

CleanSpace®

RESPIRATORS

PROTECTING WASTEWATER TREATMENT WORKERS

The hazards associated with working in sewage treatment plants are well known, with sewage treatment workers exposed to airborne biological and chemical agents.

Only recently, have studies around the world started to reveal the higher mortality rates, incidences of certain cancers, various infections and cardiopulmonary diseases of this specialised workforce.

HEALTH PROBLEMS AMONGST WASTEWATER TREATMENT WORKERS

Several studies in the US, Denmark, Sweden and Kuwait, returned similar findings when studying the health and mortality rates of wastewater workers against control groups.

FINDINGS INCLUDE:

- Gastrointestinal tract symptoms such as abdominal pain and stomach cancer
- Respiratory symptoms such as chronic bronchitis, toxic pneumonitis, asthma and wheezing
- Central nervous system symptoms such as headache, unusual tiredness, and difficulty concentrating
- Cancer in the larynx, stomach, liver, prostate and blood (Leukaemia)

STUDIES SHOW SIGNIFICANTLY INCREASED RISK OF AIRWAY SYMPTOMS, CHRONIC BRONCHITIS AND TOXIC PNEUMONITIS.

Respirators should be used anywhere that biosolids are aerosolized, such as in the aeration and digestion process.

RISK AREAS

Inhalation is the most common route for chemicals or pathogens to enter the body, usually via:

- Air-stripping from wastewater
- Bubble aeration
- Working near weirs, outfall and aerated tanks
- Dewatering processes
- Drying, compacting and incineration
- Exposure to chemicals while removing debris from treatment plant equipment

BIOLOGICAL AGENTS AND CHEMICAL AGENTS CAN BECOME AIRBOURNE

Biological agents include pathogens such as bacteria, protozoa, viruses, helminths and fungi. Metals will either accumulate in sludge or pass through into the receiving water. Other possible hazards include asbestos and radioactive materials from medical facilities.











CleanSpace®

RESPIRATORS

CLEANSPACE RESPIRATORS FOR PROTECTION AGAINST BIOLOGICAL AND CHEMICAL AGENTS

LIGHTWEIGHT (500g)

 Portable and easily transported in tool boxes and vehicles

COMPACT

 No belts, cables or hoses for easy movement in critical situations

COMFORT

Cool air and no fogging

HIGH-LEVEL PROTECTION

• Powered air purifying respirator P3/TM3. Half and full face mask options. Be prepared for any level of silica dust

A REVOLUTION IN RESPIRATORY PROTECTION

WATER TOLERANT (IP RATING 66)

 Suitable for use with water applications (CleanSpace Ultra)

EASY SET UP AND USE

 Donned in under 15 seconds; Simple assembly; One-button start

SMART BATTERY

• Long run time. Up to 8 hours of continuous use. Rapid re-charge time in under 2 hrs

AIR-SENSIT® TECHNOLOGY

Breath-responsive airflow; Adjusts 100 times per second

CLEAR COMMUNICATION

Transparent silicone mask; Quiet motor

ROBUST, REUSABLE SYSTEM

Shockproof with 2 yr warranty

CleanSpace® is the world's lightest powered respirator: delivering high protection from harmful airborne substances like silica.



- ✓ EN166 & ANSI Z87.1+ Impact **Rated Protection**
- Training tools and product specialist support available





RESPIRATOR & MASKS

PAF-0070 CleanSpace Ultra Power System (exc mask) CleanSpace™ Half Mask MEDIUM PAF-1010

PAF-0027 CleanSpace™ Half Mask LARGE PAF-0033 CleanSpace™ Half Mask SMALL

PAF-1014 CleanSpace™ Full Face Mask MEDIUM / LARGE

PAF-1106 CleanSpace™ Full Face Mask SMALL

FILTERS & ADAPTOR

PAF-0035 CleanSpace Particulate Filter P3 Standard (pk 3) PAF-0038 CleanSpace Filter Adaptor for large case filters

PAF-0037 CleanSpace™ Hi Capacity (HI CAP)

Particulate Filter P3 (single)

ACCESSORIES

PAF-0057 CleanSpace™ Particulate Pre-Filter (Large Case Filters) (pk 20)

CleanSpace™ Particulate Pre-Filter and Coverall PAF-0058

(Standard Filter) (pk 20) CleanSpace™ Coverall

PAF-0049 (Standard and Large Case Filters) (pk 25)

CleanSpace Cleaning & Storage Plug PAF-0074 CleanSpace™ Full Face Mask Spectacle Kit PAF-1017

CleanSpace™ Full Face Mask Tear off Visor PAF-1018 Anti-Scratch Protectors (pk 10)

PAF-1024 CleanSpace Car Charger

CleanSpace ELITE Head Harness for Half Mask (fabric) PAF-1030

PAF-0098 CleanSpace Docking Station (for 8 units)

Trial CleanSpace today, contact Customer Support to arrange a demonstration. WWW.CLEANSPACETECHNOLOGY.COM | sales@cleanspacetechnology.com









