



WPA NANO-MASK

User's manual

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HALF-MASK

1. General information

The WPA Nano-mask with WPA filters ensures effective filtration of harmful particles, including viruses and bacteria.

1.1. System Description.

The whole half-mask consists of the body of the mask, made from thermoplastic elastomer, which covers the wearer's nose, mouth and chin. It is equipped with inhalation and exhalation valves, an easily adjustable head strap to hold the mask in the desired position, and a pair of bayonet mounts for connecting filters. The half-mask is intended for use with a pair of specially designed filters, which combine with the mask to form a filtration device protecting the respiratory organs. Inhaled air passes through the pair of filters and an inhalation diaphragm into the mask. Exhaled air is expelled from the facial part through an exhalation diaphragm.

1.2. Use

The half-mask may only be used with original filters produced by the company WPA NANO Technologies s.r.o. It protects wearers from particles, micro-organisms, bio-chemical substances.

1.3. Warnings/restrictions

The product must not be used:

- if the mask does not fit tightly during a leakage test;
 - in the case of unknown pollutants or a lack of adequate warning devices;
 - if there is an excess or lack of oxygen in the ambient air;
 - if the wearer has difficulty breathing;
 - in the case of dizziness, nausea or other difficulties;
 - if the wearer smells or tastes any pollutants;
 - in the case of any facial hair (stubble, beard or moustache) growing beyond the facial part of the mask which guarantees tightness;
 - if scars or other physical features could prevent the mask from fitting properly;
- If damage occurs to the filter or the half-mask.

Proceed with increased caution if wearing the mask in an explosive environment. Use of the mask is recommended for adults and adolescents. Due to the size and nature of its design, the mask is not intended for use by children younger than 15 years of age.

2. Parts

2.1. Checks upon delivery

Upon delivery, check that the equipment is complete and undamaged according to the packing list.

2.2. Packing list

- half-mask
- 2 inhalation filters
- instructions for use

2.3. Accessories / spare parts

- head strap
- inhalation filter
- exhalation diaphragm
- inhalation diaphragm

3. Use

Installation

3.1. Check prior to use

- make sure that the mask is complete, properly fitted and thoroughly cleaned
- check the body of the mask, the diaphragms and the fittings of the diaphragms and the straps to make sure that they are not worn, cut or cracked, that no parts are missing, and that no other defects are present
- make sure that the appropriate filter is intact and properly installed

3.2. Putting on the mask

- remove any head coverings, glasses, goggles or ear protection
- pull the chin strap over your head to your neck
- put on the mask and pull the strap with the head support over your head
- check the tightness of the half-mask by carrying out a leakage test, and if necessary adjust the tightness of the straps using the locking clips

3.3. Leakage check

- Cover the half-mask with both hands and breathe in strongly. If the mask is not airtight and air escapes around the nose or elsewhere around the seal, it is imperative to re-adjust the half-mask

by moving it into a more suitable position, adjusting the straps, or moving the locking clips into a more suitable position.

3.4. Taking off the mask

- do not take off the mask until you leave the hazardous area
- grip the mask in one hand, and pull the strap with the plastic head pad forwards over your head with your other hand
- pull down the chin strap and remove the mask

4. Maintenance

4.1. Cleaning

For everyday care, we recommend cleaning the facial part of the mask with an ordinary cleaning agent or an ordinary disinfectant. Do not use solvents or bleach.

Do not flush or soak the filters

4.2. Storage and transport

Store the product in a dry place away from direct sunlight or other sources of heat. Store the product thoroughly cleaned, disinfected and ready for further use. The original packaging is suitable for transport within the European Union.

4.3. Maintenance plan

The plan provided below indicates the minimum requirements for maintenance procedures which ensure that the equipment will always be in usable condition.

	PRIOR TO USE	AFTER USE	ANNUALLY
VISUAL INSPECTION	•		
FUNCTIONAL CHECK	•		
CLEANING		•	
DIAPHRAGM REPLACEMENT			•
HEAD STRAPS REPLACEMENT			•

4.4. Replacement of parts

Always use original parts only. Using non-original parts or modifying the equipment may reduce the effectiveness of the protective functions and invalidate approval issued for the product.

4.5. Replacing inhalation diaphragms

- reach inside the mask and carefully pull out the inhalation diaphragm
- inspect the inhalation valve
- carefully pull out the hem and slide it over the pin

4.6. Disposing of the half-mask

- contaminated half-masks must be disposed of as hazardous waste in accordance with local regulations.

5. Technical specifications

5.1. Weight

- weight is approximately 160g

5.2. Materials

- the half-mask is made of food grade TPE material
- the material of the body of the mask is approved for use in the food industry, reducing the risk of allergic reactions to a minimum
- filtration material is made of double-sided laminated micro glass fibre

5.3. Temperature range

- store at temperatures between -20°C and +40°C at a relative humidity below 90%
- use at temperatures between -10°C and +55°C at a relative humidity below 90%

5.4. Shelf life

- the half-mask has service life of 10 years

6. Recommended procedure of decontamination of WPA NANOMASK :

A) DEKONTAMINATION BY ALCOHOL-BASED MEDIUM

- 1) Remove filters and immerse the mask to disinfectant liquid or apply alcohol-based aerosol on the inside and outside.
- 2) Let the mask dry for at least 2hrs in a clean environment with temperature from -10°C to 55°C, relative humidity below 90%.

B) HOT STEAM DEKONTAMINATION IN AN AUTOCLAVE

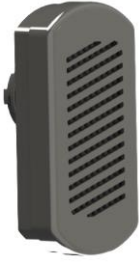
- 1) Remove filters and place the mask into the autoclave.
- 2) Decontaminate the mask with 90°C for 60 minutes.
- 3) When decontamination is finished, let the mask relax for at least 2 hrs in a clean environment with temperature from -10°C to 55°C, relative humidity below 90%.

C) DEKONTAMINATION IN A HOT AIR STERILIZER (DRY AIR)

- 1) Place the mask into a hot air sterilizer and decontaminate to 90°C for 60 minutes.
- 2) When decontamination is finished, let the mask relax for at least 6 hrs in a clean environment with temperature from -10°C to 55°C, relative humidity below 90%.

7. Approval

- The WPA Nano-mask meets the fundamental safety requirements of Regulation (EU) 2016/425 of the European Parliament and of the Council of 9 March 2016 on personal protective equipment and repealing Council Directive 89/686/EEC.
- The mask has been approved in accordance with standard EN 140:1998.
- It is designed for use with filters approved in accordance with standard EN 143/A1:2006. This ensures efficiency according to P3 class with a filter efficiency of R>99.95%.
- Certification documents are available at <https://www.wparespirators.cz/dokumenty/>
- certification process was performed in Occupational safety research institute, Jeruzalémská 1283/9, 110 00 Praha 1, NB 1024



FILTER

User's manual

Contents

1. Use
2. Type designation
3. Warnings and restrictions
4. Procedure for fitting a filter to the nano-mask
5. Filter replacement
6. Storage and maintenance
7. Materials
8. Packaging contents
9. Key to symbols
10. Approval

1. Instructions for the use of filter

Use:

Filters are made from material that does not cause sparks from friction, making them suitable for use in environments with a potential danger of explosion or fire. They are designed for use with a WPA nano-mask. Read these instructions for use together with the instructions for the nano-mask.

2. Type markings

The filter is marked with a laser engraving on the rear side. The first line of the engraving contains the serial number, the textile batch number and the production batch. The second line indicates the valid standard according to certification, class P3 and the filtration efficiency of R>99.95%.

3. Warnings and restrictions

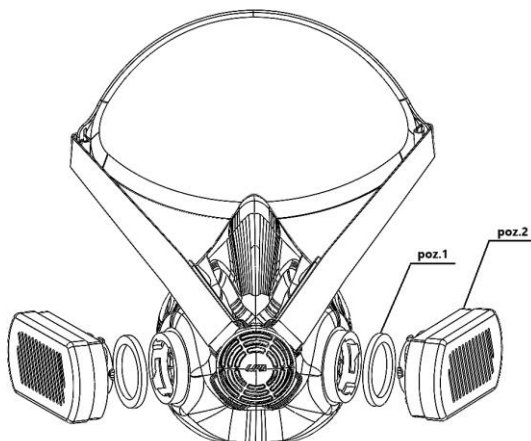
For optimal user protection from harmful substances, it is essential to use the filter with a WPA nano-mask, and to adhere to the instructions for use and suitable product maintenance. Failure to follow these instructions, or non-professional interference with filters while the user is in a hazardous environment may have adverse health effects.

Before and during use of the product make sure:

- that the filter is suitable for the particular application (if you are not certain about using the filter in a particular situation, contact factory);
 - that the filter's shelf life has not yet expired;
 - that neither the filter nor the filtration material are visibly damaged, punctured, burnt, etc.
 - that the filter is correctly mounted;
 - that the WPA nano-mask with the filter is worn for the entire period of exposure to harmful substances;
 - that the filter is replaced if and when necessary;
 - Do not use in environments containing less than 19.5% oxygen;
 - that the product is not used in oxygen atmospheres or oxygen-enriched atmospheres;
 - whether it is possible to use the product in explosive environments (please contact the manufacturer regarding this issue);
 - do not adjust or modify the filters in any way;
- Leave environments with presence of harmful substances and remove the mask with the filter immediately, if:
- damage occurs to the filter or the filter material
 - the air flow to the WPA nano-mask decreases;
 - breathing becomes difficult or resistance during breathing increases;
 - you experience faintness or forms of irritation;
 - user notices the taste or odour of harmful substances, or other irritation occurs.

4. Procedure for fitting a filter to the nano-mask

- Fit the filters into the mask from the outside using a bayonet mount. Lock it with a circular motion. Position the filters according to the illustration.
- Each filter (pos. 1) must contain a fitted seal (pos. 2).
- After fitting, ensure that the filter is properly mounted and airtight




5. Replacing a filter

The main sign for replacing filters is if the wearer feels that air is not flowing through without noticeable resistance and breathing is difficult. Service life is particularly reduced in dusty environment. Even a dust-clogged filter can be effective against viruses and bacteria. If filters are subjected to strong pressure or impacts, or are visibly damaged, they must be removed and disposed of immediately.

6. Storage and maintenance

- operating temperature between -10°C and +55°C at a relative humidity below 90%
- store unpacked filters at -20°C to +40°C at a relative humidity below 90%. The storage period under the stated conditions is 10 years.
- Store opened filters in a clean and dry environment at room temperature, e.g. in a plastic bag
- the service life of one filter is 6 months
- wipe the outer surface with a water-dampened cloth. For disinfection use a 70% ethanol or isopropanol solution
- The filter element must not be soaked; in case of soaking or other mechanical damage replace the filter immediately.
- The original packaging of filters is suitable for transport within the European Union.

 **Do not flush or soak the filters**








7. Materials

- filtration material is made of double-sided laminated micro glass fibre
- The filter body is made of hardened polycarbonate

8. Packaging contents:

- Filter (single set contains 2 filters)
- Seal (fitted to the filter)
- instructions for use

9. Key to symbols:

	See the User's Manual
	Date of manufacture data
	Relative Humidity
	Temperature Range
	Material Designation
	Reusable
	Protection from harmful materials (dust, coarse impurities, toxic liquid and solid aerosols, toxic smokes, bacteria, viruses, radioactive particles, asbestos)

10. Recommended procedure of decontamination of filters

A) HOT STEAM DEKONTAMINATION IN AN AUTOCLAVE

- 1) Remove filters from the mask and pack them in an impermeable bag resistant to at least 90°C (PET bag)
- 2) Place packed filters into an autoclave and decontaminate the mask with 90°C for 60 minutes.
- 3) When decontamination is finished, let the filters relax for at least 2 hrs in a clean environment with temperature from -10°C to 55°C, relative humidity below 90%.

B) DEKONTAMINATION IN A HOT AIR STERILIZER (DRY AIR)

- 1) Place filters into a hot air sterilizer and decontaminate to 90°C for 60 minutes.
- 2) When decontamination is finished, let the filters relax for at least 2 hrs in a clean environment with temperature from -10°C to 55°C, relative humidity below 90%.

11. Approval

- Filters are approved according to standard EN 143/A1:2006
- the filters comply with the safety requirements of the Regulation of the European Parliament and Council (EU) 2016/425 from 9 March 2016 on personal protective equipment and the cancellation of Council Directive 89/686/EEC
- Certification documents are available at <https://www.wparespirators.cz/dokumenty/>
- Certification process was performed in Occupational safety research institute, Jeruzalémská 1283/9, 110 00 Praha 1, NB 1024

Important disclaimer

The user is fully responsible for deciding whether or not the product is suitable for a particular purpose.

The company WPA NANO Technologies s.r.o. accepts no direct or indirect responsibility for damages (including lost profit and non-pecuniary damages) incurred because the user uses the product in contradiction with these instructions, in a manner that the product is not designed for, in conflict with its properties, in contradiction with recommendations for its ordinary use, and/or in contradiction with legislation and technical regulations.

Manufacturer and supplier:

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Business ID No.: 090 72 900

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listed in the Commercial Register maintained by the Regional Court in Plzeň, Section C, Entry 39202