



VENUS1 P100 AIR PURIFYING RESPIRATOR (P/N 0323014)

SAFETY INFORMATION

In order to use the respirator 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:

1. Before using the respirator be sure to understand and adhere to all the instructions herein.
2. Use only respirators that are applicable and suitable for the purpose intended.
3. Use only original KASCO spare parts for the maintenance of this respirator.
4. Product responsibility for the proper functioning of this respirator is irrevocably transferred to the owner and/or end user if:
 - maintained or repaired by non KASCO personnel or by unauthorised service centres.
 - used in a manner or for uses not indicated in the relative product approval or certification.
5. Before occupational use of this respirator, a written respiratory protection program must be implemented meeting all the local government requirements. In the United States, employers must comply with OSHA 29 CFR 1910.134 which includes medical evaluation, training and fit testing. In Canada, CSA standard Z94.4-93 requirements must be met.

1. APPLICATION

1.1 Description

VENUS1 P100 is a negative pressure air purifying respirator with threaded connection according to EN148-1 standard. A VENUS1 full face mask (P/N 1005006) coupled to a P100 filter (P/N 0601048) constitute the complete respiratory protective device.

- The facepiece ensures an almost natural field of vision.
- The single size face blank in EDPM (TPV) rubber is designed to fit the majority of facial shapes and sizes.
- A PVC carrying strap is supplied.

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 and any excess air is expelled through the exhalation valve.

1.3 Reference standards

The VENUS1 full face mask meets the requirements of EN136 standard and 42CFR Part 84.

1.4 Use

The respirator, with the limitations described at clause 1.6, may be used exclusively for P100 respiratory protection (99.97% filter efficiency) effective against all particulate aerosols.

1.5 Protection factor

The respirator protection factor is determined by; the face mask seal, the filter protection class, the state of conservation and maintenance of the face mask. Always ensure that the assigned protection factor is appropriate to the mode of operation.

1.6 Use Limitations

Do not use the respirator if:

- the nature and concentration of the contaminant present in the atmosphere is not known.
- the concentration of the contaminant in the atmosphere exceeds 50 times the PEL (for full face masks), or according to specific OSHA standards or applicable government regulations, whichever is lower.
- it is not appropriate for the chemical state and physical form of the contaminant.
- the oxygen concentration in the atmosphere is lower than 19.5% in volume.
- in restricted work environments (ex. tanks, canals, silos, underground if fresh air delivery systems are not available).

1.7 Caution

The respirator is to be used only by personnel:

- who has been trained on the use of respiratory protective devices in accordance with a respirator programme as outlined in ANSI Z 88.2.1980.
- who does not have respiratory problems or an impaired sense of smell.
- who does not have facial hair or any condition that interferes with the face-to-facepiece seal or valve function.

Do not use the face mask if:

- it has not been thoroughly cleaned and disinfected.
- it has failed the user seal check.
- there is a doubt that parts are missing and/or one or more parts look defective.

- there is no evidence of periodic maintenance.
- with oxygen 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.
- inhaled air becomes extremely hot.
- dizziness, nausea or headaches occur.

2. CLASSIFICATION

NIOSH approved for protection at P100 efficiency (when equipped with P100 filter- see filter User instructions packaged with filter).

3. INSPECTION

3.1 Pre-use 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 temple and side 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: side 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 distribution of pressure over the entire area in contact with the face.

4.2 Negative pressure User Seal Check

(to be performed each time the mask is donned)

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 repeat seal tightness test.

4.3 Exhalation valve Check

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

4.4 Fit Test

All employees using a negative pressure tight-fitting facepiece respirator must pass an appropriate qualitative or quantitative fit test as per OSHA-accepted protocol.

5. USE

5.1 Instructions

Fit the appropriate filter once the mask has passed the valve and seal checks.

The use of the mask is determined by the type and protection of filter used. Follow the filter User instructions found inside filter packaging and in any case leave the area immediately if you detect smell or taste of the contaminant or if breathing difficulty increases.

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 check the exhalation valve diaphragm at intervals as it could harden resulting in possible leakage.



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- In the case of extremely high temperatures leave the area immediately should vision become obscured.
- In the case of areas subject to explosion hazard 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 before starting the cleaning and disinfecting operations.

6. CLEANING AND DISINFECTING

6.1 Instructions

Disassemble the face mask only if it is particularly dirty or if difficulty is experienced in getting it clean by washing.
 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 exposure and at a max. temperature of 50°C.

7. CONSERVATION AND STORAGE

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.

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 exhalation valve seat and remove.

-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 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 proper maintenance and periodic replacement of some of its parts as shown in this table:

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 check	• • •	• (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) Applicable to replacement parts as well.
- 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

Quantitative fit tests (QNFT) require special testing equipment which can be supplied by KASCO on request.

8.4 Troubleshooting

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

Use only original KASCO spare parts for repairs and replacement. KASCO recommends the use of authorised service centres for periodic checks, repairs and maintenance.

9. MARKING

The manufacturer's name and face mask model number, are located on either side of the equipment connector.

The face mask ID label indicating production date, serial number and pictograms is affixed to inner half mask cover and on the packaging.

10. Cartridge and Filter Selection and Approvals:

Before using any of these products, the user must read the User Instructions packaged with filters.

Do not exceed maximum use concentrations established by local regulatory agencies.

For NIOSH approval refer to NIOSH approval label packaged with respirator.



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THIS RESPIRATOR IS APPROVED ONLY IN THE FOLLOWING CONFIGURATION:

RESPIRATOR COMPONENTS				
TC-	Protection ¹	Filter	Facepiece	Caution and Limitation ²
		0601048	1005006	
84A-2024	P100	X	X	ABCJLMNOP

1. PROTECTION

P100-Particulate Filter
(99.97% filter efficiency level)
Effective against all particulate aerosols.

2. CAUTIONS AND LIMITATIONS

- A - Not for use in atmospheres containing less than 19.5 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.
- J - Failure to properly use and maintain this product could result in injury or death.
- L - Follow the manufacturer's User instructions for changing cartridges, canister and/or filters.
- M - All approved respirators shall be selected, fitted, used and maintained in accordance with MSHA, OSHA, and other 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 Instructions, and/or maintenance manuals for information on use and maintenance of these respirators.
- P - NIOSH does not evaluate respirators for use as surgical masks.