If protective visor is soiled, change the visor.
- Make sure there is sufficient ambient light.
- Replace worn or damaged parts immediately.
- Do not use parts other than those Imported by WALCOM.
- Headgear must be adjusted to fit properly before use.
- Make sure the face seal is securely and properly attached.
- Make sure the breathing tube securely assembled.
- The face shield should be stored in dry, cool area when not using it for long time.



WARNING



Severe personal injury could occur if the user fails to follow the above mentioned warnings, and/or fails to follow the operating instructions.

COMMON PROBLEMS AND REMEDIES

• **Poor vision**

- ① Protective visor is soiled (Change visor).
- ② There is insufficient ambient light.
- ③ Check if removing the film on the visor.



WARNING



The user must stop using the face shield immediately if the above-mentioned problems cannot be corrected. Contact the dealer.

INSTRUCTIONS FOR USE

WARNING! Before using the face shield, ensure that you have read and understood the safety instructions.

• **ADJUST HEADGEAR**

Step 1 : Put the face shield on and adjust the face seal, make sure the face seal fully sealed around the face (See fig.1a).

Step 2 : Adjust the back headgear knob until the face shield fixed on the head properly (See fig.1b).



fig.1a

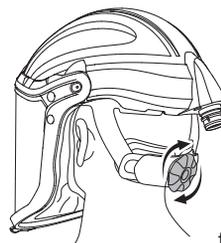


fig.1b

• **FACE SHIELD HEIGHT ADJUSTMENT**

If you feel uncomfortable or unbalanced when wearing face shield, adjust the front and rear attachment positions of the suspension headband to an appropriate position (See fig.2). The suspension headband can be adjusted at four locations: two in the rear and two in the front.

Each location can be adjusted independently for a custom fit.

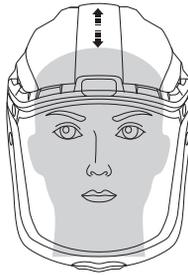


fig.2

Remove the headgear assembly(See fig.3a).

To change the position of the front headband, pull the attachment buckle out of the slot and rotate the buckle 90° clockwise to detach it from the peg. Re-position the peg to another slot on the "ladder" of the buckle, then follow the reverse steps to reinstall the buckle into place (See fig.3b).

To change the position of the rear headband, pull the height adjustment slot off the peg and re-position it to another slot on the "ladder" (See fig.3b).

Put the face shield on to check if it fits comfortably. Repeat the aforementioned steps if necessary.

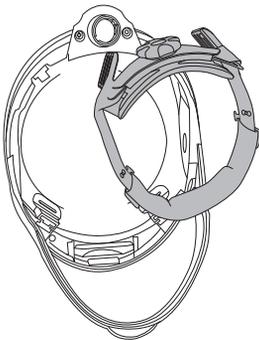


fig.3a

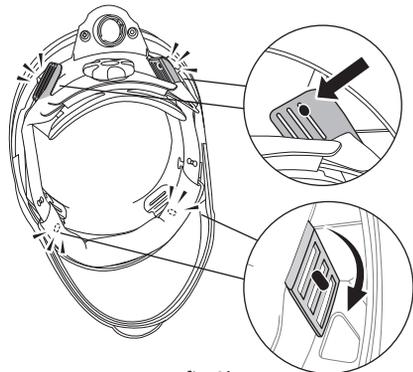


fig.3b

• **AIR FLOW DIRECTION ADJUSTMENT**

Toggle forehead air flow direction adjustment plate to adjust direction of the airflow in face shield to ensure comfortable wearing (2 gears adjustable) (See fig.4).

• **CONNECT HOSE TO HELMET**

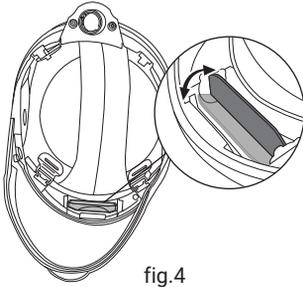


fig.4

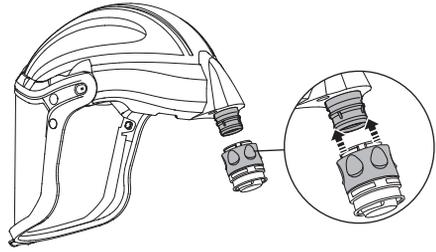


fig.5

MAINTENANCE

• REPLACING PROTECTIVE VISOR

To remove visor: Pull up the latches and remove buckles from both sides (See fig.6a / 6b), keep the parts appropriately. Push the central of visor top edge from internal side, until you hear a "click" to get out the visor (See fig.7a / 7b).

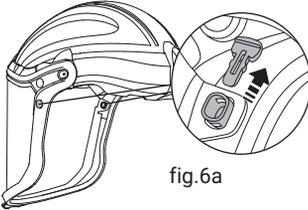


fig.6a

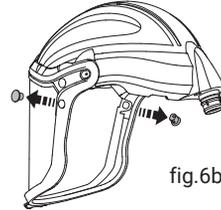


fig.6b

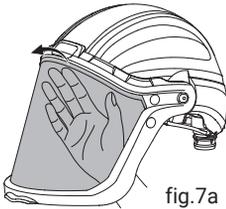


fig.7a

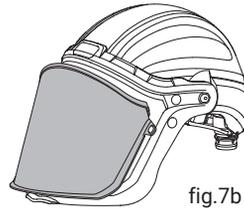


fig.7b

To install visor: Put the one side of the visor into the slot (See fig.8a) and then put the other side of the visor into the slot (See fig.8b / 8c). Press the center of the top edge of the visor inward from the outer side until you hear a "click" sound to fix the visor (See fig.8d). Place the buckles in the position shown and slide down the latches firmly until you hear a "click" sound (See fig.8e).

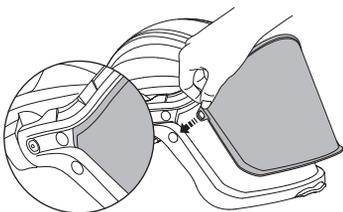


fig.8a

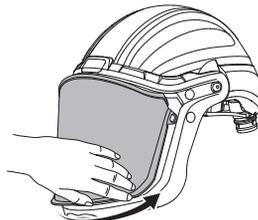


fig.8b

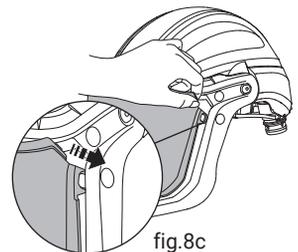


fig.8c

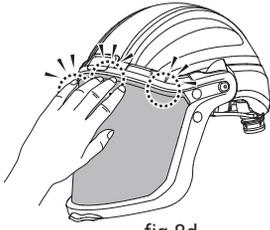


fig.8d

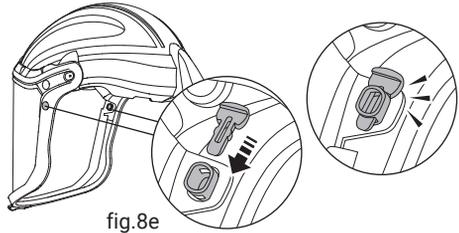


fig.8e

• **REPLACING FACE SEAL**

Fix the edge groove of the face seal to the edge of the outside frame of the face shield (See fig.9a), and press to the arrow direction to complete the installation (See fig.9b), and hang the inner and outer elastic bands on both sides to the “T” hook to fix (See fig.9c).

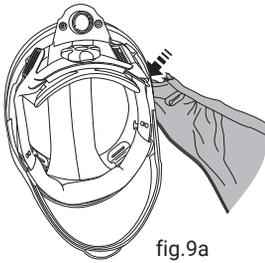


fig.9a

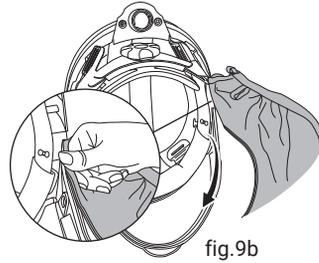


fig.9b

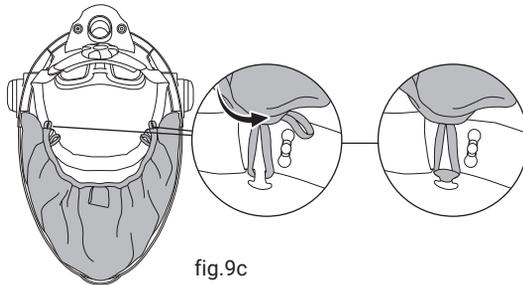


fig.9c

• **SWEATBAND AND BACK PAD REPLACEMENT**

Remove headgear from face shield (See fig.10a / 10b). Replace sweatband and back pad with new one, and then put complete headgear back into face shield (See fig.10c).

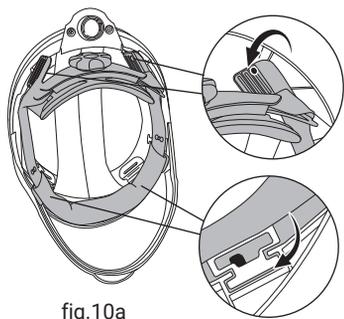


fig.10a

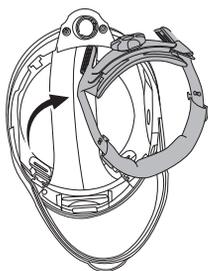


fig.10b

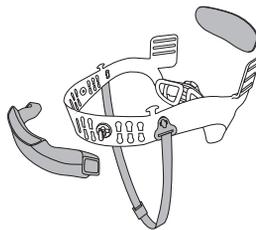


fig.10c

Remove soft band from headgear and replace with a new webbing (See fig.11).

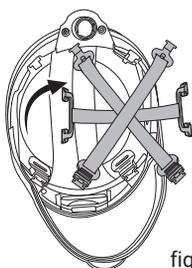


fig.11

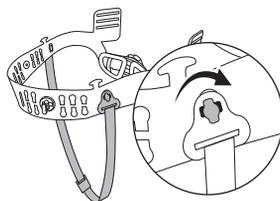


fig.12

• REPLACING VISOR FRAME ASSEMBLY

Push out the button from inside of the visor (See fig.13a), disassemble two buttons from both sides (See fig.13b), remove the visor frame assembly and replace the new one (See fig.13c).

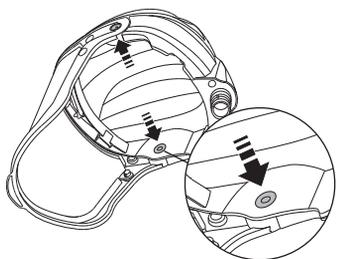


fig.13a

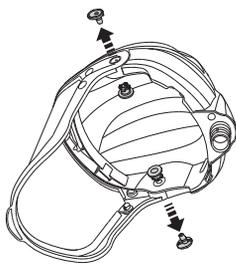


fig.13b



fig.13c

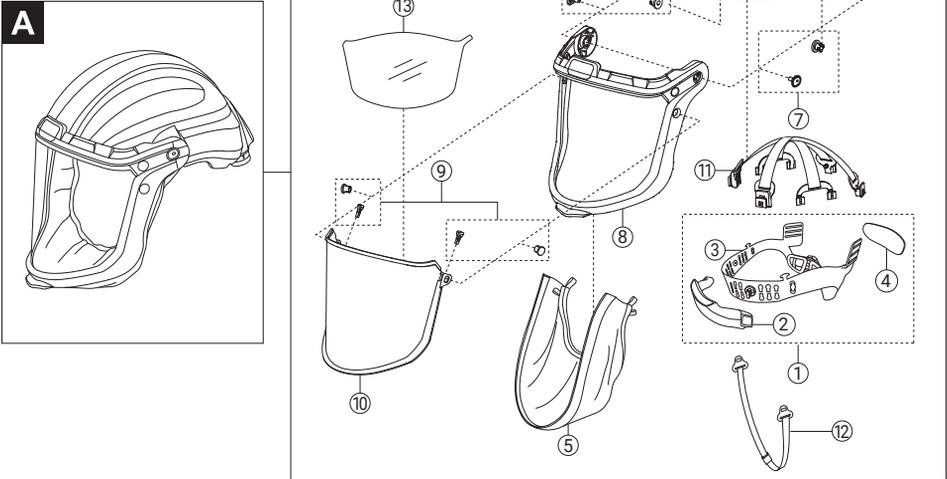
• CLEANING AND DISINFECTION

Clean the face shield by wiping with a soft cloth. Clean the visor surfaces regularly. Do not use strong cleaning solutions. Clean it with methylated spirit and a clean cloth and wipe dry with a lint-free cloth.

TECHNICAL SPECIFICATIONS

Face Shield Model No.:	G20-V
Viewing Area:	426 cm ² (66 sq. in)
Operating Temp.:	-10°C ~ 55°C (14°F ~ 131°F)
Storing Temp.:	-30°C ~ 50°C (-22°F ~ 122°F)
Application Industry:	Painting / Metal processing / Other applications with hot particles
Approval:	EN 166: 2001, EN 397:2012+A1:2012, UKCA, UKNI, EAC

PARTS LIST & ASSEMBLY



ITEM	PART NO.	DESCRIPTION
A-1	G-110	Headgear
A-2	G-101	Forehead sweatband
A-3	G-212	Head suspension
A-4	G-103	Comfort back pad
A-5	G-200	Standard face seal
A-6	G-310	Headtop
A-7	G-301	Headtop buttons
A-8	G-302	Visor frame assembly
A-9	G-303	Visor frame buttons
A-10	G-400	Protective visor
A-11	G-114	Ribbon
A-12	G-105	Chin strap
A-13	G-401	Disposable protective film for the visor



ExFlow E4-T

Powered Air Purifying Respirator User Instructions



Read all instructions and warnings before use. Users must understand this booklet prior to use. Keep these User Instructions for future reference. If you have questions regarding these products, just feel free to let Walcom know.

<https://walcom.shop/>



WARNING



Do not disassemble or charge the battery pack in hazardous location.

USE FOR

- WALCOM ExFlow Powered Air Purifying Respirator (PAPR) is designed to be used in conjunction with approved headtops, creating a comprehensive system that fully complies with the requirements set forth in EN12941 (Respiratory equipment-Powered Air Purifying Respirator). With the aid of a motor, the PAPR system effectively overcomes air resistance, ensuring the delivery of clean air to the headtop via the breathing tube, after external airborne contaminants have been filtered. A range of diverse filter accessories is available to provide protection against specific pollutants.

ExFlow PAPR offers adjustable airflow, allowing users to tailor the airflow to their precise requirements. Should the PAPR system experience low battery levels or insufficient airflow, dipping below the minimum prescribed rate, an automatic alarm will activate. The ExFlow PAPR system assembly is certified for use in explosive environments. For further information concerning APEX, please refer to the device markings and the technical section provided below.

DO NOT USE FOR

- In environments where airborne contaminants or contaminant concentrations are unknown, or in locations that could immediately result in severe injury or fatality.
- In areas with an oxygen concentration less than 17% (please note that the standard oxygen concentration may vary depending on different countries).
- Please leave the contaminated area immediately if any of the following conditions occur:
 - a. Any part of the system becomes damaged.
 - b. Airflow into the respirator decreases or stops.
 - c. Low airflow or low battery alarm is activated.
 - d. You feel dizzy or aching.
 - e. You can smell or taste the contaminants.
- Do not alter or modify this product. Use only original replacement parts Imported by WALCOM.
- To reduce the potential ignition risk in flammable or explosive atmospheres, batteries must only be changed in known non-hazardous areas. Do not bring the batteries into a potentially flammable or explosive environment.
- The battery charger is not intrinsically safe. Do not disassemble the product, charge the battery pack or replace the battery in hazardous locations.
- Only charge the product with the original charger.

NOTICE

For effective protection against hazardous airborne contaminants, choose the appropriate product sets, provide proper user training, and follow correct product usage and maintenance procedures. Failure to comply with the instructions in the user manual may result in severe health damage or permanent disability when using these respiratory products in contaminated areas.

MARKINGS ON THE EQUIPMENT

 <p>Read the instruction before use.</p>	 <p>Recycle</p>
 <p>Shall be disposed of as electronic waste.</p>	 <p>Expiry date year / month</p>

Walcom®

Model: ExFlow E4-T
Powered Air Purifying Respirator

CE 0035

TÜV 22 ATEX 8883 X
IECEX TUR 22.0053 X

Ex II 2 G
II 2 D
I M2

Ex ib IIC T4 Gb
Ex ib IIIB T135°C Db
Ex ib I Mb
-20°C≤Tas+55°C

CE 2834

EAC

Certified Product



ASINZS 1716:2012

Part No.: ExFlow E401
EN 12941 TH3 P R SL
AS/NZS1716:2012
Operating temperature:
23°F to 131°F (-5°C to 55°C)
TP TC 019/2011 12.4.234-2012
Produced by TECMEN
Details as per Instruction Manual.

WARNING - DO NOT DISASSEMBLE OR CHARGE THE BATTERY PACK IN HAZARDOUS LOCATION

Serial No.:

Manufacture date:

WALMEC S.P.A.

Via Trieste 10, 31025 Santa Lucia di Piave (TV) ITALY



USE IN POTENTIALLY EXPLOSIVE ATMOSPHERES

TÜV 22 ATEX 8883 X – ATEX Certification Number
IECEX TUR 22.0053 X – IECEX Certification Number

Ambient temperature range: -10°C to +50°C

Ex Marking:

Mining susceptible to firedamp (Group I)

Ex ib I Mb

ib – intrinsic safety for Equipment protection level Mb

Non-Mining Gas atmospheres (Group II)

Ex ib IIC T4 Gb

ib – intrinsic safety for Equipment protection level Gb

IIC – Gas apparatus group

T4– Classification of maximum surface temperatures for Group II

Non-Mining Dust atmospheres (Group III)

Ex ib IIIB T135°C Db

ib – intrinsic safety for Equipment protection level Db

IIIB – Dust apparatus group

T135°C - maximum surface temperatures for Group III

“Specific Conditions of Use” :

1. When used in Group I locations, the Powered Air-Purifying Respirator shall not be exposed to Chemicals.
2. Only change battery module in a non-hazardous area.
3. The accessories is not within the certification scope of this certificate, such as breathing tube, belt, etc. Refer to the instructions manual for details.

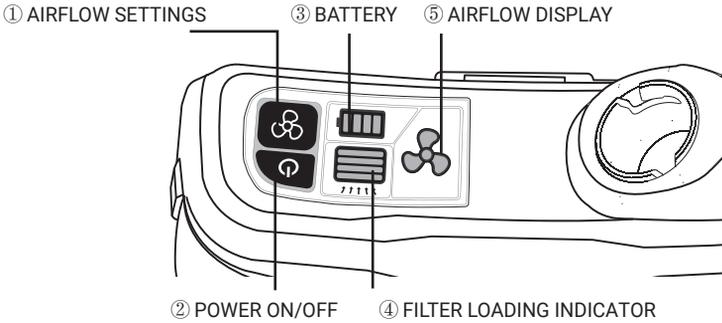
Device markings

- Refer to the headset user instructions for marking information.
- Refer to the “Description and approvals of P3/P3+gas filter” section on page 6 for marking information.
- The marking of WALCOM ExFlow E4-T PAPR motor/blower is EN 12941.

DESCRIPTION & ASSEMBLY

User Interface Guide

1. Airflow settings
Short-press the button to change airflow settings
2. Power on/off
Long-press for 3 seconds
3. Battery
Display the remaining battery of the respirator
4. Filter loading indicator
Display the real-time filter loading of the particle filter
5. Airflow display
Display the real-time airflow setting



Assembly

Filters

1. Inspect the filter before initial or re-installation. Replace damaged parts immediately. Thoroughly inspect the outer plastic shell, including corners and connection points, and replace any damaged parts promptly. If the filter has been mishandled or dropped, re-inspect fully.
2. Optional filters are available for different work requirements. Insert the filters into the slots on the edge of the filter cover, ensuring that the bottom tabs are securely snapped into place. Follow the installation order as specified in the diagram below (pre-filter, particle/combined filter). Always ensure that the filters are correctly installed, and close the outer cover properly.

①: Pre-filter → ②: Particle/Combined filter

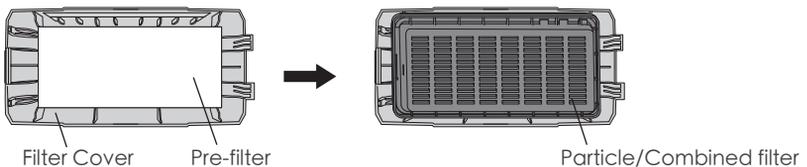


fig.1

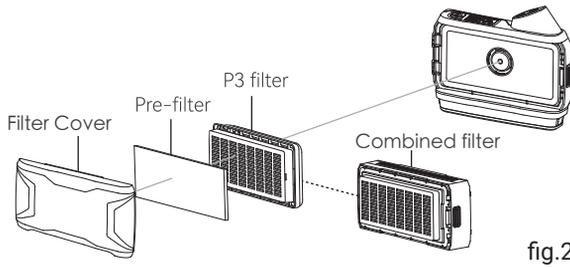


fig.2

Disassemble (only in pollution-free areas)

1. Switch off the product completely before disassembling.
2. Press the push button to disconnect the cover. Reinstall the filter that needs replacement (See fig.2).

Battery

- Press the battery indicator button to display the current charging status. The bars illuminated show the state of charge.
- Insert the battery vertically into the charger base and connect it to the power supply. The 100% indicator will illuminate to indicate a fully charged status (See fig.4).

	WARNING	
<ul style="list-style-type: none"> • Do not disassemble the battery pack in hazardous location. • Only charge the battery pack with charger adaptor from WALCOM 		

- When the battery is low, the battery indicator will flash, and an audible alarm will sound. At this point, please immediately go to a safe workplace. Use the special inner hexagonal spanner provided to remove the battery from the blower (See fig.3).

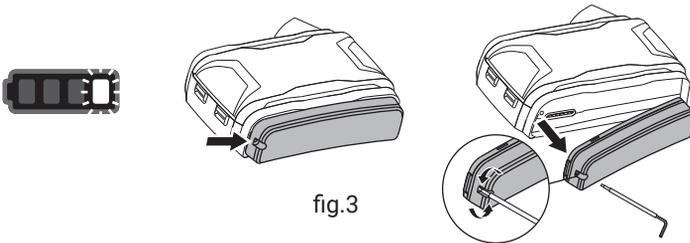


fig.3

Battery charger

Left side indicators: 30%, 80%, 100% charging status.

1 Right side indicator: green for normal charging, red for battery box issue (See fig.4).

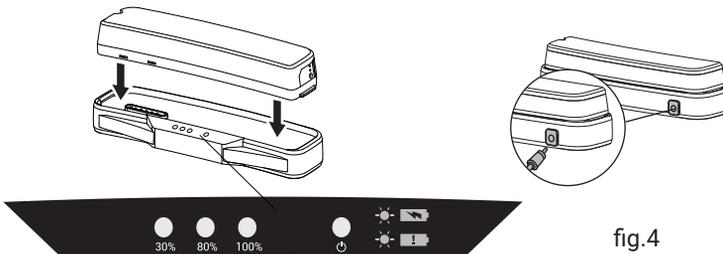


fig.4

Belt

1. With the filter and filter cover installed, position the motor/blower face down on a table with the outlet facing away from you.
2. Align the 4 keyholes on the belt with the 4 metal buttons at the back of the blower unit. Push the belt upward to slide the metal buttons into place, ensuring the plastic tab at the bottom of the blower snaps into the slot on the belt.
3. Gently tug on the belt to verify it is securely attached to the motor/blower unit.
4. Attach the soft pad onto the belt using the 8 snap buttons (See fig.9)
5. Once the blower unit is donned, adjust its position until it feels comfortable and stable.

Note: To remove the belt assembly, follow the reverse steps.

Shoulder strap

Installing the shoulder strap

1. Insert the round lock at the end of the shoulder strap into the slot located just above the back of the blower. You'll know it's securely installed when you hear a "click".
2. Position the shoulder straps as desired and then attach the two hooks to the corresponding holes on each side of the belt (See fig.10)

Removing the shoulder strap

1. Release the chest buckle.
2. Detach the shoulder strap hooks from the respective holes on both sides of the belt.
3. Press and hold the ring on the top of the blower unit's back, then pull out the round lock.

Breathing tube

1. Insert the end of the breathing tube with the bayonet fitting into the air outlet of the motor/blower.
2. Twist the breathing tube to the right to lock it into place.
3. Refer to the User Instructions for the headtop to be used for connecting the breathing tube to the headtop.

Description and approvals of P3/P3+gas filter

PROPERTY	UNIT	RANGE
DOP Smoke Penetration DOP (0.3µm)	% (@5.3cm/s)	0.015
Basis Weight	g/m ²	70
Caliper-7.3psi	mm (@50kPa)	0.35
Air Flow Resistance	% (@5.3cm/s)	289
Tensile strength MD CD	kN/m	1.2 0.6
Gurley Stiffness MD	mg	800
Ignition Loss	%	5.0
Water Repellency	kPa	6.2

INSPECTION



WARNING



It is mandatory to perform a thorough inspection of the following items before using the respirator. Failure to do so may cause fire or explosion or could adversely affect respirator performance and result in injury, sickness, or death.

The PAPR system

Check if the respirator is in good condition and properly assembled, ensuring there are no signs of wear or damage. Any damaged or defective parts must be replaced only with original replacement parts Imported by WALCOM. Before use, please closely inspect the headtops Make sure the pre-filter and particle filter (or combined filter) are properly installed and securely latched.

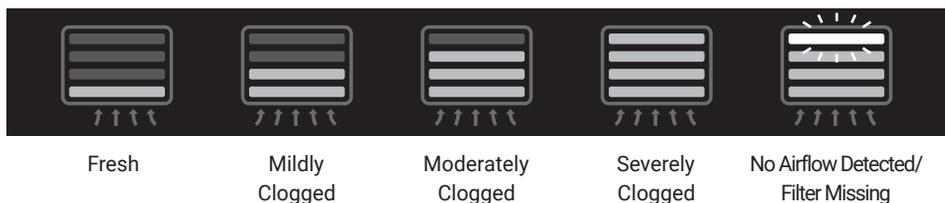
Battery

Thoroughly inspect the outer shell, connection points, the electric contact. Ensure the battery is securely connected to blower unit. Replace the battery if there is any sign of damage.

Make sure the battery is fully charged before each use. Charge the battery before the first use following the provided procedure.

Filter loading

The service life of the filter is influenced by the specific environment in which it is used. Filter loading is indicated by the 4 LED bars, as illustrated in the diagram. When the filter becomes clogged, the device will flash, emit an audible alarm and vibrate, alerting the user to leave the contaminated area immediately and replace the filter.



Breathing tube

Ensure the breathing tube is undamaged and securely attached to both the blower unit and the headtop. Replace the breathing tube if any damage is noted.

Alarm system

- Ensure the alarm system and airflow indicator are functioning properly before use, and check that the particle filter and battery are correctly installed with sufficient remaining battery.
- Attach the airflow indicator to the air duct of the blower unit. To test the alarm, switch on the blower unit and cover the air duct of the airflow indicator. You will hear an audible alarm and see the green light flashing. The alarm should stop if you remove your hand (See fig.5)

Airflow check

- WALCOM ExFlow E4-T PAPR is pre-calibrated to provide the necessary airflow. It compensates for variations in air density caused by elevation and temperature changes.
 - Use the airflow indicator to confirm that the minimum required airflow is achieved before use. Run the PAPR for 1 minute to establish a stable airflow, then insert the airflow indicator into the outlet of the blower unit. Position the airflow indicator vertically and ensure that the bottom of the floating ball remains at or above the minimum airflow indication line.
 - Keep the airflow indicator vertically aligned with your eye level for an accurate reading. Wait for 3-5 minutes until the floating ball stabilizes. Check if the floating ball is at or above the marking on the airflow indicator (See fig. 6)
- *Please note that the airflow indicator may not provide accurate readings when used at low-altitude locations.

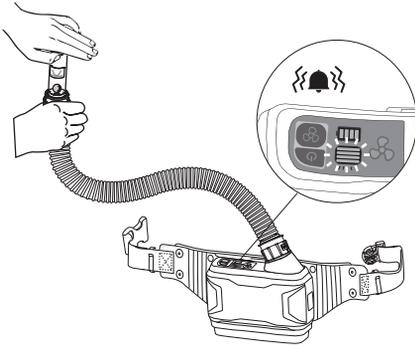


fig.5

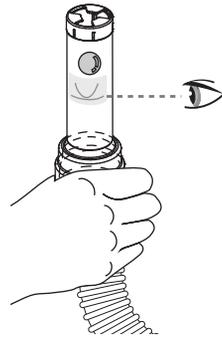


fig.6

OPERATING INSTRUCTIONS

Donning

- Attach one end of the breathing tube to the headtop and the other end to the blower unit's outlet. Twist the bottom end of the breathing tube to securely lock it into place (See fig.7).
- Tighten and secure the belt or shoulder strap according to the instructions provided in the diagram (See fig.8).

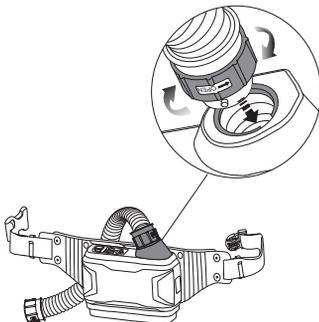


fig.7

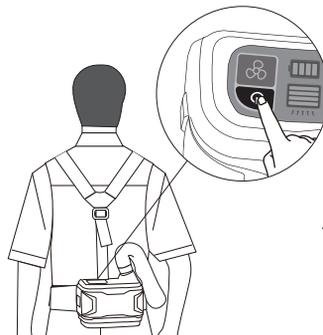


fig.8a

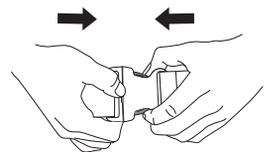


fig.8b

- Wear and adjust the headtop according to the the user instructions provided with the applicable headtop.
- Press and hold the on/off button for 3 seconds to power on the blower unit .

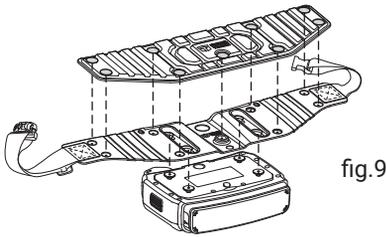


fig.9

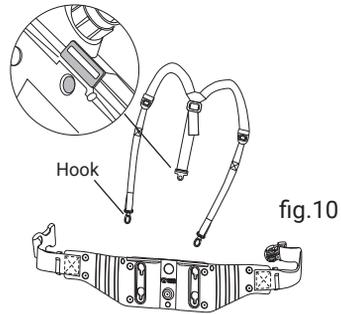


fig.10

Changing Airflow

- When the PAPR is running, it will stay powered on and deliver airflow at the standard flow rate. To switch the airflow setting, press and hold the button for 1 second (See fig.11).



fig.11

DISPLAY	SOUND	INDICATION
	---	Standard flow
	---	Medium flow
	---	High flow
	Sound and flash alarm	Breathing tube disconnected

*Please note that the particle filter indicator only monitors the condition of the particle filter and does not indicate the service life of the combined filter. Leave the contaminated area immediately if you smell or taste any contaminants.

RESPIRATOR REMOVAL

- Remove the headtop from your head.
- Press and hold the on/off button for 2 seconds to power off the blower unit (See fig.12).
- Release the buckle of the waist strap (See fig.13).

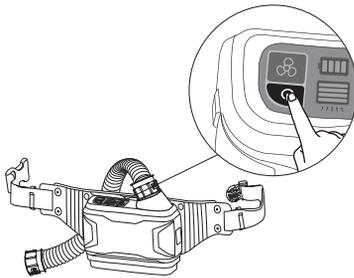


fig.12

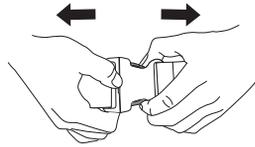


fig.13



WARNING



- Never remove the headtop or power off the PAPR before leaving the contaminated area.
- Ensure that the PAPR is switched off before removing the filter.

MAINTENANCE

CLEANING

Option 1: Clean the device surface using a clean, soft cloth dampened with mild neutral-detergent or household soap. Do not use gasoline, chlorine degreasers (such as trichlorethylene), organic solvents, or abrasive cleaners, as they may damage the device.

Option 2: If you don't need to remove the battery and filters, after detaching the breathing tube, immediately seal the blower air outlet with the outlet plug, spray and clean the blower unit. Ensure all parts are completely dry before reassembly. (See fig.14).

Option 3: If you need to remove the filter, first remove the filter cover, then block the blower's air inlet with the inlet plug. Then detach the breathing tube, seal the blower air outlet with the outlet plug, spray and clean the blower unit. Ensure all parts are completely dry before reassembly. (See fig.15).

1. Do not clean the blower if the battery is damaged.

Clean with neutral detergent solution. Make sure the contact parts are clean and dry

2. before storage and use.

3. Do not clean filters by knocking or blowing if they are meant for reuse.

4. Do not immerse the blower assembly or battery in liquid. Do not wipe the plugs.

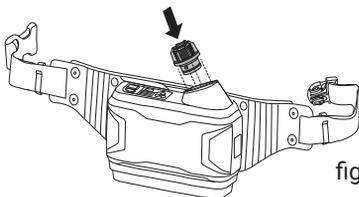


fig.14

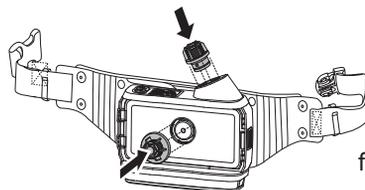


fig.15

MAINTENANCE

Maintenance and repair of the device should be carried out by trained personnel.

CHECKLIST	TIME
Airflow check	Before use
Alarm system check	Before use
Overall system check	Before use
Cleaning	After use
Filter replacement	Depends on the type of contaminants and associated risk levels

ALARM TYPES AND SOLUTIONS

ALARM TYPE	DISPLAY	SOUND	VIBRATION	SOLUTION
Low battery	Red battery indicator light on	Beeps every 35 seconds, each beep lasting one second	Vibrates at a 125 seconds interval, with each vibration lasting 5 seconds	<ol style="list-style-type: none"> 1. Recharge the battery. 2. Battery not correctly installed. Reinstall the battery pack. 3. Battery has exceeded its service life. Replace it with a fully charged new battery. 4. Operating temperature of the battery has exceeded 50°C. Move to an environment with a lower temperature. 5. Check and remove any contamination on the connection part.
Insufficient airflow	Green filter loading indicator flashing	Beeps at a one-second interval, with each beep lasting 0.5 second	Vibrates at a one-second interval, with each vibration lasting 0.5 second	<ol style="list-style-type: none"> 1. Breathing tube blocked. Clean/replace the breathing tube. 2. Filter is blocked. Replace the filter and pre-filter/spark screen. 3. Operating temperature has exceeded the recommended level. Please relocate to a cooler environment.
Filter missing or incorrectly installed	Filter loading indicator flashing red	Beeps at a one-second interval, with each beep lasting 0.5 second	Vibrates at a one-second interval, with each vibration lasting 0.5 second	Replace the filter.
Filter is loaded and need replacement	All green light bars are on accompanied by red warning light flashing	Beeps at a 1.5-second interval, with each beep lasting 0.5 second	Vibrates at a 1.5-second interval, with each vibration lasting 0.5 second	Replace the filter.
Breathing tube missing or incorrectly installed	Fan indicator flashing red	Beeps at a one-second interval, with each beep lasting 0.5 second	Vibrates at a one-second interval, with each vibration lasting 0.5 second	Check if the breathing tube is correctly installed.

STORAGE AND TRANSPORTATION

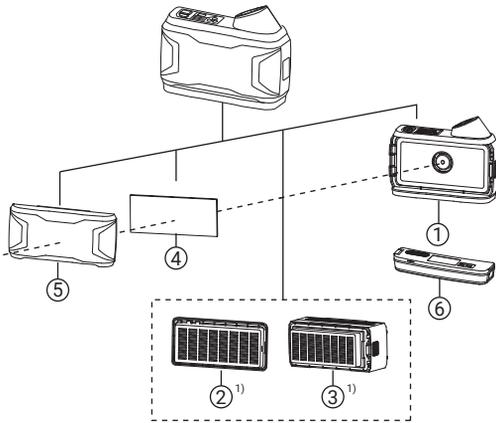
This product should be stored in its original packaging in a dry, clean environment away from sunlight, high temperatures, gasoline, and solvent vapors. Do not store the product outside the temperature range of -20°C to +55°C or in an environment with humidity exceeding 90%. For long-term storage, remove the battery pack from the motor/blower.

RESPIRATOR SPECIFICATIONS

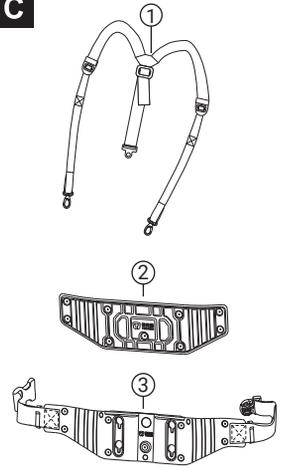
Airflow Rate	Manufacturer's minimum design flow rate: 170+lpm
	Standard speed: 170+lpm
	Medium speed: 190+lpm
	High speed: 210+lpm
Filtration efficiency	99.997%
Battery	6400mAh Rechargeable Li-ion battery
	Charging time: 2.5h
	Battery discharge time: 11h (170L/min) (Fully charged with new particle filter)
	9h (190L/min)
	7h (210L/min)
Altitude	-500~5000m
Operating temperature	-10 °C-50 °C
Weight	Blower: 1469 g waist belt: 307 g
Outer shell rating	IP54
Intrinsic safety	II 2 G;Zone 1,Ex ib IIC T4 Gb
	II 2 D;Zone 21,Ex ib IIIB T135°C Db
	I M2;Category M2,Ex ib I Mb
Filters	The technical specification in this section applies to the pre-filter/P3/A1P3/A2P3/ABEK1P3 filters

PART LIST

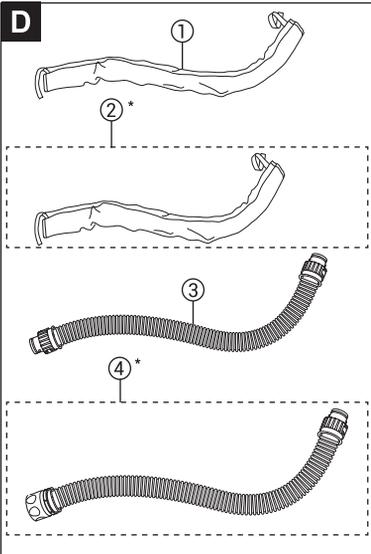
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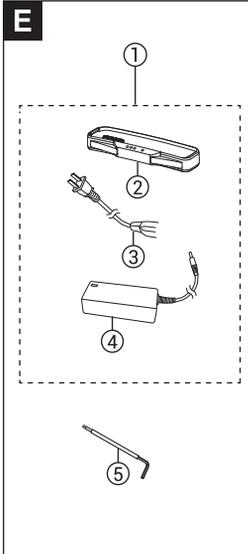
C



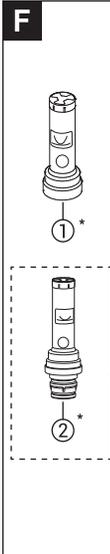
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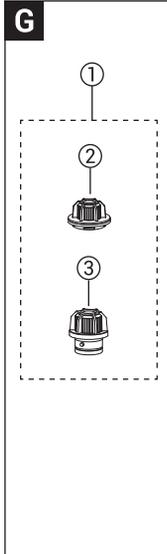
E



F



G



- ¹) Options with * are for reference only; please check the actual product set for accurate information.
 ²) Parts D2 and D3 are designed for different headtops, please choose accordingly for compatibility.
 ³) F-1 is suitable for D-2, F-2 is suitable for D-3, please choose it according to actual match.

PART LIST

ITEM	PART NO.	DESCRIPTION
B. Blower Unit (*denotes alternative(s) available.)		
B-1	ExFlow E401	Intrinsically Safe Powered Air Purifying Respirator Blower Unit
B-2*	ExFlow E203	P3 Filter
B-3*	ExFlow E204	A1B1E1K1P3 Combined Filter
	ExFlow E205	A2P3 Combined Filter
	ExFlow E206	A1P3 Combined Filter
B-4	ExFlow E202	Pre-Filter
B-5	ExFlow E601	Filter Cover
B-6	ExFlow E302	Intrinsically Safe Battery
C. Wears		
C-1	ExFlow E522	Shoulder Strap
C-2	ExFlow E502	Comfort Pad
C-3	ExFlow E501	Easy Clean Belt
D. Hose (*denotes alternative(s) available.)		
D-1	ExFlow E623	Hose cover
D-2*	ExFlow E624	Quick-connection Hose cover
D-3	ExFlow E611	Hose (Including O-ring)
D-4*	ExFlow E621	Quick-connection Hose (Including O-ring)
E. Battery Charger (*denotes alternative(s) available.)		
E-1	ExFlow E314	Single Station Battery Charger Kit
E-2	ExFlow E311	Charger Base
E-3	ExFlow E312	Power Cord
E-4*	ExFlow E313-AU	AC Adapter (AU)
	ExFlow E313-EU	AC Adapter (EU)
	ExFlow E313-UK	AC Adapter (UK)
	ExFlow E313-US	AC Adapter (US)
E-5	ExFlow E901	Battery Attachment Tool
F. Airflow Indicator (*denotes alternative(s) available.)		
F-1*	V1AI TM300	Airflow Indicator
F-2*	V1QAI TM300	Quick-connection Airflow Indicator
G. Storage and Cleaning Kit		
G-1	ExFlow E904	Storage and Cleaning Kit
G-2	ExFlow E905	Inlet Plug
G-3	ExFlow E906	Outlet Plug

*This blower unit is used together with G10/G20-V/TM-H1/TM-H2/TM-H3 headtops.

*Options with * are for reference only; please check the actual product set for accurate information.

WALCOM

Via Trieste 10, 31025 Santa Lucia di Piave (TV) ITALY

WARRANTY

Walcom's only obligation shall be repair, replace or refund the purchase price of such parts or products material and fabrication defects free of charge within the warranty period.

This warranty does not cover to cause by improper handling abuse or application other than recommended in the user instruction.

If you come across any problem during warranty period, contact your distributor, send the defective parts together with the completed defect problem if necessary.

Thank you very much for choosing a WALCOM® product!

For future reference, please complete the owner's record below :

Serial Number :

Purchase Date :