

PARWELD XR914CH (CHEMICAL) INSTRUCTION BOOKLET

WARNING

Please read and understand the instructions prior to using the Parweld XA914CH Clean Air Chemical Unit.

GENERAL INFORMATION

The Parweld Clean Air Chemical Unit offers protection based on the principle of the positive pressure air in the helmet. It protects the user against dust and aerosols present in the air as well as toxic particles and harmful gases depending upon the filters used. For the highest efficiency it is necessary to choose the correct combination of a respiratory unit and the protecting helmet (Parweld XR914C-SILVER).

The Parweld Chemical Clean Air unit meets the standards of EN 12941, EN 12942 this means the unit is able to remove non-toxic and toxic particles, harmful gases, solid and liquid aerosols depending on the filter type.

TECHNICAL SPECIFICATION

Minimum Flow	160 to 200 l/min
Weight of power unit and Battery	1050g
Noise	55 to 61 dB
Nimh Battery Lifetime	500 to 700 charging cycles
One Charging Cycle	10 to 14 hours
Operating Time of Battery after one Charging	6 to 10 hours
Belt Size	70 to 125 cm
Recommended Working Temperature	10 to 40°C
Recommended Working Humidity	20 to 80% RH
Certifications	BS EN 12941 TH1P BS EN 12941 TH2P/TH3P

Usage

The following National Guidelines must to be followed:

- Protective Equipment at Work Regulations 1992
- COSH 2002
- Confined Spaces Regulations 1997
- BS4275 Guide to implementing an effective respiratory protective device programme
- HSE Guidance booklet HS(G) 53

Please read the Instructions carefully

GENERAL

- The oxygen level in the work area should not fall below 17%.
- This equipment is not suitable for use in areas where toxic gases may build up such as tanks and pipes
- The type and concentration of particles and vapours in the work area should be known to ensure safe working.
- The particle filter on this unit does not protect against vapours
- Gas filters do not protect against particles
- Combination filters must be used to protect against vapours and particles
- Use only filters certified for use with this unit
- The unit is not suitable for people with beards or long hair that interferes with the face seal or air flow.
- Where there is a danger of low oxygen levels or unknown vapours isolated breathing equipment should be used.
- Do not use the power unit in areas with explosive danger
- Check the airflow before use
- Use the breathing apparatus only when switched on. If the power unit is switched off, it does not protect the user
- If the power unit stops working for any reason, the user must leave the working (contaminated) area immediately

ATTENTION.

If any of the above conditions are not followed, the warranty is invalidated.

OPERATION

UNPACKING

After receiving the Parweld XA914CH it is necessary to check if the package is complete and if damage occurred due to delivery.

The unit comes complete with	
Chemical Clean-air unit	1
Heavy duty belt	1
Air hose	1
Air flow gauge	1
Battery charger	1
Instruction Booklet	1

The power unit includes the filters.

ASSEMBLY

1. Attach the air hose to the unit by bayonet connection, pushing and twisting to lock.
2. Switch on the unit by pressing button ON/OFF on the control panel.
3. There are two arrow-buttons on the control panel Eco/Turbo. By using the two arrow-buttons it is possible to adjust the air flow between cca 135 l/min (ECO) and 185 l/min (TURBO) with A2P3 filters installed. The working time with a fully recharged battery for Turbo mode is 7 hours and for Eco mode is 13 hours.
4. Using the Turbo mode provides a more efficient level of protection; however in a cold environment higher airflow could be uncomfortable.

Before use

Prior to starting the unit you must check

1. There is no visual damage on any part of the Clean-air complete set, especially on the air hose and the sealing parts.
2. There is a good connection between the air hose and the helmet as well as the respiratory blower unit.
3. There is sufficient air flow.
4. The air flows through the whole respiratory system from blower to the helmet.

Air Flow Check

This check must be done only with a fully recharged battery.

1. Disconnect the air hose from the helmet.
2. Switch on the power unit and keep the hose in a vertical position at about eye level.
3. Insert indicator (light yellow ball) into the air hose connector.
4. If the indicator can be seen, there is sufficient air flow. If the indicator sinks into the hose connector, the airflow is less than 120 l/min. In this case the filters must be changed.

MAINTENANCE

1. It is recommended to clean the respiratory power unit after each use. Inspect all parts of the used unit and change the damaged ones.
2. Always clean the respiratory unit in a well ventilated room or outside. Be aware of harmful dust settled on some parts of the unit.
3. Never use flammable cleaning liquids.
4. No detergents must get into the power unit or into the air hose.
5. It is recommended to use dishwashing detergents without abrasives to clean the power unit.
6. Clean each part with a damp cloth and dry it afterwards. The auto darkening electronic filters are very sensitive to liquids. Only dry cleaning is allowed.

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SPARE PARTS / REPLACEMENT

Filter

1. The clogging of the filter must be checked regularly.
2. The work time of filter may vary according to the level of contamination from the environment where it is used and the size of dust particles.
3. When using the unit, the airflow decreases as the filter becomes clogged. From a hygienic point of view the maximum work time of filter is 180 hours.
4. The filter can not be cleaned, it must be replaced.
5. All filters must be of the same type.

Changing the Filter

1. To remove the filter, unscrew it from the unit
2. Clean dust from the seal area.
3. Put the filter back into position and screw onto the unit.

ATTENTION ALL FILTERS MUST BE THE SAME

Filter	Colour	Connection of Filters	Main Use Area
PSL	White	EN148-1	Solid and liquid particles (Aerosol)
A	Brown	EN148-1	Organic gases and vapours with boiling point >65oC
APSL	Brown White	EN148-1	Solid and liquid particles (Aerosols) organic gases and vapours with boiling point >65oC Anorganic gases and vapours such as Chlorine, H2S, HCN
ABEKPSL	Brown Grey Yellow Green White	EN148-1	Solid and liquid particles (Aerosols) organic gases and vapours with boiling point >65oC Anorganic gases and vapours such as Chlorine, H2S, HCN, SO2 and Ammonia

Battery

1. All new units have to have a fully charged battery before first use.
2. The battery charger must not be used for any other purpose than the purpose which it was manufactured.
3. The battery charger is intended for indoor use. It must be protected against damp.
4. The charger controls the charging automatically. After charging the battery, it switches to maintenance mode and keeps the battery fully charged until unplugged. The charging time is 10-14 hours, this time may vary dependant upon the type of battery used.

Battery Charging

1. Check if the voltage of the mains supply matches that of the charger
2. Connect the charger to the mains power
3. Connect the battery to the charger., the socket on the battery is on the rear. Charging is signalled by the red LED light.
4. The red LED light switches off when battery is fully charged. If the maintenance mode is on the green LED light will blink.
5. To switch the charger off: disconnect the battery from the charger.
6. Unplug the charger from the power supply. It is not recommended to leave the charger switched on when not in use.

Changing the Battery

1. Take the power unit in both hands facing the rear side of battery.
2. Open the two battery latches using your fingers.
3. Slide the battery out of the unit by thumb-push.
4. When assembling, put the battery on the rails and slide into position.
5. Make sure, that battery latches are locked.

FAULT FINDING

If there is a sudden change in air supply while using the unit, it is necessary to check the following:

- If all parts of air-supplying system are assembled correctly
- The battery and its connector have good contact
- Check if the charger is not faulty or malfunctioning
- The filters are not clogged
- If there is a hole in the air hose.
- If the hood seal is damaged
- If the work time of the battery after full charge has not decreased (if so. it is necessary to replace battery).

STORAGE

All parts of the unit must be stored in an environment with temperature range 0-60°C and humidity range 20-80% Rh. Filters are usable up to two years from the date of the production if stored in original unopened package.

WARRANTY

Parweld warrants to the purchaser that the product will be free from defects in material and workmanship for the period of one year from the date of the sale to the buyer. The manufacturer's sole obligation under this warranty is limited to making replacement or repairs, or to refund the purchase price of the product with defects.

This warranty does not cover product malfunctions or damages, which result from the product being tampered, misused or abused. The operational instructions must be followed; failure to do will void the warranty. The manufacturer is not responsible for any indirect damage, which arises out of the use of the product.

DISPOSAL



Please dispose of packaging for the product in a responsible manner. It is suitable for recycling. Help to protect the environment, take the packaging to the local amenity tip and place into the appropriate recycling bin.



Never dispose of electrical equipment or batteries in your domestic waste. If your supplier offers a disposal facility please use it or alternatively use your local amenity tip and dispose in the correct manner. This will allow the recycling of raw materials and help protect the environment.