

VENUS1 – 1005006

ZENITH1 – 1005009-S/M/L

FULL FACE MASK

EN 136:1998 - CL3

ENGLISH

CAUTION

In order to use the face mask safely and avoid risks it is fundamental that these instructions and those relative to the filters be clearly understood. Particular attention is to be paid to warnings, cautions and use limitations.

IMPORTANT:

- Before using the face mask be sure to understand fully and adhere to all the instructions herein.
- Use the face mask only for the purposes stated.
- Use only original spare parts for the maintenance of this face mask.
- Product responsibility for the correct functioning of this face mask is irrevocably transferred to the owner/end user if:
 - The face mask is maintained or repaired by personnel or by service centres not employed or authorised
 - The face mask is used in a manner or for uses not conforming to its intended use as specified in these instructions.

1. APPLICATION

1.1 Description

Negative pressure full face mask with normalized threaded connection in accordance with UNI EN 148-1: 2018, two inhalation valves of the internal mask and an exhalation valve. Harness with five tie rods fixed on the perimeter edge of the visual screen. The materials of which it is composed allow its use in atmospheres considered at risk of explosion.

It is possible to use the mask as a component of an electric respirator. (See respiratory composition and related instructions for use in this regard).

1.1.1 Venus1

The sealing body is designed to conform all face shapes in one size. Upon request, a protective film can be applied to the polycarbonate visor.

1.1.2 Zenith1

Full face mask with black silicone body and panoramic polycarbonate visor.

The device is available in three sizes:

- Size S (small), described above
- Size M (medium), with five tie rods harness fixed on special wings obtained from the sealing edge
- Size L (large), with harness like size M

The 1005009 ZENITH1 model can be supplied in the following variants:

1005009-X

Code/part number:
1005009

Size:
S = Small
M = Medium
L = Large

From the combination of the variants, 3 codes are obtained:

- 1005009-S;
- 1005009-M;
- 1005009 - L.

1.2 Function

Breathable, filtered, air passes through the inhalation valves to the inside of the visor.

The filtered air flows over the visor minimising visor misting then passes through check valves to the inner mask.

Exhaled air is expelled through the exhalation valve.

1.3 Reference standards

The full face mask is designed to and complies with the requirements of the technical standard EN136:1998 and meets the performance requirements laid down therein.

1.4 Use

The full face mask, with the limitations specified at clause 1.6, may be used exclusively for respiratory protection against gases and/or liquid and solid aerosols. See filter/cartridge instructions for permissible concentrations.

1.5 Protection factor

The full face mask protection factor is determined by; the face mask seal, the filter protection class, the state of conservation and maintenance of the face mask.

1.6 Use Limitations

Do not use the face mask if:

- the nature and concentration of the contaminant present in the atmosphere is not known.
- the concentration of the contaminant in the atmosphere exceeds the filter protection class limits (See filter use instructions).
- the type of contaminant is not provided for by the type of filter.
- the oxygen concentration in the atmosphere is lower than 17% in volume.
- in closed work locations (ex. tanks, duct, silos underground locations) and fresh air delivery systems are not available.

Use limitations for PAPR's may be found in relative Use Instructions.

1.7 Cautions

The full face mask is to be used only by workers:

- who have been trained on the use of respiratory protective devices.
- who do not have respiratory problems or an impaired sense of smell.
- who do not have sideburns, a beard and/or a moustache as these will hinder a good face mask seal.

- Who do not use eyewear.
- Do not use the face mask:
- if it has not been thoroughly cleaned and disinfected.
 - if it has failed the face seal tightness test.
 - if there is a doubt that parts are missing and/or one or more parts look defective.
 - if there is no evidence of period maintenance.
 - with oxygen cylinders or in oxygen enriched atmospheres.
- Return to fresh, clean air immediately and remove face mask in the case:
- of uncommon smell or taste.
 - of unjustified or sudden irritation of the nose or throat .
 - of inhaled air becoming extremely hot.
 - dizziness, nausea or headaches occur.

2. CLASSIFICATION

Full face mask for special uses : CLASS 3

3. INSPECTION

Before using the face mask make sure that:

- it is clean and disinfected and does not present evident defects.
- there are no parts missing.
- the inhalation and exhalation valves have been properly inserted.
- the filter sealing gasket is properly housed.

4. DONNING AND FITTING

4.1 Donning

- Don the face mask before entering the contaminated area.
- Release the strap buckles and pull the straps through as far as they will go.
- Spread out the two lateral straps.
- Slip carrying strap around neck and position chin in the chin support.
- Position face mask against the face, pass the harness over the head and pull straps back in the following sequence: cheek straps, temple straps, forehead strap.

The ideal position of the mask against the face is obtained when, without excessive pulling, the mask fits snugly and the seal provides an even pressure distribution over the entire area in contact with the face.

4.2 Seal Tightness test

After having donned the mask and obtained a good fit press the palm of your hand over the threaded connector and inhale slightly in order to generate negative pressure. Hold your breath for a second and if no air leaks are detected a good fit has been obtained. If air leaks are detected pull straps tighter and repeat test. If leakage persists reposition the face mask as described at point 4.1 and 4.2 and repeat seal tightness test.

4.3 Exhalation valve test

Cover the threaded connector with the palm of your hand and exhale. Exhaled air should flow out of the mask without appreciable resistance.

5 USE

5.1 Application:

Some of the uses for which the protective device, equipped with proper filter, has been designed:

- agriculture: cleaning of stables, sheepfolds and chicken coops. Grain handling and processing; mixing / spraying: pesticides, fungicides, herbicides; Spraying and weeding with operating machine; pest control treatments;
- Asbestos reclamation and abatement: removal of untreated and dry asbestos coverings; asbestos handling and disposal; glass production activities, means of transport gaskets.
- Chemistry and pharmaceuticals: powder formulation, chemical formulations and special pastes; biological risk and infectious diseases.
- Construction, building and renovation: Concrete, cement, stone, masonry and plaster handling / cutting / smoothing / grinding /drilling; Surface painting and coating; restructuring; controlled demolition.
- Waste management: Handling and disposal of waste; Decontamination; Waste removal.
- Metal working: Machining and scraping.
- Woodworking: cutting / planing / drilling; scraping and sanding.
- Glass fibers and minerals processing: Mineral tile laying; Spraying operations; Mineral extractions and marble work.
- Maintenance: Disinfection and cleaning with acids, aldehydes.
- Spray painting and sandblasting: Powder coating; Spraying / latex painting; Wet or dry sandblasting.

5.2 Instructions:

Screw on proper filters only after the mask has been tested and has passed the seal tightness test.

The use of the mask is determined by the type and model of filter used. Follow the filter Use Instructions packed with filters and, in any case, leave the area immediately if smell or taste of the contaminant is detected or if breathing becomes more difficult.

For use in extreme conditions adhere to the following cautions:

- In the case of extremely low temperatures treat visor with an anti-misting liquid (compatible with the eyes and skin and which will not damage rubber and plastic) and regularly check the exhalation valve diaphragm as it could harden resulting in possible leakage.
- In the case of extremely high temperatures leave the area immediately should vision become obscured.
- If working in areas subject to risk of explosion spray the mask with an antistatic spray which is compatible with the eyes and skin and which will not damage rubber and plastics.

After use, remove the filter (or breathing tube) before cleaning and disinfecting.

USE INSTRUCTIONS



6 CLEANING AND DISINFECTING

Disassemble the face mask only if it is particularly dirty or if it is difficult to clean by washing only.

Clean the face mask with warm water and neutral detergent. Do not use organic solvents for cleaning the visor and the rubber parts. Disinfect the face mask after every cleaning cycle by soaking it in a disinfectant bath. Use only disinfectants that will not damage the rubber and plastic components of the mask. Rinse thoroughly under running water and allow to air dry away from direct sun light and at temperatures lower than 50°C.

6.1 Procedure for sanitization from COVID19 (circular n° 5443 of 20-02-2020 of the Ministry of Health).

- Carry out the 1st wash with soap water under running water. Do not immerse the device.
- Immerse the mask in a solution of water and sodium hypochlorite (0.1% -0.5%), or ethanol (62-71%) or hydrogen peroxide (0.5%).
- Remove the mask from the solution and do not wash the mask immediately but let the hypochlorite act for about 10 minutes.
- To clean the polycarbonate screen and the mask body, use a soft cloth.
- Rinse thoroughly with running water and allow to air dry at a maximum temperature of 50 °C away from the sun's rays.

7 CONSERVATION, STORAGE AND TRANSPORT

7.1 Conservation

After the cleaning and disinfecting operations put the face mask into its original packaging away from intense light, temperature extremes, humidity or altering radiation. Avoid stacking or placing objects on top which could deform or damage the face mask's profile.

7.2 Storage

New, unused face masks are to be kept in their original packaging away from excessive humidity and possibly at ambient temperature.

7.3 Transport

Keep masks in their original packaging during transport

8. MAINTENANCE, PERIODIC CHECKS, REPAIRS

8.1 Disassembly

- Unhook straps from visor frame and remove harness.
- Remove screw from bottom of visor frame and take visor out of the face blank.
- Slip the inner half mask out of the speech diaphragm and the exhalation valve seat and remove.
- Unscrew the speech diaphragm from the inside turning it in an anticlockwise direction and remove the internal guard taking care not to mislay the sealing O-rings.
- Unscrew the exhalation valve assembly from the inside turning 60° anticlockwise.
- Remove the equipment connector taking care not to misplace the O-rings.
- Clean the various components, inspect visually paying particular attention to the rubber gaskets and the inhalation and exhalation valves and, if necessary, replace damaged or worn parts.

8.2 Assembly

- Rub some silicone grease on gaskets and O-rings.
- Re-assemble the face mask following the steps at point 8.1. backwards taking care not to damage the inhalation and exhalation valves during assembly.
- Tighten speech diaphragm and exhalation valve assembly.

Make sure all the components have been assembled correctly.

8.3 Periodic checks and maintenance

The efficiency of the full face mask depends on the maintenance carried out and the periodic replacement of some of its parts as detailed in the table below:

Part	Work to be carried out	Frequency after each use	every 6 months	once a year
Full face mask (Complete)	Cleaning Disinfecting Seal and exhalation valve test	• • •	• (1)	• (3) • (3)
Equipment connector	Sealing ring inspection Sealing ring replacement	•		• (1) •
Exhalation valve	Valve disc inspection Valve disc replacement	•	• (1)	•
Inhalation valve	Valve disc inspection Valve disc replacement	• (2)	• (1)	
Inner mask check valves	Valve disc inspection	• (2)		

1) Only random tests if masks are packed airtight.

2) Also applicable to replacement parts.

3) Not applicable to masks packed airtight.

No special tools are required for the replacement of the above listed parts.

Valves are identified by the following colours:

- Inner mask inhalation valve: RED
- Mask inhalation valve: YELLOW
- Mask exhalation valve: BLACK

The year of production of the exhalation valves is indicated in Annex "A" to the last page of this manual.

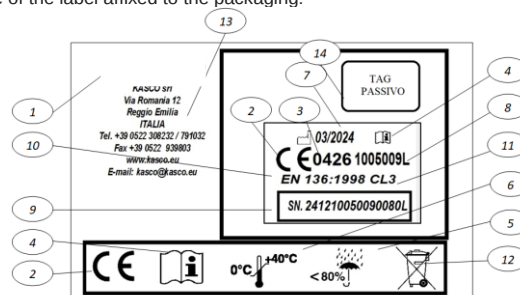
8.4 Troubleshooting

TROUBLE	PROBABLE CAUSE	SOLUTION
Contaminant inside face mask	• filter (or breathing tube) not screwed on properly • equipment connector gasket missing, damaged or incorrectly positioned • exhalation valve deteriorated • equipment connector defective or mounted incorrectly • sealing O-ring deteriorated	• screw until tight • reposition or replace • replace • remount replacing gasket and/or connector if necessary • replace
Visor misting	• inner mask mounted incorrectly • inner mask valves missing or deteriorated • inhalation valve missing or deteriorated	• remount • insert or replace • insert or replace
Breathing difficulty	• filter/cartridge clogged up/exhausted • valves blocked	• replace • replace valve diaphragms • clean valve seats

9. MARKING

The manufacturer's name and mask model number are located on either side of the equipment connector. The mask label is affixed to the inside of the half mask cover and on the packaging.

Example of the label affixed to the packaging:



#	DESCRIPTION
1	Manufacturer's name or logo
2	PPE Conformity to the essential health and safety requirements specified in Regulation (EU) 2016/425.
3	Notified body which controls finished products in accordance with Regulation (EU) 2016/425
4	See Use and Maintenance Instructions
5	Relative humidity range (RH) recommended for proper PPE storage
6	Temperature Range recommended for proper storage of PPE
7	Production date
8	Product code (Part Number)
9	Serial number
10	Harmonized Standards used when designing the PPE
11	Full face mask CLASS
12	WEEE disposal (only for PPE equipped with electric/electronic devices)
13	Contact information of the manufacturer (shown on the packaging due to lack of space on the PPE itself)
14	Passive TAG: electronic label (optional)

The PPE, subject of these Use and Maintenance Instructions, has been CE certified as a Cat III PPE as per Regulation (EU) 2016/425 and successive modifications by ITALCERT, Viale Sarca, 336 - 20126 MILAN, Notified Body 0426. The face masks are subject to annual production control according to Regulation

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