V-800 Reusable Half Face TPE/Silicon Mask & V-7800 Dual Filters

Main Features

· Venus V- 800 Series of reusable respirators are one of the most widely used and accepted style of respirators.

· This respirator is easy to use and robust in handling.

· The patented Butterfly exhalation valve helps minimize heat buildup inside the respirator.

· Available in 3 sizes small, medium and large to facilitate fitting for all face profiles also V-7800 dual lightweight filters help protect against gases, vapours and particulates depending on your individual needs.

The Main Features include:

- Soft, lightweight thermoplastic elastomeric & Silicone material reduces pressure / tension on face for added comfort during long periods of work.
- Threaded type filter cartridge attachment fitting for ease of use.
- 4 point adjustable elastic band distributes weight evenly and provides good head support and fit.
- Respirator comes with a re- sealable bag for storage which makes it easy to reuse without compromising on hygiene and also avoiding wear and tear.
- Latex free braided textile elastic is skin friendly and lasts longer without deforming in high temperature.

Applications

V-800 series of respirators can be used with a variety of filter options

Gas & Vapour Filters only: The filter generally protects against either single or multiple contaminant type(s).

- V-7800 gas and vapour filters include V-7800 A1, V-7800 A1E1, V-7800 B1, V-7800 E1, V-7800 K1, V-7800 ABEK1

Particulate Filters only: These filters provide protection against solid & non-volatile liquid particles

- V-7800 P3 R are Particulate HEPA filters that can be used along with V-800 masks.
- V-7800 P3 R and V-7800 P3 R OV are pancake filters that can be used along with V-800 masks.

Combination of Gas & Vapour Particulate filters:

- V-7800 A1, V-7800 A1E1, V-7800 B1, V-7800 E1, V-7800 K1 & V-7800 ABEK1 come with V-7800 PF pre-filter attachment.

- V-7800 A1 P3R, V-7800 ABEK1 P3R, V-7800 ABEK1 Hg P3R & V-7800 A2 P3R all have integrated P3 particulate filter.

Approvals

These respirators have been produced to comply with the requirement of produced to comply with the EN standard of half mask and filters under an agreed production certification scheme operated in accordance with IFA in Germany.

Standards

These products have been tested to the relevant EN standards

- V-800 half face respirator to EN 140:1998
- V-7800 gas filters to EN 14387
- V-7800 particulate filter to EN 143

FILTER	COLOUR CODE	HAZARD TYPE	TEST GASES	MAXIMUM USER LEVELS
VENUS V-7800 A1 CE A1 Filter+ Pre-filter P2 R Item # 17087 BROWN		Organic Vapour(OV) + Particulate filter	Cyclohexane (C_6H_{12})	1000 ppm or 10 X OEL whichever is lower
VENUS V-7800 A1 E1 CE RF - Gas Filter Item # 17231 BROWN YELLOW		Organic Vapour (OV) Acid Gases (AG)	Cyclohexane (C_6H_{12}) Sulphur Dioxide (SO_2)	1000 ppm or 30 X OEL whichever is lower
VENUS V-7800 B1 CE RF - Gas Filter Item # 17091 GREY		Inorganic Gases (IO)	Chlorine (Cl_2), Hydrogen Sulphide (H_2S), Hydorgen Cyanide (HCN)	1000 ppm or 30 X OEL whichever is lower
VENUS V-7800 E1 CE RF - Gas Filter Item # 17088 YELLOW		Acid Gases (AG)	Sulphur Dioxide (SO_2)	1000 ppm or 30 X OEL whichever is lower
VENUS V-7800 K1 CE RF - Gas Filter Item # 17089 GREEN		Ammonia (AM) & derivatives	Ammonia (NH_3)	1000 ppm or 30 X OEL whichever is lower
VENUS V-7800 CE ABEK1 Filter+ Pre-filter P2 R Item # 17090 MULTICOLOUR		OV/IO/AG/AM + Particulate filter	Cyclohexane (C_6H_{12}), Hydrogen Sulphide (H_2S), Chlorine (Cl_2), Hydrogen Cyanide (HCN), Sulphur Dioxide (SO_2), Ammonia (NH_3)	1000 ppm or 10 X OEL whichever is lower
VENUS V-7800 P3 R CE RF - HEPA Filter Item # 17026 WHITE		Particle Filter	Non highly volatile liquid / solid particles	30 X OEL
VENUS V-7800 P3 R CE RF - PANCAKE Filter Item # 17129 WHITE		Particle Filter	Non highly volatile liquid / solid particles	30 X OEL
VENUS V-7800 P3 R OV CE RF - PANCAKE Filter Item # 17178 GREY		Particle Filter with nuisance VOC / odour	Non highly volatile liquid / solid particles	30 X OEL
VENUS V-7800 PF CE RF - Pre-Filter Item # 17065 WHITE		Particle Filter	Solid particles	—
VENUS V-7800 A1 P3 R CE RF - Gas Filter+Particle Item # 17062 BROWN WHITE		Combined Filter OV+ Particle Filter P3	Cyclohexane (C_6H_{12}) with Hepa particle filter	1000 ppm or 30 X OEL whichever is lower
VENUS V-7800 ABEK1 P3 R CE RF - Gas Filter+Particle Item # 17059 MULTICOLOUR		Combined Multigas Filter (OV/IO/AC/AM) + Particle Filter P3	Cyclohexane (C_6H_{12}), Hydrogen Sulphide (H_2S), Chlorine (Cl_2), Hydrogen Cyanide (HCN), Sulphur Dioxide (SO_2), Ammonia (NH_3)	1000 ppm or 30 X OEL whichever is lower
VENUS V-7800 ABEK1 Hg P3 R CE RF - Gas Filter+Particle Item # 17229 MULTICOLOUR		OV/IO/AG/AM/Hg + Particle Filter P3	Cyclohexane (C_6H_{12}), Hydrogen Sulphide (H_2S), Chlorine (Cl_2),Hydrogen Cyanide (HCN), Sulphur Dioxide (So_2), Ammonnia (NH_3), Mercury (Hg)	1000 ppm or 30 X OEL whichever is lower
VENUS V-7800 A2 P3 R CE RF - Gas Filter+Particle Item # 17230 BROWN WHITE		Combined Filter OV+ Particle Filter P3	Cyclohexane (C_6H_{12}) with Hepa particle filter	5000 ppm or 30 X OEL whichever is lower
VENUS V-800 +V-7800 **ABEK1+P2R Combo** CE HFM+RF Gas & Particle Item # 15054 MULTICOLOUR		Combined Multigas Filter OV/IO/AG/AM + P2 Particle Filter	Cyclohexane (C_6H_{12}), Hydrogen Sulphide (H_2S), Chlorine (Cl_2), Hydrogen Cyanide (HCN), Sulphur Dioxide (SO_2), Ammonia (NH_3)	1000 ppm or 10 X OEL whichever is lower
VENUS V-800+V-7800 **A1 Filter + P2 R** CE HFM+RF Gas & Particle Retail blister pack Item # 15047 BROWN		Combined Filter OV+ P2 Particle Filter	Cyclohexane (C_6H_{12})	1000 ppm or 10 X OEL whichever is lower
VENUS V-800+V-7800 **ABEK1 Filter + P2 R** CE HFM+RF Gas & Particle Retail blister pack Item # 15133 MULTICOLOUR		Combined Multigas Filter OV/IO/AG/AM + P2 Particle Filter	Cyclohexane (C_6H_{12}), Hydrogen Sulphide (H_2S), Chlorine (Cl_2), Hydrogen Cyanide (HCN), Sulphur Dioxide (SO_2), Ammonia (NH_3)	1000 ppm or 10 X OEL whichever is lower

INSTRUCTION FOR USE

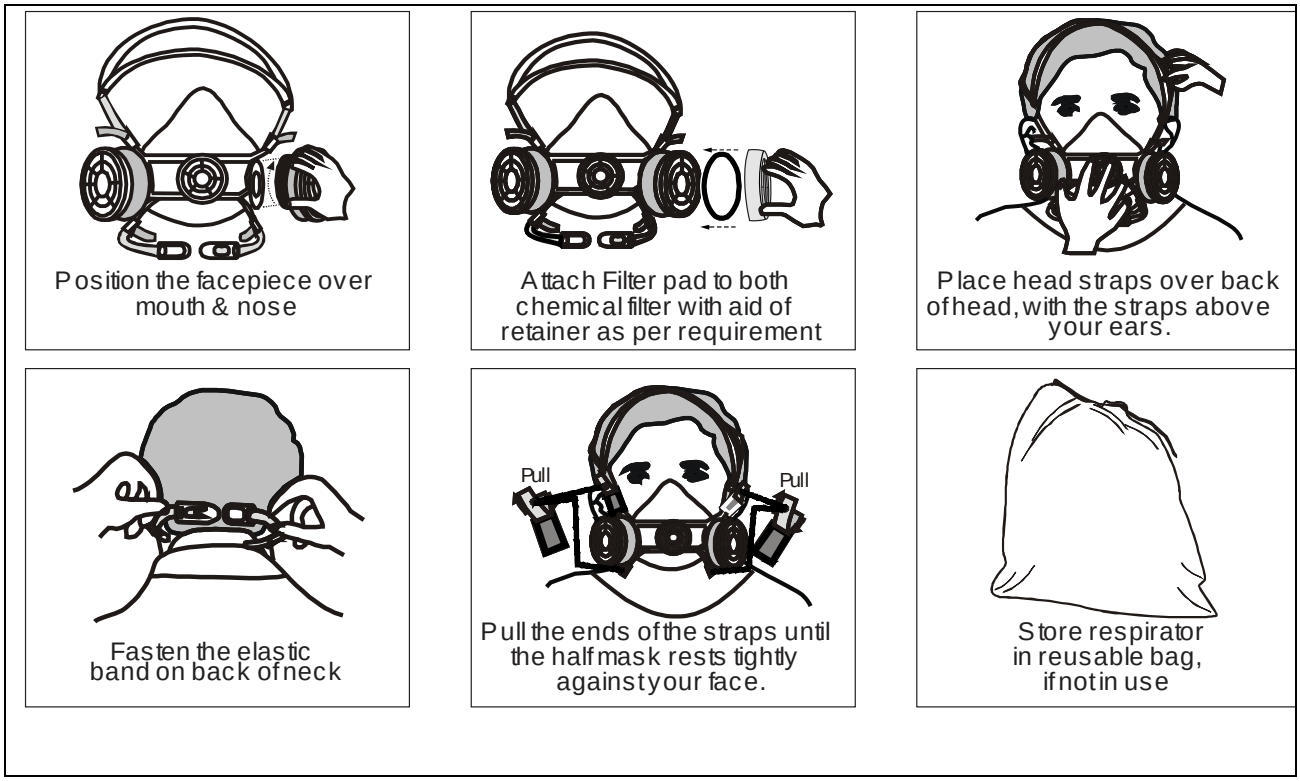
"See information supplied by manufacturer"

Half Mask: EN 140:1998

Particle Filters: EN 143:2000

Gas Filter + Combined Filters: EN 14387

FITTING INSTRUCTIONS TO BE FOLLOWED EACH TIME RESPIRATOR IN USE.



1. Failure to follow all instructions and limitations on the use of this respirator and / or failure to wear this respirator during all times of exposure can reduce respirator effectiveness and result in sickness or death.

2. Before use, wearer must first be trained by the employer for proper respirator use in accordance with applicable Safety and Health Standards. Respiratory protection appliances are to be selected depending on the type and concentration of the hazardous substances.

3. The Respirator may only be used if the type and concentration of the harmful substances are known. In case of unknown substances or concentrations or variable conditions, breathing apparatus should be used.

4. This respirator does not supply Oxygen. Do not use in atmosphere containing less than 17% Oxygen.

5. Non-ventilated containers, mines, canals should not be entered with the filtering half masks because of the risk of Oxygen deficiency or presence of heavy Oxygen-displacing gases (e.g. Carbon Dioxide).

6. If the respirator is damaged or breathing becomes difficult, leave the contaminated area, discard and replace the respirator. Also leave the contaminated area immediately if dizziness or other distress occurs.

7. Never alter or modify this respirator.

8. Do not use with beard or other facial hair that prevents direct contact between the face and the edge of the respirator.

9. Do not use when concentrations of contaminants are immediately dangerous to life and health, are unknown, or when Particulate concentration exceed the maximum use level / or other levels determined by your National Occupational Safety and Health Authorities.

10. Gas filter does not protect against particles. Similarly, particle filters do not provide protection against gases or vapours. In case of doubt, use combined filter. Combined filter are used for protection against gases and particle filter.

11. Combinations of a gas filter of the type Venus V-7800 A1 or Venus V-7800 ABEK1 with a particle pre-filter Venus V-7800 PF fulfill the combined filter class: A1 P2R & ABEK1 P2R. Combinations of a gas filter of the type Venus V-7800 A1 or Venus V-7800 ABEK1 with a particle filter Venus V-7800 P3R fulfill the combined filter class: A1 P3R & ABEK1 P3R. The gas filters and the particle pre-filter get connected by a retainer.

12. Normal filtering devices do not protect against certain gases such as CO (Carbon Monoxide), CO_2 (Carbon Dioxide) and N_2 (Nitrogen).

13. When a breathing protector is used in explosive atmosphere, please follow the instructions given for such area.

14. Gas filters shall be replaced when the user begins to sense odour, taste or irritation. Filters used against detrimental gases that do not display any significant indications, require special regulations for

the duration of use and correct usage. Particle Filter, combined filters & combination filters must be replaced at the latest when breathing resistance becomes too high.

15. Respirator should be disposed off if damaged, or the set safe wear time exceeds or the gas / vapour is detected inside the respirator by taste or smell.

16. Always replace both filters together, if you feel breathing discomfort, & only to be used with twin filter half masks.

17. EN 529 “Instructions for the selection and use of respirators” or the corresponding national regulations are authoritative for the use of filter apparatus sets. For Germany these are the BGR 190 “Rules for the use of respirator” from the German federation of institutions for statutory.

18. Markings: Venus V-800 suitable for Venus V-7800 filters.

Material of mask body: TPE/PP = thermoplastic elastomeric

Sizes: S = small, M = medium or L = large

19. Particle filters: R (Reusable): Reuse of the particle filter is not limited to the duration of a single working shift, i.e. the filters may be reused beyond the duration of a single working shift

20. Half masks and filters exclusively for Anglophone countries.

VENUS Gas filters pair-wise used in connection with the VENUS V-800 half masks

FILTER	HAZARD TYPE	EXAMPLES	MAXIMUM USER LEVELS	COLOUR CODE
V-7800 A1	Organic Vapour	Cyclohexane C_6H_{12}	1000 ppm or 30 x OEL whichever is lower	Brown
V-7800 B1	Inorganic Gases	Chlorine (Cl_2), Hydrogen Sulphide (H_2S), Hydrogen Cyanide (HCN)	1000 ppm or 30 x OEL whichever is lower	Grey

V-7800 E1	Acid Gases	Sulphur Dioxide (SO_2),	1000 ppm or 30 x OEL whichever is lower	Yellow
V-7800 K1	Ammonia	Ammonia (NH_3), and derivatives	1000 ppm or 30 x OEL whichever is lower	Green
V-7800 ABEK1	OV/IO/AG/AM	Multi-gas filter ABEK1	1000 ppm or 30 x OEL whichever is lower	Brown, Grey, Yellow Green
V-7800 A1E1	OV / AG	Multi-gas filter A1E1	1000 ppm or 30 x OEL whichever is lower	Brown, Yellow
V-7800 P3R	Particle Filter	Non highly volatile liquid & solid particle	30 X OEL	White
V-7800 A1 + Pre-filter	Organic Vapour + Particulate Pre-filter	Combination of Venus V-7800 A1 gas filter with V-7800 pre-filter & retainer fulfill the requirement of combined filter class A1P2R	1000 ppm or 30 x OEL whichever is lower	Brown
V-7800 ABEK1 + Pre-filter	OV/IO/AG/AM + Particulate Pre-filter	Combination of Venus V-7800 ABEK1 gas filter with V-7800 pre-filter & retainer fulfill the requirement of combined filter class ABEK1P2R	1000 ppm or 30 x OEL whichever is lower	Brown, Grey, Yellow, Green
V-7800 A1 P3R	Organic Vapour + Particulate filter	Combined filter	1000 ppm or 30 x OEL whichever is lower	Brown & White
V-7800 ABEK1 P3R	OV/IO/AG/AM + Particulate filter	Combined filter	1000 ppm or 30 x OEL whichever is lower	Brown, Grey, Yellow, Green & White

V-7800 ABEK1 Hg P3R	OV/IO/AG/AM/Hg + Particulate filter	Combined Multi-gas Filter including Hg Vapours	1000 ppm or 30 x OEL whichever is lower 50 hours against Mercury vapours	Brown, Grey, Yellow, Green & Red White
V-7800 P3 R Pancake filter	Particle Filter	Non highly volatile liquid & solid particle	30 X OEL	White
V-7800 P3 R Pancake OV filter	Particle Filter	Non highly volatile liquid & solid particle	30 X OEL	White

Note : OEL-Occupational Exposure Limit

Test for leaks before use (either)

Negative pressure test:

Seal both respiratory filters with your hands and breathe in until a negative pressure is created. Hold your breath for a moment. The negative pressure should be maintained. If not, adjust the straps or use a different size of mask.

Half mask may not fit correctly over a beard or drooping cheeks - danger of poisoning! Half mask must fit tightly and the respiratory filters must be fitted before entering the contaminated area.

Excess pressure test:

Seal the exhalation valve of the half mask and breathe out firmly. Half mask must not lift off your face. If the exhaled air dissipates through the softbody, tighten the straps or use a different half mask size. Half mask may not fit correctly over a beard or drooping cheeks –danger of poisoning! Half mask must fit tightly and the respiratory filters must be fitted before entering the contaminated area.

Cleaning, disinfection, drying

Cleaning: Cleaning the mask immediately after use helps to prevent premature wear Clean all parts with a cloth and lukewarm water containing a universal cleaning agent & Rinse thoroughly under running water.

Disinfection: Isopropyl alcohol (IPA) wipes & IPA liquid dabbed on with a lint free cloth are also effective forms of disinfection between patient encounters for an individually issued elastomeric respirator.

Drying: Maximum temperature 70° C.

Assembly and testing

Visual examination of the inhalation valve disc

Unbutton the inhalation valve disc and examine it. Place the disc of the inhalation valve behind the stub. The disc should rest evenly on the sealing area inside the mask body.

Visual examination of the exhalation valve disc

Remove facepiece from mask body. Hold the valve disc by the edge and draw it out. Examine the valve seat for dirt and damage, and wipe it clean with a disposable tissue if necessary. Press the examined valve disc into the valve seat until it engages. The disc should rest on the valve seat uniformly and completely flat.

Assembling half mask

Arrange the straps. Fit the facepiece on the mask body. Insert two new respiratory filters.

Check correct functioning and absence of leaks after assembly and before use with fitted half mask (as described under "Test for leaks before use").

Inspection intervals of the half masks

Operations required	Before	After	Every 6 month	Every 2 year	Every 4 year

Cleaning and disinfecting		x		X [1)]	
Exhalation Valve Disc					x
Visual and operating test	X		X [2)]	x	
Inspection by wearer	X				
Leak tests: Excess-and/or negative pressure	X				

X- Inspect

1) For half masks in hermetically sealed packs. Otherwise every 6 months.

2) Every 2 years in the case of half masks in hermetically sealed packs.

USAGE LIFE:

1. The duration of filter depends on concentration of contaminant and other factors.

2. The presence of odour, taste and irritation indicates that the gas filter no longer works.

STORAGE INSTRUCTIONS:

The filter respirator until use shall be stored in the sealed pack to retain its properties. For transport such packs shall be

Suitably packed in outer cartons to protect from climatic hazards and mechanical shocks

Shelf Life : 60 months from the date of manufacture,

If stored between -5^0 C - +50^0 C &

humidity Not over 80%.

Also, at any time two filters only of the same type and class must be used.

Month & year of manufacture on the inside of face piece marked with ↑

Breathing Resistance

The breathing resistance produced by the gas filter cartridge or combination of gas filter cartridge and particulate filter is tested at airflow of 30 l/min and 95 l/min

Classification	**Max breathing resistance (mbar) according EN14387:2008**	**Max breathing resistance (mbar) according EN 14387:2008**
Flowrate	30 l/min	95 l/min
V-7800 A1	1.0	4.0
V-7800 A1E1	1.0	4.0
V-7800 A1 P2 R	1.7	6.4
V-7800 B1	1.0	4.0
V-7800 E1	1.0	4.0
V-7800 K1	1.0	4.0
V-7800 ABEK1	1.0	4.0
V-7800 ABEK1 P2 R	1.7	6.4
V-7800 A1 P3 R	2.2	8.2
V-7800 A2 P3 R	2.6	9.8
V-7800 ABEK1 P3 R	2.2	8.2

V-7800 ABEK1Hg P3 R	2.2	8.2

Classification	**Max breathing resistance (mbar) according EN143:2007**	**Max breathing resistance (mbar) according EN 143:2007**
Flowrate	30 l/min	95 l/min
V-7800 P3 R (Hepa filter)	1.2	4.2
V-7800 P3 R Pancake filter	1.2	4.2
V-7800 P3 R Pancake OV filter	1.2	4.2

Protection Capacity

The minimum capacities and breakthrough times of gas filter cartridge are tested at a flowrate of 30 l/min

Category Test Gases		**Concentration**	**Minimum Breakthrough Time**
V-7800 A1	Cyclohexane	0.1 %	70 mins
V-7800 B1	Chlorine	0.1 %	20 mins
	Hydrogen Sulphide	0.1 %	40 mins
	Hydrogen cyanide	0.1 %	25 mins
V-7800 E1	Sulphur Dioxide	0.1 %	20 mins
V-7800 K1	Ammonia	0.1 %	50 mins
V-7800 ABEK1Hg P3 R	Cyclohexane	0.1 %	70 mins
	Chlorine	0.1 %	20 mins
	Hydrogen Sulphide	0.1 %	40 mins
	Hydrogen cyanide	0.1 %	25 mins
	Sulphur Dioxide	0.1 %	20 mins
	Ammonia	0.1 %	50 mins
	Mercury Vapour	0.1 %	100 hrs
	& Particulate filter	0.1 %	

Filter Penetration

Classification	**Max filter Penetration EN143:2007 Sodium chloride**	**Max filter Penetration EN143:2007 Paraffin oil**
Flowrate	95 l/min	95 l/min
V-7800 P3 R (Hepa filter)	20	20
V-7800 P3 R Pancake filter	6	6
V-7800 P3 R Pancake OV filter	0.05	0.05

Material of Construction

Parts	Material Of Constructions
Face Seal	Thermoplastic Elastomer(TPE) / Silicon
Head Harness	Polyethylene
Head Strap	Polyster/cotton/Polyisoprene
Inhalation Valve	Silicon Rubber
Exhalation Valve	Silicon Rubber
Filter Body	Polystyrene
Filter Element	Activated / Treated Carbon

Caution

Respiratory Protection is only effective if it is correctly selected, fitted and worn throughout the time when the wearer is exposed to respiratory contaminants

Do not use the respirator in environment that contain less than 17% oxygen

If you do not achieve a proper fit DO NOT enter the contimated area. See your supervisor immediately.

Venus Offers advice on the selection of products, and training in the correct fitting and usage.

Manufacturer name & address

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