



Protecting you for life's best moments.

PX5® PAPR CE UI R5

GVS-RPB.COM

# Instruction Manual

## PX5® Powered Air Purifying Respirator

**Employers:** Read this manual and the respirator headtop instruction manual and carry out the employer responsibilities (page 6).

**Product users:** Read this manual and the respirator headtop instruction manual and follow the product user safety instructions (page 9).

Manuals are regularly updated. Make sure this manual is available to all users for reference.

**Current version of manual and other languages:** [gvs-rpb.com/resources](http://gvs-rpb.com/resources)



EN English P.2

CE 2797  
UK  
CA 0086

EN 12941:2023 TH3  
RESPIRATORY PROTECTION  
Only in conjunction with approved respirator.  
See instruction manual for protection levels.

PRODUCT CERTIFICATION



BSI Certified Product  
AS/NZS 1716:2012  
BMP# 714303  
RESPIRATORY PROTECTION

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## EXPLANATION OF SIGNAL WORDS AND SYMBOLS

The following signal word and safety symbols are used in this manual and product labeling:



**WARNING**

**WARNING** indicates a hazardous situation that, if not avoided, could result in death or serious injury.



**Read the Instruction Manual.**

Additional copies of GVS-RPB® manuals can be found at [gvs-rpb.com](http://gvs-rpb.com).

## TESTED AND CERTIFIED BY:

CE: BSI Group The Netherlands B.V. (NB2797), Say Building, John M. Keynesplein 9, 1066 EP, Amsterdam, NL

UKCA: BSI Group (AB0086), Kitemark Court, Knowhill, Milton Keynes MK5 8PP, United Kingdom

### PPE REGULATION:

- The PX5® conforms to the PPE Regulation (EU) 2016/425. Regulation 2016/425 on PPE as brought into UK Law and amended.
- The Declaration of Conformity for CE and UKCA can be found at [gvs-rpb.com/resources](http://gvs-rpb.com/resources)
- See the Storage section for information on packaging and protection required for transportation.

**GVS-RPB® Safety LLC is an ISO9001 certified company.**

**GVS-RPB® Safety - Global Headquarters**

2807 Samoset Rd, Royal Oak, MI 48073, USA

T: 1-866-494-4599 F: 1-866-494-4509 E: sales@gvs.com

**GVS S.p.A. - EMEA**

Via Roma 50, 40069 Zona Industriale BO, Italy

T: +39 0516176391 E: sales@gvs.com

**GVS Filter Technology UK Ltd.**

Caton Road, Lancaster, Lancashire, UK, LA1 3PE

T: +44 (0)1524 847600 E: sales@gvs.com

[gvs-rpb.com](http://gvs-rpb.com)

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For technical assistance contact our Customer Service Department at 1-866-494-4599 or email: [sales@gvs.com](mailto:sales@gvs.com)

Form #: 7.20.569

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# PX5® PAPR

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## INTRODUCTION

The GVS-RPB® PX5® is approved as a Powered Air Purifying Respirator Fan Unit to EN 12941: 2023, designed to be used in conjunction with the approved GVS-RPB head-tops. The GVS-RPB PX5 is for applications where there is a need for protection from airborne contaminants such as welding, grinding, painting, construction and other industrial applications, as well as pharmaceutical manufacturing. The PX5 is tested to IP 65 for water and dust ingress while in operation.

This product must be inspected and maintained in accordance with this instruction manual at all times.

See PROTECTION PROVIDED AND LIMITATIONS (page 4) for details.

## IMPORTANT SAFETY INFORMATION



### WARNING

Improper selection, fit, use, or maintenance of this product can result in injury; life threatening delayed lung, skin or eye disease; or death.

This product is intended for occupational use in accordance with applicable standards or regulations for your location, industry, and activity (see Employer Responsibilities, page 6). Familiarity with standards and regulations related to the use of this protective equipment is recommended, even if they do not directly apply to you. If self-employed or if used in a non-occupational setting, refer to Employer Responsibilities and Product User Safety Instructions. Go to [gvs-rpb.com/important-safety-information](https://gvs-rpb.com/important-safety-information) for helpful links to CE standards and other content.

**Employers:** Read this manual and the respirator head-top Instruction Manual and carry out the Employer Responsibilities (page 6).

**Product users:** Read this manual and the respirator head-top Instruction Manual and follow the Product User Safety Instructions (page 9).

**Check website for updates.** Product manuals are regularly updated.

Visit [gvs-rpb.com/resources](https://gvs-rpb.com/resources) for the most recent version of this manual before using the product.

## PROTECTION PROVIDED AND LIMITATIONS

### RESPIRATION

The GVS-RPB PX5 is approved in the categories as follows:

#### Powered Air

The GVS-RPB PX5 PAPR, when properly fitted and used with all required components, including the Breathing Tube Assembly and the approved head top, is part of an approved powered air purifying respirator. As such, it significantly reduces, but does not completely eliminate, the breathing of contaminants by the respirator wearer. See the instruction manual and approval label for the selected head top for approval with the PX5 and the assigned protection factor. Specific protection depends on the filter selected for use in the GVS-RPB PX5 PAPR. It is approved to be used with the O3-892-P High Efficiency (HE) Filter, the

03-893-A2 Organic Vapor/High Efficiency (OV/HE), 03-894-ABE, 03-895-ABEK, and the 03-896-ABEKHg Multi-Gas Combination Filters.

## EQUIPMENT MARKING

The GVS-RPB PX5 and its filters are marked in accordance with the EN 12941: 2023 TH3. See Table 1.1 for classifications.

TH3 – Indicates the class designation for complete device.

- 03-892-P P HE Filter class designation
- 03-893-A2 A2P Gas Filter class designation
- 03-894-ABE ABE1P Multi-Gas Filter class designation
- 03-895-ABEK ABEK1P Multi-Gas Filter class designation
- 03-896-ABEKHg A2B2E1KHgP Multi-Gas, Mercury Filter class designation

### Note:

The EN 12941 standard defines three classes of performance (TH1, TH2 and TH3). The numbers define the level of performance (inward leakage) and the pull strength of the breathing tubes and couplings within the classification. Inward leakage for classification TH1 is maximum 10%, for TH2 maximum 2% and for TH3 maximum 0.2%.

- “A” indicates that the filter provides protection against organic vapors as per the standard and the number following the letter indicates the filter capacity. Color code Brown.
- “B” indicates that the filter provides protection against certain inorganic gases and vapors (excluding CO) as per the standard. Color code Grey.
- “E” indicates that the filter provides protection against sulphur dioxide and other acidic gases and vapors as per the standard. Color code Yellow.
- “K” indicates that the filter provides protection against ammonia and organic ammonia derivatives as per the standard. Color code Green.
- “Hg” indicates that the filter provides protection against Mercury as per the standard. Color code Red.
- The number following the letter indicates the filter capacity.

Markings on the filter for other standards should not be confused with the EN 12941 standard markings. Each filter cartridge has a label on it with a spot for recording the date and time that the new cartridge was installed. Using a pen or permanent marker, write the date and time the new cartridge was installed into the PX5 PAPR.

## EXPLANATION OF MARKINGS AND SYMBOLS ON THE EQUIPMENT



Read all instructions before use.



RoHS RoHS compliant.



Recycle

**Li-Ion**

Lithium Ion Batteries.



Danger of dust and fumes inhalation



Temperature range of storage conditions



Batteries shall be disposed of as electronic waste.



Humidity range of storage conditions



Maximum time of use of Hg filters



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## PROTECTION PROVIDED AND LIMITATIONS CONTINUED

### HAZARD LIMITATIONS

The GVS-RPB PX5 PAPR is **NOT FOR USE** if:

- In atmospheres immediately dangerous to life or health (IDLH).
- Wearer cannot escape without the aid of the respirator.
- Atmosphere contains less than 21% ±1% oxygen.
- In abrasive blasting applications.
- For protection against certain hazardous gases (e.g., carbon monoxide).
- Contaminants are in excess of regulations or recommendations.
- Contaminants or contaminant concentrations are unknown.
- Work area is poorly ventilated.
- The temperature is outside the range of -20°C to 50°C (-4°F to 122°F). If the internal battery temperature reaches 60°C (140°F) the unit will completely shut down.
- Flammable or explosive atmosphere is present. This system contains electrical parts that are not suitable for use in such environments. The PX5 is not intrinsically safe.

### MANUFACTURER MINIMUM DESIGNED FLOW (MMDF)

The MMDF for the PX5 is 170 slpm.

### APPARATUS CLASSIFICATION AND PROTECTION FACTOR TABLE 1.1

| PAPR MODEL | RESPIRATOR HEAD-TOPS* | EN 12941 CLASSIFICATION | NOMINAL PROTECTION FACTOR | BREATHING TUBES 04-831 04-841 | HEPA FILTER 03-892-P | COMBINATION FILTERS 03-893-A2 03-894-ABE 03-895-ABEK 03-896-ABEKHg |
|------------|-----------------------|-------------------------|---------------------------|-------------------------------|----------------------|--|
| PX5        | Z-LINK®               | TH3/2                   | 500/50                    | ✓                             | ✓                    | ✓  |
| PX5        | T-LINK®               | TH3                     | 500                       | ✓                             | ✓                    | ✓  |
| PX5        | Z4®                   | TH2                     | 50                        | ✓                             | ✓                    | ✓  |
| PX5        | T200™                 | TH3                     | 500                       | ✓                             | ✓                    | ✓  |
| PX5        | T300™ Sterile         | TH3                     | 500                       | ✓                             | ✓                    | ✓*   |

\*T300 can be used with all combination filters except 03-896-ABEKHg

See Head-Top UI for Permissible Combinations

Note: the EN 12941: 2023 standard is a requirement for loose fitting respirators such as helmets and face shields.

## AIR SOURCE

### Powered Air

Check that the contaminated area is within the limits of use for a Powered Air Purifying Respirator and determine the type of contamination. Once the contamination level has been confirmed you can then determine the filter cartridge to be used for the application, to make sure that you are sufficiently protected. Make sure that the area is well ventilated and that regular air samples are taken to confirm the atmosphere stays within the levels recommended by local regulations and other governing bodies. Use this data to determine the filter or cartridge replacement schedule.

## EMPLOYER RESPONSIBILITIES

Your specific responsibilities may vary by location and industry, but in general GVS-RPB expects that employers will:

### ■ Follow all applicable standards and regulations for your location, industry, and activity.

Depending on your location and industry, a number of standards and regulations may apply to your selection and use of respirators and other personal protective equipment. These may include such things as national, local, or military standards and regulations and consensus standards such as CE and AS/NZS. There are also requirements specific to particular contaminants, e.g. silica (see [gvs-rpb.com](http://gvs-rpb.com) for more information), asbestos, organic pathogens, etc. Know which requirements apply to your location and industry.

### ■ Have appropriate safety programs in place.

Have and follow:

- A workplace safety program.
- A written respiratory protection program in accordance with applicable standards and regulations.

### ■ In accordance with the above,

- Perform a hazard analysis and select appropriate equipment for each activity.** A hazard analysis should be performed by a qualified person. Controls should be in place as appropriate and a qualified person should determine what kind of respiratory, face and eye, head, and hearing protection is appropriate for the intended activities and environments of use. (For example, select a respirator appropriate to the specific airborne hazards, with consideration of workplace and user factors and with an Assigned Protection Factor (APF) that meets or exceeds the required level for employee protection, select welding face and eye protection appropriate to the type of welding to be done, etc.)

As applicable, check your workplace safety program, respiratory protection program, and standards and regulations for your activity or industry for related protection requirements, and see this manual (Protection Provided and Limitations, page 4) and the head top Instruction Manual for product specifications.



## WARNING

**Special attention should be given to highly toxic substances and high concentration environments when selecting the respirator (RPD)**

## EMPLOYER RESPONSIBILITIES CONTINUED

**Be sure employees are medically qualified to use a respirator.**

Have a qualified physician or other licensed health care professional (PLHCP) perform medical evaluations using a medical questionnaire or an initial medical examination.

**Train employees in the PX5's use, maintenance, and limitations.**

Appoint a qualified individual who is knowledgeable about the GVS-RPB PX5 to provide training:

Qualifications of the Respirator Trainer. Anyone providing respirator training shall:

- a) be knowledgeable in the application and use of the respirator(s);
- b) have practical knowledge in the selection and use of respirator(s) and work practices at the site;
- c) have an understanding of the site's respirator program; and
- d) be knowledgeable of applicable regulations.

Train each PX5 user in the product's use, application, inspection, maintenance, storage, fitting, and limitations in accordance with the content of this Instruction Manual and the approved head top Instruction Manual and standard or regulatory requirements. Ensure that each intended user reads both these manuals.

**Ensure that equipment is properly set up, used, and maintained.**

Make sure that equipment is properly set up, inspected, fitted, used, and maintained, including selection of the appropriate filter cartridge for the application.

**Measure and monitor airborne contaminants in the work area.**

Measure and monitor airborne contaminant levels in the work area in accordance with applicable requirements. Make sure work area is well ventilated.

■ **Exposure limits for mixtures:**

The UK Health and Safety Executive standard EH40/2005 lists the Working Exposure Limits for the UK. In Europe, Indicative Occupational Exposure Limit Values are listed in the Directive 2017/164/EU. Consult your country's occupational safety department for Exposure Limits and monitoring recommendations for where the work is being performed.

The RPD protection level should be sufficient to reduce the exposure to less than the occupation exposure limit (OEL).

■ **If you have any questions, contact GVS-RPB.**

- Call Customer Service Department at:  
Tel: 1-866-494-4599 or  
E-mail: sales@gvs.com  
Web: gvs-rpb.com

# PRODUCT USER SAFETY INSTRUCTIONS

## BEFORE INITIAL USE - BE TRAINED AND MEDICALLY QUALIFIED

Do not use this device until you have read this manual and the approved head top Instruction Manual (additional copies available at [gvs-rpb.com](http://gvs-rpb.com)) and have been trained in the respirator's use, maintenance, and limitations by a qualified individual (appointed by your employer) who is well informed and understands the GVS-RPB PX5 PAPR.

Do not wear this respirator until you have passed a medical evaluation using a medical questionnaire or an initial medical examination by a qualified physician or other licensed health care professional (PLHCP).

**Allergens:** No known common allergens are used in this product.

Some materials could cause an allergic reaction in susceptible individuals. If you have a known allergy or develop irritation, inform your employer. Irritation may occur from lack of cleaning. Follow all cleaning and care instructions provided in the instruction manuals for this and any other GVS-RPB products you are using.

## MAKE SURE THE SYSTEM IS READY FOR USE

**Make sure you have a complete system.** The PX5 is only one component of an approved respirator system. Verify that you have all required components for the PX5 to serve as a complete approved respirator:

- Respirator Head-top Assembly approved with the PX5
- Breathing Tube Assembly
- PX5 PAPR

*See Respirator Component Diagram (page 12).* See the instruction manual and approval label for the selected head top for approval with the PX5 and the assigned protection factor. Use only authentic GVS-RPB brand parts and components that are part of the approved respirator assembly. Using incomplete or inappropriate equipment, including the use of counterfeit or non-GVS-RPB parts, can result in inadequate protection and will void the approval of the entire respirator. Do not modify or alter any part of this product.

**Inspect** all components daily for signs of damage or wear and tear that may reduce the level of protection originally provided, see Inspection and Cleaning (p. 29) for details. Remove any damaged component or product, including any belt, breathing tube, battery door, seals, or front cover of the PAPR, from service until repaired or replaced. Damaged components should be replaced with genuine GVS-RPB brand replacement parts. Replace HE filter when they are visually dirty, filter media is damaged, or the airflow is reduced. OV/HE and Multi-Gas combination filters should be replaced after each use depending on the contamination. Inspect the prefilter and the spark arrestor for damage or blockage. Inspect the inside of the respirator for respirable dust or other foreign objects. Keep the inside of the respirator clean at all times.

**Make sure that the PAPR is correctly assembled** in the configuration that suits your application. Never use the respirator without a HE filter, OV/HE, or Multi-Gas combination filter in place depending on the application. It is recommended that a prefilter always be used. For applications



# PX5® PAPR

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## PRODUCT USER SAFETY INSTRUCTIONS CONTINUED

that produce sparks or high heat, use the FR (Fire Retardant) specific model of the PX5 with the FR belt and spark arrester. The PX5 must always be used with the correct filter(s), the front cover and the cowling to form a complete system, unless otherwise specified. An incomplete system could provide inadequate respiratory protection. *See Respirator Setup and Care (page 13).*

### VERIFY THAT YOU HAVE THE APPROPRIATE EQUIPMENT FOR YOUR ACTIVITY

Verify that the PX5 provides appropriate protection for your activity. When applicable, check your workplace safety program, respiratory protection program, and standards and regulations for your activity or industry. (See PROTECTION PROVIDED AND LIMITATIONS, page 4.)

### BEFORE DONNING THE PX5:

#### Verify airborne contaminants are within recommended limits for respirator use:

- Determine the type and level of contamination. Verify that airborne contaminant concentrations do not exceed those allowed by applicable regulations and recommendations for powered air purifying respirators or supplied air respirators.

#### Select the correct filter cartridge for the contamination and application:

- **PAPR:** Once the contamination level has been confirmed, determine the correct filter to be used for the application, to make sure that you are sufficiently protected.

#### Make sure the area is ventilated and monitored:

- Make sure that the area is well ventilated and that regular air samples are taken to confirm the atmosphere stays within the levels recommended by local regulations and other governing bodies.

If you have any questions, ask your employer.

### DO NOT ENTER THE WORK AREA if any of the following conditions exist:

- Atmosphere is immediately dangerous to life or health.
- You cannot escape without the aid of the respirator.
- Atmosphere contains less than 21% ±1% oxygen.
- If flammable or explosive atmosphere is present. This system contains electrical parts that are not suitable for use in such environments. The PX5 is not intrinsically safe.
- Contaminants are in excess of regulations or recommendations.
- Contaminants or contaminant concentrations are unknown.
- Work area is poorly ventilated.
- The work area is a confined space (unless proper measures are taken).
- The temperature is outside the range of -20°C to 50°C (-4°F to 122°F).

### LEAVE THE WORK AREA IMMEDIATELY IF:

- Any product component becomes damaged.
- Vision is impaired.
- Airflow stops or slows down, or alarm sounds. Do not use Powered Air Purifying Respirators if airflow is less than 170 slpm (6 cfm).

- Breathing becomes difficult.
- You become dizzy, nauseous, too hot, too cold, or ill.
- Your eyes, nose, or skin become irritated.
- You taste, smell, or see contaminants inside the helmet.
- You have any other reason to suspect that the respirator is not providing adequate protection.

**⚠ WARNING** **When the alarm sounds, keep the respirator turned on, filter installed, and breathing tube connected while leaving the work area. Wearing the respirator with power off is considered an abnormal situation. When the unit is turned off, it provides little or no respiratory protection. A rapid build-up of carbon dioxide and depletion of oxygen within the hood may occur. If this occurs, you may need to remove the respirator as you leave. (This respirator must not be used in an atmosphere immediately dangerous to life or health.)**

#### **PRODUCT CARE**

Never place the PX5 on hot surfaces. Do not apply paints, solvents, adhesives or self-adhesive labels except as instructed by GVS-RPB. This product may be adversely affected by certain chemicals.

See the "Inspection and Cleaning" section for cleaning instructions.

#### **INSTRUCTIONS FOR SPECIFIC USES OR ENVIRONMENTS**

##### **Welding and Grinding**

For welding, grinding, and other applications that produce sparks or high heat, be sure to use the FR (Fire Retardant) specific model of the PX5 with the FR belt and spark arrestor in place, see "Respirator Setup and Care" (page 13).

##### **Confined Spaces**

If this respirator is used in confined spaces, ensure the area is well ventilated and that all contaminant concentrations are below those recommended for this respirator. Follow all procedures for confined space entry, operation, and exit as defined in applicable regulations and standards.

##### **Welding in Confined Spaces**

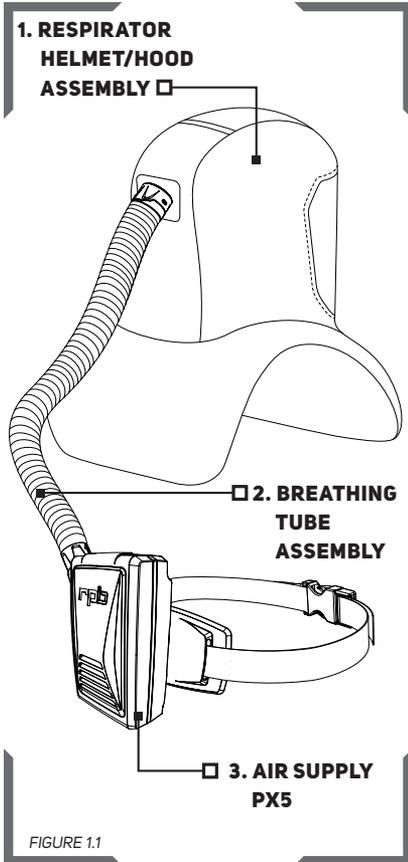
Welding in a confined space can present an atmospheric hazard due to the generation of contaminants and displacement of oxygen. A pressure-demand SCBA or a multifunctional pressure-demand supplied-air respirator with self-contained air supply shall be used during welding in confined spaces when welding can reduce the ambient oxygen level and supplemental ventilation and atmospheric monitoring are not provided. For more information on respirator types refer to local regulations and standards.

##### **Environments Containing Organic Vapors or Acid Gases**

Use the OV/HE Combination filter part# 03-893-A2 or the Multi-Gas Combination filter part# 03-894-ABE, 03-895-ABEK, or 03-896-ABEKHg.

## RESPIRATOR COMPONENT DIAGRAM

The GVS-RPB PX5 is one component of the three main components that constitute a powered air purifying respirator. (Note the T-Link® has been used in the diagram as an example.)



## CAUTIONS AND LIMITATIONS

### POWERED AIR

- A. Not for use in atmospheres containing less than 21% ±1% percent oxygen.
- B. Not for use in atmospheres immediately dangerous to life or health.
- C. Do not exceed maximum use concentrations established by regulatory standards.
- F. Do not use powered air-purifying respirators if airflow is less than 115 lpm (4 cfm) for tight fitting face pieces or 170 lpm (6 cfm) for hoods and/or helmets.
- H. Follow established cartridge and canister change schedules or observe ESL to ensure that cartridge and canisters are replaced before breakthrough occurs.
- I. Contains electrical parts that may cause an ignition in flammable or explosive atmospheres.
- J. Failure to properly use and maintain this product could result in injury or death.
- L. Follow the manufacturer's User's Instructions for changing cartridges, canister and/or filters.
- M. All approved respirators shall be selected, fitted, used and maintained in accordance with applicable regulations.
- N. Never substitute, modify, add or omit parts. Use only exact replacement parts in the configuration as specified by the manufacturer.
- O. Refer to user's instructions, and/or maintenance manuals for information on use and maintenance of these respirators.
- P. This respirator has not been evaluated for use as surgical mask.

# RESPIRATOR SETUP AND CARE

## BATTERY PACK



### WARNING

To reduce the risk of battery fire, explosion, fire, or electric shock with the charger, follow these precautions and procedures:

#### Before charging

- Allow the battery to cool before charging if it feels hot.
- Inspect the battery pack before every charge. If there are any cracks or damage do not charge the battery pack.
- Inspect the charger and power cords before use. Replace if any parts are damaged. Do not substitute, modify or add parts to the chargers. Do not attempt to service the chargers. There are no user-serviceable parts inside.
- Use only the provided charger and cord.

#### Where to charge

Charge only:

- indoors,
- in a dry area,
- away from sources of heat,
- away from anything that can burn if exposed to heat or flame,
- in a well-ventilated place,
- where the charger can be monitored and easily observed during charging.

For mounting battery chargers to DIN rail, purchase the desired length from any electrical supply company "Top Hat Rail IEC/EN 60715" 35mm tall. 7.5 or 15 mm depth rail can be used. See "INSTALL BATTERY CHARGER ON A WALL" section for more instructions.

#### Battery care for Part # 03-855

- Do not use the battery outside the recommended temperature limits -20°C to 50°C (-4°F to 122°F).
- Do not charge the battery outside the recommended temperature limits 0° C to 45° C (32° F to 113° F).
- Do not store the battery outside the recommended temperature limits  
Less than 1 month: -20° C to 50° C (-4° F to 122° F) <90% RH  
Less than 3 months: -20° C to 45° C (-4° F to 113° F) <85% RH  
Less than 12 months: -20° C to 20° C (-4° F to 68° F) <85% RH

#### Battery care for Part # 03-856

- Do not use the battery outside the recommended temperature limits -4° F to 140° F (-20° C to 60° C)
- Do not charge the battery outside the recommended temperature limits 32° F to 113° F (0° C to 45° C).
- Do not store the battery outside the recommended temperature limits of:  
Less than 1 month: -20° C to 50° C (-4° F to 122° F) <90% RH  
Less than 3 months: -20° C to 40° C (-4° F to 104° F) <85% RH  
Less than 12 months: -20° C to 20° C (-4° F to 68° F) <85% RH

## RESPIRATOR SETUP AND CARE CONTINUED

Do not disassemble or immerse the battery or charger in water or other liquids. The battery can short if the contacts are accidentally connected by metal other than the PX5 or the charger. To reset the battery, place the battery on the charging station. The battery will be ready to use again. While measures have been taken to protect the battery, damage can still occur, so be careful not to short any contacts together.

### Long term storage

The battery has a shelf life of 6 months. Charge the battery until only 2 LEDs have been displayed on the charger for around 20 minutes before storing. Then place on the charger for 1½ hours every 3 months. If battery pack has 3 green flashing lights on at start of charging, wait another 3 months before charging. Battery capacity can be checked by inserting it into a PX5 and power it on, checking the battery meter on the side. Long term battery storage should be done at 40-60% capacity in a cool dry place, such as a refrigerator. A battery stored at 100% charge and at higher storage temperatures, the more permanent capacity loss will occur. If the battery gets below its minimum voltage it could result in an unrecoverable dead battery and could be dangerous to attempt charging.

### Disposal

Dispose of battery packs according to local regulations. Do not crush, disassemble, dispose of in standard waste bins, in a fire, or send for incineration. Failure to properly dispose of battery packs may lead to environmental contamination, fire or explosion.

## CHARGING THE BATTERY PACK

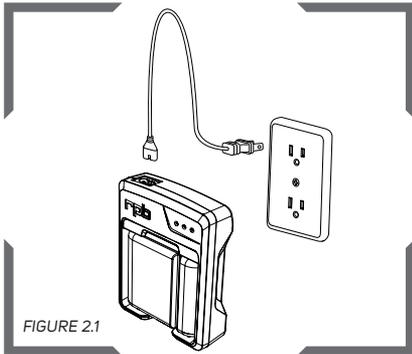


FIGURE 2.1

Connect the power cord to the charging station. Connect the other end of the power cord to the electrical source (110-240v).

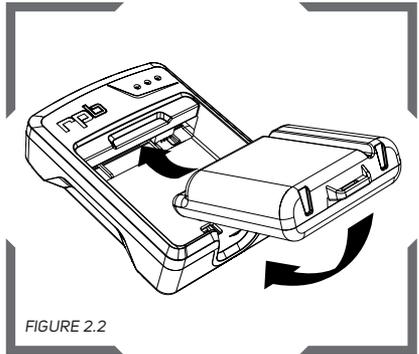


FIGURE 2.2

Fit the battery into the charging station by sliding the top of the battery into the charger housing and then rotate the battery down until it clicks into place.

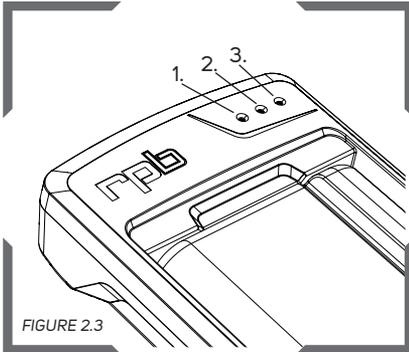


FIGURE 2.3

Follow the indicator lights on the top right corner of the charging station to know the status of the charge process. 1 blinking LED = low charge. 2 blinking LEDs = medium charge, 3 blinking LEDs = high charge, 3 solid LEDs = fully charged, approx. 95-100% charged.

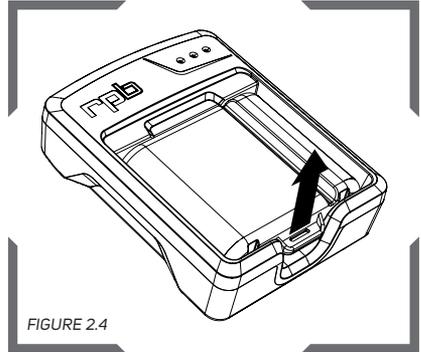


FIGURE 2.4

To remove the battery from the charging station, grip the charger housing firmly if not fixed in place, pull up on the tab on the bottom of the battery and slide the battery from the charger housing.

### INSTALL BATTERY CHARGER ON A WALL

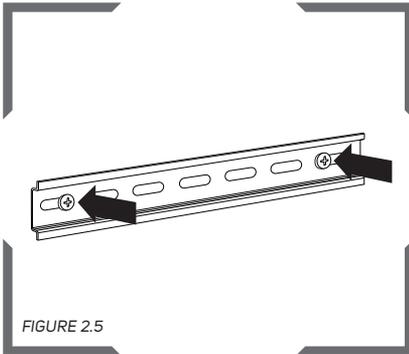


FIGURE 2.5

Using a desired length of DIN rail, depending on how many chargers you want to mount to it. Screw the DIN rail into the desired location for charging. Ensure the location of this mount meets those specified in the recommendations on page 13.

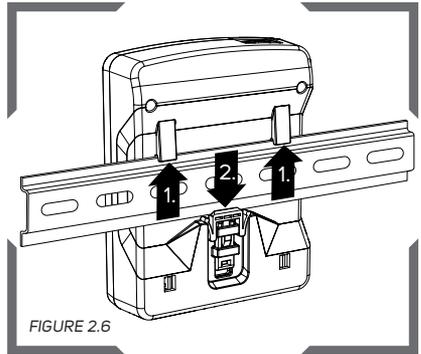


FIGURE 2.6

Hook the battery charger using the small tabs on the back over the top edge of the DIN rail (1.) and then rotate it down until it clicks over the bottom edge of the DIN rail (2.). The bottom tab should return to the resting location. Pull gently to test.

## RESPIRATOR SETUP AND CARE CONTINUED

### MULTIPLE CHARGERS ONTO A DIN RAIL

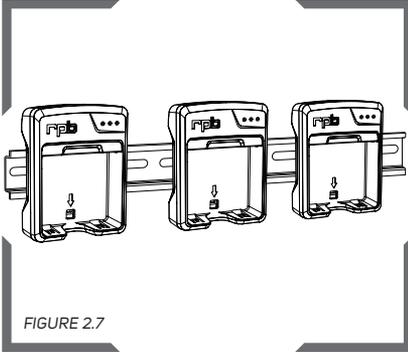


FIGURE 2.7

If required, multiple chargers can be mounted onto the DIN rail as per figure 2.6.

### REMOVE CHARGER FROM DIN RAIL

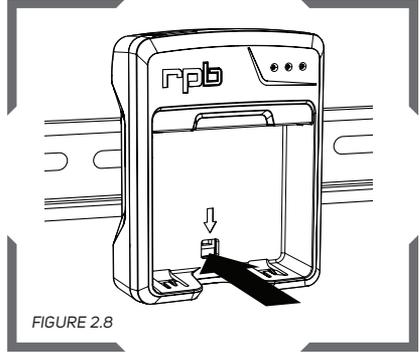


FIGURE 2.8

Remove the charger from the DIN rail using a flat head screw driver. Pull down the tab inside the cutout in the charger to release the clip from the DIN rail. Pull the charger from the DIN rail at the bottom and then lift the charger off.

### INSTALL THE BATTERY PACK

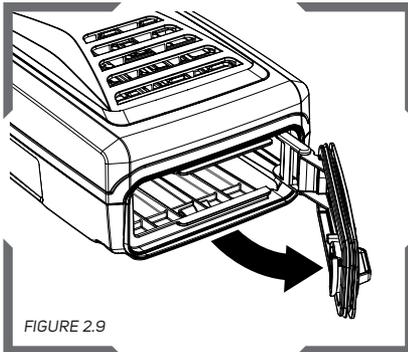


FIGURE 2.9

To insert the battery into the PX5, open the battery compartment door on the bottom of the unit by twisting the knob to "unlocked".

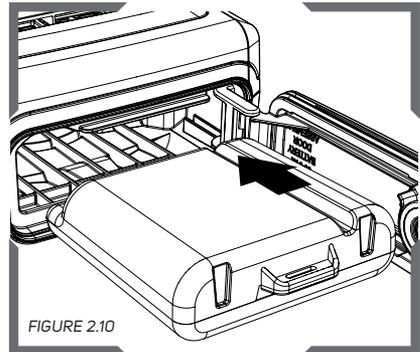


FIGURE 2.10

Slide the battery into the battery compartment of the PX5 by lining up the slot on the battery with the guide on the inside of the unit.

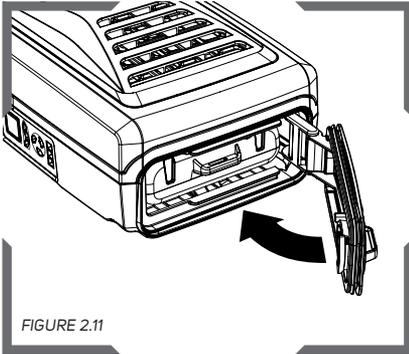


FIGURE 2.11

Close the battery compartment door, making sure the seal around the door properly seats and the latch securely engages. The door must be completely closed and sealed for the IP 65 rating and to protect the unit from damage from liquids or debris.

### CHANGE BATTERY DOOR SEAL

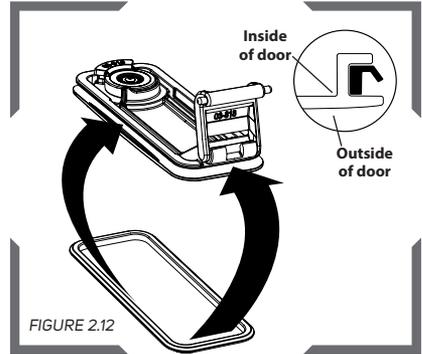


FIGURE 2.12

With the battery door off or open, remove the old seal. Note the orientation of the lip on the seal. Place the new seal into position by stretching it around the door, into the channel around the edge of the door.

### REPLACE THE BATTERY DOOR HINGE



FIGURE 2.13

Remove the battery door, then slide the hinge back into the unit to remove it from the track inside of the battery compartment.

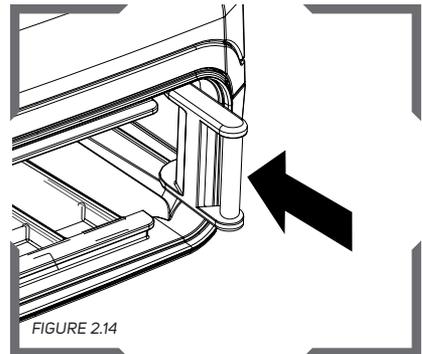


FIGURE 2.14

Slide the new hinge into the battery compartment with the pegs on the hinge in the tracks. Then snap the battery door onto the hinge crossbar.



# PX5<sup>®</sup> PAPR

Protecting you for life's best moments.

## RESPIRATOR SETUP AND CARE CONTINUED

### FILTERS

Before installing a filter, make sure that the sealed plastic packaging is still intact. Once the seal is broken the filter is exposed to the environment and may become contaminated. Before inserting the filter make sure that the following points are checked:

1. Check the PAPR is turned off and the fan is not running before opening the door of the unit.
2. Inspect the filter for tears or any sign of damage to the filter media.
3. Inspect the seal on the back side of the filter is clean and free of cuts or distortions.
4. Mark the installation date/time onto the filter or cartridge.

#### High Efficiency (HE) Filter

Use the O3-892-P HE filter in atmospheres that contain only solid or liquid particulates, such as dusts, mists, or fumes.



#### WARNING

**The HE filter does not remove organic vapors or acid gases. Use the O3-893-A2 OV/HE, O3-894-ABE or O3-895-ABEK Multi-Gas combination filters for those types of contaminants.**

#### Organic Vapor/High Efficiency (OV/HE) A2P Combination Filter

Use the OV/HE combination filter O3-893-A2 in atmospheres that may contain organic vapors and gases, such as solvents, and gases. Some of these gases and vapors include sulphur dioxide, chlorine, hydrogen chloride, hydrogen fluoride, chlorine dioxide and organic vapors.

#### Multi-Gas/High Efficiency ABE1P Combination Filter

Use the Multi-Gas combination filter O3-894-ABE in atmospheres that may contain gases such as Organic vapors, Sulfur dioxide, Chlorine dioxide, Chlorine, Hydrogen chloride, Hydrogen sulfide, Methylamine, Hydrogen fluoride, and Formaldehyde.

#### Multi-Gas/High Efficiency ABEK1P Combination Filter

Use the Multi-Gas combination filter O3-895-ABEK in atmospheres that may contain gases such as Organic vapors, Sulfur dioxide, Chlorine dioxide, Chlorine, Hydrogen chloride, Hydrogen sulfide, Methylamine, Hydrogen fluoride, Ammonia, and Formaldehyde.

#### Multi-Gas/High Efficiency A2B2E1K1HgP Combination Filter

Use the Multi-Gas combination filter O3-896-ABEKHg in atmospheres that may contain gases such as Organic vapors, Sulfur dioxide, Chlorine dioxide, Chlorine, Hydrogen chloride, Hydrogen sulfide, Methylamine, Hydrogen fluoride, Ammonia, Formaldehyde, and Mercury Vapour.

Some substances, such as carbon monoxide, can not be filtered out with a PAPR and may require supplied air or SCBA.



#### WARNING

**Gas filter classification do not indicate the performance of the device in actual use at the workplace and in relation to established occupational exposure limits.**

#### Service Life of HE Filter, OV/HE Combination Filter, Multi-Gas Combination Filters, Prefilter and Spark Arrestor

Filters must be replaced in accordance with the replacement schedule in your respiratory

protection plan using the in service date and time marked on the filter at installation.

The HE filter should be replaced if the airflow alarm is activated, or the flow indicator reading falls below the 6cfm (170 slpm) minimum airflow. The HE filter should also be replaced if there is damage to the filter media, such as a tear or puncture, etc., or the filter media becomes wet. The PX5 is approved to only be used with genuine GVS-RPB filters and cartridges.

The OV/HE or Multi-Gas combination filters should be replaced after each use or as determined by the employer based on exposure calculations, or if any of the above HE filter conditions apply.

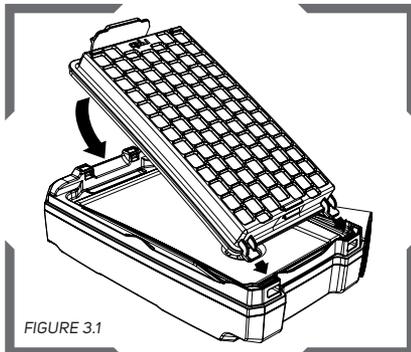
The Prefilter is recommended to be replaced when it is dirty or damaged or at the same time as the HE, OV/HE, or Multi-Gas Filter. The Spark Arrestor should be replaced if it becomes damaged or clogged with debris.



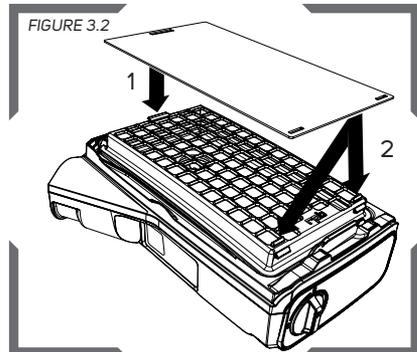
## WARNING

**The minimum breakthrough times are intended for laboratory tests under standardized conditions. They do not give an indication of possible service time in practical use which can differ from the breakthrough time in both directions, positive and negative depending on the conditions of use.**

### TO INSTALL THE HIGH EFFICIENCY FILTER AND PREFILTER



Mount the 03-892-P HE Filter into the PX5 by placing the tabs through the slots in the top edge of the PX5 filter area and rotate the filter down until the bottom tab snaps into place. Check that both tabs on the filter latch are secure.



The prefilter can be attached to the HE Filter or Gas Combination Filter before or after the filters are installed onto the PAPR. Secure the prefilter onto the top tab (1.) on the HE filter and then over the bottom tabs (2.) on the bottom of the filter.

## RESPIRATOR SETUP AND CARE CONTINUED

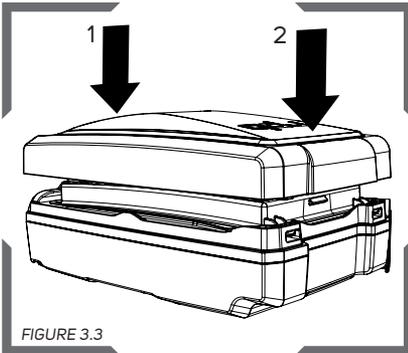


FIGURE 3.3

Orient the filter door with the handle cutout towards the top, opposite the battery door. Reattach the filter door by placing the door over the unit with filter in place and pressing on top (1) and bottom (2) until firm. You should hear a click and there should be little to no gap visible when clipped.

**⚠ WARNING** The PX5 filter doors will not attach without a filter or combination filter in place. Never use the PAPR without a filter combination filter in place.

### TO INSTALL THE OV/HE OR MULTI-GAS COMBINATION FILTER

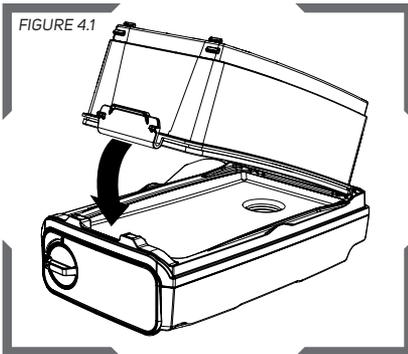


FIGURE 4.1

Slide the two tabs on the top end of the filter into the slots on top edge of the PX5. Rotate the filter down until the bottom tab snaps into place. Check that both tabs on the filter latch are secure. Install prefilter onto the gas filter following the same steps as in Figure 3.2.

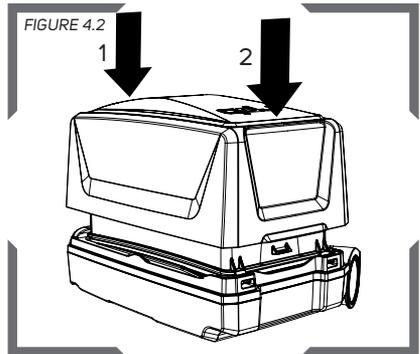
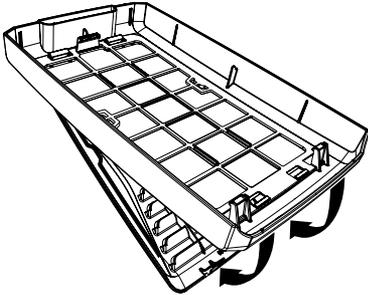


FIGURE 4.2

Attach the filter door by placing the door over the unit with filter in place and pressing on top (1) and bottom (2) until firm. You should hear a clip and there should be little to no gap visible when clipped. Note, filter must be attached for the door to assemble.

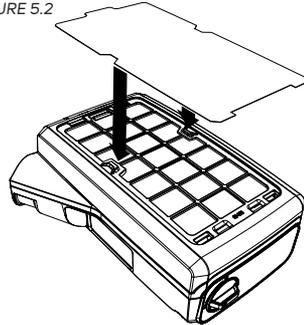
## TO INSTALL/REPLACE THE SPARK ARRESTOR

FIGURE 5.1



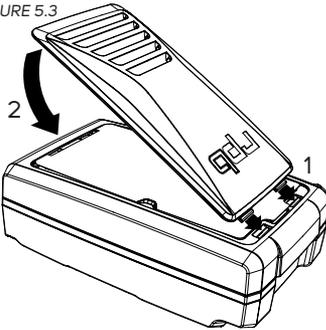
Remove the green spark arrester cover by removing the filter door and then pushing up on the tabs that hold the spark arrester cover in place.

FIGURE 5.2



Place the filter door back onto the PX5. Secure the spark arrester under the tabs on the front of the filter door.

FIGURE 5.3



Reattach the spark arrester cover by rotating the tabs on the top into the slots in the filter door (1). Rotate the cover down until it clips in securely at the bottom (2).

## RESPIRATOR SETUP AND CARE CONTINUED

### FILTER REMOVAL

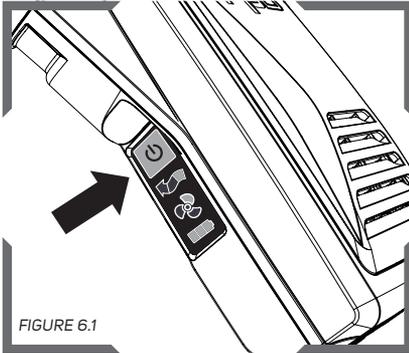


FIGURE 6.1

Make sure the PX5 fan unit is turned off before opening the Filter Door. (Note: Press and hold button to power off.) If the unit is on, contaminants may get pulled into the unit and the suction may make it hard to remove the filter.

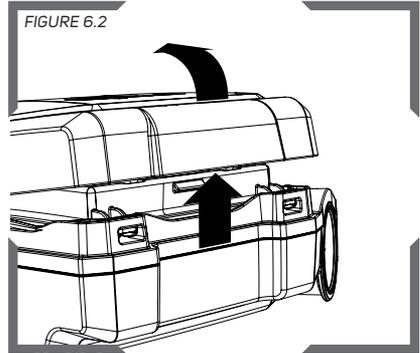


FIGURE 6.2

(1.) Lift up the back edge of the top of the filter door, (2.) rotate the door up and remove.

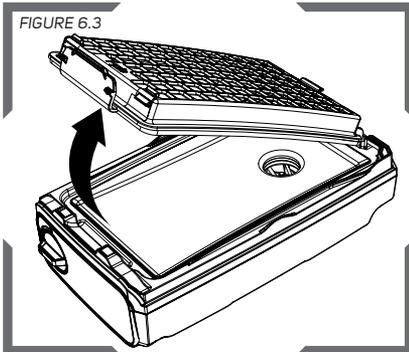


FIGURE 6.3

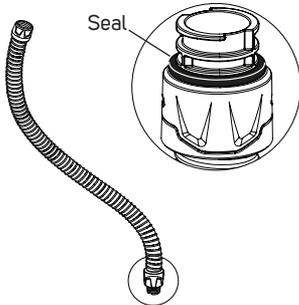
Remove the filter from the PX5 by pressing on the tab at the bottom end of the filter and lift up. Dispose of it in a responsible and safe manor in accordance with regulations. Install new filter and inspect/replace O3-890 prefilter.

### **⚠ WARNING**

**Depending on the contaminants filtered by the PX5, the used filter itself may be hazardous. Take appropriate precautions when handling to avoid exposure to released contaminants; a company disposal procedure may be needed.**

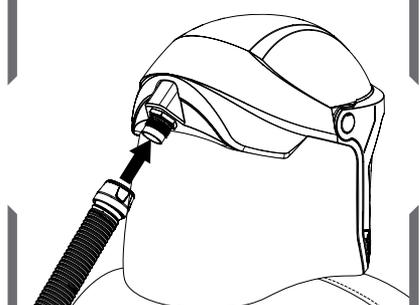
## BREATHING TUBE

FIGURE 7.1



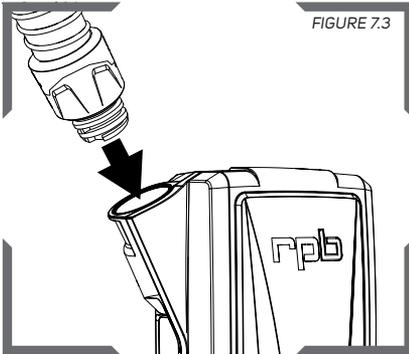
Inspect the breathing tube (04-831) and ensure there is no damage and that the o-rings are in place and in good condition.

FIGURE 7.2



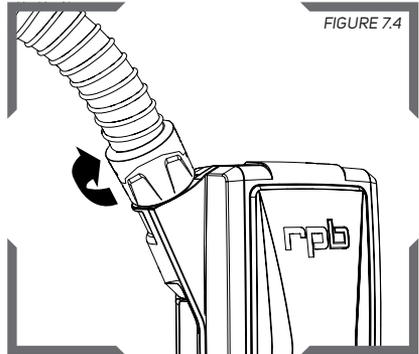
Screw the threaded end onto the inlet of the respirator.

FIGURE 7.3



Take the bayonet end, insert the connection into the PX5 and make sure the slots line up with the pegs in the PX5 outlet.

FIGURE 7.4



Twist the breathing tube clockwise 1/2 turn to lock into position. Make sure that it is fully locked in position.

## RESPIRATOR SETUP AND CARE CONTINUED

### POWER BUTTON

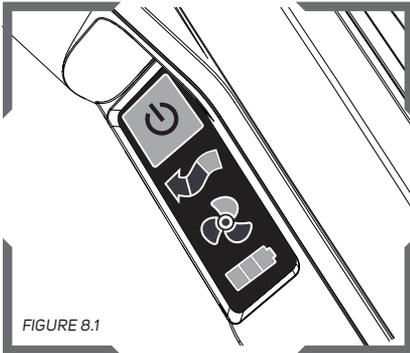


FIGURE 8.1

The power button is on the left side of the unit as you look at the front of the PX5. **POWER ON:** Press and hold the power button (for about 1 second). The unit will vibrate and make an audible beep on start-up. Note the unit will always start up in the low speed setting and should reach nominal flow within 5-10 seconds. Allow the unit to warm up for 5 minutes or until the flow meter (O3-819) is in the safe range before use, so that there is sufficient air flow. (See the Flow Tube section for how to read the measurement.)

**POWER OFF:** Press and hold the power button (for about 1 second) and the unit will turn off.

### INDICATOR LIGHTS AND ALARMS

The indicator lights are an advance indicator for air flow and the battery to notify the user of the status of the unit before donning or to be checked while in use. If the alarm sounds, leave the work area immediately to troubleshoot the cause of the alarm. Alarm volume is 85 dBA at 4" (104 mm) from the unit.

#### ALARMS TABLE 1.1

|                                 |  |
|---------------------------------|--|
| <b>LOW AIRFLOW ALARM</b>        | The alarm sounds with a flashing red LED in the flow indicator when the airflow to the hood falls to 6 cfm (175 slpm) for more than 5-10 seconds in duration.  |
| <b>LOW BATTERY CHARGE ALARM</b> | The alarm sounds with a flashing red LED in the battery indicator when there is 5% or less charge remaining in the battery. The unit will continue to operate for 12 minutes. This data was gathered in a laboratory under ideal conditions and may not be reflective of working conditions. Always vacate the contaminated area immediately after the alert sounds. |
| <b>BATTERY OVERHEATING</b>      | The alarm will sound if the battery is overheating. If the unit is operated outside the operating temperature range for 10 minutes the battery alarm will activate.  |
| <b>OTHER ALARMS</b>             | The alarm sounds if there is a battery fault or a general system failure at startup or during operation in combination with flashing LEDs.   |

### **⚠ WARNING**

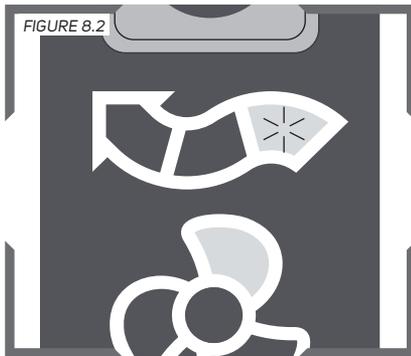
**When the alarm sounds, keep the respirator turned on, filter installed, and breathing tube connected while leaving the work area. When the unit is in the 'powered off' state, it provides little or no respiratory protection. This is considered an abnormal situation. A rapid build-up of carbon dioxide and depletion of oxygen within the hood may occur. If this occurs, you may need to remove the respirator as you leave. (This respirator must not be used in an atmosphere immediately dangerous to life or health.)**

## HE FILTER BLOCKAGE INDICATOR LIGHTS



### WARNING

The HE Filter Blockage Indicator Lights warn about the airflow related to the HE filter. They do not indicate the service life of gas filters. For gas filtration, follow the replacement plan specified in your respiratory protection program.



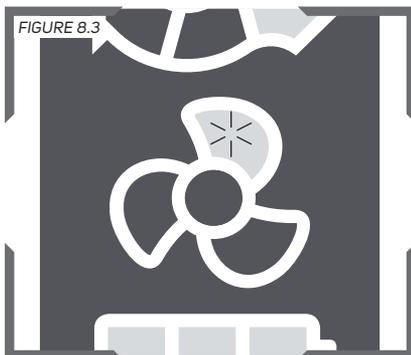
unit down and resolve the problem. Check the filter for blockage or anything obstructing the air path to the head-top. If the filter is blocked due to contaminants, replace the filter with a new one.

HE Filter blockage is indicated on the User Interface Panel by the multi-colored arrow under the power button.

- Green = Normal operation
- Yellow = Adequate airflow, Some blockage detected, HE filter at 20% or less capacity left for filtration.
- Red = Blockage detected - either airflow path is obstructed or HE filter is at 10% or less remaining capacity.
- Alarming = Blockage more severe, safely exit the work area.

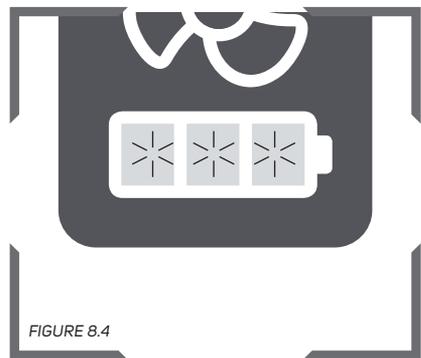
Once outside of the work area, power the

## FAN SPEED



Speed Settings: Cycle through the 3 speed settings by pressing the Power Button. Each short button press will advance through these speed settings.

## BATTERY LEVEL

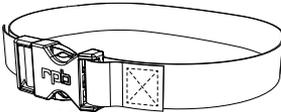


The battery level is indicated by the battery shaped LED panels on the side of the PX5. 3 green LEDs = fully charged, 2 green LEDs = 25-75% charged, 1 green LED = less than 25% charged, 1 red LED blinking and alarm = 5% or less charge remaining, the battery needs to be charged and is about to turn off.

## RESPIRATOR SETUP AND CARE CONTINUED

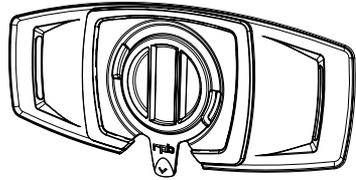
### BELT REPLACEMENT

FIGURE 9.1



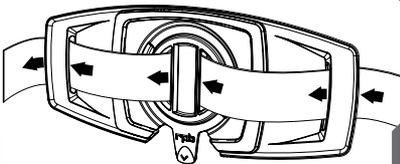
Choose the appropriate belt for the working environment. We offer a variety of belt options for different applications. Refer to the parts list for available belt options.

FIGURE 9.2



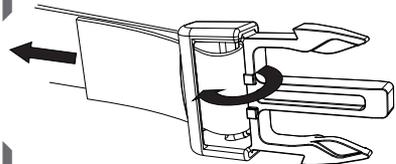
To thread the belt through the support mount, start with it detached from the PX5.

FIGURE 9.3



Thread the belt through the belt mount as shown above, note the orientation.

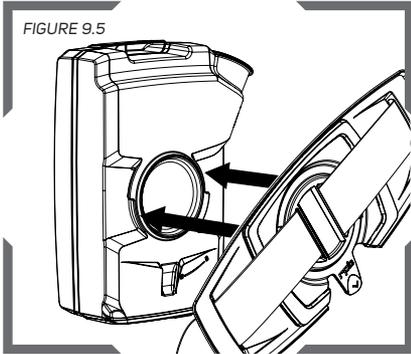
FIGURE 9.4



Now thread the clip end of the buckle onto the belt and pull to the desired length in the sequence shown above.

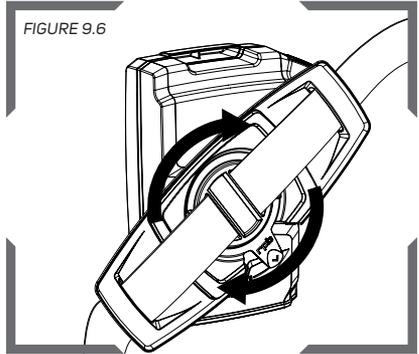
## BELT/BACKPACK SUPPORT MOUNT ATTACHMENT

FIGURE 9.5



Line up the circular slots of the mount with the tabs on the back of the PX5. The locking tab on the belt mount should be facing towards the bottom.

FIGURE 9.6

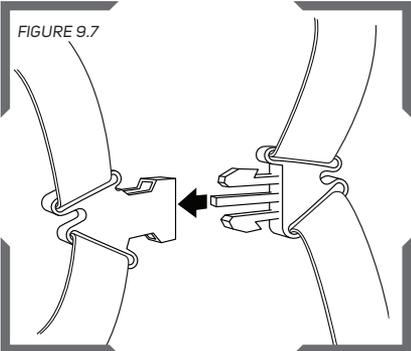


Following the "lock" and "unlock" symbols with the arrow on the belt mount. Rotate the mount until the tab clicks over the raised ramp on the back of the PX5. Check that it is secure.

Attach the backpack in the same way as the belt.

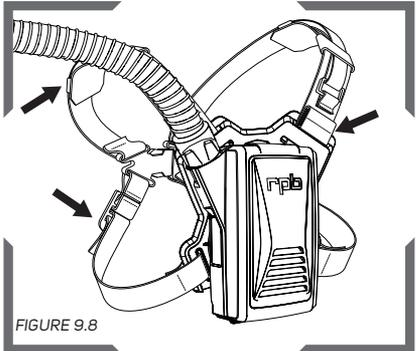
## BACKPACK HARNESS ADJUSTMENT

FIGURE 9.7



Put your arms through the straps like a backpack, then clip the chest buckle together.

The Backpack can be worn with the PX5 on the back or on the chest.



With the backpack harness on, adjust the straps to a comfortable tightness so the PX5 does not move around .



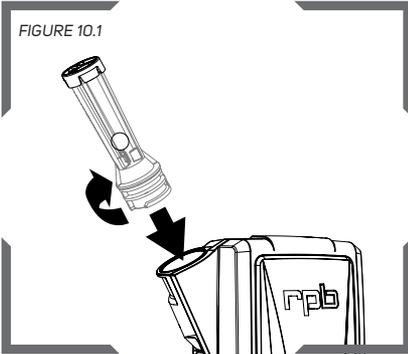
# PX5<sup>®</sup> PAPR

Protecting you for life's best moments.

## RESPIRATOR SETUP AND CARE CONTINUED

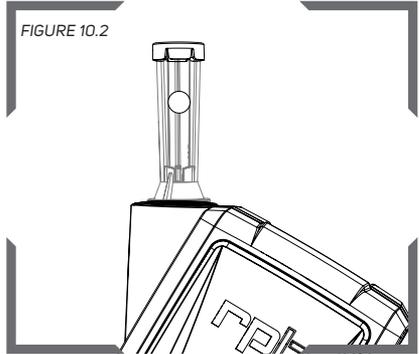
### FLOW METER USE

FIGURE 10.1



Insert the flow meter into the air outlet. Line up the bayonet slots and turn clockwise 1/2 turn until it locks into place.

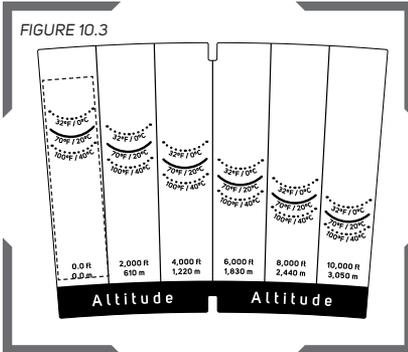
FIGURE 10.2



Turn the PX5 unit on and then orientate the unit so the flow meter is pointing straight up or vertical to achieve the most accurate results.

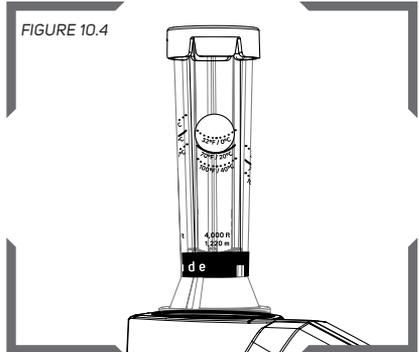
### HOW TO READ THE FLOW METER LABEL.

FIGURE 10.3



The flow meter levels are grouped by temperature and altitude. Ex.: dashed box shows levels for different temps at 0ft above sea level. Choose the altitude closest to the altitude where the check is being performed.

FIGURE 10.4



When the PX5 is on speed 1, the ball will float inside the flow meter. Ensure that it sits above the curved line for the altitude and temp for where the check is being performed. Ex: 1,200m above sea level and 20°C.

**Flow Meter Detailed instructions**

Determine your location's elevation and the current temperature. Note that these parameters must represent the environment where the air flow check is being conducted, not the work environment the unit is to be used in afterwards. If the environment changes after conducting the air flow test, the unit will automatically adapt to any changes in air pressure or temperature.

Refer to an altimeter or lookup table to determine your location's altitude. Refer to a thermometer to find out the current temperature of your environment. Consult your supervisor if you are uncertain about any of these parameters.

Check the green altitude indications to find the value closest to your location's altitude. Check the temperature markings vertically aligned with that altitude indication to find the one closest to the temperature of your environment. This is the minimum flow rate marker to be checked to. Insert the flow meter into the outlet of the PX5 and rotate 1/2 turn to lock in place. Tilt the PX5 so that the flow meter is vertical. Turn on the PX5 leaving it on Speed 1 and let the air stabilize over a 30 second period. With the meter still in the vertical position check that the ball is sitting above the minimum flow rate marker for your altitude and temperature.

Note that the Airflow Meter is labelled with altitude indications in meters as well as in feet. Temperature indications are printed in °F as well as in °C. Make sure to read the Airflow Meter at the proper units.

Do not use the PX5 if the meter does not reach the minimum airflow rate on the flow meter. Low airflow will decrease the level of protection provided.



# PX5® PAPR

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## RESPIRATOR SETUP AND CARE CONTINUED

### INSPECTION, CLEANING AND DISINFECTING

Before each use, the unit should be inspected for the following points. This helps to determine that the unit is operating as it was designed and it is suitably protecting the operator:

1. **PX5 PAPR SYSTEM:** Make a visual inspection of the entire unit, which includes the motor housing, filter door and door cover, filter and pre-filters, battery, belt and breathing tube. Also inspect that an approved hood is attached.
2. **BATTERY PACK:** Check that the battery has full charge to confirm that there is sufficient charge for the work period that you need to accomplish. Make sure that the battery door seal is in good condition and the door is securely closed.
3. **BREATHING TUBE:** Inspect the breathing tube completely, looking for splits and cracks in the tube, the fittings are held securely in the tube and that the seal is in place on the bayonet fitting that inserts into the PX5. Make sure that the breathing tube fits firmly into the PX5 and seals without any leaks around the connection. See Fig 5.3 and 5.4
4. **HE FILTER:** Inspect the filter casing for cracks and distortions that will affect the seal to the PX5 unit. Inspect the filter paper and the seal carefully for any of the following defects; dirt, cuts and tears, distortions or indentations. The seal can be wiped clean with a damp cloth to remove dirt particles. Do not use solvents or detergents. The HE filter paper must not be cleaned or submersed in water at any time. Damage to the HE filter paper will affect its ability to filter the air and could expose users to harmful environments. All damaged filters, pre-filters and spark arresters must be replaced before using the PX5.
5. **OV/HE COMBINATION FILTER AND MULTI-GAS COMBINATION FILTER:** Do not clean and reuse the 03-893-A2, 03-894-ABE, 03-895-ABEK, or the 03-896-ABEKHg combination filters. This filter is one-time use only. Dispose of properly according to government regulations depending the contaminants it may have been exposed to.
6. **AIRFLOW METER:** Check the ball in the 03-819 airflow meter is moving freely. Insert the flow meter into the outlet of the PX5 and rotate 1/2 turn to lock in place so that it is sitting vertical. Turn on the PX5 and let the air stabilize over a 30 second period. With the meter still in the vertical position check that the ball is sitting above the minimum flow rate marker for your altitude.

Do not use the PX5 if the meter does not reach the minimum airflow rate on the flow meter. Low airflow will decrease the level of protection provided. See the Flow Meter Usage section for instructions.

7. **ALARM SIMULATION:** Check the operation of the airflow alarm is functioning correctly. Power on the PX5 and wait for 5-10 seconds for it to reach nominal flow. Then place the palm of your hand over the outlet on the PX5. Continuing to hold your hand tightly over the outlet, with the airflow restricted until the alarm sounds, (audible alarm, vibration, and red LED indicator on the User Interface) after 5-10 seconds, indicating that the airflow is below the minimum airflow. Remove your hand and the alarm and LED should return to normal operation once the airflow is back to safe levels.

8. **CLEANING:** The PX5 unit can be cleaned with a damp cloth and diluted mild, pH neutral detergent or diluted isopropyl alcohol (70% IPA or lower) on the external surfaces and the face of the fan motor housing for dirt and contamination. Do not use organic solvents, abrasive cleaners or high percentage ethanol. If you are unsure about the use of cleaning chemicals on the PX5 unit please contact GVS-RPB. The PX5 should not be submersed in water, cleaning solution or placed in a respirator washer. A cleaning kit that allows the PX5 to be submersed will be released at a later date.
9. **BELT SUPPORT BRACKET OR BACKPACK:** Check the Belt Support and belt for cracks, rips, or tears. If cracks or excessive wear is present, they should be replaced. To replace the Belt Support (03-811), remove the bracket from the PX5. Unthread the belt from the Belt Support. Thread in the new belt or backpack straps and reattach to the PX5.

## **STORAGE**

The PX5 should not be stored with the filter or battery attached if not being used for long periods of time. Store in a clean and dry environment, away from direct heat sources between -10° C and +45° C (14° F and 114° F) , at a relative humidity of less than 90%.

See Table 1.3 and 1.4 for battery storage recommendations.

The battery door should be closed during storage or when the unit is not in use to reduce dust or contaminant ingress.

All filters should be stored in the sealed plastic bag that they came in. Open, unused filters should be stored in an airtight plastic bag or container so that they are not exposed to contamination. Depending on the contaminants, used filters should be placed in an air tight plastic bag so that contaminants are contained and then be disposed of according to regulations.



# PX5<sup>®</sup> PAPR

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## PRODUCT SPECIFICATIONS AND DATA TABLE 1.3

|  |   |
|--|---|
| <b>AIR FLOW</b>  | <p>M MDF: 170slpm (6cfm).<br/>         Speed 1: Greater than 180slpm (6.4cfm).<br/>         Speed 2: Greater than 205slpm (7.2cfm)<br/>         Speed 3: Greater than 230slpm (8.1cfm)</p>  |
| <b>OPERATING TEMPERATURE</b>   | -20°C to 50°C (-4°F to 122°F). If the unit is operated outside this temperature range for 10 minutes the battery alarm will activate.   |
| <b>OPERATING NOISE</b>   | <p>Speed 1: 57 dBA at 305mm (12") from the unit.<br/>         Speed 2: 59 dBA at 305mm (12") from the unit.<br/>         Speed 3: 62 dBA at 305mm (12") from the unit.</p> <p>Note: readings were taken at the distance listed from the front of the unit when connected to a T-Link<sup>®</sup> Respirator at the 3 speed settings</p> |
| <b>STORAGE TEMPERATURE</b>   | -10° C to 45° C (14° F to 113° F) <90% RH.  |
| <b>PRODUCT STORAGE LIFE</b> (from new if kept in original sealed packaging)<br><b>A. MOTOR/FAN UNIT</b><br><b>B. BATTERY PACK</b><br><b>C. FILTERS</b> | <p>A. 5 years<br/>         B. 1 year<br/>         C. 5 years</p>  |
| <b>INTRINSIC SAFETY</b>  | The PX5 PAPR is NOT classed as an Intrinsically Safe Device.  |
| <b>ASSIGNED PROTECTION FACTOR (APF)</b>  | The assigned protection factor is dependent on the type of respirator used with the PX5 PAPR.   |

### 03-855 BATTERY SPECIFICATIONS AND DATA TABLE 1.4

|                                    |   |          |          |          |             |
|------------------------------------|---|----------|----------|----------|-------------|
| <b>OPERATING TEMPERATURE</b>       | -4° to 122°F (-20° to 50°C). If the unit is operated outside this temperature range for 10 minutes the battery alarm will activate.<br>If the internal battery temperature reaches 60° C (140° F) the unit will completely shut down.   |          |          |          |             |
| <b>BATTERY STORAGE TEMPERATURE</b> | Less than 1 month: -20° to 50° C (-4° F to 122° F) <90% RH<br>Less than 3 months: -20° to 45° C (-4° F to 113° F) <85% RH<br>Less than 12 months: -20° to 20° C (-4° F to 68° F) <85% RH  |          |          |          |             |
| <b>BATTERY RUN TIMES</b>           | P   | A2P      | ABE1P    | ABEK1P   | A2B2E1K1HgP |
| SPEED 1                            | >10 hours   | >5 hours | >5 hours | >5 hours | >5 hours    |
| SPEED 2                            | >7 hours  | >4 hours | >4 hours | >4 hours | >4 hours    |
| SPEED 3                            | >6 hours  | >4 hours | >4 hours | >4 hours | >4 hours    |
|                                    | Note that these times are estimated from testing using a new battery and new clean filter at 21°C (70°F). These times could be longer or shorter depending on environments and configurations.<br><b>Note: you should consult with your transport specialist before transporting Lithium-ion batteries.</b> |          |          |          |             |
| <b>BATTERY CHARGING</b>            | 5 hours, 300+ cycles with battery life greater than 80% of original   |          |          |          |             |

### 03-856 BATTERY SPECIFICATIONS AND DATA TABLE 1.5

|                                    |   |          |          |          |             |
|------------------------------------|---|----------|----------|----------|-------------|
| <b>OPERATING TEMPERATURE</b>       | -4° to 140°F (-20° to 60°C). If the unit is operated outside this temperature range for 10 minutes the battery alarm will activate.<br>If the internal battery temperature reaches 70° C (158° F) the unit will completely shut down.   |          |          |          |             |
| <b>BATTERY STORAGE TEMPERATURE</b> | Less than 1 month: -20° to 50° C (-4° F to 122° F) <90% RH<br>Less than 3 months: -20° to 40° C (-4° F to 104° F) <85% RH<br>Less than 12 months: -20° to 20° C (-4° F to 68° F) <85% RH  |          |          |          |             |
| <b>BATTERY RUN TIMES</b>           | P Filter  | A2P      | ABE1P    | ABEK1P   | A2B2E1K1HgP |
| SPEED 1                            | >10 hours   | >5 hours | >5 hours | >5 hours | >5 hours    |
| SPEED 2                            | >7 hours  | >4 hours | >4 hours | >4 hours | >4 hours    |
| SPEED 3                            | >6 hours  | >4 hours | >4 hours | >4 hours | >4 hours    |
|                                    | Note that these times are estimated from testing using a new battery and new clean filter at 70°F (21°C). These times could be longer or shorter depending on environments and configurations.<br><b>Note: you should consult with your transport specialist before transporting Lithium-ion batteries.</b> |          |          |          |             |
| <b>BATTERY CHARGING</b>            | 5 hours, 500+ cycles with battery life greater than 80% of original   |          |          |          |             |

### PARTS AND ACCESSORIES

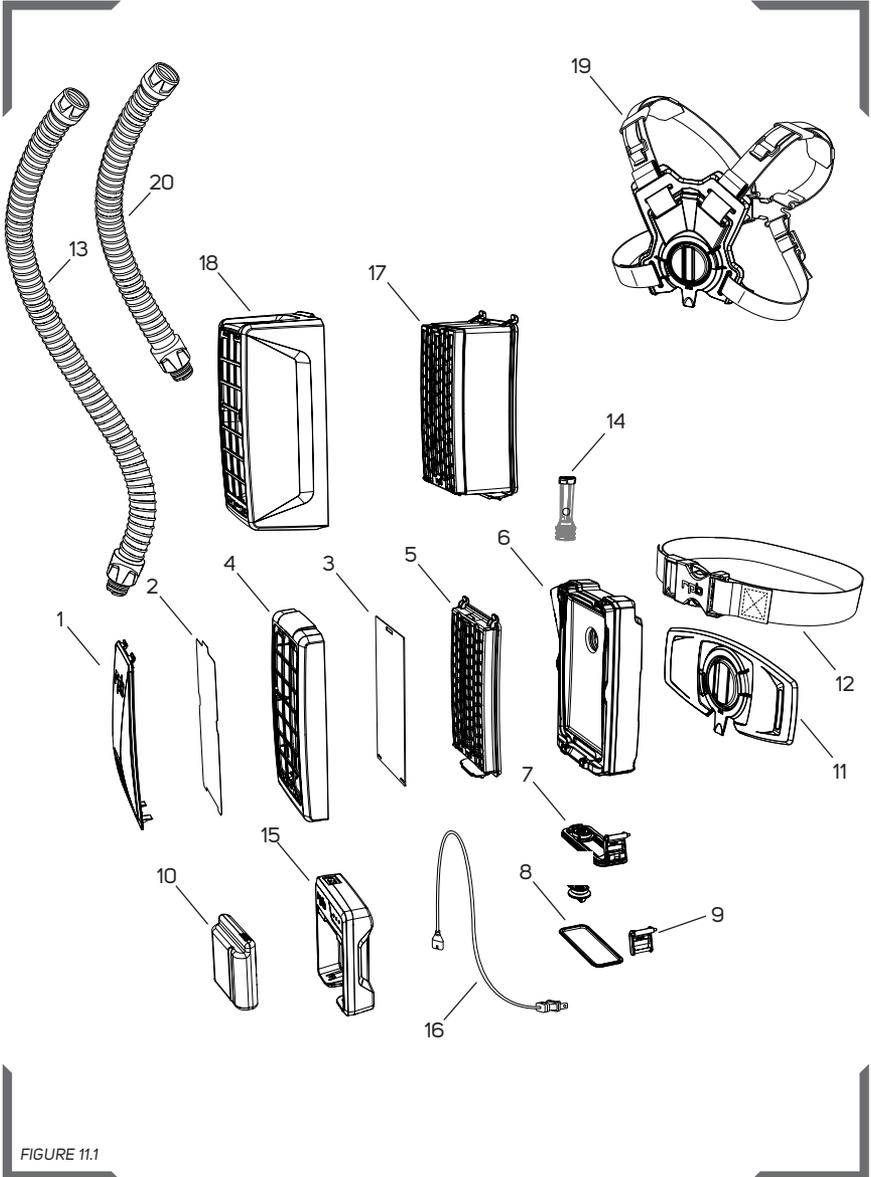


FIGURE 11.1

## PARTS LIST

| Item Number | Description                                     | Part Number   |
|-------------|---|---------------|
| 1           | Cowling   | 03-812        |
| 2           | Spark Arrestor                                  | 03-891        |
| 3           | Prefilter (Packet of 10)                        | 03-890        |
| 4           | HE Filter Door                                  | 03-813        |
| 5           | P High Efficiency (HE) Filter                   | 03-892-P      |
| 6           | Fan Housing                                     | 03-810        |
| 7           | Battery Door Assembly                           | 03-815        |
| 8           | Battery Door Seal                               | 03-817        |
| 9           | Battery Door Hinge (Retainer)                   | 03-818        |
| 10          | Battery   | 03-855        |
|             | Battery - High Capacity                         | 03-856        |
| 11          | Belt Support                                    | 03-811        |
| 12          | 2" Belt Assembly                                | 07-765        |
|             | FR 2" Belt Assembly                             | 07-765-FR     |
|             | Easy Clean 2" Belt Assembly                     | 07-765-DC     |
| 13          | PAPR Breathing Tube                             | 04-831        |
| 14          | Flow Meter                                      | 03-819        |
| 15          | Battery Charger                                 | 03-851        |
| 16          | Power Cable - USA 2 pin                         | 09-021        |
|             | Power Cable - UK 3 pin                          | 09-021-UK     |
|             | Power Cable - EU 3 pin                          | 09-021-EU     |
|             | Power Cable - AU 2 pin                          | 09-021-AU     |
| 17          | OV/HE Combination Filter - A2P                  | 03-893-A2     |
|             | Multi-Gas Combination Filter - ABE1P            | 03-894-ABE    |
|             | Multi-Gas Combination Filter - ABEK1P           | 03-895-ABEK   |
|             | Multi-Gas Combination Filter - A2B2E1K1HgP      | 03-896-ABEKHg |
| 18          | OV/HE or MG Combination Filter Cover            | 03-814        |
| 19          | FR Backpack Assembly                            | 03-822-FR     |
|             | Easy Clean Backpack Assembly                    | 03-822-DC     |
| 20          | Short Breathing Tube for Backpack Assembly      | 04-841        |
| 21          | FR Breathing Tube Cover                         | 04-854        |
|             | Tychem® Breathing Tube Cover                    | 04-852        |
|             | Clear Plastic Breathing Tube Cover (pack of 10) | 04-856        |
| 22          | FR Breathing Tube Cover for backpack            | 04-874        |
|             | Tychem® Breathing Tube Cover for backpack       | 04-872        |



### WARNING

**Use only exact, authentic GVS-RPB replacement parts (marked with the GVS-RPB logo and part number), and only in the specified configuration. Using incomplete or inappropriate equipment, including the use of counterfeit or non-GVS-RPB parts, can result in inadequate protection and will void the approval of the entire respirator assembly.**



**PX5® PAPER**

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## **LIMITED WARRANTY**

RPB® warrants that its Products will be free from defects in materials and workmanship for one (1) year, subject to the terms of this limited warranty. The Products are sold only for commercial use, and no consumer warranties apply to the Products. This limited warranty is for the benefit of the original Product purchaser, and cannot be transferred or assigned. This is the sole and exclusive warranty provided by RPB®, and ALL CONDITIONS AND IMPLIED WARRANTIES (INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE) ARE EXCLUDED AND DISCLAIMED FROM WARRANTY COVERAGE. RPB's® limited warranty coverage does not apply to damage resulting from accident, improper use or misuse of the Products, wear and tear resulting from the normal use of the Products, or the failure to properly maintain the Products.

RPB's® limited warranty coverage runs from the original date of purchase of the Products, and applies only to warranted defects which first manifest themselves and are reported to RPB® within the warranty period. RPB® retains the right to determine to its reasonable satisfaction whether any claimed defect is covered by this limited warranty.

If a warranted defect occurs, RPB® will repair or replace the defective Product (or a component of the Product), in its sole discretion. This "repair or replacement" remedy is the sole and exclusive remedy under this limited warranty, and under no circumstances shall RPB's® liability under this limited warranty exceed the original purchase price for the Products (or the applicable component). RPB® has no responsibility for incidental or consequential damages, including loss of use, maintenance and other costs, and ALL INCIDENTAL AND CONSEQUENTIAL DAMAGES ARE EXCLUDED AND DISCLAIMED from this limited warranty. Contact RPB® to obtain warranty service. Proof of purchase must be provided to obtain warranty service. All costs of returning the Products to RPB® for warranty service must be paid by the purchaser.

RPB® reserves the right to improve its Products through changes in design or materials without being obligated to purchasers of previously manufactured Products.

## **LIABILITY**

RPB® Safety cannot accept any liability of whatsoever nature arising directly or indirectly from the use or misuse of RPB® Safety products, including purposes that the products are not designed for. RPB® Safety is not liable for damage, loss or expense resulting from the failure to give advice or information or the giving of incorrect advice or information, whether or not due to RPB® Safety's negligence or that of its employees, agents or subcontractors.

## NOTES

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# PX5® PAPR

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## NOTES

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## OTHER PRODUCTS

### GVS-RPB® Z-LINK®

The most versatile multi-purpose respirator system on the planet. From welding and grinding to chemical handling, the Z-Link® serves the widest spectrum of industries and applications on the market. This is more than a product. It's a system. Engineered to advance your safety. Designed to increase your productivity.



### GVS-RPB® T-LINK®

Built off the Z-Link® platform, the T-Link® is designed to work with you, not against you. Gone are the days of having to fight against a Tyvek® respirator. The T-Link® moves with the operator anywhere they turn.



### GVS-RPB® Z4®

The Z4® is the most advanced welding industrial respirator. Light weight and able to quickly flip up the weld visor for grinding or setting up the next weld while still offering respiratory protection and superior viewing. Designed to protect you for life's best moments.



MAN-74

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