Dromex

REUSEABLE HALF MASK



DH-302

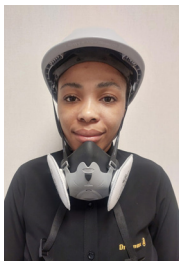
Description

The Dromex® DH-302 is a user friendly ergonomic, lightweight, re-usable and adjustable twin cartridge half mask respirator with outstanding leak tightness. Used in conjuction with Dromex® DR gas and or particulate filters/cartridges, it is designed for respiratory protection and easy breathing by preventing the inhalation of dangerous gases, vapours and particulates when working in toxic environments in a variety of industries.

The DH-302 half mask consists of a durable ABS yoke, a TPR (Thermo Plastic Rubber Elastomer) body providing a soft seal on the face with a fixed, stitched dual elastic head band, pressure-correct skull cradle and large quick release toggles for easy donning and doffing especially when wearing head protective devices that cannot be removed in specific work hazard areas and with gloves.







The low-profile design of the half mask when worn with cartridges integrates well with face shields, protective eyewear and hard hats provides unobstructed worker vision.

The Dromex® DR cartridges feature an easy thread attachment design, that can be easily and securely attached onto the face piece.

The TPR (Thermo Plastic Rubber/Elastomer) construction of the half mask face-piece, is hypoallergenic which makes it an ideal respirator choice for use in food and medical industries.

The half mask body is available in a size small, medium and large, being adjustable allows for a customized fit for the user.



Application

A full range of respiratory filters is available complying with EN 143 & EN 14387 standards.
Refer to the section CARTRIDGE & FILTER SELECTION GUIDE on relevant usage types and international colour codes of respiratory filters. The filters are identified by both EN type number and the colour coded labels.

Special Instructions

All respiratory equipment selection should be read in conjunction with BS EN 529:2005 for selection, use care and maintenance.

- This respirator must not be used in oxygen deficient areas (below 19% volume), oxygen enriched atmospheres (above 25% Volume), explosive atmospheres, or where contaminants or their concentrations are unknown or are known to be immediately dangerous to health or life (IDHL).
- Do not use if particulate or gas concentrations exceed levels fixed by the applicable health and safety regulations.
- Do not use the respirator for fighting fires, sandblasting or for protection against contaminants that are not covered on the corresponding filter cartridge label.
- Do not use for escape purposes.
- This respirator does not protect the eyes or skin against vapours or gases that may irritate or burn on exposure.
- The selection of filters for use and the initial fitting of the respirator should be supervised by a competent person who should also determine the life of the filter during use for the hazard encountered.
- All half masks and filters should be thoroughly inspected before use to ensure no damage is present and that all components are clean and in a working condition. Immediately discard and replace should there be visible damage on the respirator.
- Filters must be changed if breathing resistance increases or the smell of the hazard is sensed. Pre-filter pads should be changed more frequently.
- The respirator should have the correct filter for the hazard and fit comfortably on the face.
- None of the materials or processes used in the manufacture of these products are known to be harmful to the wearer.
- The manufacturer has examined under the system for ensuring quality of production by means of monitoring and inspection.
- These respirators and the information contained herein is designed to accommodate the basic safety requirements and standards for Personal Protective Equipment.
- Actual conditions of use cannot be directly simulated in a test environment therefore it is the responsibility of the end user and not the manufacturer or supplier to determine the masks suitability for the intended use.
- Failure to follow all instructions on use of these respiratory products can affect the wearers health and lead to severe life-threatening illness or permanent disability.
- Do not modify this respirator.

Compliance & Conformity

These products meet the requirements of the PPE regulation (EU) 2016/425, and are therefore CE marked accordingly.
Quality control of Module D certificate number – CE 784124 and Module B, certificate number - CE 784120 is issued by BSI The Netherlands.
Certified as Category III PPE and approved according to standards EN140:1998 CE EN approval as per BSI CE No. 2797

NRCS Homologated as per SANS 50140:1998, Respiratory protective devices — Half masks and quarter masks — Requirements, testing, marking. NRCS Type Approval No. : NRCS/8072/0413.

Approved for use with particulate ¬filters as per EN 143 and gas filters as per EN14387 standards.

Specifications

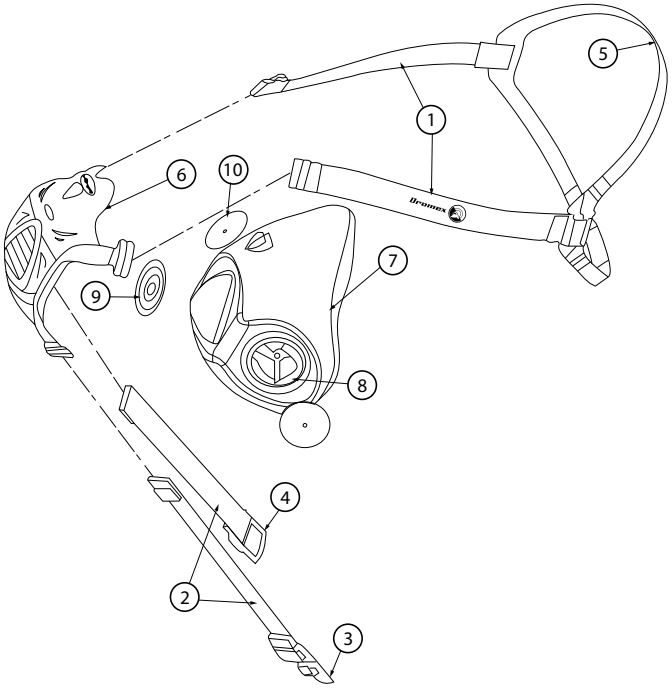
Style:	Size medium, twin cartridge, TPR (Thermo Plastic Rubber / Elastomer) re-useable twin cartridge half mask with an adjustable head band
Breathing Resistance:	Inhalation @ 30 l/min, does not exceed maximum 0.5 mbar @ 95/min, does not exceed maximum 1.3 mbar @ 160 l/min, does not exceed maximum 2 mbar Exhalation @ 160 l/min ,does not exceed maximum 3 bar
Inward leakage:	<5 % of the inhaled air & mean result not exceeds 2%
Resistance to temperature:	a) No deformation 24 h in a dry atmosphere of (70 + 3) "C. b) No deformation 24 h at a temperature of (-30 * 3) "C.
Harness:	With adjustable head cradle, withstands a pull of 50 N applied for 10 s
Mass:	95 g with no cartridge assembly
Additional:	There are no metal fittings in this device

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Latest update: 13/01/2025

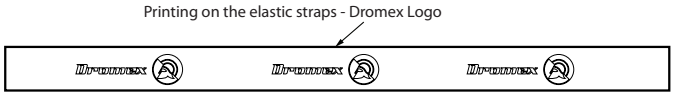
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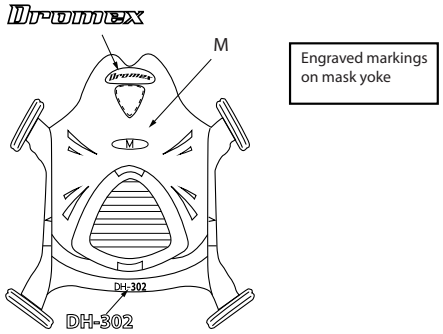
Materials:

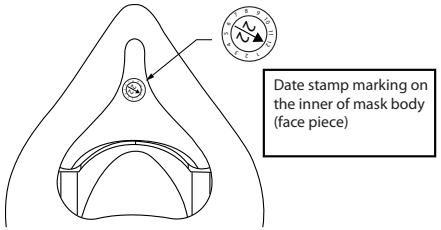


Item Part Description
1. Woven elastic head adjustment straps
2. Woven elastic neck adjustment straps
3. Polypropylene plastic clip (Buckle)
4. Polypropylene plastic clip (Loop)
5. Low density polyethylene plastic skull cradle
6. Acrylonitrile Butadine Styrene mask yoke
7. Thermoplastic Rubber / Elastomer face-piece
8. Inner supporter Acrylonitrile Butadine Styrene
9. Silicone exhalation valve
10. Rubber inhalation valve

Marking









Packaging, Storage & Obsolescence

Packed individually in a sealed poly bag.
This respirator should be stored in a dry, cool environment away from direct sunlight, contaminants, chemicals and abrasive substances to avoid physical contact / damage of any kind.
When not in use, or during transportation, this respirator should be stored in its protective bag or in the packaging provided.



MIDI MASK BAG
CODE: DHRB-BLK

Store in a cool, dry area at a temperature of +2°C ~ 55°C and a relative humidity below 75%. and in accordance with the instructions on the packaging.



Checks Prior to use

- Inspect the shipping packaging and components of the half mask are intact prior to use.
- Inspect the face-piece, harness, head strap, inhalation and exhalation valves for any tears, cracks and distortion.
- If there is visible damage, do not use the mask and immediately discard.

Fitting Instructions

Donning (Putting on)

- Attach half mask cartridges and pre-filters onto the mask prior to donning.
- Ensure that harness straps are not twisted or covering any part of the ear.
- Place the plastic skull cradle onto the head at the back, with the mask covering the nose bridge comfortably.
- Take the left and right plastic fastener in both hands, pull around to the back of the neck and fasten the plastic clip.
- Adjust and tighten the head band straps and neck straps to achieve a comfortable fit.



Fit Testing

Fit test check - PositivePressure

- Place palm of your hand over the exhalation valve and exhale. The face piece should not leak around the face seal
- Maintain positive pressure for at least 5 seconds:
  a.) If no outward leakage is detected, the test has been passed.
  b.) If leakage is detected (usually felt as a cool sensation against the skin or as a loss of pressure hold), either the respirator is malfunctioning or a gross leak exists between the face and face piece. Adjust the mask until the test is passed.



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Fit test check - Negative Pressure

- Cover the inhalation filters with the palm of your hand, inhale and hold your breath for 5 seconds.
  a.) The face-piece will collapse and remain collapsed against the face.
  b.) Remove hands and breathe normally.
  c.) If the face-piece did not remain collapsed during the test, or any leakage is noticed, readjust straps and perform Negative Pressure Seal Test again.



***PLEASE NOTE!! The requirement for leak tightness is unlikely to be achieved if worn against a beard or facial stubble. If you are unable to achieve a correct mask fit, do not use the mask or proceed further to enter the hazardous area*

Removal Instructions - Doffing

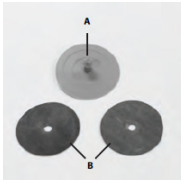
- Only remove your mask in a safe and well-ventilated area away from the hazardous environment of application.
- Release the neck straps and gently pull the half mask away from your face to loosen and thereafter lift the mask over your head.

Changing Filters

- Remove the mask in a safe environment away from the hazardous area.
- When changing a pre-filter pad: Remove the pre-filter cover and dispose of the pre-filter pad hygienically and safely. Insert a new pre-filter pad and re-fit cover.
- Changing filter cartridge: Remove the pre-filter cover if used and unscrew filter or cartridge in an anticlockwise direction.
- Clean respirator. Re-fit a new filter in a clockwise direction.

Inhalation & Exhalation Valve Assembly

A. Exhalation Valve
B. Inhalation Valve



- **Removing/Replacing Exhalation Valves**

> Remove yoke from mask body by pressing on the yoke/mask body connector.





> Remove exhalation valve by pulling on the lid of the valve and visually inspect for damage. Replace exhalation valve by inserting through the inner supporter connection. Thereafter fasten the valve in place by pulling the valve nipple inside.

- **Removing/Replacing Inhalation Valve**

> Remove inhalation valves from the inner of the mask body.
> Visually inspect for any dirt or damage such as distortion and tears. Replace immediately if damaged





Cleaning & Maintenance

Cleaning / Disinfection Instructions

- The respirator should be cleaned and checked for worn or damaged parts after each shift or each use (if not used continuously).
- Clean the mask face piece and face seal with a cloth and warm soapy water. Disinfect with a suitable sanitizing solution such as "Hypochlorite".
- If the filter cartridge is to be reused do not remove from the respirator but clean the filter with a cloth & warm soapy water.
- Dry with a clean cloth.
- Water must not enter the filter cartridge.
- To carry out a more thorough cleaning of the respirator, remove the filter cartridge and exhalation/inhalation valve and yoke valve and wash the complete respirator body in warm soapy water and leave to air dry, or wipe with a clean cloth. Re-fit components in reverse order from which they were removed.
- Do not use solvents (e.g alcohol, acetone, turpentine), strong detergents, hot water, strong bleaches, petroleum-based products or autoclaves to clean and disinfect any part of the mask.
- Care should be taken not to damage the inhalation and exhalation rubber valves.
- **WARNING:** Do not rinse or immerse the product in the water. Do not use hot water for CLEANING.

Maintenance

- Always inspect the mask before and after use. If damaged discard the respirator andreplace immediately.
- Valves should be checked weekly and must be replaced if damaged or deteriorated.
- Conduct weekly inspections of the inhalation and exhalation valves for nicks, cracks, tears,or creases and the exhalation valve seat for nicks, cracks, or dents.
- Conduct monthly checks of the exhalation valve for proper orientation by exhaling through the respirator and pausing before inhaling. The exhalation valve must close by itself before inhaling. Replace valves which fail to close.

Shelf Life

If stored correctly, this mask should have a shelf life of five years.

Disposal

All industrial waste should be disposed of correctly according to local regulations and good disposal practice. Respiratory protective devices should be disposed of considering the hazardous substances they were used for. Please consider recycling.

Cartridge & Filter Selection Guide:

DROMEX PART NUMBER	FILTER TYPE	FOR USE AGAINST	COLOUR CODE	STANDARDS
DR-A1-EN	A1	Organic gases and vapours with boiling points higher than 65°C	Brown (B)	EN14387:2004 + A1:2008
DR-A2-EN	A2			
DR-ABEK1-EN	ABEK1	Multi-type gas filter (Organic gases and vapours with boiling points higher than 65°C, Inorganic gases and vapours, Sulfur dioxide and acidic gases and vapours, Ammonia and organic ammonia derivatives)	Brown (B)/Grey (G)/Yellow (Y)/ Green (G)	EN14387:2004 + A1:2008
DR-P2-EN	P2	Particles (Particle filter)	White (W)	EN143:2021
DR-P3OV-EN	P3 OV(carbon)	Particles (Particle filter)	White (W)	EN143:2021
DR-P2PF-EN	P2	Particles (Particle pre-filter used with gas cartridges only)	White (W)	EN14387:2004 + A1:2008 accessories
DR-P3PF-EN	P3	Particles (Particle pre-filter used with gas cartridges only)	White (W)	EN14387:2004 + A1:2008 accessories
DR-A1P2-EN	A1P2 R D	Combined filters (Organic gases and vapours with boiling points higher than 65°C, and particle filter)	Brown (B)/White (W)	EN14387:2004 + A1:2008
DR-A2P3-EN	A2P3 R D			
DR-ABEK1P3-EN	ABEK1P3 R D	Combined filters (Organic gases and vapours with boiling points higher than 65°C, Inorganic gases and vapours, Sulfur dioxide and acidic gases and vapours, Ammonia and organic ammonia derivatives and particle filter)	Brown (B)/Grey (G)/Yellow (Y)/ Green (G)/White (W)	EN14387:2004 + A1:2008

GAS FILTER CLASSIFICATION	PARTICLE FILTER CLASSIFICATION	TERMINOLOGY
1 Low capacity filter 2 Medium capacity filter 3 High capacity filter	1 Low efficiency filter 2 Medium efficiency filter 3 High efficiency filter	R - Reusable filter D - Dolomite tested for clogging

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