

► Duraflow

Powered air purifying respirator



Operating principle

The **Duraflow** is a cost effective respiratory protection solution. Its low profile modern design provides users better comfort while working in the harshest environments. The unit itself is extremely affordable and uses the very large RD DIN 40 Pro2000 filter range.

► Real-time flow control

The **Duraflow** is a smart device: the unit is constantly monitoring the flowrate in real-time to ensure correct air delivery to its user.

Even as system parameters change (*such as battery power deterioration for example*), the correct air flowrate is guaranteed. Alarms are triggered if the correct air flowrate cannot be reached. Thus users can take appropriate action.

► Comfortable to wear for long periods of time

The lightweight, low profile ergonomic design provides comfort even over extended periods of hard work.

► Lithium-ION battery

2 lithium-ion battery options:

Standard duration battery - up to 8 hours coverage.

Extended battery duration available for longer shifts - up to 16 hours coverage.

► IP 67 protection

The unit can be submerged when equipped with battery and decontamination plugs.

Technical specification

Certifications: EN12941 . CE 0086.

Air flow: Min 160 l/min, automatic adjustment

Li-ion rechargeable batteries: Available in standard (8 hours) or extended (16 hours) battery discharge time depending on the face piece type

Unit display: Power status, battery gauge, alarm status

Alarms: Low flow and low battery

User notification: after being turned on, the unit beeps 3 times when the correct airflow is reached

Protection Rating:

- IP55 (battery & filters fitted, without decontamination plugs fitted)
- IP67 (battery fitted, with hose, filter and decontamination plugs fitted)

Weight: 600g without filters and battery

Sound level: < 70 dB

Temperature range: -10°C to +50°C

Humidity: <95%

The **Duraflow** features a simple, easy to use control panel, enabling users to concentrate on the task at hand, not their equipment. An automatic monitoring feature checks that the unit is operating correctly, warns the user of low battery and quickly compensates for changes in airflow. Battery levels and flow rate alerts are displayed on the simple LED display.



POWER

The large power switch enables users to power on the unit even with no direct sight. An audible alarm will sound three times when the unit reaches the correct flow rate.



ALERT

The large alert icon turns on if the unit drops below minimum flow rate (160 l/min). This is accompanied by an audible alarm.



BATTERY STATUS

The battery level is displayed through a simple LED gauge, enabling users to quickly check their battery status. An audible alarm will accompany the display when the unit reaches low battery level, warning users to immediately evacuate the hazardous area.

► Pro 2000 filters for Duraflow



Duraflow powered air respirators are fully compatible with a large range of filters in order to respond to almost any industrial application. EN12941 standard approved.

The RD DIN40 PRO 2000 filter cartridge series offers several types of filters for any common application. It provides a protection against many toxic substances, from organic vapors up to mercury vapors.

- Fully recyclable plastics
- The plastic cartridge can be used in working environments with heat sources (closed to an oven or in bright sunlight), less conductive than aluminum
- The housing includes a grid made of reinforced polypropylene that keeps carbon sealed.
- The housing cannot be deformed. If a cartridge falls on the ground, it either breaks and needs to be replaced or there is no effect on the cartridge and on the carbon.

All filters are CE marked according to the EN 14387 and/or EN 143:2000 standards. They are individually packed in order to ensure optimal protection of unused filters.

Filter type	Major applications	Reference
Particulates filters PSL	Solid and liquid particles, radioactive and highly toxic particles	50 52 670
Combined filters A2-PSL	Organic gases and vapors with a boiling point above 65 °C, solid and liquid particles, radioactive and highly toxic particles, bacteria and virus	50 42 670
B2-PSL	Inorganic gases and vapors, e.g. chlorine, hydrogen sulfide, hydrogen cyanide, solid and liquid particles, radioactive and highly toxic particles, bacteria and virus	50 42 671
A2B2-PSL	Organic and inorganic gases and vapors, solid and liquid particles, radioactive and highly toxic particles, bacteria and virus	55 42 674
ABE1-PSL	Organic, inorganic and acid gases and vapors, solid and liquid particles, radioactive and highly toxic particles, bacteria and virus	50 42 678
A2B2E2K2-PSL	Organic, inorganic and acid gases and vapors, ammonia, solid and liquid particles, radioactive and highly toxic particles, bacteria and virus	50 42 799
A2B2E2K2Hg-PSL	Organic, inorganic and acid gases and vapors as well as ammonia and organic ammonia derivatives, mercury and mercury compounds, solid and liquid particles, microorganisms, e.g. bacteria and viruses	55 42 798

Products and accessories part numbers

Description	Reference
DURAFLOW pack including motor, standard battery, standard belt and charger	20 31 662
Accessories	
Comfort padded belt	50 63 597
Padded harness	50 63 596
Standard battery	20 31 744
Extended battery	20 31 745
Powered air respirator storage box	20 15 899
Distel disinfectant wipe packet	20 04 225
Decontamination plug pack (1x hose cap and 2x filter cap)	20 31 747

► Facepieces



Half hood

FH1

Designed with a unique neoprene face seal to deliver the highest protection level of powered air.

- Revolutionary soft head cradle for intuitive and straightforward equipment
- Ultra-clear PETG visor offering wide field of view and a clear down-view panel
- Half hood design with skin-friendly neoprene chin seal



Full hood

FH2

Light-weight and comfortable full hood with integrated eye protection and shoulder cape.

- Revolutionary soft head cradle for intuitive and straightforward equipment
- Ultra-clear PETG visor offering wide field of view and a clear down-view panel
- Full hood design, with skin-friendly neoprene chin seal



Anti-static full hood

FH21

Light-weight and comfortable anti-static full hood with integrated eye protection and shoulder cape.

- Revolutionary soft head cradle for intuitive and straightforward donning
- Ultra-clear PETG visor offering wide field of view and a clear down-view panel
- Anti-static full hood design with skin-friendly neoprene chin seal



Face shield

FH31

**Lightweight, user-friendly, multi-purpose face shield.
The hollow polyethylene frame channels the airflow to the breathing zone.**

- Lightweight polyethylene frame with anti-mist coated acetate visor
- Washable and replaceable polyether foam face seal
- Face shield design with broad elastic headband harness

► Facepieces



Helmet and visor

FH6

Ideal combination face piece for dangerous environments such as grinding, quarrying, foundry work, construction and ship building.

- ▢ Integrated helmet and visor with optional ear defenders
- ▢ Choice of visor materials, coatings, and shades.
- ▢ Safety helmet and rail-mounted retractable visor with flexible chin seal



Helmet and welding visor

FH62

This face piece combination is designed for the most demanding environments. It includes respiratory, head, face, eye and hearing protection.

- ▢ Integrated helmet, visor and welding shield with optional ear defenders
- ▢ Electronic variable auto-darkening lens and passive lenses available
- ▢ Safety helmet and rail-mounted retractable visor with flexible chin seal and outer welding shield



Facemask

FM3

Based on the design of the Promask, this face mask uses a T-bar face seal design, which provides a highly efficient seal with minimal pressure on the face. It incorporates a wide panoramic visor and a front mounted speech diaphragm.

- ▢ Choice of halo-butyl and silicone materials
- ▢ Side entry hose improves comfort and balance
- ▢ Full facemask available in two sizes, also approved for unpowered use with Pro2000 filters



Facemask

FM4

Full-face mask providing the highest levels of respiratory protection. A flexible hose connector brings the hose up over the wearer's shoulder.

- ▢ Ultimate comfort with LSR silicone seal and unrestricted (98%) field of vision
- ▢ Side entry hose improves comfort and balance
- ▢ Full facemask available in three sizes, also approved for unpowered use with Pro2000 filters