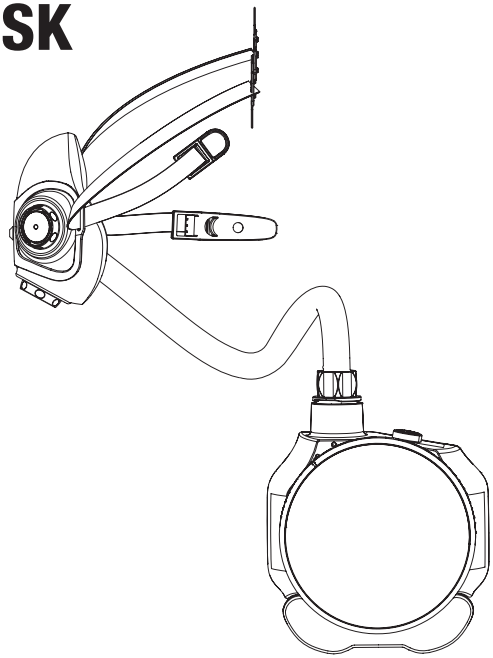
JACKSON®
SAFETY

AIRMAX HALF MASK

(EN) **POWERED AIR PURIFYING RESPIRATOR**



CE

1024 EN 12942:1998+A2:2008 TM3 P R SL

AIRMAX
HM

EN

IMPORTANT NOTICE

Please read these instructions carefully before unpacking your JACKSON SAFETY® AIRMAX® PAPR. Failure to comply with the instructions in this leaflet may void your limited product warranty and adversely affect your health and safety.

The selection of this respiratory for the application should be the result of the risk assessment conducted by a professional health and safety officer. Its use should be strictly in accordance to the instructions provided along with the product. If you have any questions regarding the suitability of this product for your assigned task, please contact your designated health and safety officer or use our dedicated technical help line for further support.

The use of this system is limited to the product variants indicated in this packaging. Any alteration made to adapt to other protective devices may end up affecting the health and safety of the wearer.

CONTENT

This JACKSON SAFETY® AIRMAX® powered respirator system should include:

- Blower Unit with attached battery and filter
- Waist belt
- Half mask complete with hose
- Battery charger
- Lithium-ion battery
- Instruction Manual
- Flow-Test-Unit

SYSTEM OVERVIEW

JACKSON SAFETY® AIRMAX® has been designed and manufactured to comply with EN 12942:1998+A2:2008 TM3 P R SL.

This power assisted particulate filtering device is belt mounted and provided with a high efficiency SL replaceable filter canister that provides a filtration efficiency level above 99.5%. The respiratory system will provide a Nominal Protection Factor (NFP) of 500 when used in conjunction with an original JACKSON SAFETY® AIRMAX® particulate filter CE marked as EN 12942:1998+A2:2008 TM3 P R SL.

The blower (including batteries) weights 880gr at a minimum flow rate of 100LPM for at least 6:45 hours at a comfortable noise intensity of <75 dB. Lithium-ion batteries can be recharged multiple times and finally replaced at the end of their lifetime, they should be fully charged at the beginning of the working shift.

The blower unit incorporates a number of safety measures to avoid the inadvertently change in the flow conditions that include:

- The device has an audible alarm to indicate a blocked filter or low battery
- The device alarm activates for about 1 second when the blower unit is switched on, and deactivates once the minimum operational flow rate is achieved. Please consider the power-off state an abnormal situation while in use
- The switch for the air supply is recessed and so not possible to switch the air supply off inadvertently
- A Flow-Test-Unit is provided along with every AIRMAX® PAPR unit to verify the right air flow supply conditions. Please follow the instructions and recommendations provided in this manual.

EN REGULATORY COMPLIANCE AND CE MARKS

European Conformity mark.

This confirms that the product fulfills the requirements of the regulation (EU) 2016/425 of the European Parliament and the council on Personal Protective Equipment (PPE)

P R SL-Filter AIRMAX:	Product code 46311
Filter colour coding:	White (background)
EU Manufacturer	Surewerx USA Inc Elgin IL USA 60123
Compliance	Notified body
Module B Audit conducted by EN 12942:1998+A2:2008 TM3 P R SL	Research Institute for Labour and Social Affairs Notified Body 1024 Jeruzalemska 9, 116 52 Praha 1
Module C2 Audit conducted by	Research Institute for Labour and Social Affairs Notified Body 1024 Jeruzalemska 9, 116 52 Praha 1
CE marks	See labels on product components

WARNINGS AND LIMITATIONS OF USE

- This PAPR is not suitable for work in poorly ventilated areas (i.e. confined spaces) where oxygen level is suspected to be below 17%.
- Determination of the use of this PAPR system should be addressed by a trained health and safety officer that determines the suitability of the protection offered by this device for the particular task and the hazards involved.
- Do not use this respiratory device when the concentration of hazardous substances has not been determined and their impact on human health and safety by a trained health and safety officer.
- The wearer of this respiratory system must have read this manual and fully understood the functions and settings on the AIRMAX® PAPR system. Its use, cleaning, maintenance, disinfection and storage conditions should follow the instructions provided in this manual. Products returned for warranty replacement will only be considered for replacement only if all recommendations provided in this manual were fully followed.
- Do not use the AIRMAX® PAPR system in areas were explosions might occur. Avoid direct exposure to flames and/or sparks. Do not use the AIRMAX® PAPR system in the presence of strong winds.
- Use only original filters certified for EN 12942:1998+A2:2008 TM3 P R SL the particular respiratory system.
- If the blower unit acoustic alarm sounds please leave immediately the working area and enter a non-contaminated environment.
- Do not store nor use this respiratory system under temperature conditions that exceed recommendations of this manual (below 0°C and above +40°C).
- Do not use for overhead welding where there is a falling molten metal hazard. This welding helmet/filter system does not provide protection from molten metal and spatter during direct overhead welding.
- Particle filters are not suitable to provide protection against gases and vapours above occupational exposure limits. Please use TM3 P R SL filters packed in original packaging only, unsealed or second-hand products must not be used.
- Carefully review the sealing gasket and search for any visible damage. Do not use if its serviceability is suspected to be affected. Only use particle filters produced by Surewerx USA Inc properly labelled and packed.
- Do not attempt to touch or modify the components of this PAPR.
- At very high work rates the pressure in the device may become negative at peak inhalation flow. JACKSON SAFETY® AIRMAX® PAPR systems are for use only by competent, trained personnel.
- Make sure that the air hose doesn`t make a loop and does not get caught up on something in the work environment.
- Filters shall not be fitted directly to the helmet / hood.
- Do not allow water or other liquids to enter the blower unit.
- When the blower unit is switched off little or no respiratory protection is to be expected. When the blower unit is switched off a rapid build up of carbon dioxide and depletion of oxygen within the head unit may occur.
- Evacuate the contaminated area in any of the alarms is detected, any part of the product becomes damaged or a considerable change in the air flow or smell is detected. You should also leave the area if you feel dizziness, discomfort or difficulty in breathing.

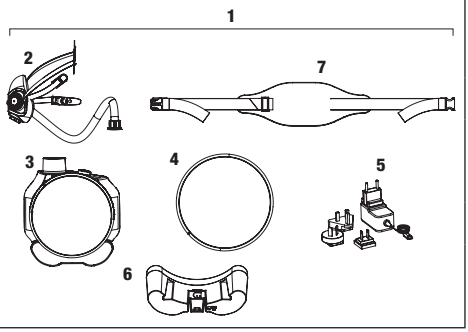
APPLICATION GUIDELINES

AIRMAX® PAPR can be effectively used, but is not limited, to protect the wearer in multiple tasks in the following areas of use

General industrial applications	GRP manufacture	Ship construction and maintenance
Agriculture	Mining	Metal transformation industry
Construction and demolition	Metal foundries	Waste disposal
Chemical plants	Paint spraying (water based)	General welding
General maintenance	Pharmaceutical	DIY
Food processing	Pest control	Tunnelling and quarrying
Mining	Water and sewage treatment	Textiles manufacture

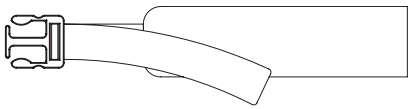
SYSTEM ASSEMBLY

AIRMAX® PAPR with Half Mask

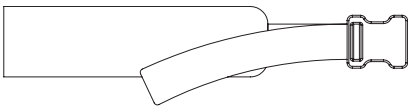
	Part	Number	Assembly
1	HALF MASK PAPR SYSTEM	46311	
2	HALF MASK S/M	46313	
3	HALF MASK L/M	46314	
4	AIRMAX HM PAPR MOTOR UNIT	46312	
5	AIRMAX PARTICLE FILTER TH3 P R SL	J7066	
6	AIRMAX WELDING PAPR CHARGER	J7067	
7	AIRMAX WELDING PAPR 4C BATTERY	J7068	
8	AIRMAX WELDING PAPR WAIST BELT	J7069	

INITIAL ADJUSTMENT

- Put the belt around the waist and faster the two ends together
- If the belt is too loose, slide the male adjuster down the belt, towards the female half. If the belt is too tight, slide the male adjuster away from the female half.
- Repeat the above processes until a comfortable and secure fit is achieved.



Loosen

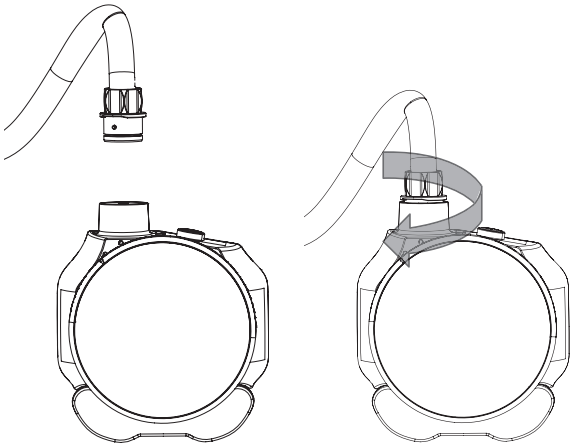


Tighten

Position the blower unit around the waist at the centre of the back to minimize the risk of the blower or hose becoming caught up in use.

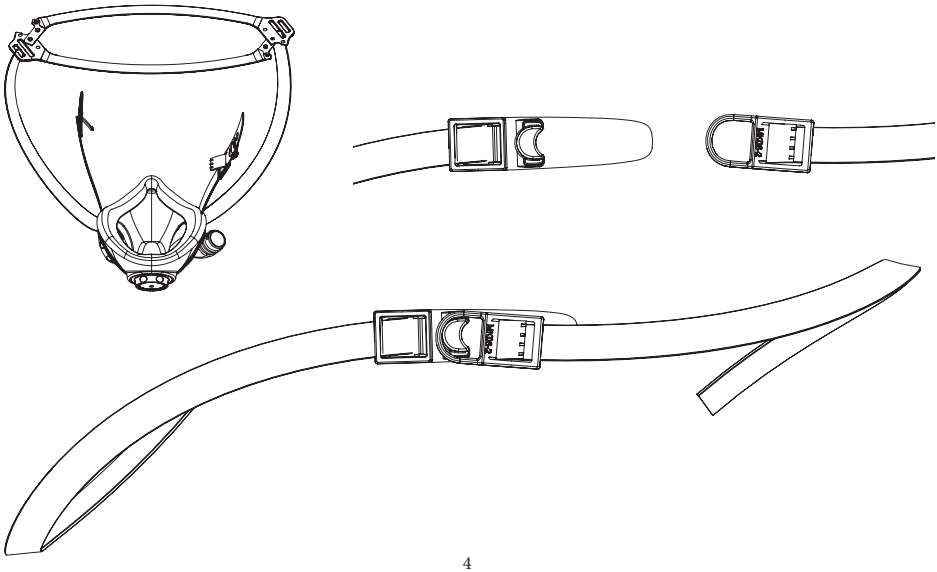
ATTACHING THE HOSE TO THE AIRMAX PAPR BLOWER UNIT

- Line the female connector of the hose over the male connector of the unit..
- Ensuring the 2 surface are level slowly turn the female hose connector clockwise (ensuring the thread is not being cross threaded.
- Tighten the hose fully until locked (Only hand tight do not use tools)

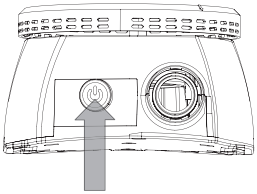


FITTING THE HALF MASK

- First connect the half mask to the blower as above and switch the unit on ensuring it is providing air.
- Place over the mask over your nose and mouth ensure the correct position.
- Pull the head cradle so that it positioned correctly over the crown on your head pull the fastening straps to tighten cradle.
- Fasten the fastening strap and pull tight until a secure fit is achieved (do not overtighten).
- Fitting should be carried out in line with face fit practices (Face fit testing kit + instructions - order SKU 46315).



OPERATING THE PAPR

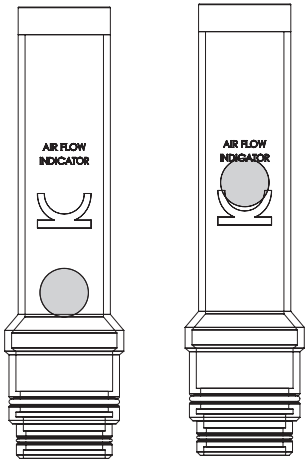


Activate the Power-Switch at the side of the unit. Once turned on, the flow alarm activates for about 1 second until the minimum flow rate is achieved and respiratory protection is provided given that all components are in place for the wearer to start the task.

The blower should then provide an initial air flow of +100 LPM for at least 6:45 hours at a comfortable noise intensity of <75dB.

CHECKING THE AIR FLOW

With the blower unit running place the Flow-Test-Unit onto the hose so that the sealing gasket is securely gripping the air outlet. Check that the indicator ball rises above the pass fail marker. This easy testing device is supplied with every AIRMAX® PAPR unit. Jackson Safety recommends carrying out this operation at least at the beginning of every shift and after changing the filter or any other cleaning or maintenance activity.



PROBLEM SOLVING

Inspect and dismantle this unit only in a clean environment where no presence of respiratory hazards is suspected. Always leave the contaminated area to assess any encountered problem.

If the alarm activates during the execution of a task, leave the contaminated area and remove the TM3P R SL filter with the blower with the power on. If the alarm deactivates, replace the filter; if not, recharge the unit. Check the air flow with the Flow-Test-Unit. If the problem continues after the system is recharged, ask for technical support.

Make sure that the battery unit if fully loaded at the beginning of the shift. The AIRMAX® PAPR blower unit is set to sound for 1 second once powered; if the alarm still sounds after check if the hose or filter are clogged; otherwise the battery needs re-placing or re-charging. If the problem persists, contact Surewerx USA Inc for support.

CHECKING THE AIR FLOW ALARM

Proper functioning of the air flow alarm can be checked by using setup from previous paragraph and by putting blower unit into bag. First keep the bag loose around blower, so that air flow is not obstructed and flow indicator is in green sector. Then tighten bag around blower, so that air flow is reduced and flow indicator goes to red sector. In few seconds flow alarm sound should be heard, if not, flow alarm is not working properly. Release the bag to free air flow and indicator moves back to green sector. After few seconds alarm should stop. If the alarm doesn't stop, do not use the unit and contact Surewerx USA inc for support.

FILTER REPLACEMENT CRITERIA

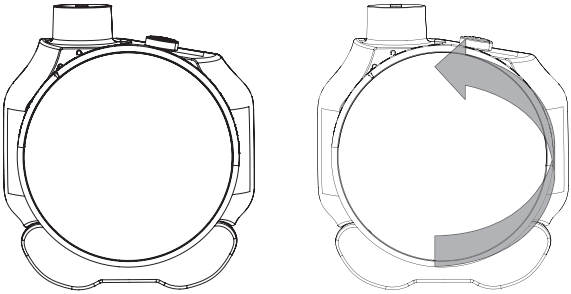
Filter should be replaced in all cases when its integrity is suspected to have been affected as a result of contamination or physical damage.

Filter must also be replaced at the end of its service lifetime, which can be determined when the fully charged operational JACKSON SAFETY® AIRMAX® PAPR unit can't supply airflow above 100LPM tested with the use of the Flow-Test-Unit provided with the product. This is clear indication that the filter is clogged and should be replaced.

If the alarm deactivates after replacing the filter, the unit is fully operational again; if not, recharge the unit before using it in a contaminated area. You should always double check the air flow again with the Flow-Test-Unit to make sure the unit is fully operational.

REMOVING THE FILTER

Push the filter-housing down towards the body of the blower unit and apply a twisting force in a clock-wise direction to pull the filter away from the unit.

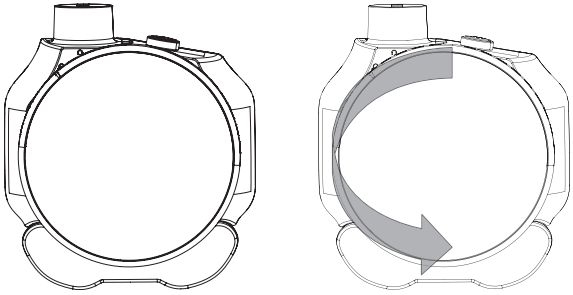


FITTING THE FILTERS

Inspect the filter sealing gasket filter panels and confirm that is free of damage. Make sure that the new filters are used within their expiry date. Make use of the opportunity to inspect that the filter holder is clean; finally assemble the new filter into the blower.

Place the filter over the corresponding circular recess in the blower unit. Twist lightly until the 4 location lugs, fall into the corresponding recesses. Force the filter down towards the blower unit and apply a twisting force in an anti-clockwise direction until the 4-way bayonet system is heard locking into place.





WARNING!

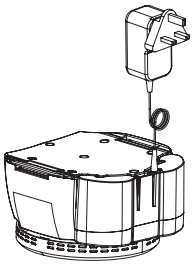
It is essential that the user must not confuse the markings on the filter relating to any other standard other than EN12942:1998 + A2:2008 with the classification of the device when used with this filter.

The filters must be regularly checked (see Air Flow Test) and replaced. Filters are intended to be replaced and not cleaned / re-used.

MAINTENANCE OF THE AIRMAX® PAPR SYSTEM

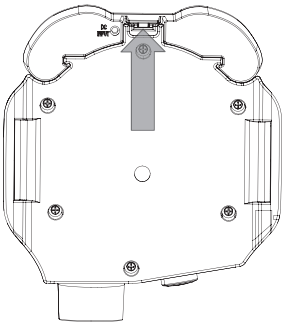
- The blower unit, filter housing and head units must all be regularly cleaned to keep them in good working order
- For single users, the units can be cleaned with a cloth moistened with warm water and soap or an antimicrobial wipe.
- For multiple users, the units should be disinfected when passed from one user to another.
- Liquids must not be allowed to enter the workings of the blower unit or get on to the element of the filter. Parts should be allowed to air dry. Under no circumstances should any solvents or abrasive cleaning agents be used. The unit must not be dried using heat.
- The unit should continue to provide protection to the designed specification for at least 1.5 years when maintained in accordance with these instructions. Prior to each use the user should check that all components of this system are free from defects, such as burnt areas, holes, splits or broken filters and hoses, cracked visors, ADF's and helmets.

CHARGING THE BATTERY



- Once the unit has reached the Minimum Design Flow (MDF), it is better to leave it to run down completely before recharging. The battery can either be charged whist installed in the blower unit or removed and charged separately.
- Plug the charger into the main socket, fit the plug on the end of the lead into the socket at the back of the battery.
- Charging should only be for a maximum of 6 hours. Less charging time will give less run time of the JACKSON SAFETY's AIRMAX® PAPR unit.

REMOVING AND REPLACING THE BATTERY



- To remove the battery, First remove the filter (to do this please see the Filter removal section). Now hold the motor unit face down (in a clean area away for contaminants) carefully push holding tab next to the charger point away from the motor unit using your thumb whilst pushing the battery down towards the topside of the motor unit.
- To replace the battery, place it into the cavity and slide it right to the back as far as it will go, until the holding tab clicks into the location. Now replace the filter (please see the Fitting filter section)

STORAGE AND TRANSPORTATION

When not in use or during transportation the blower and head units should be stored in the container in which they were supplied, in a place away from direct sunlight and contact with solvents or other surfaces or objects that may impact and damage them. Do not store in areas with extreme temperature (outside +0°C to +40°C range) or humidity (above 75%RH) conditions.

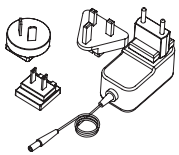
User Instruction Manual for the AIRMAX® PAPR Battery Charger

Component code – J7067

This charger complies with the European regulations. Please read and keep these instructions carefully, they contain important operation and safety descriptions. If the charger is not used in accordance with this manual you may risk causing a fire, personal injury or equipment damage. Check label on the rear of the charger for further details.

Features

- The AIRMAX® PAPR charger is suitable for Lithium-ion battery packs only and has been provided with a short circuit protection device
- Each charger has quick-change socket power adapter for various mains (see picture below). It is designed to quick charge 4-6 cells Lithium–Ion battery packs with a capacity of 5200mAh.

	• Operational range: 100Vac – 240Vac • Frequency: 50-60Hz at 150mA • Operating temperature range: 0°C to 40°C • Operating relative humidity: 8% to 85% • Initial charge before first use of batteries: 8 hours
AIRMAX® charger - J7067	Technical Specifications

Only use this charger with batteries that meet the specifications on the chart below: Connect its DC output plug to the battery and then connect its AC input plug to 100-240VAC mains power before switching on the mains power point; ensure the charging lights are illuminated.
It is normal that the charger and the battery might warm up (below 50°C) during charging; otherwise please stop using it. Please disconnect the charger AC input plug first and then disconnect the DC output plug when charging is finished. The red LED shows that the batteries are still charging. The green LED indicates that the battery is fully charged and ready for use. Do not leave the battery charger in the power supply when not in use.

Safety

Do not charge any other batteries than the specified in this manual. Don't use the charger if it shows visible damage. Do not attempt to repair the charger, this will end the warranty and will increase the accident and/or damage. Never expose the charger to water, rain or snow. Contact your supplier if charger replacement is needed.

Environmental disposal

Batteries are chemical waste, dispose them in a special container or hand them in at an authorized recycling centre.

FILTER SYMBOLS:

R = this means the filter is reusable for more than one shift.

S = means the filter protects against solid particles.

L = means the filter protect against liquid particles.

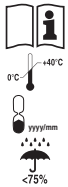
SYMBOLS:

Refer to the user instruction manual

Store between 0 – 40°C

Best before 2017 / 05

Maximum storage Humidity <75%



PACKAGING / LABELING

Lot Code Description: GLyjjj-xxxx (e.g. GL0013-0005)

GL = Manufacturer identifier

y = Last digit of year of production (e.g. 0 for 2020)

jjj = Julian (sequential) day of production (e.g. 013 for January 13)

xxxx = Last four digits of purchase order number (e.g. 0005)

TECHNICAL DATA

This powered respirator is light-weight and easy to handle. It is equipped with a replaceable particulate filter. The system affords reliable protection against particulates and aerosols.

Air flow: 100 to 120 lpm. Minimum flow rate 100 lpm
Weight with filter: 700 g
Operating temperature between 0°c and +40°c
Type of filter: TM3 P R SL
Type of Battery: Replaceable and rechargeable Li-Ion 7.4V/5200mAh
Charging Cycles >350
Visual alarm for low battery voltage.
Visual, audible alarms and Vibration alarms for insufficient flow rate (below 100lpm)
Nominal Protection Factor (NPF) 500
Noise level: 75dBA
Operating time greater than 6:45 hours on minimum flow rate with a new filter and fully charged battery in a clean environment at room temperature.

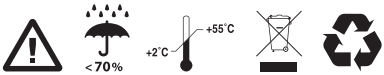
Note! Operating time can be shortened in case of clogged filter under changed battery

EU DECLARATION OF CONFORMITY: https://www.jacksonsafety.com/eu-products-documentation

JACKSON®
SAFETY

ISO OERLIKON

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