

TORNADO

The Respiratory System





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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.



T-POWER

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 snagging
- **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-PowerT-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-PowerT-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-PowerT-A-Line



T-TWENTY FIVE

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

T-PowerT-A-Line



KEY TO PROTECTION PROVIDED

● Respiratory ● Eye ● Welding ● Head



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



- Full range of visors available
- 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



- Compact, low profile PPE combination
- Utilises proven Protector Tuff-master 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



KEY TO PROTECTION PROVIDED

- Respiratory
- Eye
- Welding
- Head

APPLICATION GUIDE



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 fit

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 material provides 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

T-Power/T-A-Line



T-TWO/AS

- 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

	T1	T2	T2/AS	T3	T4	T5	PROCAP	PROCAP WELD	T7	T8	T9	T25
Industry												
Laboratories												
Textiles												
GRP Manufacture												
Food Processing												
Flour Mills and Silos												
Agriculture												
Wineries/Market Gardens												
Pest Control												
Animal Allergies												
DIY												
Pharmaceutical												
Foundries												
Lead Processing												
Aluminium Works												
Steel Industry												
Shipyards												
Welding												
Tunnelling/Quarrying												
Mining												
Demolition & Maintenance												
Building & Construction												
Purification & Sewage												
Waste Disposal												
Chemical Plants												
Petrochemical												
Nuclear												
Isocyanates												
Electronic/PCB Manufacture												
Paint Spraying												

T-Power/T-A-Line

T-Power

T-A-Line

APPROVALS

	T1	T2	T2/AS	T3	T4	T5	PROCAP	PROCAP WELD	T7	T8	T9	T25
Protection												
EN12941 – Respiratory	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓
EN12942 – Respiratory									✓	✓		
EN1835 – Respiratory	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓
EN166 – Eye				✓		✓	✓	✓				✓
EN175 – Welding					✓			✓				
EN397 – Head						✓	✓	✓				✓
EN352-3 – Hearing (optional)						✓	✓	✓				

GUIDE TO PROTECTION LEVELS

	T1	T2	T2/AS	T3	T4	T5	PROCAP	PROCAP WELD	T7	T8	T9	T25
Classification to EN12941/2 – Powered	TH2	TH3	TH3	TH2	TH2	TH2	TH2	TH2	TM3	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	50	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



TOR/BATT



TOR/ADAPT



TOR/BC/SM



















AFU 600

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
T3	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
T9	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)
		PF251/SUPER	PSL	As above with approximately three times the capacity
GAS (2 or 3 of the same filters 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
COMBINATION (3 of the same filters required – 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

CE Approval



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

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



Thank you for reading this data sheet.

Please contact us for a quotation:



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