WELDING HELMET WITH TH3 POWERED AIR PURIFYING RESPIRATOR (PAPR) AUTO DARKENING

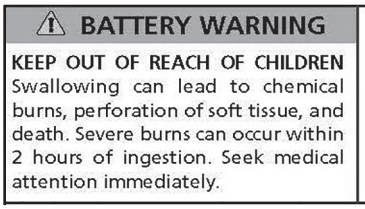
MODEL NO: **PWH618**

Thank you for purchasing a Sealey product. Manufactured to a high standard, this product will, if used according to these instructions, and properly maintained, give you years of trouble free performance.

IMPORTANT: PLEASE READ THESE INSTRUCTIONS CAREFULLY. NOTE THE SAFE OPERATIONAL REQUIREMENTS, WARNINGS & CAUTIONS. USE THE PRODUCT CORRECTLY AND WITH CARE FOR THE PURPOSE FOR WHICH IT IS INTENDED. FAILURE TO DO SO MAY CAUSE DAMAGE AND/OR PERSONAL INJURY AND WILL INVALIDATE THE WARRANTY. KEEP THESE INSTRUCTIONS SAFE FOR FUTURE USE.

Refer to instructions

Charger Indoor use only



WARNING! Button Batteries

1. SAFETY

1.1. ELECTRICAL SAFETY FOR RESPIRATOR

❑ **WARNING!** It is the user's responsibility to check the following:
Check all electrical equipment and appliances to ensure that they are safe before using.
Inspect power supply leads, plugs and all electrical connections for wear and damage.
Ensure that the insulation on all cables and on the appliance is safe before connecting it to the power supply.

× **DO NOT** use worn or damaged cables, plugs or connectors.

✓ Ensure that any faulty item is repaired or is replaced immediately by a qualified electrician.

✓ If the cable or plug is damaged during use, switch off the electricity supply and remove from use.

✓ Sealey recommend that an RCD (Residual Current Device) is used with all electrical products.
Important: Ensure that the voltage rating on the appliance suits the power supply to be used and that the plug is fitted with the correct fuse.

× **DO NOT** pull or carry the appliance by the power cable.

× **DO NOT** pull the plug from the socket by the cable.

✓ Regularly inspect power supply cables and plugs for wear or damage and check all connections to ensure that they are secure.
Important: Ensure that the voltage rating on the appliance suits the power supply to be used and that the plug is fitted with the correct fuse.

✓ Ensure that electrical maintenance, investigation and any repairs are carried out by a qualified electrician.

1.2. GENERAL SAFETY

× **DO NOT** use unit unless you have been instructed in its use by a qualified person.

❑ **WARNING!** It is the user's responsibility to check the following:

× Protection plates/lens that have been subject to impact shall not be used and shall be discarded and replaced.

× If the impact level symbols are not equal on both the lens/filter and the frame, then it is the lower level that shall be assigned to the complete protector.

✓ The protections corresponding to the code numbers/letter 7, 9, CH are provided by the complete protector only if the respective symbols are equal on both the lens and the frame.

× **DO NOT** immerse the filter in water and protect it from contact with liquid and dirt.

✓ The material which may contact the wearer's skin can cause allergic reactions.

✓ Any helmet worn over standard ophthalmic spectacles may transmit impact, thus creating a hazard to the wearer.

× **DO NOT** use this product for overhead welding or cutting.

✓ This product is for eye protection against high-speed particles at room temperature.

✓ The automatic welding filter shall always be used with a backing ocular.
IMPORTANT: Unauthorised modifications and replacement parts will void the warranty and expose the operator to the risk of personal injury.

❑ **WARNING!** If the auto-darkening filter does not darken when the arc ignites, stop welding immediately and inspect the ADF and its power supply. Change if necessary.

× **DO NOT** use any solvents or abrasive cleaning detergent on the filter screen or helmet components.

✓ We recommend a usage period of 4 years. The period depends on various factors such as use, cleaning, storage and maintenance.

✓ Frequent inspections and replacement in case of damage are recommended.

✓ Always wear safety glasses or goggles under the welding helmet and protective clothing to protect your skin from radiation, burns and splatter.

✓ A visual inspection is necessary before every use.

✓ The protection marked in accordance with this standard is only provided when all lens and retention components are installed according top the list or other manufacturers insurrections.

✓ If the helmet, filter or the cover plate is in any way damaged, they must be immediately replaced.

✓ Replace the device after a mechanical impact.

✓ Ensure that repairs are carried out by a qualified technician.

✓ **WARNING:** The airflow must be tested before each use. See section 5.

❑ **WARNING:** Unit contains Lithium Button cell batteries. See section 4, section 11 and fig. 5.
WARNING! This helmet is not suitable for use with laser welding or cutting or for overhead welding applications.

✓ Ensure all workshop safety rules, regulations and conditions are complied with when using welding equipment. The helmet will not offer protection against misuse of workshop tools, equipment, or accessories.

❑ **WARNING!** At very high work rates the pressure in the device may become negative at peak inhalation flow.
❑ **WARNING!** In the power-off state, little or no respiratory protection is to be expected.
❑ **WARNING!** In the power-off state, a rapid build-up of carbon dioxide and depletion of oxygen within the hood may occur.
❑ **WARNING!** The device is unsuitable for use in oxygen deficient atmospheres.
❑ **WARNING! DO NOT** confuse the markings on a filter relating to any standard other than EN 12941 with the classification of this device when used with this filter.
✓ Maintain the helmet in good condition and protect cartridge from liquid and dirt contact. Regularly replace the protective lens and replace any damaged or worn parts. Use genuine parts only. Unauthorised parts may be dangerous and will invalidate the warranty.
✓ Ensure the front cover window is securely in place before use.
✓ Fit the helmet and adjust the head band so the helmet will sit as low and near to your face as possible.
✓ Use unit only in temperatures ranging from -5°C to 55°C. Store unit within temperature range -10°C to +55°C.
✓ Store unit with humidity levels less than 90%.
× **DO NOT** place the helmet on hot surfaces.
✓ Remove ill fitting clothing, remove ties, watches, rings and other loose jewellery.
✓ Maintain correct balance and footing.
✓ Ensure the floor is clear from obstructions, not slippery and wear non-slip protective shoes.
✓ Keep children and unauthorised persons away from the working area.
❑ **WARNING!** The helmet will only protect the eyes and face from radiation and sparks. It will not protect against explosive devices or corrosive liquids.
× **DO NOT** use unit for any purpose for which it is not designed.
× **DO NOT** open or tamper with the shade cartridge.
× **DO NOT** get the helmet wet or use in damp or wet locations.
× **DO NOT** leave work place with helmet in lowered position, as bright light source may darken cartridge unexpectedly.
× **DO NOT** use helmet without front cover window fitted. To do so will invalidate your warranty.
✓ Clean helmet (see section 10) and store the helmet in a safe, dry, childproof location.
❑ **WARNING!** Before welding always inspect the cartridge filter to ensure that it is not damaged. To test the filter prior to welding, direct the front of the cartridge filter to a bright light source which will cause the lens to darken. Then using your hand rapidly cover and uncover the sensor. The filter should lighten momentarily then return to a dark state.
❑ **WARNING! DO NOT** use the unit if damaged or you suspect it may be faulty. See Troubleshooting section.
❑ **WARNING! DO NOT** use if, at any time, the face plate in the cartridge fails to darken when exposed to a welding spark. Remove cartridge and return to your Sealey stockist for checking.
✓ Continued use of the product knowing that the auto darkening feature is not functioning may damage your eyes and cause blindness.
▲ **DANGER**! **DO NOT** wear this respirator system to enter areas where:
1. Atmospheres are oxygen deficient.
2. Contaminant concentrations are unknown.
3. Contaminant concentrations are immediately dangerous to Life or Health.
4. Contaminant concentrations exceed the maximum use concentration determined using the assigned Protection Factor for the specific respirator system.

✓ Work in confined space only if it is well ventilated, or while wearing an air-supplied respirator. Always have a trained watch-person nearby. Welding fumes and gases can displace air and lower the oxygen level causing injury or death.
✓ **DO NOT** weld in locations near degreasing, cleaning, or spraying operations. The heat and rays of the arc can react with vapours to form highly toxic and irritating gases.
× **DO NOT** weld on coated metals, such as galvanized, lead, or cadmium plated steel, unless the coating is removed from the weld area, the area is well ventilated, and while wearing an air-supplied respirator. The coatings and any metals containing these elements can give off toxic fumes if welded. Respirator (papr) misuse can be hazardous. Welding produces fumes and gases. Breathing these fumes and gases can be hazardous to your health.
✓ Read and follow these instructions and the safety labels carefully. The powered air purifying respirator (PAPR) helps protect the user from specific airborne contaminants but must be used correctly to be fully effective. Have an industrial hygienist test the air in your facility to ensure the PAPR provides adequate protection from contaminants in your environment. If you have questions about the respirator, see equipment warning label and consult your Safety Director and a certified Industrial Hygienist.
× **DO NOT** use the powered air purifying respirator where there is danger of fire or explosion.
× **DO NOT** use the powered air purifying respirator in windy conditions or negative pressure inside the hood may draw in contaminants from the outside air.
× **DO NOT** use the powered air purifying respirator without a properly installed spark guard cover. Without the spark guard cover, welding sparks may ignite the filter, or damage the filter and allow unfiltered air into the helmet.
✓ The powered air purifying respirator does not supply oxygen. Use the respirator only in atmospheres for which it is approved.
✓ **DO NOT** use the respirator where oxygen levels are 19.5% or lower, where contaminant levels are unknown or are immediately dangerous to life or health, or where the contaminant levels exceed the respirator specifications.
× **DO NOT** enter a hazardous area until you are sure the respirator equipment is correctly assembled, working properly, and properly worn.
✓ Before each use, inspect the respirator equipment for damage and verify it operates properly, Before using the respirator, test air flow to verify it is providing an adequate volume of air.
× **DO NOT** use the powered air purifying respirator without all filter components or with the blower turned off, as hazardous levels of oxygen and carbon dioxide may accumulate in helmet.
✓ Always wear the powered air purifying respirator when entering a contaminated area. **DO NOT** remove the respirator until outside the contaminated area.
✓ Dangerous contaminants may not smell or be visible. Leave the area immediately if you notice the following:
- Breathing becomes difficult.
- You experience dizziness, impaired vision, or eye, nose, or mouth irritation.
- The powered air purifying respirator alarm sounds.
- The equipment is damaged.
- Air flow decreases or stops.
- If you think the equipment is not supplying adequate protection.

- × **DO NOT** remove the equipment until you are in a safe area.
- × **DO NOT** repair, modify, or disassemble the powered air purifying respirator or use with parts or accessories not supplied by the manufacturer. Use only those components that are part of the approved assembly.
- ✓ Replace damaged or clogged filters. **DO NOT** wash or reuse filters. **DO NOT** clean filters by tapping or with compressed air or filter elements may be damaged and the equipment will not give the expected protection and the warranty will be invalidated. Dispose of used filter elements according to local, regional and national requirements.
- ✓ The powered air purifying respirator must be used with the helmet, hood, and filters recommended by the manufacturer to provide a respirator system.
- × **DO NOT** use the powered air purifying respirator belt or shoulder straps(if equipped) as a safety harness.

2. INTRODUCTION

PAPR (Powered Air Purifying Respirator) system with auto darkening welding helmet. Large viewing area of 108mm x 74mm and two panoramic side view lenses. True colour technology for improved depth perception, allowing far greater welding precision. Digital control panel easily switches between modes and set delay, sensitivity and shade settings. Also includes memory save function to preset and save up to 10 personalised settings. Lithium battery powered respirator unit provides the user with a constant filtered stream of air to their head and face for up to approximately 6hrs on the highest setting. The filter is designed to reduce or remove dust and particles but not vapours and gases. The kit meets performance class TH3 (Less than 0.2% inward leakage) according to EN 12941:1998/A2:2008. Adjustable airflow settings of 170/200L and 230L min. Features an audible alarm to alert user of low battery/low airflow. Welding helmet has adjustable shade control from 9-14 and 5-8. Fully automatic switching from light to dark on striking arc @ 1/25,000s. Suitable for MIG, TIG MMA/arc welding, cutting and grinding. Complies with all EN 379, EN 175, EN 12941 and DIN standards.

3. SPECIFICATION

Model No.: PWH618 - PAPR Specification	
Airflow Settings:	Adjustable 170/200/230L/min
Charging Time:	2hr
Working Time:	6hr
Filter:	TH3 P R SL

Model No.: PWH618 - Helmet Specification	
Nett Weight	3.5kg
Operating Temperature:	-10°C to 60°C
Operating Time Light/Dark	0.04-2.0s (Digital Control)
Power:	Lithium Cell Battery
PPE Category:	I
Shade Active:	Weld- 9 -13, Cut- 4-8, Grind - 3
Viewing Area:	108 x 74mm
Headfor`m size	Medium 1-M

fig.1

Respiratory Protective Device:
Notified Body ; 0082
Type Examination Certificate Number ; 008_3925_079_10_24_0508
Carried out by ; Apave, France.

Eye and Face Protection:
Notified Body ; 1183
Type Examination Certificate Number ; C3904.1YXE
Carried out by ; ECS – European Certification Service

Applicable standards:
EN 16321-2 + EN 12941 + EN 62368-1:2014 + PAS 7055

4. HELMET

4.1. HELMET ADJUSTMENT (fig.2)

NOTE: Consider environmental conditions where helmet is being used and be aware of use in these conditions, stop using if feeling fatigued or unwell.

- ❑ **WARNING!** Before using the helmet for welding make sure you have read and understood the safety instructions in Section 1.
- ✓ Make sure there is no dust on any sensor.
- ✓ Set the exact mode that you need.

If the battery icon is flashing, please change the battery before use. See section 4, section 11 and fig. 5.

NOTE: Consider environmental conditions where helmet is being used and be aware of use in these conditions, stop using if feeling fatigued or unwell.

- ✓ Make sure there is no dust on any sensor.
- ✓ Set the exact mode that you need.

fig.2

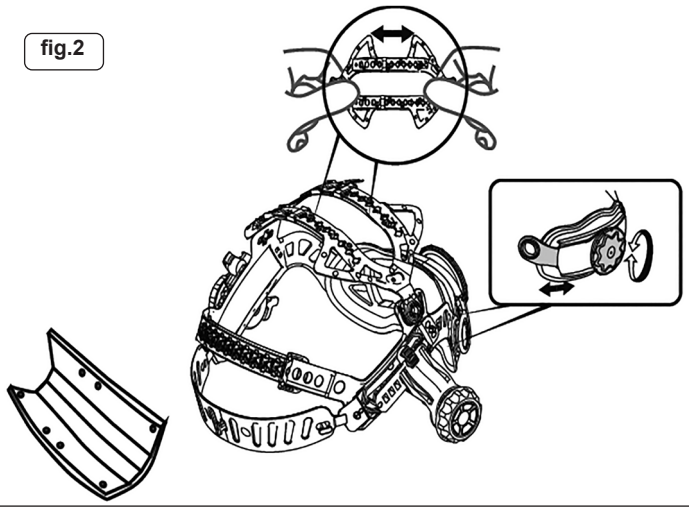
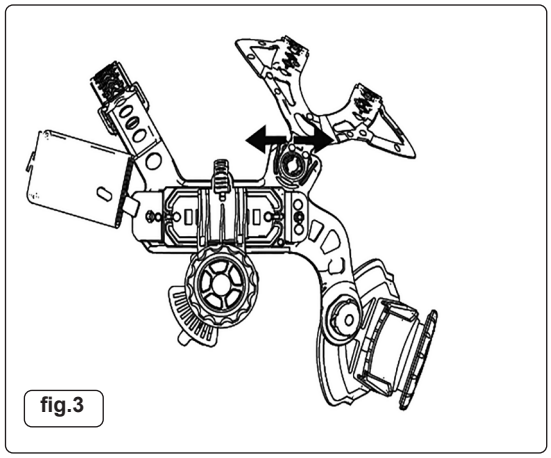
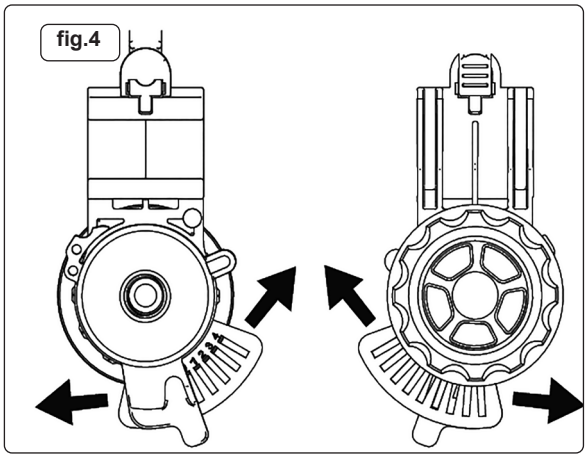
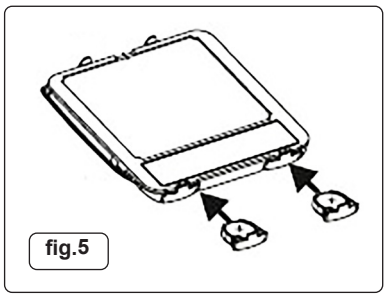


fig.1







4.1.1. The circumference of the headband is adjusted by turning the wheel on the rear (fig.2).
4.1.2. The two top straps can also be adjusted by releasing the pin from the top strap and adjusting as required (fig.2).
4.1.3. The distance between the headband assembly and the helmet can be adjusted by loosening the external thumbwheels both sides (fig.2), and sliding the headband assembly forwards or backwards (fig.2) after depressing and releasing the tabs to allow movement as required. Retighten the thumbwheels.
4.1.4. The rotational position of the unit can be adjusted by loosening the external thumbwheels both sides, depressing the tabs (fig.3) and rotating the frame to relocate in alternative locations.
4.1.5. Test the fit of the helmet by lifting it up and closing it a few times whilst wearing it. If the headband moves whilst tilting, readjust it until it is stable.
4.1.6. Install the two button batteries into the APF unit as shown in fig.5.

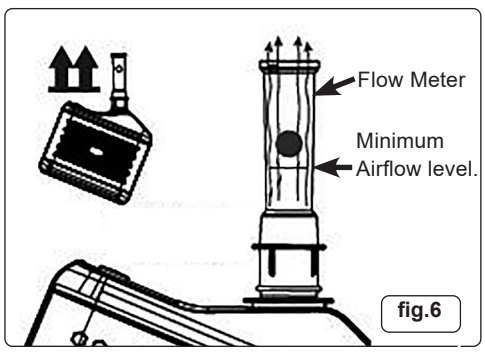
5. RESPIRATOR

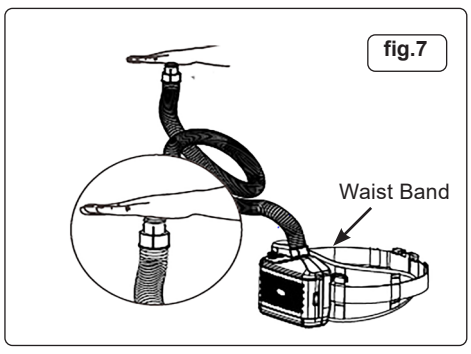
5.1. AIRFLOW TEST (fig.6)

5.1.1. Disconnect the breathing tube from the Blower unit.
5.1.2. The airflow must be tested before use.
Insert the flow meter into the hose connector and keep the flow meter in a vertical position at about the eye level.
5.1.3. Switch the power on.
5.1.4. The airflow is sufficient only if the ball indicator reaches the minimum airflow rate level.
5.1.5. If the ball can't reach the minimum flow level, do NOT use the system. Change the filter or the battery and retest the air flow.
5.1.6. If the problem still persists, see "Trouble shooting" for additional suggestions.

5.2. AIRFLOW ALARM TEST (fig.7)

5.2.1. Press the blower "ON" button.
5.2.2. Cover the air output with your hand until alarm sounds and the blower vibrates.
5.2.3. If the alarm does not work, please repair or change the device.





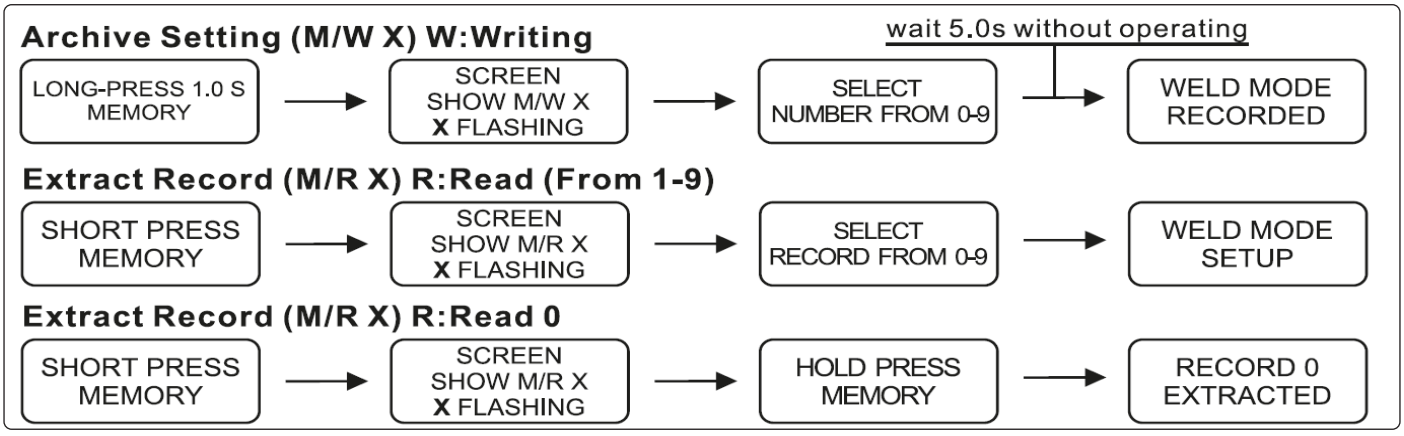
5.2.4. Connect the breathing tube between the units by inserting the quick release swivels to the air ducts.
5.2.5. To disconnect, depress the button on the ends of the quick release swivels.
5.2.6. Pass waist band (fig.7) through loops on blower body and clip shoulder straps to the loops on the belt. Adjust belt length to suit.

6. OPERATION

6.1. The Auto Darkening Filter has 4 Modes of operation The modes are CUT (shade 4-8), WELD (shade 9-13) / WELD (shade 9-14), GRIND and DARK. See Control panel (section 7.5, fig.8).

6.2. To set operation to GRIND depress MODE button repeatedly until the GRIND indicator light is on and the screen displays “GRIND”.
6.3. Refer to FUNCTIONS section 6.5 for further functions and means of instigating them.

6.4. HELMET MEMORY FUNCTIONS



6.4.1. Check the operating panel using MEMORY and ▲ or ▼buttons.

6.5. FUNCTIONS

fig.1

FUNCTION	ADF	OPERATING-UI PANEL	USAGE
Sensitivity	Without Auto Function	Press FUNC. and ▲▼.	**Level 9:** for special welding that needs super sensitivity. **Level 8:** for most applications but especially for low current welding work. **Level 0:** only in some specific surrounding lighting conditions in order to avoid unwanted triggering.
	With Auto Function	Press SHADE HOLD:AUTO and ▲▼.	
		Hold SENSI. HOLD:AUTO.	Sensitivity is automatically adjusted with deviation ±2.
Delay	Without Auto Function	Press FUNC. and ▲▼.	**Level 9:** 2.0s is suitable for most applications, especially for high amps current application and longer welding interval. **Level 1 & 2:** suitable for spot welding. **Level 0:** Tack mode
	With Auto Function	Press DELAY HOLD:AUTO and ▲▼.	
		Hold DELAY HOLD:AUTO.	Delay is automatically adjusted with deviation ±2.
Shade	Without Auto Function	Press FUNC. and ▲▼.	Adjust the shade by your experience or according to chart recommended.
	With Auto Function	Press SHADE HOLD:AUTO and ▲▼.	
		Hold SHADE HOLD:AUTO.	Shade is automatically adjusted with deviation ±2.
	All Series	Hold SHADE HOLD:🔒/🔓.	Shade locked at the desired level.
		Press MODE and select **DARK** mode.	
		Press ▲▼ simultaneously, main window locked.	
		Hold press GRADIENT HOLD:🔒SIDE, side window locked.	
Gradient	Without Auto Function	Hold FUNC. HOLD:GRADIENT.	Offering a gradual recovery from dark to light (not suitable for tack mode and spot mode).
	With Auto Function	Press GRADIENT HOLD:🔒SIDE or GRADIENT.	

6.6. SHADE GUIDE TABLE

Process	Current A																				
	1.5	6	10	15	30	40	60	70	100	125	150	175	200	225	250	300	350	400	450	500	600
Covered elecreodes	8							9		10		11		12			13			14	
MAG	8							9		10		11			12			13			14
TIG	8					9			10		11			12			13				
MIG with heavy metals	9									10			11			12		13		14	
MIG with light alloys	10										11			12			13		14		
Air-arc gouging	10										11		12			13		14		15	
Plasma jet cutting	9									10		11		12			13				
Microplasma arc welding	4		5			6		7		8		9		10			11			12	
	1.5	6	10	15	30	40	60	70	100	125	150	175	200	225	250	300	350	400	450	500	600

7. OPERATION

7.1. SHADE VALUE

7.1.1. The shade value ranges are divided into two sections (5-8 or 9-13). The shade range can be set to either 5-8 or 9-13 using the Shade control function as described in section 6.5.

7.1.2. Check the Shade Guide table (above) to determine the proper shade number for your application. The shade goes darker from 5 to 8 or from 9 to13.

7.2. SENSITIVITY CONTROL

7.2.1. The sensitivity can be set from LOW (level 0) to HIGH (level 9) by using the sensitivity control dial as described in Section 6.5. The LOW setting suits excess ambient light or with another welding machine close by. The HIGH setting suits low amperage welding and welding in areas with low light conditions, especially low amperage argon arc welding. Selections between LOW and HIGH are suitable for most of indoor and outdoor welding operations.

7.3. DELAY CONTROL

7.3.1. When welding ceases, the viewing window automatically changes from dark back to light but with a pre-set delay to compensate. The delay time can be set from MIN (0.2 sec) to MAX (1.0 sec) by shade delay control as described in Section 6.5. The minimum delay suits spot or short welds. The maximum delay suits heavy current welding and reduces eye fatigue from the arc. Selections between MIN and MAX are suitable for most of indoor and outdoor welding operations.

7.4. GRINDING

7.4.1. To select between grinding and welding operations depress MODE button repeatedly until the GRIND indicator light is on and the screen displays “GRIND”.

7.4.2. **NOTE:** It is important to return this switch to the WELD position when the grinding operation is completed.

7.5. CONTROL PANEL (fig.8)

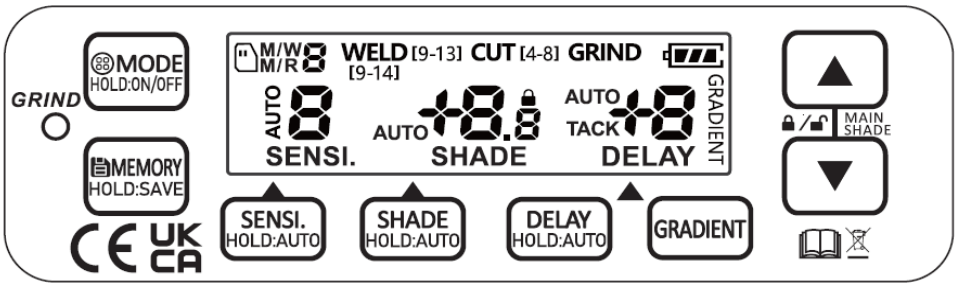


fig.8

8. RESPIRATOR

8.1. BATTERY

8.1.1. To remove battery, unclip the latch (fig.9) and lift out the battery.

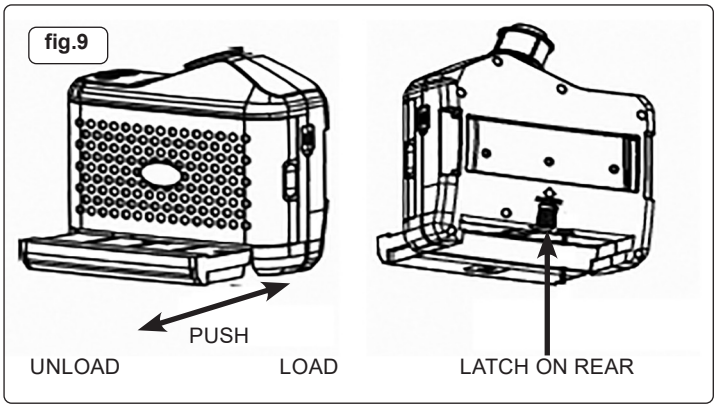
8.1.2. **CHARGING**

❑ **WARNING! ALLOW THE BATTERY TO COOL BEFORE CHARGING**

8.1.3. Plug charging lead into battery. Plug mains lead into battery charger unit and connect to mains supply.

8.1.4. When the battery is fully charged the indicator light will turn green.

NOTE: When the battery charge level is low, the unit will beep twice quickly repeatedly. Leave the area immediately.



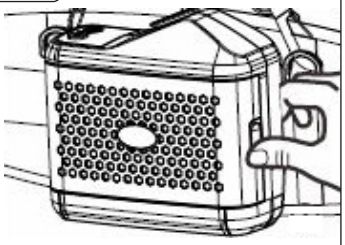
8.2. FILTER

8.2.1. To remove the filter, unclip the latch (fig.9) and lift out the filter assembly.

fig.10

Spark Guard | Pre-Filter | Particle Filter

fig.11



8.2.2. Spark Guard fits on outermost face of filter housing (fig.9) with Pre-filter held between the Spark Guard and the particle filter.

8.3. CONTROLS

8.3.1. Turn the unit on or off using the button (fig.12).

8.3.2. To set the air volume delivered, use the On button. The first press turns the unit on, the second press sets air flow to 170L/Min, third press sets air flow to 200 L/Min, fourth press sets air flow to 230 L/min and fifth sets air flow to 0L/Min

fig.12

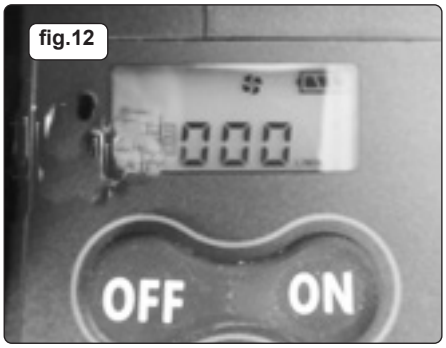


fig.13

NOTE: If the filter or air flow is compromised, the unit will beep once repeatedly. Leave the area immediately.

9. OPERATION

9.1. CHECKING THE UNIT BEFORE USE

Before using the helmet and respirator, check the following items:

- ✓ Check helmet front cover lens for scratches / damage and replace if necessary.
- ✓ Correct and comfortable fitting for user.
- ✓ Respirator air filter assembly; See fig.10. Verify the air filter is suitable for the application. Also be sure the filter is undamaged, and securely located.
- ❑ **WARNING:** If the filter is wet or heavily loaded with particles or damaged, it should be replaced.
- × Never attempt to clean the filter by any means, it can damage the filter media easily.
- ✓ The prefilter should be intact without any tears or cuts. Please replace the prefilter if it becomes wet or heavily loaded with particulate.
- ✓ Breathing Tube; Be sure the tube is undamaged and properly connected to the blower assembly and hood.
- ✓ Battery; Ensure the battery is fully charged and securely connected within the blower assembly. The charger shows a red LED when charging which turns to green when the battery is fully charged. A fully charged battery can work for up to 6 hours.
- ✓ Air Flow Alarm; Turn on blower assembly and check for audible alarms indicating poor/restricted air flow.
- ✓ Hood; Inspect the hood and replace if damaged.

9.2. HELMET SETTINGS

9.2.1. Set shade, sensitivity and delay options to suit operational and environmental conditions (See section 7.5 and fig.8).

NOTE: If the unit is used in a grinding role, ensure that the Grind / Weld select switch (fig.8) is returned to the Weld option after use.

NOTE: If the helmet does not darken upon striking an arc, stop welding immediately and refer to the troubleshooting section.

10. MAINTENANCE

NOTE: The respirator components must be cleaned, inspected and prepared for next use after each use.

10.1. HELMET FRONT COVER LENS REPLACEMENT

10.1.1. Replace the front cover screen if it is damaged (cracked, scratched, pitted or dirty). Remove the old front cover screen by prising off the four tabs on either side of the screen and replace with new screen. Remove any protective film before installing the new one.

10.2. HELMET AUTO-DARKENING FILTER CARTRIDGE (FIG.4)

10.2.1. Remove headband assembly by undoing handwheels on the side of the helmet and separating the two halves of the helmet.

10.2.2. Carefully remove the head band and face mask from the helmet.

10.2.3. From the front side of the ADF housing depress the two tabs on the ADF and from behind, push it forward to release ADF from the helmet.

10.2.4. Install replacement and reassemble the helmet reversing the removal process.

10.2.5. When the Low Battery light (fig.4) is lit you will need to replace the cartridges' batteries. The batteries are housed in two compartments on either side of the ADF. Slide the battery compartments out, remove and replace the batteries in the correct orientation.

10.2.6. To replace the inside cover screen if it is damaged (cracked, scratched, pitted or dirty), slide a screw driver blade or similar into the recesses on the side of the screen, gently flex it and remove from the unit.

10.3. REPLACING PAPR FILTER CARTRDGE

10.3.1. Open the filter compartment (section 8 and fig.9) and remove the filter.

10.3.2. Handle soiled filter carefully and use suitable PPE i.e. gloves and face mask.

Prefilter	Once a week	Regular replacement of the prefilter extends the using life of particle filter and battery run-time.
Particle filter	At least every month	Do daily checks with air flow indicator, replace it when low airflow indicator blinks. • Replace as working condition required. • Replace when the operating time of battery become short.
Spark Guard	As needed Regular replacement of the prefilter extends the using life of particle filter and battery run-time. Replace it when it is deformed or can not fit well.	Replace it when it is deformed or can not fit well.

10.4. CLEANING AND DISINFECTING

10.4.1. Detach breathing tube and respirator. Inspect all parts for damage. Replace all damaged parts prior to storage or next use.
Clean the outer surfaces of PAPR assembly with a soft cloth dampened in a solution of water and mild, pH neutral detergent.
DO NOT immerse the respirator or any element in water.
DO NOT use solvents or abrasive cleaners. **DO NOT** attempt to clean the interior of the blower with compressed air or vacuum.
Ensure the electrical contacts of the blower and battery pack are dry.
Filter: Open the filter cover (fig.10, fig.11) and inspect the filter. Replace if excessively dirty.

10.5. STORAGE:

If the blower will not be used for an extended period, remove the filter and battery and store them in a clean, dry, cool place free of solvent-based vapours.

11. BATTERY INGESTION

11.1. Unfortunately, it is not obvious when a button or coin battery is stuck in a child's oesophagus (food pipe).
11.2. There are no specific symptoms associated with this. The child might:
11.3. cough, gag or drool a lot;
11.4. appear to have a stomach upset or a virus;
11.5. be sick;
11.6. point to their throat or stomach have a pain in their abdomen, chest or throat; be tired or lethargic; be quieter or more clingy than usual or otherwise "not themselves";
11.7. lose their appetite or have a reduced appetite; and not want to eat solid food/ be unable to eat solid food.
11.8. These sorts of symptoms vary or fluctuate, with the pain increasing and then subsiding.
11.9. A specific symptom to button and coin battery ingestion is vomiting fresh (bright red) blood. If the child does this, seek immediate medical help.
11.10. The lack of clear symptoms is why it is important to be vigilant with "flat" or spare button or coin batteries in the home and the products that contain them.

12. TROUBLESHOOTING

12.1. WELDING SHIELD;

PROBLEM	POSSIBLE CAUSES	SUGGESTED SOLUTIONS
Difficult to see through filter	Cover lens dirty	Clean or replace cover lens
	Filter lens dirty	Clean filter lens
Filter does not darken when arc is struck	Grind Mode Selected	Adjust to 'Weld' mode.
	Sensors or Solar Panel blocked	Make sure sensors or solar panel are exposed to weld arc without blocking
	Set Sensitivity to LOW	Adjust Sensitivity to required level
	Low voltage of lithium batteries	Replace with new lithium batteries if indicator turns red
Filter darkens without arc	Set Sensitivity to HIGH	Adjust Sensitivity to required level
Filter remains dark after welding	Set Delay to MAX	Adjust Delay to required level

12.2. FILTER AND HOOD;

FAULT	POSSIBLE SOLUTION
Blower does not supply air to hood	1. Press On switch to start blower 2. Recharge battery 3. Verify battery is properly connected to blower 4. Remove blockage from blower outlet and breathing tube
Battery pack's charge lasts less than expected	1. Ensure battery pack is fully charged 2. Replace battery 3. Replace charger 4. Check the air filter and replace it if necessary

Blower cannot be turned off	Press ON/OFF button for one second
Battery red level light is flashing	Charge or replace the battery
Danger light is on, alarm sounds or blower vibrates	Check the blower air flow paths are clear.

12.3. PAPR ERROR CODES

ERROR CODE	PROBLEM / CAUSE	ACTION
E01	Breathing Tube broken off Breathing Tube Broken Filter is blocked	Check tube connection to the welding helmet and the blower Changing the breathing tube
E02	Filter Blocked	Remove obstruction ,change the filter
	Tube Blocked	Clean the tube
E03	Low battery	Change the battery
E04	High Temperature	Stop working and rest
E06	Circuit has excessive current	Check and remove physical failure and restart the system
		Return to dealer if LCD still shows E06
E07	Motor is damaged	Check and remove physical failure and restart the system
		Return to dealer if LCD still shows E07

ENVIRONMENT PROTECTION
Recycle unwanted materials instead of disposing of them as waste. All tools, accessories and packaging should be sorted, taken to a recycling centre and disposed of in a manner which is compatible with the environment. When the product becomes completely unserviceable and requires disposal, drain any fluids (if applicable) into approved containers and dispose of the product and fluids according to local regulations.

REGISTER YOUR PURCHASE HERE

WEEE REGULATIONS
Dispose of this product at the end of its working life in compliance with the EU Directive on Waste Electrical and Electronic Equipment (WEEE). When the product is no longer required, it must be disposed of in an environmentally protective way. Contact your local solid waste authority for recycling information.

Li-ion

BATTERY REMOVAL
Under the Waste Batteries and Accumulators Regulations 2009, Jack Sealey Ltd are required to inform potential purchasers of products containing batteries (as defined within these regulations), that they are registered with Valpak's registered compliance scheme. Jack Sealey Ltd's Batteries Producer Registration Number (BPRN) is BPRN00705.

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Note: It is our policy to continually improve products and as such we reserve the right to alter data, specifications and component parts without prior notice.
Important: No Liability is accepted for incorrect use of this product.
Warranty: Guarantee is 12 months from purchase date, proof of which is required for any claim.

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