TORNADO



TORNADO The Respiratory System

Globally accepted as the benchmark in modular respiratory protection systems, the Protector Tornado range goes from strength to strength.

With the choice of powered filtered air or constant flow airline and a comprehensive range of headtops, Tornado provides the most versatile respiratory solutions available.



Powered Air Purifying Respirator



- ERGONOMIC DESIGN waist mounted lightweight, compact and unobtrusive turbo unit
- INTRINSIC SAFETY (I.S.) anti-static polypropylene construction, suitable for use in potentially explosive gas and dust atmospheres
- MODULAR FLEXIBILITY simple to configure for changes in application using Tor/Adapt filter holders
- COMPREHENSIVE FILTRATION extensive range of filters for the widest range of applications
- ELECTRONIC FLOW CONTROL maintains correct airflow as the working environment changes
- INTELLIGENCE provides clear audible and visual warnings of filter clogging and low battery charge
- AUTO HEADTOP DETECTION instantly recognises headtop type, monitors and optimises airflow accordingly
- CHOICE OF BATTERY weight and duration options
- SINGLE OR MULTI-STATION SMART CHARGERS maintain optimum battery performance
- RELIABLE low through life costs





T-A-LINE

Constant Flow Airline Control

- LIGHTWEIGHT AND COMPACT comfortable to wear, contoured waist mounted control unit prevents
- AUTOMATIC DEMAND COMPENSATION maintains optimum airflow to the headtop
- LOW FLOW INDICATOR clear audible alarm
- AUXILIARY OUTLET useful for air tools (e.g. spray gun)
- COMBINED ODOUR FILTER AND SILENCER improves wearer comfort
- OIL CONTAMINATION WARNING visual indication of oil contaminated air supply
- FULLY ADJUSTABLE positions on left or right hip
- AIRLINE FILTER UNITS compatible air filter units for one or two users are included in the range

Follow the T*-Power* and T*-A-Line*System Selection Process

- 1 Select a headtop to suit the application
- 2 Choose between powered filtered air (T-Power) or constant flow airline (T-A-Line)

| T-Power | T-A-Line | | | | | |
|--|---|--|--|--|--|--|
| 3 Select a battery – consider weight and duration | 3 Ensure breathable quality air to EN12021 is available | | | | | |
| 4 Select a charger | 4 Select Airline Filter Unit (AFU) if required to assist in achieving breathable quality air (EN12021) | | | | | |
| 5 Select filters – 1 Particle, 2/3 Gas or 3 Combination (order Tor/Adapt for Gas/Combi filters) | 5 Select approved airline supply hose length and type | | | | | |



• VERSATILE - The modular T-Power system





UNRIVALLED CHOICE OF HEADTOPS



T-ONE

- _____
- Lightweight half hood
- Durable PU coated nylon material
- · Choice of two sizes for optimum fit
- Broad face seal for comfortable, efficient fit

T-Power/T-A-Line



T-TWO



- · Lightweight full head covering
- · Simple drawstring neckseal
- Provides highest protection factor
- Overcomes fit issues, such as spectacles and beards
- Durable PU coated nylon material

T-Power/T-A-Line



T-THREE



- Impact visor available in Polycarbonate or Acetate
- Wide field of vision
- Directional airflow for added comfort
- Smooth action flip up visor
- Broad face seal for comfortable, efficient fit

T-Power/T-A-Line



T-TWENTY FIVE



- Integrated protection for high risk environments
- Hypalon cape provides excellent chemical resistance
- Provides highest protection factor
- Utilises proven Protector Tuffmaster II safety helmet with ratchet head size adjustment
- Choice of Acetate or Polycarbonate visors

T-Power/T-A-Line





KEY TO PROTECTION PROVIDED

Respiratory

Eye

Welding





T-FOUR

- Directional airflow for added comfort
- Smooth action flip up visor
- Broad face seal for comfortable, efficient fit
- Choice of passive or electronic lenses
- Full range of accessories

T-Power/T-A-Line



PROCAP WELD







- Flip front or fully retractable welding shield with secondary impact visor
- Choice of passive or electronic lenses
- Rugged construction for demanding environments
- Efficient weight distribution for optimum comfort
- Optional ear defenders

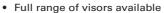
T-Power/T-A-Line



PROCAP







- Unique monorail visor glide system maintains low profile
- Exceptional balance, provides comfortable extended duration use
- Innovative visor seal sweeps the helmet shell, preventing the ingress of contaminants
- Quick lock swivel hose connection greatly increases freedom of movement

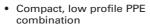
T-Power/T-A-Line



T-FIVE







- Utilises proven Protector Tuffmaster II safety helmet with ratchet head size adjustment
- Optional Protector ear defenders
- Smooth action flip up visor in Polycarbonate or Acetate
- Broad face seal for comfortable, efficient fit

T-Power/T-A-Line





Respiratory

Eye

Welding



APPLICATION GUIDE

Industry

Textiles

Laboratories

GRP Manufacture

Food Processing

Agriculture

Pest Control

DIY

Animal Allergies

Pharmaceutical **Foundries**

Lead Processing

Steel Industry

Shipyards

Welding

Mining

Nuclear

Aluminium Works

Tunnelling/Quarrying

Purification & Sewage Waste Disposal

Chemical Plants Petrochemical

Demolition & Maintenance **Building & Construction**

Electronic/PCB Manufacture

Flour Mills and Silos

Wineries/Market Gardens



T-SEVEN

- Utilises proven Protector Vision 2 full face mask
- Comfortable silicone face seal
- 98% field of vision
- Scratch and solvent resistant coated visor
- Choice of three sizes for optimum

T-Power



T-EIGHT



- Designed for use with existing PPE (welding shields, ear defenders, helmets, goggles)
- Utilises proven Protector R40/R60 half mask
- Comfortable soft silicone facepiece
- Choice of two sizes
- Unobtrusive side hose fitting

T-Power



T-NINE



- Polyurethane and PVC materials provide high resistance to a wide range of chemicals
- Non restrictive field of vision
- Provides highest protection factor
- Overcomes fit issues, such as spectacles and beards
- Easy to decontaminate including in an autoclave

Isocyanates

T-Power/T-A-Line

Paint Spraying

T-Power

T-A-Line

T-Power/T-A-Line







- · Enhanced anti-static polyurethane material
- Easy to clean and decontaminate
- Taped seams prevent liquid ingress
- Provides highest protection factor
- Overcomes fit issues, such as spectacles and beards

T-Power/T-A-Line

APPROVALS

| 1 | T2 | T2/AS | T3 | T4 | T5 | PROCAP | PROCAP WELD | 17 | T8 | T9 | T25 |
|---|----------|------------|----------|----------|---------------------------------------|---------------------------------------|---------------------------------------|----|---------------------------------------|---------------------------------------|----------|
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GUIDE TO PROTECTION LEVELS

| | 1 | T2 | T2/AS | T3 | T4 | T5 | PROCAP | PROCAP WELD | 17 | T8 | T9 | T25 |
|---|------|------|-------|------|------|------|--------|----------------|-------|-------|------|------|
| Classification to EN12941/2 – Powered | TH2 | TH3 | TH3 | TH2 | TH2 | TH2 | TH2 | TH2 | ТМЗ | TM2 | TH3 | TH3 |
| Classification to EN1835 – Airline | LDH2 | LDH3 | LDH3 | LDH3 | LDH2 | LDH3 | LDH2 | LDH2 | - | - | LDH3 | LDH3 |
| Nominal Protection Factor – Powered | 50 | 500 | 500 | 50 | 50 | 50 | 50 | 50 | 2000 | 200 | 500 | 500 |
| Assigned Protection Factor – Powered (in accordance with BS4275 : 1997) | 20 | 40 | 40 | 20 | 20 | 20 | 20 | 20 | 40 | 20 | 40 | 40 |
| Nominal Protection Factor – Airline | | 200 | 200 | 200 | 50 | 200 | 50 | 50 | - | - | 200 | 200 |
| Assigned Protection Factor – Airline (in accordance with BS4275 : 1997) | 20 | 40 | 40 | 40 | 20 | 40 | 20 | 20 | - | _ | 40 | 40 |
| Number of Filters: Gases only | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 2 | 2 |
| Number of Filters: Particulate (P) | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1/2/3 | 1/2/3 | 1 | 1 |
| Number of Filters: Gas/Particulate combinations (eg AP) | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |

ACCESSORIES









ORDERING DETAILS

| Part Number | Description |
|----------------|---|
| T-Power | Tornado blower, belt, flow tester and user instruction manual |
| T-A-Line | Tornado airline unit, belt and user instruction manual |
| T1 | Half hood headtop and hose – specify Medium/Large (M/L) or Small/Medium (S/M) |
| T2 | Full hood headtop and hose |
| T2/AS | Full hood (anti-static) and hose |
| Т3 | Browguard visor and hose |
| T4 | Welding visor and hose |
| T5 | Helmet, visor and hose |
| T25 | Chemical hood, helmet, visor and hose |
| T/PROCAP(xx) | Procap powered air helmet (specify visor type) |
| T/PROCAP/WELD | Procap powered air helmet with welding visor |
| T7/VISION | Full facemask and hose – specify Medium/Large (M/L), Medium (S/M) or Small (S) |
| T8 | Half mask and hose – specify M/L or S/M |
| Т9 | Cylindrical polyurethane hood and hose |
| TOR/BATT/M/2 | 4 hour NiCd battery for T-Power |
| TOR/BATT/H/2 | 8 hour NiCd battery for T-Power |
| TOR/BATT/LITE | 8 hour NiMH battery for T-Power |
| TOR/ADAPT | Filter adaptors (pair) |
| T/AL/FILTER | Replacement filter for T-A-Line unit |
| TOR/WH5 | Optional hose cover (spark resistant) |
| TOR/WB/COMFORT | Optional spark resistant comfort belt |
| WELD/CAPE | Head covering for use with T4 and T/PROCAP/WELD |
| TEWF3/11 | Auto welding filter shade 11 for T4 and T/PROCAP/WELD |
| TEWF4/9-13 | Auto welding filter variable shade 9-13 for T4 and T/PROCAP/WELD |
| TOR/BC/SM | Smart charger (UK/Euro/Aus) |
| TOR/BC/SM/10 | 10 station smartcharger (UK/Euro/Aus) |
| BAG/PPR | Holdall |
| HOSE/PVC/3M | 3 metre airline hose, CEN coupling |
| HOSE/PVC/10M | 10 metre airline hose, CEN coupling |
| AFU 300 | One user Airline Filter Unit |
| AFU 600 | Two user Airline Filter Unit |

FILTERS

| | Colour code | Reference | Filter type | Main area of applications | | | |
|------------------------------|----------------|-----------------|--------------------|---|--|--|--|
| PARTICLE (1 filter required) | | | | | | | |
| | | PF251/2 | PSL | Solid and liquid particulates (dusts, fibres, mists, fumes, bacteria and virus) | | | |
| 9 | | PF251/ SUPER | PSL | As above with approximately three times the capacity | | | |
| GAS (2 | or 3 of th | ne same filte | rs required - | use TOR/ADAPT) | | | |
| | | TF200 | A2 | Organic gases and vapours with a boiling point above 65°C | | | |
| | | TF 203 | K1 | Ammonia and organic ammonia derivatives | | | |
| | | TF210 | A1B1E1 | As TF200 + inorganic and acid gases and vapours, eg. chlorine, hydrogen sulphide, hydrogen cyanide, sulphur dioxide and hydrogen chloride | | | |
| COMBIN | NOITAN | 3 of the sam | ne filters requ | ired – use TOR/ADAPT) | | | |
| | | TF220 | A2PSL | As TF200 + solid and liquid particulates (dusts, fibres, mists, fumes, bacteria and virus) | | | |
| | | TF223 | K1PSL | As TF203 + solid and liquid particulates (dusts, fibres, mists, fumes, bacteria and virus) | | | |
| | | TF230 | A1B1E1PSL | As TF210 + solid and liquid particulates, (dusts, fibres, mists, fumes, bacteria and virus) | | | |
| | | TF233 | A2B2E2K2 Hg-PSL | As TF230 + ammonia and organic ammonia derivatives + mercury vapour + solid and liquid particulates (dusts, fibres, mists, fumes, bacteria and virus) | | | |

These products should not be used in atmospheres immediately dangerous to life, in confined spaces or in atmospheres deficient in oxygen (less than 19.5%).

Please contact your Distributor or Scott Health & Safety Customer Services for further information on applications/ limitations.



ISO 9001:2000 Certificate No. FM 00932







In accordance with our policy of continual product improvement, equipment supplied may differ from the specification detailed herein.



The service life of a filter depends on . . .

- Concentration and characteristics of the workplace contaminant
- Filter capacity, i.e. filter class, compare workplace concentrations to test values
- Air humidity and temperature
- For further information please request our technical data sheets



DISTRIBUTOR

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