

POWERED AIR RESPIRATORS

RESPIRATORY PROTECTION





THE RIGHT EQUIPMENT
THE RIGHT PARTNER
THE RIGHT APPROACH

At Scott Safety we do more than build safety equipment. We design and develop comprehensive safety solutions to meet the ever increasing demands of workers across the globe, who depend on Scott Safety products to protect them in high risk environments.

With global manufacturing facilities and a customer base that spans more than 50 countries, we develop and build innovative solutions for respiratory safety, personal protection and other safety needs, for workers in fire and rescue services, industrial workers, police, military and civil defence organizations.

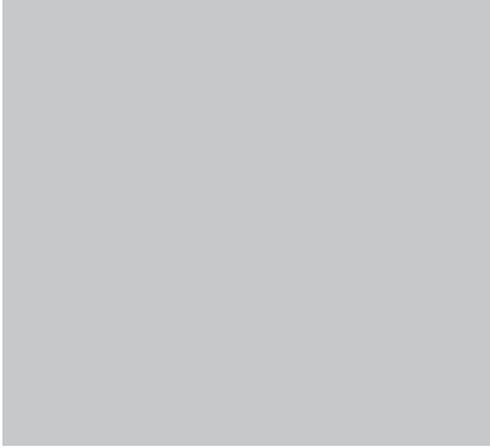
Together our brands span the complete spectrum of safety products: self contained breathing apparatus, supplied air and air-purifying respirators, gas and flame detection instruments, thermal imaging cameras, air compressors, accountability systems, head, hearing, eye and face protection.

But as these workers would attest, to face those hazards, equipment is only half the battle. They know that safety must be a complete approach — one beginning with quality equipment and including end-to-end solutions that are built on experience and constant innovation. Because beyond simply meeting industry standards, keeping people safe means meeting the customer's ever-changing needs and increasingly demanding work environments.



For over 50 years, Scott Safety brands have been synonymous with high quality, innovative respiratory protection. Around the world, workers choose Scott Safety respiratory protection to keep them safe, in a wide range of industrial hazards, from paint spraying to the nuclear industry. Innovation is inherent in the Scott Safety respiratory protection offering and the latest respiratory approach; the Scott Safety Powered Air Respirator range allows workers to tailor their respiratory solution to their requirements, ensuring maximum user acceptance.

Scott Safety understands you have a job to do, and with respiratory protection from Scott you can concentrate on your work, not your equipment.



Contents

INTRODUCTION

- 2 The Right Partner, The Right Equipment
- 6 Breathe Safely. Work Longer
- 7 Select a Respiratory Solution

POWERED AIR RESPIRATORS: A BREATH OF FRESH AIR

- 10 Spirit Powered Air Respirator
- 11 Spirit SX Powered Air Respirator
- 12 Proflow 2 SC Powered Air Respirator
- 13 Proflow 2 EX Powered Air Respirator
- 14 Proflow 3 SC Powered Air Respirator
- 15 Proflow 3 EX Powered Air Respirator
- 16 Duraflow Powered Air Respirator
- 17 Tornado Non EX Powered Air Respirator

HEADTOPS: SOLUTIONS FOR YOUR APPLICATION

- 20 FH1 - Half Hood Headtop
- 20 FH2 - Full Hood Headtop
- 20 FH21 - Anti Static Full Hood Headtop
- 21 FH22 - Full Hood Headtop
- 21 FH3 - Headtop with Flip Up Visor
- 21 FH31 - Faceshield
- 22 FH32 - Faceshield with Hood **COMING SOON**
- 22 FH4 - Headtop with Welding Visor
- 22 FH5 - Headtop with Helmet and Visor
- 23 FH51 - Headtop with Helmet and Full Hood
- 23 FH6 - Headtop with Helmet and Visor
- 23 FH61 - Headtop with Helmet and Welding Visor
- 24 FH7 - Full Hood Headtop **COMING SOON**
- 24 FM1.1 / AVIVA - Half Mask **COMING SOON**
- 24 FM1.2 / AVIVA - Half Mask **COMING SOON**
- 24 FM1 - Half Mask
- 25 FM2/Sari - Full Face Mask
- 25 FM3/Promask - Full Face Mask
- 25 FM4/Vision - Full Face Mask

FILTERS & ACCESSORIES

- 28 Spirit Filters (SF Filters)
- 28 Tornado Filters (TF Filters)
- 29 Proflow Filters (Pro2000 Filters)
- 30 Hoses
- 31 Accessories

COMPATIBILITY

- 32 Blower Compatibility Matrix
- 33 Headtop Compatibility Matrix

BREATHE SAFELY. WORK LONGER.

POWERED AIR RESPIRATORS

Powered Air Purifying Respirators (PAPR) can be one of the most important pieces of PPE to wear, protecting the lungs and airways from a range of particulate, fume and gas hazards.

Thousands of workers use Respiratory Protective Equipment (RPE) to protect themselves from respirable hazards in the workplace. Employers have a legal duty to protect workers from respirable hazards and should ensure that other measures including local ventilation systems are employed to control substances at source. In areas where this ventilation is not sufficient or possible, employers must provide suitable PPE including RPE. There are multiple types of Respiratory Protective Equipment including disposable masks, half and full face masks, powered air respirators and self contained breathing apparatus (SCBA).

Types of Respirator



There are different types of reusable respirator available. Negative Pressure masks (which includes half and full face masks) have a filter fitted directly to the mask. A vacuum or “negative pressure” is created inside the mask when the user inhales which forms a tight seal around the face. Air is brought through the filter upon inhalation, the filter removes the contaminants and clean air is brought into the mask.

Powered Air Respirators (PAPR) typically use a battery powered motor to provide a stream of purified air through filters to a headtop via a breathing hose. A wide variety of filters and headtops can be selected depending on the user’s application.

Powered Air Respirators are ideally suited to users in hot or humid conditions and for those taking part in strenuous or lengthy work activities. **Air Purifying Respirators must never be used in oxygen deficient atmospheres under any circumstances.**

The Benefits of a Powered Air Respirator

Increased Working Duration: It is not recommended to wear negative pressure respirators for more than 1 hour without taking a break*. By contrast, users of powered air respirators are not required to take a break because use of PAPR is a

lower burden on users lungs. This means workers can be more productive as they can continue working on their tasks resulting in less operational downtime.

Increased Comfort Levels: Scott Safety Powered Air Respirators provide a constant flow of fresh air at up to 220 l/min (depending upon PAPR unit and headtop combination). With no breathing resistance and a consistent air flow rate, PAPR wearers are more comfortable, particularly for longer durations and when undertaking strenuous activity. The action of the motor or fan can also provide a “cooling effect”, providing an increase in comfort. Increased comfort levels over negative pressure respirators can result in increased user acceptance as workers are less likely to remove the equipment.

Solutions for Every Application: An extensive variety of filters and headtops are available, enabling a tailored approach to respiratory protection. This approach provides protection against a wide range of respirable hazards including gases, particulates and vapours.

Fit Testing: All users of tight fitting respirators are obliged to undergo face fit testing to ensure the respirator fits and is protecting adequately. Using a loose fitting headtop can mitigate the need for fit testing, subject to local regulatory requirements. Loose fitting respirators (e.g. hoods) accommodate a wide variety of head shapes and sizes resulting in a good fit for the majority of the workforce.

Users of Powered Air Respirators with tight fitting facepieces are required to undergo face fit testing to ensure a good seal.

Facial Hair/ Difficult to fit: Workers who have facial hair are unsuitable for negative pressure respirators as facial hair can compromise the facemask seal allowing contaminants to enter. PAPR can offer a viable alternative for those who struggle, for reasons such as facial hair, the need to wear spectacles etc) to obtain an effective facefit with close fitting respirators

Integrated Protection: Powered Air Respirators and Headtops are available as an integrated combination including Respiratory, Head, Face Eye and Hearing Protection. Some headtops are also compatible with safety helmets and bump protection.



*Time restriction based on HSG53 - Respiratory protective equipment at work, Health & Safety Executive 2013

SELECTING YOUR SYSTEM. POWERED AIR RESPIRATORS

Types of Headtop

There are a number of different headtops available depending upon the user and application requirements.



Loose Fitting Hood



Helmet Integrated



Faceshield



Welding Headtop

Loose Fitting Hoods - These are lightweight hoods which can be worn by a wide variety of head shapes and sizes. They can include a neck cape for splash protection and can provide a respiratory option for workers with facial hair.

Headtops including Helmet - These provide an integrated PAPR respiratory headtop with incorporated head protection. FH6 for example combines respiratory, eye and head protection and can be fitted with ear defenders. These are also ideally suited to workers in the construction industry for example protection against Respirable Crystalline Silica (RCS).

Face Shields - These are a lightweight face shield for use in a wide variety of applications. These face shields protect the face from impacts and liquid splashes whilst incorporating an air delivery system.

Welding Headtops - Suitable for users taking part in welding or grinding operations, these headtops include visors with impact protection and capable of removing harmful light encountered in welding processes.

Scott Safety offers a wide range of respiratory solutions for an extensive list of applications. Please note all information is provided as a guide only. A thorough workplace risk assessment should be undertaken to determine type of RPE required for the specific application.

A GUIDE TO SELECTION

Please note the following information is provided as a guide only. **A thorough workplace risk assessment should be undertaken to determine type of RPE required for the specific application.**

START
HERE

Has it been determined through a risk assessment that Respiratory Protection Equipment is required?

No

Conduct a Risk Assessment

Yes

Does the workplace risk assessment show that negative pressure/PAPR is a suitable form of respiratory protection?

No

SCBA Set

Do not use a filtration based respirator.
Use a BA Set which can be used in IDLH atmospheres

Yes

Do you require the benefits PAPR can have over over negative pressure?

- Suitable for facial hair
- Increased Comfort
- Wide selection of headtops
- Suitable for longer durations? (>1hr)

Yes

PAPR

A Powered Air Respirator may be suitable for your needs. Select a PAPR unit / headtop / filter combination in line with the risk assessment

Negative Pressure

Negative Pressure Respirators are a lower cost option but do require a fit test and regular breaks

No

Headtops

A wide variety of compatible headtops are available:
Loose Fitting Hood
Integrated Helmet
Faceshield
Welding Headtop
Tight Fitting Mask

Turbo Unit

A range of systems are available including:
Spirit
Proflow
Duraflow
Tornado

Filters

A wide variety of compatible filters are available depending upon the hazard. See page 28-29 for information



A BREATH OF FRESH AIR

Selecting appropriate respiratory equipment can be confusing. Scott Safety understands this and the importance of ease of its selection. As respiratory experts, Scott Safety aids customers in making the right choice of respiratory protection for their needs. Scott Safety offers a comprehensive range of Powered Air Respirator systems to protect workers from a wide range of respiratory hazards.



POWERED AIR

www.scottsafety.com



SCOTT
SAFETY

The logo for Scott Safety, featuring a stylized red 'S' icon to the left of the word 'SCOTT' in a bold, black, sans-serif font, with the word 'SAFETY' in a smaller, black, sans-serif font below it.

SCOTT
SAFETY



SPIRIT

POWERED AIR RESPIRATOR

SP

The Spirit offers an advanced level of electronic controllability and is fully programmable to meet the precise needs of both the user and their application. It is the perhaps the most sophisticated PAPR on the market with multiple layers of functionality including variable flowrate, personalisation, filter locking, range of user notifications, service interval management.

Range of hose options compatible with a variety of headtops

Adjustable flow with Particulate filters between 170 l/min and 220 l/min, steps set at 170, 180, 200 and 220 l/min

Electronic airflow control compensates for different headtops and filter resistance to ensure the correct flow is maintained

Audio and visible battery and flow alarms in high ambient noise levels

Large colour display with simple icons to show flow rate / filter type / battery status / alarm conditions

Locking filters to prevent accidental disconnection

Rechargeable Li-ion battery provides full shift operation (new lighterweight battery)



SPIRIT

Technical Data

Approvals:	EN12941 (TH2/TH3) & EN12942 (TM2/TM3)
Air flow:	Max 220 l/min, manual adjustment
Battery:	Rechargeable, Li-ion 11.1v 5.2Ah
Battery operating time:	5-8 h from a single charge, depending on the filter/facepiece combination
Charging device:	6 h recharging time.
PAPR status indication:	Battery life status / Flow rate / Alarm Conditions
Weight of unit without filters:	1,4 kg
Sound level:	< 70 dB (A)
Temperature range:	-10 °C ... + 50 °C
Humidity:	< 95%
Recharging temperature:	Recommended recharging temperature + 20 °C
Ingress Resistance:	IP55

SP
SX

SPIRIT SX

POWERED AIR RESPIRATOR

The Spirit SX powered air purifying respiratory protection system provides a choice of the most advanced electronically controlled and maintained power units which are programmable to meet the precise needs of both the user and their application. The Spirit SX powered air purifying respirator (PAPR) system provides adaptability and controllability, enabling users to achieve a new level of precision in meeting their comfort and performance needs.



SPIRIT SX

Technical Data

Approvals:	EN12941 (TH2/TH3) & EN12942 (TM2/TM3)
Air flow:	Max 220 l/min, manual adjustment
Battery:	Rechargeable, Li-ion 11.1v 5.2Ah
Battery operating time	5-8 h from a single charge, depending on the filter/facepiece combination
Charging device:	6 h recharging time.
PAPR status indication:	Battery life status / Flow rate / Alarm Conditions
Weight of unit without filters:	1,4 kg
Sound level:	< 70 dB (A)
Temperature range:	-10 °C ... + 50 °C
Humidity:	< 95%
Recharging temperature:	Recommended recharging temperature + 20 °C
Ingress Resistance:	IP55

PROFLOW 2 SC

POWERED AIR RESPIRATOR



Intelligent and easy to use, the Proflow SC has a number of advanced refinements over the original Proflow concept. Lightweight, compact and durable, the Proflow SC's ergonomic design incorporates a curved backplate, which ensures user comfort even for long periods. Proflow 2 SC on-board control system continually monitors the status of the power pack and adjusts the airflow rate.



PROFLOW SC IS AVAILABLE IN THE FOLLOWING VARIANTS:



Proflow 2 SC 160*
160 litres per minute
airflow



Proflow 2 SC 120
120 litres per minute
airflow

PROFLOW 2 SC

Technical Data

Approvals:	EN12941:1998+A2:2008, EN12942:1998+A2:2008 (TH2/TH3/TM2/TM3).
Proflow 2 SC 160 Air flow:	Min 160 l/min with automatic adjustment
Proflow 2 SC 120 Air flow:	Min 120 l/min with automatic adjustment
Battery:	NiMH rechargeable, 9.6 V/4,5Ah High performance battery. Internal overcurrent and temperature protection. Size 134x34x34mm. Weight 448g
Battery operating time	Minimum 4.5h from single charge depending on the filter/facepiece combination.
Battery Life	Approx 500 charging cycles (4 h daily running time)
Charging device:	6h recharging time. Mains operated: Prim: 100-240 V AC, 50-60 Hz 14VA. Sec: 4,8/9,6 V DC. Max. 700 mA 6,72 VA. Size: 90x60x38mm. Weight: 340g
Power pack status indication:	Visual display of battery status (A), motor power (P). Warning buzzer of low battery status; running time approx 15 minutes left.
Weight of unit without filters:	1,4 kg
Sound level:	< 70 dB (A)
Temperature range:	-10 °C ... +30 °C (Factory sealed -10 °C - +50°C)
Humidity:	< 95%
Recharging temperature:	Recommended recharging temperature approx + 20 °C
Ingress Resistance:	IP54 powered/IP67 unpowered with decontamination plugs fitted

*additional headtops are approved with Proflow 2 SC 160

2EX
120

2EX
160

PROFLOW 2 EX

ATEX POWERED AIR RESPIRATOR

Proflow 2 EX is for applications where potentially explosive atmospheres require an intrinsically safe PAPR. Proflow 2 EX on-board control system continually monitors the status of the power pack and adjusts the airflow rate. The casing is highly durable and resistant to impact, high temperature, chemical splash and welding sparks.



PROFLOW 2 EX IS AVAILABLE IN THE FOLLOWING VARIANTS:



Proflow 2 EX 160
160 litres per minute
airflow



Proflow 2 EX 120
120 litres per minute
airflow

PROFLOW 2 EX	
Technical Data	
Approvals:	EN12941:1998+A2:2008, EN12942:1998+A2:2008 (TH2/TH3/TM2/TM3).
EX Classification	Proflow 2 EX is approved to EN60079-0, EN60079-11 & EN60079-31, VTT 04 ATEX 013X Ex classification: II2G Ex ib IIC T3 Gb, II 3 D Ex tc IIIB T80°C Dc
Proflow 2 EX 120 Air flow:	Min 120 l/min with automatic adjustment
Proflow 2 EX 160 Air flow:	Min 160 l/min with automatic adjustment
Battery:	NiMH 9,6 V/3.8Ah EX Rechargeable. Contains a safety circuit. Internal over current and temperature protection.
Battery operating time	Minimum 4.5h from single charge depending on the filter/facepiece combination.
Battery Life	Approx 500 charging cycles (4 h daily running time)
Charging device:	6h recharging time. Automatic trickle charging. Mains operated: Prim: 100-240 V AC, 50-60 Hz 14VA. Sec: 4,8/9,6 V DC. Max. 700 mA 6,72 VA. Size: 90x60x38mm. Weight: 340g
Power pack status indication:	Visual display of battery status (A), motor power (P). Warning buzzer of low battery status; running time approx 15 minutes left.
Weight of unit without filters:	1.5 kg
Sound level:	< 70 dB (A)
Temperature range:	-10 °C - +30 °C (Factory sealed -10 °C ... +50°C)
Humidity:	< 95%
Recharging temperature:	Recommended recharging temperature approx + 20 °C
Ingress Resistance:	IP54 Dust and water ingress

*additional headtops are approved with Proflow 2 EX 160

DURAFLOW

POWERED AIR RESPIRATOR



The DURAFLOW powered air respirator is designed with end user comfort in mind. Its sleek, modern ergonomic profile allows the user to experience enhanced comfort while working in the most demanding environments. DURAFLOW features a durable body to withstand arduous environments and a range of design features including: real-time air flow control; audible/visual alarms; 2 battery options and LED operation displays.



Please note: FH31/ABEK-PSL/ABEKHg-PSL/PU (stretch & fixed) hose not an approved combination
 * Available as a selection of ready-paks

DURAFLOW

Technical Data

Approvals	EN12941 . CE 0086.
Air flow	Min 160 l/min, automatic adjustment.
Battery	Rechargeable, Li-ion - available in Standard or Extended durations. (IP65 rated)
Battery operating time (Standard Battery)*	Up to approx. 8 hours depending upon Headtop/filter combination
Battery operating time (Extended Battery)*	Up to approx. 16 hours depending upon Headtop/filter combination
PAPR status indication	Power status; battery gauge; alarm status
Alarms	Low flow; Low battery
User notification	3 beeps when correct airflow reached on start up
Approximate weight of unit without filters & battery	600g
Sound level	< 70 dB (A)
Temperature range	-10°C to +50°C
Humidity	<95%
Recharging temperature	Recommended recharging temperature approx + 20 °C
Ingress Resistance	IP65 (decon kit part no. 2031747) can be used to block hose and filter ports during showering. DO NOT submerge battery.



TORNADO

POWERED AIR RESPIRATOR

The TORNADO is a modular powered respiratory system which conforms to the latest EN 12941 & EN 12942 standards. At the heart of the system is the T-Power; a lightweight, compact powered air respirator which is comfortable and easy to use. T-Power features an electronic air management system. The unit monitors airflow rates and as filters are used and reduce in efficiency, the unit compensates airflow so that a minimum 140 l/min for open headtops and 120 l/min for facemasks is maintained. With a wide range of headtops and filters, Tornado provides one of the most versatile respiratory solutions available.



TORNADO NON-EX

Technical Data

Approvals:	EN 12941/ EN 12942 CE 0086
Air flow:	Min 140 litres/min
Battery:	NimH 4.8 V nominal (5.2 max), X Ahr battery. Internal overcurrent and temperature protection. Size 145mm x 70mm x 80mm, Weight 450 g
Battery operating time	Up to 7-8 hours depending upon Headtop/filter combination
Battery charge time	7-8 hours approx.
PAPR status indication	Battery Status / Flow Status
Alarms	Audible alarm sounds for Low flow or Low battery.
Alarm Sound Level	>75 dB (audible level dependant on headtop)
Weight of unit without filters or battery:	370 g approx.
Weight of unit with standard battery and no filters	820 g approx.
Sound level:	< 75 dB (A)
Temperature range:	-10 °C ... +40 °C
Humidity:	< 95%
Recharging temperature:	Recommended recharging temperature approx + 20 °C
Ingress Resistance:	IP54 Dust and water ingress

PROFLOW 3 SC 180

POWERED AIR RESPIRATOR

3SC
180

Proflow 3 SC 180 is a high performance, high flowrate powered air unit for use in the most demanding applications. The use of three filters facilitates the effective removal of contaminants at a higher flowrate.

Available with a variety of headtops and hoses

Highly durable construction

Electronic control compensates for higher filter resistance to ensure the correct flow is maintained

Choice of Standard, comfort belt or comfortable harness

On board chip data logs all usage which is downloadable to provide full service and maintenance information

Rechargeable NiMH battery provides full shift operation. Optional high performance battery available.

Comprehensive Pro2000 filter options including Particulate & Combination filters allow for usage in a variety of environments



PROFLOW 3 SC 180

Technical Data

Approvals	EN12941 & 12942 (TH2/TH3/TM2/TM3).
Air flow	Min 180 l/min with automatic adjustment
Battery	NiMH rechargeable, 9.6 V/4Ah Standard. Internal overcurrent and temperature protection. Size 134x34x34mm. Weight 448g. Optional 9.6 V/4,5Ah High performance battery
Battery operating time	Minimum 4.5h from single charge depending on the filter/facepiece combination.
Battery Life	Approx 500 charging cycles (4 h daily running time)
Charging device:	6h recharging time. Automatic trickle charging. Mains operated: Prim.: 230 V - 50 Hz, Sec.: 4,8 - 12 V= max. 700 mA. Size: 105x65x47mm. Weight: 660 g
PAPR status indication	Visual display of battery status (A), motor power (P). Warning buzzer of low battery status; running time approx 15 minutes left
Weight of unit without filters:	1.5 kg
Sound level:	< 70 dB (A)
Operating Temperature range:	-10 °C ... +30 °C (Factory sealed -10 °C ... +50°C)
Humidity:	< 95%
Recharging temperature:	Recommended recharging temperature approx + 20 °C
Ingress Resistance:	IP54S (IEC 60529 (1989-11)). VTT Industrial systems T136.



PROFLOW 3 EX

POWERED AIR RESPIRATOR

Proflow 3 EX is for applications where potentially explosive atmospheres require an intrinsically safe PAPR. Proflow 3 Ex is equipped with microprocessor-controlled airflow management for faultless operation and accurate airflow regulation. The on-board control system continually monitors the status of the power pack and adjusts the airflow rate. The casing is highly durable and resistant to impact, high temperature, chemical splash and welding sparks.

Available with a variety of headtops and hoses

Electronic control compensates for higher filter resistance to ensure the correct flow is maintained

Rechargeable NiMH battery provides full shift operation. Optional high performance battery available.

Highly durable, intrinsically safe construction

On board chip data logs all usage which is downloadable to provide full service and maintenance information

Comprehensive Pro2000 filter options including Particulate & Combination filters allow for usage in a variety of environments. Compatible with AXP3 filters

PROFLOW 3 EX

Technical Data

Approvals:	EN12941 & 12942 (TH2/TH3/TM2/TM3).
EX Classification	Ex II 2GD IP 54. II 2 G: EEx ib IIC T3 Gb & II 3 D: Eex tc IIIB T 80°C De. The blower/battery system has been certified as an Intrinsically Safe Equipment to EN 50020 and 50014 by VTT certification services. VTT No. Ex - 00.E.005X.
Air flow:	Min 120 l/min with automatic adjustment
Battery:	NiMH 9,6 V/3.8Ah EX Rechargeable. Contains a safety circuit. Internal over current and temperature protection.
Battery operating time	Minimum 4.5h from single charge depending on the filter/facepiece combination.
Battery Life	Approx 500 charging cycles (4 h daily running time)
Charging device:	6h recharging time. Automatic trickle charging. Mains operated: Prim.: 230 V - 50 Hz, Sec.: 4,8 - 12 V= max. 700 mA. Size: 105x65x47mm. Weight: 660 g
PAPR status indication	Visual display of battery status (A), motor power (P). Warning buzzer of low battery status; running time approx 15 minutes left.
Weight of unit without filters:	1.5 kg
Sound level:	< 70 dB (A)
Operating Temperature range:	-10 °C ... +30 °C (Factory sealed -10 °C ... +50°C)
Humidity:	< 95%
Recharging temperature:	Recommended recharging temperature approx + 20 °C
Ingress Resistance:	IP54S IEC 60529

SOLUTIONS FOR YOUR APPLICATION

To a user of powered air, the prime drivers in determining suitability are; the comfort and performance of the headtop or mask. Scott Safety's range provides the highest levels of wearer acceptance. All headtops and masks except FH4 & FH7 are supplied without a hose, which should be ordered separately.

HEADTOPS

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 **SCOTT**
SAFETY



SHS FN 166 3 9 B CE

SHS 1620 02

FH1

Half Hood

Ultra light-weight and comfortable half hood with integrated eye protection. The FH1 has been designed with a unique Neoprene Face seal to deliver the highest level of PAPR protection without compromising user comfort. Improved vision is also a focus of the FH1 hood, using a large flexible PETG visor for enhanced flexibility, clarity and chemical resistance and a transparent chin panel the peripheral vision has been maximised for further increased user comfort.

PRODUCT HIGHLIGHTS:

- Innovative soft head cradle for intuitive and straightforward donning
- Ultra-clear PETG visor giving wide field of view and a clear down-view panel
- Half hood design with skin-friendly neoprene chin seal
- CE certified to EN12941 TH2/3, EN166 1F (45 m/s low impact)



FH2

Full Hood

Light-weight and comfortable full hood with integrated eye protection and shoulder cape. The FH2 has been designed with a unique Neoprene Face seal to deliver the highest level of PAPR protection without compromising user comfort. Improved vision is also a focus of the FH2 hood, using a large flexible PETG visor and a transparent chin panel the peripheral vision has been maximised for further increased user comfort.

PRODUCT HIGHLIGHTS:

- Innovative soft head cradle for intuitive and straightforward donning
- Ultra-clear PETG visor giving wide field of view and a clear down-view panel
- Full hood design with skin-friendly neoprene chin seal
- CE certified to EN12941 TH3, EN166 1F (45 m/s low impact)



FH21

Anti-Static Full Hood

Light-weight and comfortable anti-static full hood with integrated eye protection and shoulder cape. The FH21 has been designed with a unique Neoprene Face seal to deliver the highest level of PAPR protection without compromising user comfort. Improved vision is also a focus of the FH21 hood, using a large flexible PETG visor and a transparent chin panel the peripheral vision has been maximised for further increased user comfort.

PRODUCT HIGHLIGHTS:

- Innovative soft head cradle for intuitive and straightforward donning
- Ultra-clear PETG visor giving wide field of view and a clear down-view panel
- Anti-static full hood design with skin-friendly neoprene chin seal
- CE certified to EN12941 TH3, EN166 1F (45 m/s low impact)





FH22

Full Hood

The FH22 Hood is a one-size-fits-all, loose-fitting hood designed for the hazards of general industry, first responders, and pharmaceutical manufacturing. It is ideal for providing extended duration respiratory protection in non-IDLH environments.

PRODUCT HIGHLIGHTS:

- Quick-draw adjustable headband and harness assembly for easy donning
- Double cape design for compatibility with various coverall designs
- Limited use full hood design with optional disposable hose cover
- Can be used for single or multi-use when maintained in accordance with user instructions
- Discrete exhale valve to divert breath away from sensitive product / patients
- CE certified to EN12941 TH3, EN166 1F (45 m/s low impact)



FH3

Flip-up Visor

The FH3 flip up headtop features a wide field of vision, superior comfort and stability with innovative new easy to adjust push/turn ratchet mechanism. Suitable for a wide range of applications, the FH3 is available with a choice of coated visor options.

PRODUCT HIGHLIGHTS:

- Low-profile visor with new head cradle and ratchet designs
- Choice of visor materials with straightforward replacement (PC & AC)
- Flip-up framed visor browguard design with skin-friendly neoprene face seal
- CE certified to EN12941 TH2/3, EN166 1B (120 m/s medium impact)



FH31

Faceshield

The FH31 is a lightweight, user-friendly, multi-purpose face shield. The hollow polyethylene frame channels the airflow to the breathing zone. The replaceable and washable polyether foam seal makes it easy to keep clean. FH31 is ideal for spraying applications, however is suitable for a wide range of other environments.

PRODUCT HIGHLIGHTS:

- Lightweight polyethylene frame with anti-mist coated acetate visor
- Washable and replaceable polyether foam face seal
- Highly compatible with other forms of PPE (e.g. safety helmets, bump caps, hearing protection)
- Face shield design with broad elastic headband harness
- CE certified to EN12941 TH3, EN166 1F (120 m/s medium impact)



FH32 (COMING SOON)

Faceshield

FH32 is a lightweight, user-friendly, multi-purpose face shield. The hollow polyethylene frame channels the airflow to the breathing zone. The replaceable and washable polyether foam seal makes it easy to keep clean. FH32 incorporates a PVC-hood to the lightweight, comfortable, multi-purpose face shield described above. This provides a full head and neck covering as well as visor impact protection, and further increases the level of respiratory protection to TH3.

PRODUCT HIGHLIGHTS:

- Lightweight polyethylene frame with anti-mist coated acetate visor
- Washable and replaceable polyether foam face seal
- Face shield design with broad elastic headband harness
- CE certified to EN12941 TH3, EN166 1F (120 m/s medium impact)



FH4

Welding Shield

The new compact designed FH4 flip up welding shield features a new innovative headgear and ratchet ensuring excellent comfort, fit and stability. Available with a choice of ADF's the FH4 integrates a user friendly ADF cover lens replacement mechanism.

PRODUCT HIGHLIGHTS:

- Welding visor with new head harness and ratchet designs
- Spatter lens replaceable from front
- ADF options available
- CE certified to EN12941 TH2, EN166, EN175 Cape accessories available to protect against welding spatter
- Hose included with FH4 headtop
- Proflow Sc version (160l/min flowrate) available in readypak options



FH5

Helmet and Visor

Manufactured from a durable PU coated nylon material combined with the proven Tuffmaster II helmet, FH5 combines head, face and respiratory protection in one product. Ear defenders can also be fitted if required.

PRODUCT HIGHLIGHTS:

- ABS Safety Helmet with ratchet adjustment harness
- Choice of visor materials and optional ear defenders
- Helmet and flip-up visor combination design with wide elastic chin seal
- CE certified to EN12941 TH2, EN397 (Helmet), EN 352-3 (hearing) and EN166 1B9 (Eye & Face). (120 m/s medium impact)





FH51 Helmet and Hood

The FH51 full hood with helmet and integral visor has been developed to offer protection in higher risk environments including demolition, toxic and hazardous materials handling and environmental cleanup. Approved respiratory, helmet and face protection for use with Spirit, Tornado and Proflow powered air systems providing the highest level of PAPR protection

PRODUCT HIGHLIGHTS:

- Combined protection for the most demanding environments
- Available in Hypalon and Butyl-Viton hood materials
- Safety helmet and visor integrated into a chemical splash resistant full hood
- CE certified to EN12941 TH3, EN1835 LDH3, EN397 (Helmet) and EN166 1B9 (Eye & Face) (120 m/s medium impact)



FH6 Helmet and Visor

The FH6 is an ideal combination headtop for hazardous environments such as cutting, grinding, quarrying, demolition, foundry, construction, silica dust and ship building. FH6 incorporates complementary respiratory, head, face, eye and hearing protection systems.

PRODUCT HIGHLIGHTS:

- 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
- CE certified to EN12941 TH2 (PAPR), EN1835 LDH2 (airline), EN397 (Helmet), EN352-3 (Ear) and EN166 1B9 (Eye & Face) (120 m/s medium impact)



FH61 Helmet and Welding Visor

The FH61 is a purpose built combination headtop for one of the most demanding environments. The FH61 incorporates respiratory, head, face, eye and hearing protection to give the user a complete welding headtop solution.

PRODUCT HIGHLIGHTS:

- 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
- CE certified to EN12941 TH2 (PAPR), EN1835 LDH2 (airline), EN175 (Weld), EN397 (Helmet), EN352-3 (Ear) and EN166 1B9 (Eye & Face) (120 m/s medium impact)



FH7 (COMING SOON)

Full Hood

FH7, featuring a specialist polyurethane hood is designed to give excellent all round vision and respiratory protection. The FH7 is ideal for applications such as laboratory work, the nuclear industry and pest control. The design of FH7 makes it suitable for use by wearers who wear spectacles or those with beards.

PRODUCT HIGHLIGHTS:

- Unrivalled field of view and no fit issues with spectacles or beards
- Double cape design for compatibility with various coverall designs
- Full hood in PVC with Polyurethane capes
- CE certified to EN12941 TH3
- FH7 is supplied with hose included



FM1.1 /AVIVA

FM1.2 /AVIVA (COMING SOON)

Half Mask

FM1.1 / AVIVA is a half mask available in three sizes. The silicone free face seal provides exceptional comfort and fit. Applications include welding and spraying. The low profile design of the FM1.1 makes it readily compatible with visors, welding shields and other PPE.

PRODUCT HIGHLIGHTS:

- Integrates easily with other PPE
- Available in 2 variants, FM1.1 / AVIVA (front fitting hose) and FM1.2 / AVIVA (side fitting hose)
- Half mask also approved for unpowered use with Pro2000 filters <300g.
- CE certified to EN12942 TM2 & EN140



Compatibility Information will be available shortly

FM1

Half Mask

FM1 is a half mask available in two sizes. The liquid silicone rubber face seal provides exceptional comfort and fit. Applications include welding and spraying. The low profile design of the FM1 makes it readily compatible with visors, welding shields and other PPE.

PRODUCT HIGHLIGHTS:

- Integrates easily with other PPE
- Side entry hose improves comfort and balance
- CE certified to EN12942 TM2 & EN140





FM2/SARI Full Face Mask

FM2/Sari full face mask is based on the Sari mask which is renowned for its high standards of safety, reliability and comfort. The wide sealing edge of the FM2/Sari provides a high level of comfort and fit for extended periods of use.

PRODUCT HIGHLIGHTS:



- Faceseal material options
- Front - fitting hose connection
- Front-port facemask
- Large visor area and broad face seal
- Single size full facemask also approved for unpowered use with Pro2000 filters
- CE certified to EN12942 TM3 & EN136 Class 3



FM3/PROMASK Full Face Mask

The FM3/Promask is based on the design of the Scott Safety Promask, proven in a wide variety of industrial applications. FM3/Promask utilises a T-bar face seal design, which provides a highly efficient seal with minimal pressure on the face. FM3/Promask incorporates a wide panoramic visor to maximise the field of vision and a front mounted speech diaphragm for easy communication with colleagues. The clear inner mask increases wearer acceptability and presents a user-friendly appearance to others.

PRODUCT HIGHLIGHTS:



- 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
- CE certified to EN12942 TM3 & EN136 Class 3



FM4/VISION Full Face Mask

FM4/Vision is a full facemask providing the highest levels of respiratory protection. A novel hose connection brings the hose up over the wearer's shoulder, keeping the work area clear. The mask has an ultra comfortable silicone face seal and offers a virtually unrestricted field of vision.

PRODUCT HIGHLIGHTS:



- 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
- CE certified to EN12942 TM3 & EN136 Class 3

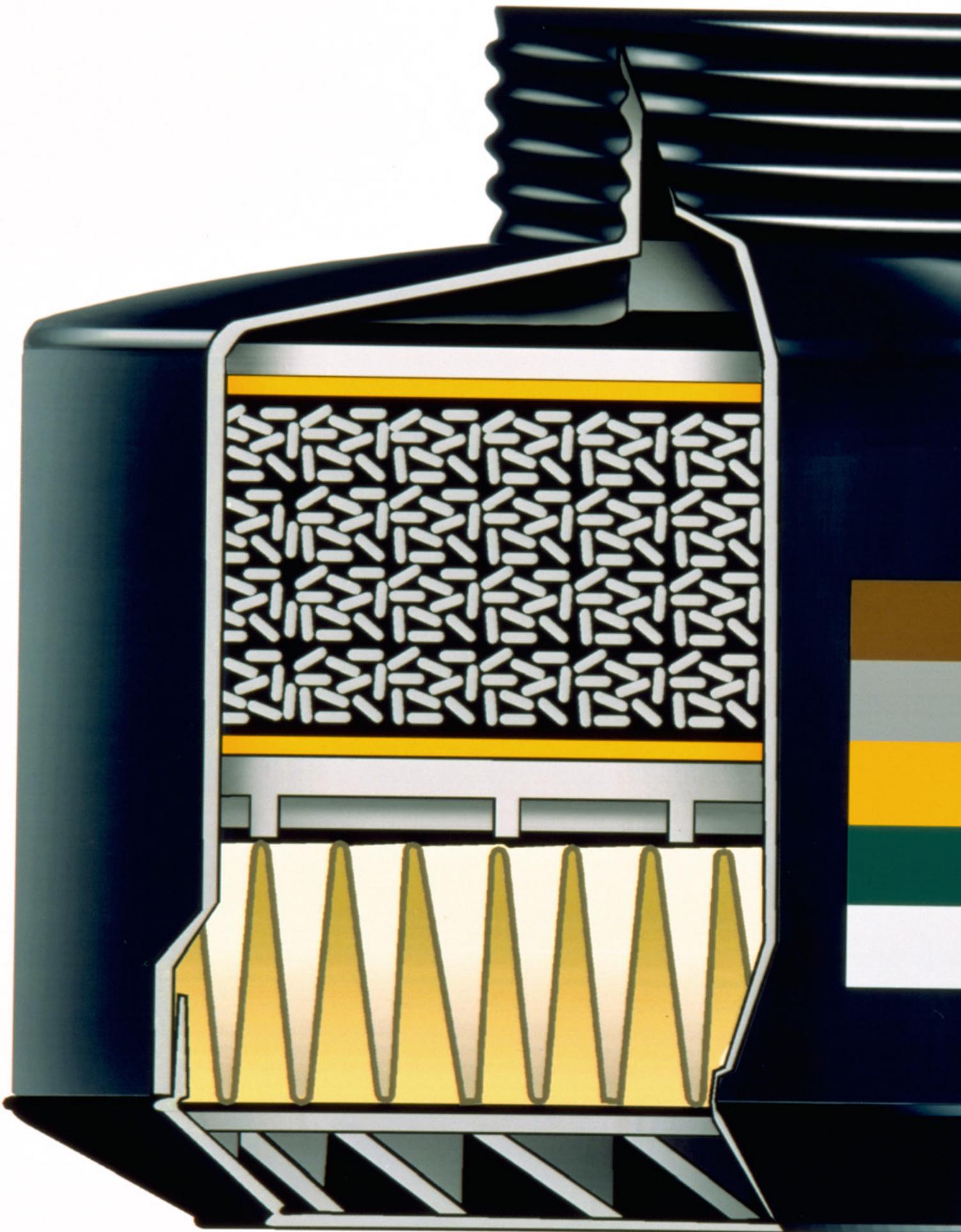
FILTERS & ACCESSORIES

Scott Safety has significant expertise in filtration technology, perhaps the most critical aspect of any respiratory system. A wide range of filters are available for use with Scott Safety Powered Air Respirators, capable of removing specific airborne contaminants (e.g particle, organic and inorganic gases etc). A filter selection tool, SureLife is available to aid in the selection of filters. Become a SureLife user today by visiting www.ScottSureLife.com. Scott Safety also offers a range of hoses and other accessories to ensure maximum comfort.

ACCESSORIES

www.scottsafety.com





FILTERS

Filters for use with Spirit & Spirit SX (pk 20)					
Colour Code	Filter	Type	Part No (20)	For Use Against:	
PARTICLE					
	SF-10	PSL	5045060	Solid and liquid toxic, radioactive particles and micro-organisms, e.g. bacteria and viruses.	
COMBINATION					
	SF-20	A2PSL	5045061	Gases and vapours from organic compounds and solid and liquid toxic particles.	
	SF-30	A2B2E2PSL	5045062	Organic, inorganic and acid gases and vapours and solid and liquid toxic particles.	
	SF-40	A1B2E2K1PSL	5045063	Organic, inorganic and acid gases and vapours, ammonia and solid and liquid toxic particles.	

Filters for use with Tornado (pk 18 or 20)					
Colour Code	Filter	Type	Part No (18 or 20)	For Use Against:	
PARTICLE (1 filter required)					
	PF251/2	PSL	5552870	Solid and liquid particulates (dusts, fibres, mists, fumes, bacteria and virus) (20)	
	PF251/SUPER	PSL	2009819	As above with approximately three times the capacity (6)	
GAS (2 or 3 of the same filters required - use TOR/ADAPT)					
	TF200	A2	5543164	Organic gases and vapours with a boiling point above 65°C (20)	
	TF203	K1	5543165	Ammonia and organic ammonia derivatives (20)	
	TF210	A1B1E1	5543166	As TF200 + inorganic and acid gases and vapours, eg. chlorine, hydrogen sulphide, hydrogen cyanide, sulphur dioxide and hydrogen chloride (20)	
COMBINATION (3 of the same filters required - use TOR/ADAPT)					
	TF220	A2PSL	5543167	As TF200 + solid and liquid particulates (dusts, fibres, mists, fumes, bacteria and virus) (18)	
	TF223	K1PSL	5543168	As TF203 + solid and liquid particulates (dusts, fibres, mists, fumes, bacteria and virus) (18)	
	TF230	A1B1E1PSL	5543169	As TF210 + solid and liquid particulates, (dusts, fibres, mists, fumes, bacteria and virus) (18)	
	TF233	A2B2E2K2 Hg-PSL*	5543177	As TF230 + ammonia and organic ammonia derivatives + mercury vapour + solid and liquid particulates (dusts, fibres, mists, fumes, bacteria and virus) (18)	
	TF234	A1B2E2K1 Hg-PSL*	2028388	As TF230 + ammonia and organic ammonia derivatives + mercury vapour + solid and liquid particulates (dusts, fibres, mists, fumes, bacteria and virus) (18)	

*Please note : Hg filters approved only with the highest PAPR rating (TH3/TM3)

Filters for use with Proflow and Duraflow (pk 20)

COLOUR CODE	FILTER DESCRIPTION	PROFLOW 2	PROFLOW 3	DURAFLOW				
Filter Label	Part Number (20)	For Use Against	120SC / 120EX	160SC	120EX	180SC	DURAFLOW	
	PF10 P R SL	5052670	Solid and liquid toxic, radioactive and detrimental particles as well as microorganisms, e.g. bacteria and viruses.	✓	✓	✓	✓	✓
	CF22 AP R SL	5042670	Organic gases and vapours, e.g. solvents with a boiling point above 65 °C, solid and liquid particles, radioactive and toxic particles and micro-organisms.	✓	✓	✓	✓	✓
	CF22 BP R SL	5042671	Inorganic gases and vapours, e.g. chlorine, hydrogen sulphide, hydrogen cyanide, fluorine, cyanogen chloride, phosgene and solid and liquid particles, radioactive and toxic particles and micro-organisms.	✓	✓	✓	✓	✓
	CF22 ABP R SL	5542674	Organic and inorganic gases and vapours, solid and liquid particles, radioactive and toxic particles and micro-organisms.	✓	✓	✓	✓	✓
	CF22 ABEP R SL	5042678	Organic, inorganic and acid gases and vapours, solid and liquid particles, radioactive and toxic particles and micro-organism	✓	✓	✓	✓	✓
	CF32 ABEKP R SL	5042799	Organic, inorganic and acid gases and vapours as well as ammonia and organic ammonia derivates, solid and liquid hazardous particles, e.g. radioactive and toxic substances and micro-organisms.	✓	✓	✓	✓	✓
	CF32 ABEKHgP R SL	5542798	Organic, inorganic and acid gases and vapours as well as ammonia and organic ammonia derivates, mercury and mercury compounds, solid and liquid particles, radioactive and toxic particles and micro-organisms	✓	✓	✓	✓	✓
	CF32 AX-P SL	5042770	Gases and vapours from organic compounds with a boiling point below 65 °C, solid and liquid particles, radioactive and toxic particles and micro-organisms.	X	X	✓	X	X

*Please note : Hg filters approved only with the highest PAPR rating (TH3/TM3)

HOSES

Every FH headtop can be fitted with a choice of hoses, a fixed length Polyurethane hose, an EPDM Rubber hose, or a new Self-Adjusting Polyurethane hose which stretches with the wearers' movements but remains low-profile and close to the body, reducing snag hazards and ensuring comfort even if working space is tight. FM masks have the option of the fixed length Polyurethane or EPDM Rubber hoses*. Headtops and masks are supplied without hoses, which should be ordered separately.



Fixed Length PU



Self Adjusting PU



EPDM

*SPIRIT hoses pictured.

Hoses for Spirit		
Material	Part No	For Use With
Self adjusting PU	2025908	FH1, FH2, FH21, FH22, FH3, FH31, FH5, FH51
Fixed length PU	2025910	FH1, FH2, FH21, FH22, FH3, FH31, FH5, FH51
EPDM Rubber	2024458	FH1, FH2, FH21, FH22, FH3, FH31, FH5, FH51
Self adjusting PU	2025909	FH6, FH61, FH62, FH63, FH65
Fixed length PU	2025911	FH6, FH61, FH62, FH63, FH65
EPDM Rubber	2024461	FH6, FH61, FH62, FH63, FH65
Fixed length PU	2025912	FM1, FM2/Sari, FM3/Promask, FM4/Vision
EPDM Rubber	2024463	FM1, FM2/Sari, FM3/Promask, FM4/Vision

Hoses for Modular System: Proflow, Duraflow and Tornado		
Material	Part No	For Use With
Self adjusting PU	2026235	FH1, FH2, FH21, FH22, FH3, FH31, FH51
Fixed length PU	2026226	FH1, FH2, FH21, FH22, FH3, FH31, FH51
EPDM Rubber	5564453	FH1, FH2, FH21, FH22, FH3, FH31, FH51
Self adjusting PU	2026236	FH6, FH61, FH62, FH63, FH65
Fixed length PU	2026229	FH6, FH61, FH62, FH63, FH65
EPDM Rubber	5064458	FH6, FH61, FH62, FH63, FH65
Fixed length PU	2026231	FM1, FM2/Sari, FM3/Promask, FM4/Vision
EPDM Rubber	5564454	FM1, FM2/Sari, FM3/Promask, FM4/Vision

Please note: FH4 & FH7 headtops are supplied with hose included. With all other headtops, hose must be ordered separately.

ACCESSORIES



COMFORT BELT

The addition of a comfort pad ensures comfort over long working periods



HARNES

When working for long periods a PPR harness may be preferred



PROTECTIVE COVERS

Protect your PPR with a protective cover



FLOW TESTER

To ensure the accuracy of the flow rate of your blower (flow tester pictured for use with Tornado, other version available for Proflow)



BATTERIES

Spare batteries are available for your PPR



TEAR OFF VISOR

Prolong the life of your headtop with our tear off visor kits



READY PAKS

With one of the Scott Safety Ready Paks, you can have everything you need in one convenient box



HOSE COVERS

Protect your PPR Hose with a protective cover



HOLDALL / BAG

Soft holdalls are ideal for easily transporting powered air respirators and work equipment



DECONTAMINATION PLUGS

Shower plugs are available for use in decon showers



LIGHTER SOCKET

Recharge your powered air respirator in your vehicle with the lighter socket



STORAGE BOXES

Protect your PPR with a plastic stackable storage box

COMPATIBILITY

The table below shows compatibility and protection ratings for each equipment combination. Read across the table to ensure the equipment combination delivers the correct level of protection. Scott Safety can assist in understanding your respiratory protection requirements through our customer support network & website .

Headtop	Blower Type									
	Article No		Spirit		Proflow 2		Proflow 3		Tornado	Duraflow
	W. Eur	Nordics	Spirit SX	Spirit	120SC / 120EX	160SC / 160EX	120SC / 120EX	180SC	T-Power	Duraflow
FH1 Half-Hood	2022948	2025473	TH3 CE575327	TH3 CE575327	TH2 CE575327	TH3 CE575327	TH2 CE575327	TH3 CE575327	TH3 CE575327	TH3 CE575327
FH2 Full-Hood	2022949	2025480	TH3 CE575328							
FH21 Anti-Static Full-Hood	2023098	2025486	TH3 CE575329							
FH22 Full-Hood	2024478	2025499	TH3 CE575330							
FH3 with PC visor (1mm)	2025833	2025835	TH3 CE575331	TH3 CE575331	TH2 CE575331	TH3 CE575331	TH2 CE575331	TH3 CE575331	TH2 CE575331	
FH3 with Anti-mist PC visor (1mm)	2025837	2025839	TH3 CE575331	TH3 CE575331	TH2 CE575331	TH3 CE575331	TH2 CE575331	TH3 CE575331	TH2 CE575331	
FH3 with Acetate visor (1mm)	2025841	2025843	TH3 CE575331	TH3 CE575331	TH2 CE575331	TH3 CE575331	TH2 CE575331	TH3 CE575331	TH2 CE575331	
FH31 Faceshield	2023084	2023086	TH3 CE575332	TH3 CE575332	N/A	TH3 CE575332	N/A	TH3 CE575332	N/A	TH3 CE575332
FH32 Faceshield*	2031388	2031399	TH3 CE640615	TH3 CE640615	N/A	TH3 CE640615	N/A	TH3 CE640615	N/A	
FH4 Welding Visor (Stretch Hose)	2026674	2026676	N/A	N/A	N/A	TH2 CE589858	N/A	N/A	TH2 CE589858	
FH5 with PC visor	2023114	2025601	TH2 CE575333	TH2 CE575333	N/A	TH2 CE575333	N/A	TH2 CE575333	N/A	
FH5 with AC visor	2025301	2025602	TH2 CE575333	TH2 CE575333	N/A	TH2 CE575333	N/A	TH2 CE575333	N/A	
FH51 PC Helmet & Hood	2023116	2025521	TH3 CE575334							
FH51 AC Helmet & Hood	2024481	2025522	TH3 CE575334							
FH52 PC Helmet & Hood	2025515	2025523	TH3 CE623228							
FH52 AC Helmet & Hood	2025516	2025524	TH3 CE623228							
FH53 PC Helmet & Hood	2025531	2025535	TH3 CE644400							
FH53 AC Helmet & Hood	2025532	2025536	TH3 CE644400							
FH6 Helmet with PC Visor	2023068	2023070	TH2 CE575335	TH2 CE575335	N/A	TH2 CE575335	N/A	TH2 CE575335	N/A	TH2 CE575335
FH61 Helmet with Welding Visor	2023097	2023100	TH2 CE575335	TH2 CE575335	N/A	TH2 CE575335	N/A	TH2 CE575335	N/A	TH2 CE575335
FH62 (Helmet & Gold visor)	2023118	2023121	TH2 CE575335	TH2 CE575335	N/A	TH2 CE575335	N/A	TH2 CE575335	N/A	TH2 CE575335
FH63 (Helmet & Shade 3 visor)	2023123	2023125	TH2 CE575335	TH2 CE575335	N/A	TH2 CE575335	N/A	TH2 CE575335	N/A	TH2 CE575335
FH65 (Helmet & Shade 5 visor)	2023128	2023130	TH2 CE575335	TH2 CE575335	N/A	TH2 CE575335	N/A	TH2 CE575335	N/A	TH2 CE575335
FH7 Full Hood*	2029357	2029784	N/A	N/A	N/A	TH3 CE575336	N/A	N/A	TH3 CE575336	
FM1.1 / AVIVA*	COMING SOON									
FM1 Half Mask	2023538	2025649	TM2 CE575337	TM2 CE575337	TM2 CE575337	TM2 CE575337	TM2 CE575337	N/A	TM2 CE575337	
FM2/Sari Full Face Mask	2023639	2023641	TM3 CE575338	TM3 CE575338	TM3 CE575338	TM3 CE575338	TM3 CE575338	N/A	N/A	
FM3/Promask Full Face Mask	2023647	2023657	TM3 CE575339	TM3 CE575339	TM3 CE575339	TM3 CE575339	TM3 CE575339	N/A	TM3 CE575339	COMING SOON
FM4/Vision Full Face Mask	2024413	2025686	TM3 CE575340	TM3 CE575340	TM3 CE575340	TM3 CE575340	TM3 CE575340	N/A	TM3 CE575340	COMING SOON

*: Coming Soon

INDUSTRIES

HEADTOP COMPATIBILITY MATRIX

Industry	Headtop																	
	FH1	FH2	FH21	FH22	FH3	FH31	FH32	FH33	FH4	FH5	FH51	FH6	FH61	FH7	FM1	FM2/ SARI	FM3/ PROMASK	FM4/ VISION
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			•		•					•	•			•		•	•	•
Electronic/PCB Manufacture	•	•	•		•	•	•	•			•			•	•	•	•	•
Paint Spraying			•	•	•	•	•	•							•	•	•	•



Scott PAPR systems provide the most versatile and practical powered air solutions, allowing users to adapt and control their protection with the precision required to suit the wide variety of workplace applications



Scott Safety is a global business unit of Tyco International that supplies a variety of industries through manufacturing facilities located in the United States, United Kingdom, Asia, Finland and Australia.
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