TRIDENT®

HEXHALE®

RTC3100

RESPIRATOR TRIDENT® HEXHALE® SILICONE FULL FACE

USER INSTRUCTIONS

BSI CERTIFIED
AS/NZS 1716: 2012
BMP 795804

INSTRUCTIONS FOR USE AS OUTLINED BY THE MANUFACTURER AND IN ACCORDANCE WITH AUSTRALIAN STANDARD AS/NZS 1716:2012 IN CONJUCTION WITH AS/NZS 1715:2009

The TRIDENT® RTC3100 is a twin filter full face respirator that has a form-fitting shape providing optimum vision, comfort and fit.

For applications such as Painting, Welding, Sanding, Chemical Clean-up, Casting, Mining, Laboratories, Petrochemicals and Pharmaceuticals.

The TRIDENT® RTC3100 respirator is compatible with TRIDENT® 3000 series filters.
Before use, the wearer must read and understand these User Instructions. Keep the User Instructions for reference.

1. WARNING

Misuse may result in sickness or death.

- This respirator is designed to cater for a particular physical characteristic.
- Use only with TRIDENT® gas, vapour, particulate and combined filters.
- Fit of facepiece (check prior to use).
- This respirator does not supply oxygen. Do not use it if the atmosphere contains less than 19.5% oxygen.
- Use in adequately ventilated areas without oxygen deficiency and that do not contain explosive atmospheres.
- The proper type of filter must be chosen according to concentration and type of contaminant in each case.
- Do not use when concentrations of contaminants are immediately dangerous to life and health.
- Two filters must be placed on each respirator.
- Must not be used for protection against carbon monoxide under any circumstances.
- Do not alter, abuse, or misuse this respirator.
- This respirator with filters cannot be used in containers, wells, sewers, or closed spaces with no ventilation.
- Do not use with beards or other facial hair or other conditions that prevent a good seal between the face and the seal of the respirator.
- If the respirator becomes damaged, if you smell or taste contaminants, or if dizziness, irritation, or other distress occurs; leave the work area immediately, and repair or replace the respirator, or contact your supervisor.
- Store the respirator away from contaminated areas when not in use.

WARNING

This head covering does not meet the requirement of AS/NZS 1801.
If head protection is required consult your safety officer.

2. BEFORE USE

1. Make sure the respirator has all its parts: harness and straps, inhalation and exhalation valves.
2. Make sure the respirator is in perfect condition, with no signs of dirt, breakage, cracks, or bumps in any of its components. Should this be the case, the respirator must be disposed of.
3. Make sure the chosen filter is the proper one for the intended use.
4. Make sure two units of the same type of filter are available for each respirator.

3. ASSEMBLING INSTRUCTIONS

TRIDENT® 3000 series filters

1. Align the opening of the filter with the filter attachment on the facepiece.
2. Turn the filter clockwise until it is firmly seated and cannot be further turned. Repeat for the second filter.

4. DONNING RESPIRATOR

NOTE: Two key factors in effective donning are placing the nose in the nose cup initially to centre the respirator on the face and tighten the straps twice following steps 4, 5, and 6, first to snug the respirator then repeat steps 4, 5, and 6 a second time to secure the facepiece seal.

Care must be taken to not over-tighten bottom straps on the first turn.

1. Fully loosen all six head straps.
2. Hold the front of the facepiece with one hand and the straps/comfort cradle away from the facepiece with the other hand, creating an opening for the head. Pull the respirator assembly down over the head and face through the opening. Place the nose in the nose cup and chin in the chin cup area then press the facepiece firmly and evenly against the face (Fig. 1).
3. Pull the head harness to the back of the head (Fig. 1).
   NOTE: Repeat the sequence of steps 4-6 twice, once to snug the straps and take up the slack and a second time to secure and seal the respirator facepiece to the face.
4. Tighten the bottom straps one at a time. Be careful to tighten both sides equally (Fig. 2).
5. Tighten the middle straps one at a time. Be careful to tighten both sides equally.
6. Tighten the top straps one at a time. Be careful to tighten both sides equally.
7. Recheck all straps to ensure they are tight and evenly tensioned so that the head harness is centred on the back of your head. Ensure that the straps and tabs lay flat against your head. If possible, have a partner verify that you have donned your respirator properly. Perform a user seal check as described in these User Instructions.

Fig. 1

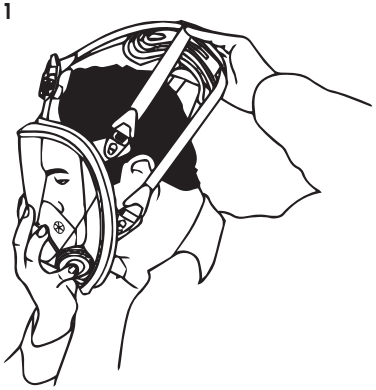


Fig. 2

If you cannot achieve a proper fit, DO NOT enter the work area. See your supervisor.

5. USER SEAL CHECKS

Always check the seal of the respirator on your face before entering a work area.

POSITIVE PRESSURE USER SEAL CHECK

1. Cover the opening of the exhalation valve cover with your hand and exhale gently (Fig. 3). If the facepiece bulges slightly and no air leaks are detected between your face and the facepiece, a proper seal has been obtained.
2. If face seal air leakage is detected, reposition the respirator on your face and/or readjust the tension of the elastic straps to eliminate leakage and recheck seal.

Fig. 3

NEGATIVE PRESSURE USER SEAL CHECK

Negative Pressure User Seal Check with TRIDENT® HEXHALE® 3000 series filters

1. Place your thumbs onto the centre portion of the filters, restricting airflow into the breathing tube of filters, and inhale gently (Fig. 4). If you feel the facepiece collapse slightly and pull closer to your face with no leaks between the face and facepiece, a proper seal has been obtained.
2. If face seal air leakage is detected, reposition the respirator on the face and/or readjust the tension of straps to eliminate the leakage. Repeat the user seal check until a proper seal is obtained.

Fig. 4

If you cannot achieve a proper fit, DO NOT enter the work area. See your supervisor.

6. INSPECTION

This respirator must be inspected before each use and at the time of cleaning to ensure it is in good operating condition. Any damaged or defective parts must be replaced before use. Do not enter a work area with damaged or defective parts. The following inspection procedure is recommended.

1. Check the facepiece for cracks, tears and dirt. Be certain the facepiece, especially the face seal area, is not distorted.
2. Examine inhalation valves for signs of distortion, cracking or tearing.
3. Make sure straps are intact and have good elasticity.
4. Examine all plastic parts for signs of cracking or fatigue. Ensure bayonet gaskets are in good condition.
5. Remove the exhalation valve cover, examine the exhalation valve, and valve seat.

7. STORAGE AND CLEANING

The respirator must be stored at room temperature in a dry place away from contaminants. Do not expose the respirator to heat over 50˚C and do not expose it to direct sunlight.

- Remove filters before cleaning the respirator.
- Clean the respirator with a wet cloth and immerse it in warm water solution, which must not exceed 50˚C using a neutral detergent, if necessary.
- Rinse with warm water and air dry in a contaminant-free environment.
- **DO NOT CLEAN WITH SOLVENTS, STRONG DETERGENTS OR PETROLEUM-BASED PRODUCTS.**

8. MAINTENANCE

To keep the respirator in the best condition, do the following after each use:

- Clean and store completely dry in a hermetically sealed bag without filters.
- Check inhalation and exhalation valves and keep them completely clean without any distortions.
- Make sure the elasticity of the straps does not decrease.
- Make sure the respirator is in perfect condition with no signs of dirt, tearing, cracks or dents in any of its components.
- If any of its pieces show any distortions, the respirator must be replaced and/or disposed of.

9. EXPIRATION

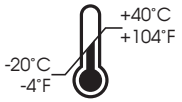
TRIDENT® RTC3100 Respirators are manufactured with high-quality materials. However, respirator parts such as valves, harnesses, straps, or any part that needs to be changed, must be replaced the moment they show any alteration or distortion.

SHELF LIFE: 5 Years from production if unopened.

10. USE LIMITATION

The use of this respirator must be in compliance with current legislation, norms about respiratory protection and norms from various official bodies.

See information supplied by the manufacturer.

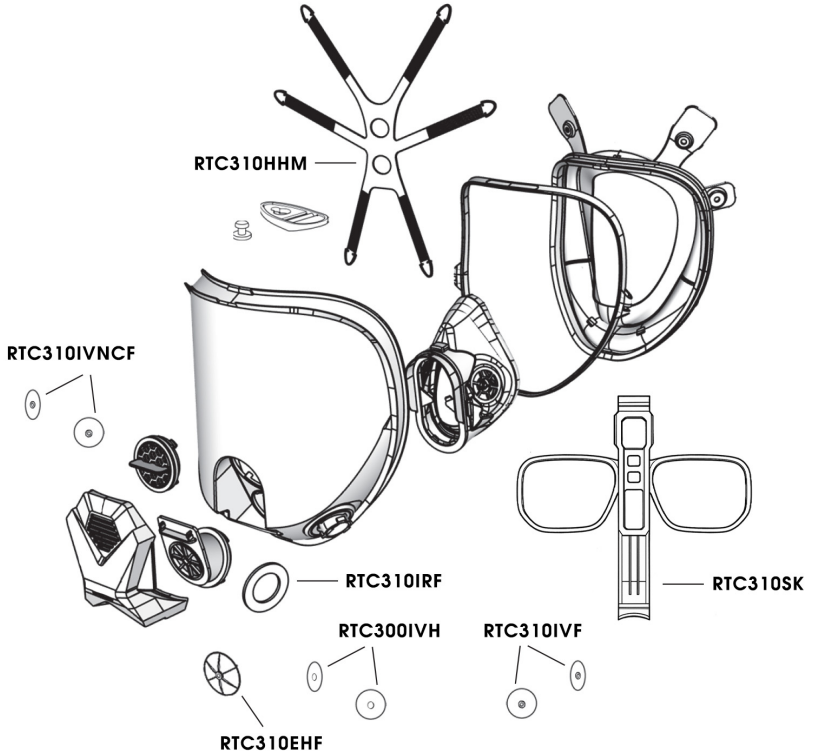


Storage Temperature Range -20˚C (-4˚F) to +40˚C (+104˚F)

Storage Maximum Relative Humidity <80% RH

End of shelf life YYYY/MM

11. REPLACEMENT PARTS AND ACCESSORIES



PART NO.	DESCRIPTION
RTC310EHF	Exhalation Valve (Half and Full Mask)
RTC300IVH	Inhalation Valve (Half Mask)
RTC310IVF	Inhalation Valve (Full Mask)
RTC310IVNCF	Inhalation Valve (Nose Cup)
RTC310SK	Spectacle Kit (Full Mask)
RTC310IRF	Inhalation Ring
RTC310HHM	Head Harness (Incl. Buckle and Button)

Contact Industree Group for further information regarding spare parts.
INDUSTREE.COM.AU I info@industree.com.au

AN INDUSTREE GROUP BRAND

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