

# SPIRIT

POWERED AIR RESPIRATOR



# ADVANCED CONTROLABILITY COMPREHENSIVE PROTECTION

## ***SPIRIT***

Intelligent and adaptable powered air respiratory system from Scott Safety

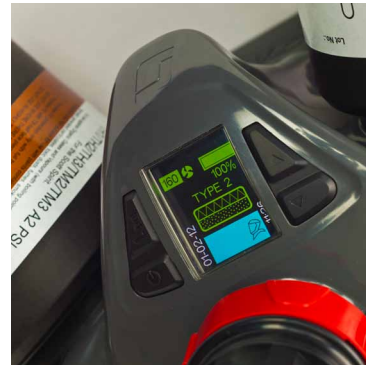


- Introducing the next generation of powered air respirators, the Spirit range offers an advanced level of electronic controllability and is fully programmable to meet the precise needs of both the user and their application.
- **CONTROLLABLE AND ADAPTABLE**
  - Two models, Spirit and Spirit SX, provide a choice for the owner to select the level of controllability and programmability required for their application.
  - Both models offer airflow adjustment with particle filters to allow for site specific settings and providing comfort for the user no matter the environmental hazard.
  - Many other preference settings, inspection intervals, and operating acknowledgements can be adapted, providing customised alarms for improved user safety.
- **APPLICATION SPECIFIC**
  - Scott provides the widest choice of both general and specialised powered air headtops and facemasks, allowing you to select the most appropriate for the user and the most suitable for the application.
  - The Spirit system operates with a choice of particle (P) and several combination (AP, ABEP and ABEKP) filters.
- **LOW THROUGH-LIFE COSTS**
  - The motor is guaranteed for 3 years or 1800 hours run time (excluding battery), keeping PAPR maintenance costs to a minimum.
  - Airflow is optimised and set at a constant level to ensure maximum service life from combination filters while providing comfort to the user.
  - Drop in replacement modules allow for fast and simple replacement of parts to minimise down time & costs associated with replacing parts that get damaged.



# CONTROLLABLE PROTECTION COMFORTABLE PERFORMANCE

The Spirit 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

- Large colour display with simple icons to show flow rate / filter type / battery status / alarm conditions
- Flow maintained electronically for different headtops and filter clogging
- Adjustable flow with Particulate filters between 170 l/min and 220 l/min, steps set at 170, 180, 200 and 220 l/min
- Locking filters to prevent accidental discontinuation
- Audio and visible battery and flow alarms in high ambient noise levels
- Diagnostic check at start up to ensure unit is performing properly
- On-board data logging of hours run and flow rates, downloadable by Service Centre /Scott
- Available with a range of hose types

## SPIRIT SX - IN ADDITION TO SPIRIT FEATURES

- TFT colour display displaying flow rate / filter type / battery status % / time and date / user ID and alarm conditions
- Automatic recognition and display of filter and head top types
- Programmable inspection / service intervals and optional product blocking with digital indication
- Alarm if filter is not fitted and prevent start up or dislodged in use (Combi filters)
- Non-operation until two same type filters correctly fitted
- Additional vibrate alarm
- On-board data logging of hours run, flow rates and alarm events, downloadable by User via mini USB
- User ID features which includes programmable user name, clock number and ability to select ID colour
- Real-time date and time display

SPIRIT	
Technical Data	
Approvals:	EN12941 & 12942 (TH1/TH2/TH3/TM3). CE 0121.
Air flow:	Min 170 l/min, automatic 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. Automatic trickle charge.
Power pack status indication:	Visual display of battery status (A), filter blockage (P). Warning buzzer of low battery status; running time ca.15 minutes left.
Weight of unit without filters:	1,4 kg
Sound level:	< 70 dB
Temperature range:	-10 °C ... + 50 °C
Humidity:	< 95%
Recharging temperature:	Recommended recharging temperature ca + 20 °C
Ingress Resistance:	IP55

# HEADTOPS AND FACEMASKS

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

## FH1

- Revolutionary 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 TH3, EN166 1F and AS/NZS1716-P2.



## FH2

- Revolutionary 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 and AS/NZS1716-P2.



## FH21

- Revolutionary 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 and AS/NZS1716-P2.



## FH22

- Quick-draw adjustable headband and harness assembly for easy donning
- Double cape design for compatibility with various coverall designs
- Disposable full hood design with optional disposable hose cover
- CE certified to EN12941 TH3, EN166 1F and AS/NZS1716-P2.



## FH3 - COMING SOON

- New low-profile visor with new head cradle and ratchet designs
- Choice of visor materials with straightforward replacement
- Flip-up framed visor browguard design with skin-friendly neoprene face seal
- CE certified to EN12941 TH3, EN166 and AS/NZS1716-P2.



## FH31

- 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 TH2, EN166 1F and AS/NZS1716-P1.



## HEADTOPS & FACEMASKS





# HEADTOPS AND FACEMASKS

## FH4 - COMING SOON

- New welding visor with new head cradle and ratchet designs
- Spatter lens replaceable from front
- Standard size 110x90 adjustable (9-13) automatic welding lens available separately
- CE certified to EN12941 TH2, EN166, EN175



## FH5

- 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, AS/NZS1716-P2 (PAPR), EN1835 LDH3 (airline), EN397 (Head), EN 352-3 (hearing) and EN166 1B9 (Eye & Face).



## FH51

- Combined protection for the most demanding environments
- Choice of Hypalon, Hypalon Anti-Static 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 (Head) and EN166 1B9 (Eye & Face). Also approved to AS/NZS1716-P2.



## FH6

- 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 TH3 (PAPR), EN1835 LDH2 (airline), EN397 (Head), EN352-3 (Ear) and EN166 1B9 (Eye & Face).



## FH61

- 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 TH3 (PAPR), EN1835 LDH2 (airline), EN175 (Weld), EN397 (Head), EN352-3 (Ear) and EN166 1B9 (Eye & Face).



## FH7 - COMING SOON

- 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.

## HEADTOPS & FACEMASKS



# FACEMASKS

## FM1

- Integrates easily with other PPE
- Side entry hose improves comfort and balance
- Half mask also approved for unpowered use with Pro2000 filters <300g.
- CE certified to EN12942 TM2 and AS/NZS1716-P3.



## FM2

- Natural rubber 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 and AS/NZS1716-P3.



## FM3

- 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 and AS/NZS1716-P3.



## FM4

- 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 and AS/NZS1716-P3.




## FACEMASKS










# 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.

HOSES FOR USE WITH SPIRIT AND SPIRIT SX PAPR SYSTEMS			
	Material	Part No	For Use With
	Self adjusting PU	2025908	FH1, FH2, FH21, FH22, FH3, FH31, FH4, FH5, FH51, FH7
	Fixed length PU	2025910	FH1, FH2, FH21, FH22, FH3, FH31, FH4, FH5, FH51, FH7
COMING SOON	EPDM Rubber	2024458	FH1, FH2, FH21, FH22, FH3, FH31, FH4, FH5, FH51, FH7
	Self adjusting PU	2025909	FH6, FH61, FH62, FH63, FH65
	Fixed length PU	2025911	FH6, FH61, FH62, FH63, FH65
COMING SOON	EPDM Rubber	2024461	FH6, FH61, FH62, FH63, FH65
	Fixed length PU	2025912	FM1, FM2, FM3, FM4
COMING SOON	EPDM Rubber	2024463	FM1, FM2, FM3, FM4

## FILTERS

The Scott PAPR system provides a range of filters to enable use in a wide variety of applications.

Filters for use with the Spirit and Spirit SX PAPR systems (pk 20)					
	Colour Code	Filter	Type	Part No.(20)	For use against:
		SF-10	PSL	5256161	Solid and liquid toxic, radioactive particles and micro-organisms, e.g. bacteria and viruses.
		SF-20	A2PSL	5256163	Gases and vapours from organic compounds and solid and liquid toxic particles.
		SF-30	A2B2E2PSL	5256165	Organic, inorganic and acid gases and vapours and solid and liquid toxic particles.
		SF-40	A1B2E2K1PSL	5256167	Organic, inorganic and acid gases and vapours, ammonia and solid and liquid toxic particles.



Spirit PAPP 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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