

Proflow





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Proflow







		English – Spare parts	suomi - Varaosat
1	063593	Blower PF 120	Puhallin PF 120
	064089	- PF SC 120	- PF SC 120
	064056	- PF SC 160	- PF SC 160
	063793	- PF 180	- PF 180
1a		Display	Näyttö
1b		Blower thread	Puhaltimen kierreosa
2	063595	O-ring	O-rengas
3	063790	Battery PF NiMH 9,6V/Standard	Akku PF NiMH 9,6V/Standard
3c	064043	Battery 9,6V/Power	Akku 9,6V/Power tehoakku
		(→ PF2 SC Asb 160)	$(\rightarrow PF2 SC Asb 160)$
3a		Battery leads	Akkujohdot
3b		Connector	Liitin
4	063594	Body tensioner PF	Kiristyspanta PF
4a		Thread ring	Kierrerengas
5	064543	Body tensioner PF2SC asb160	Kiristyspanta PF2SC asb160
		(→ PF2 SC Asb 160)	$(\rightarrow PF2 SC Asb 160)$
5a		Screw	Ruuvi
5b		Nut	Mutteri
5c		Screw sleeve	Ruuvinsuojus
5d	064545	Adaptori PF2SC asb160	Adapteri PF2SC asb160
6	064049	Blower body PF2 SC	Puhallinrunko PF2 SC
	064542	- PF2SC asb160	- PF2SC asb160
	063592	- PF3	- PF3
7	063791	Recharger PF (AN 4605)	Latauslaite PF (AN 4605)
7a		Recharging plug	Latauspistoke
7b		Locking	Lukitsin
8	063598	Breathing hose PF80	Hengitysletku PF80
	064098	- PF100	- PF100
	063799	- PF80 angle	- PF80 kulma
	064039	- PF100 angle	- PF100 kulma
9	063597	Support belt UniverIsal	Tukivyö Universal
9a	062996	Belt and buckle AF PVC	Vyö ja solki AF PVC
		(→ PF2 SC Asb 160)	$(\rightarrow PF2 SC Asb 160)$
	062786	Belt and buckle textile	Vyö ja solki AF tekstiili
10		Switch	Käyttökytkin
11		Charging connector and lid	Latausliitin ja suojatulppa

Accessories



Replacing the battery



7





Do not leave a gap.



9a (→PF2SC asb160)

10







12



11a



13

		_		_
Blower unit		& Facepiece		& Filter
Proflow2 SC 120	Sari Promask Gemini Vision	AM Litehood	Flowhood 2 Flowhood 2 AS Flowhood 2 SU Flowhood 25 Flowhood 25 AS Flowhood 25 CS	PF 10P R CF 22AP R CF 22BP R CF 22ABP R CF 22ABEP R CF 32ABEKP R CF 32ABEKHgP R
	HM-AF	Automask Procap Procap Weld Provizor WS-PF FS-PF Albatross 300 Albatross 2300 Albatross 4300 Albatross X730	Flowhood 1 Flowhood 3 Flowhood 5	PF 10P R CF 22AP R CF 22BP R CF 22ABP R CF 22ABP R CF 22ABEP R CF 32ABEKP R
Proflow2 SC Asb160	Vision			PF 10P R
	Sari Promask Gemini			PF 10P R CF 22AP R CF 32ABEKP R
	Trellchem S	plash 2000P		CF 32ABEKP R
Proflow3 120	Sari Promask	AM Litehood	Flowhood 2 Flowhood 2 AS Flowhood 2 SU Flowhood 25 Flowhood 25 AS	PF 10P R CF 22AP R CF 22BP R CF 22ABP R CF 22ABEP R CF 22ABEP R CF 32ABEKP R CF 32ABEKHgP R
	HM-AF	Automask Procap Procap Weld Provizor	Flowhood 1 Flowhood 3 Flowhood 5	PF 10P R CF 22AP R CF 22BP R CF 22ABP R CF 22ABEP R CF 32ABEKP R
Proflow3 180		Automask AM Litehood Provizor *)	Flowhood 2 Flowhood 2 AS Flowhood 2 SU Flowhood 25 Flowhood 25 AS	PF 10P R CF 22AP R CF 22BP R CF 22ABP R CF 22ABEP R CF 32ABEKP R CF 32ABEKHgP R
		Procap Procap Weld	Flowhood 1 Flowhood 3 Flowhood 5	PF 10P R CF 22AP R CF 22BP R CF 22ABP R CF 22ABEP R CF 32ABEKP R

(EN 12941 / EN 12942) Protection classes

Proflow2 SC 120, Proflow3 120

Pro2000	- Sari - Promask - Gemini *) - Vision *)	- HM-AF	- AM Litehood - Flowhood 2,2AS,2SU - Flowhood 25, 25 AS - Flowhood 25 CS *)	- Automask - Provizor - Procap - Procap Weld - Flowhood 1 - Flowhood 3 - Flowhood 5 - WS-PF *)	- Albatross *) 300, 2300, 4300, X7300
PF 10 P R	TM3PSI	TM2PSI	TH3PSI	- FS-PF ^) TH2PSI	TH1PSI
CF22 A P R	TM3A2 PSL	TM2A2 PSL	TH3A2 PSL	TH2A2PSL	TH1A2PSL
CF22 B P R	TM3B2 PSL	TM2B2 PSL	TH3B2 PSL	TH2B2PSL	TH1B2PSL
CF22 AB P R	TM3A1B2 PSL	TM2A1B2 PSL	TH3A1B2 PSL	TH2A1B2PSL	TH1A1B2PSL
CF22 ABE P R	TM3A1B2E1 PSL	TM2A1B2E1 PSL	TH3A1B2E1 PSL	TH2A1B2E1PSL	TH1A1B2E1PSL
CF32ABEKP R	TM3A1B2E2K2PSL	TM2A1B2E2K2PSL	TH3A1B2E2K2PSL	TH2A1B2E2K2PSL	TH1A1B2E2K2PSL
CF32ABEKHgPR	TM3A2B2E2K2HgPSL		TH3A2B2E2K2HgPSL		

*)	
Gemini	
Vision	
Flowhood 25 CS	Not with Proflow3
WS-PF	
FS-PF	
Albatross 300, 2300, 4300, X7300	

Proflow2 SC 160, Proflow2 SC Asb160

Pro2000	- Sari - Promask - Gemini	- Vision
PF 10 P R	TM3PSL	TM3PSL
CF22 A P R	TM3A1 PSL	
CF32ABEKP R	TM3A1B2E2K2PSL	

Proflow3 180

Pro2000	- HM-AF	- Automask - Provizor **) - AM Litehood	- Procap - Procap Weld - Flowhood 1	
		- Flowhood 2,2AS,2SU - Flowhood 25, 25 AS	- Flowhood 3 - Flowhood 5	
PF 10 P R	 	TH3PSL	TH2PSL	TH1PSL
CF22 A P R	 	TH3A2 PSL	TH2A2PSL	TH1A2PSL
CF22 B P R	 	TH3B2 PSL	TH2B2PSL	TH1B2PSL
CF22 AB P R	 	TH3A1B2 PSL	TH2A1B2PSL	TH1A1B2PSL
CF22 ABE P R	 	TH3A1B2E1 PSL	TH2A1B2E1PSL	TH1A1B2E1PSL
CF32ABEKP R	 	TH3A1B2E2K2PSL	TH2A1B2E2K2PSL	TH1A1B2E2K2PSL
CF32 ABEKHgPR	 	TH3A2B2E2K2HgPSL		

) only with the Provizor-model **not incorporating spark guard

Date of
manufactureFor the manufacturing year of the blower, see the tags on the outside and inside of the
blower (two first digits). For the manufacturing year and week of the battery, see the tag on
the battery.





Recommended storage conditions (temperature and humidity).



Symbols

WEEE (Directive 2002/96/EC) 13.08.2005

Electrical and electronic products must not be disposed of via municipal waste stream, they should be delivered to collection facilities. Information on collection facilities is given by the local authorities or importer's representative. Correct disposal will contribute to recycling of materials and prevent negative consequenc-es for the environment.







WARRANTY

The products manufactured at our factories in Skelmersdale and Vaasa carry a warranty of 12 months (unless stated otherwise) for parts, labour and return to site. The warranty period runs from the date of purchase by the end user. (Proflow2 SC 120 = 36 months or 1800 hours.)

These products are warranted to be free from defects in materials and workmanship at the time of delivery. Scott will be under no liability for any defect arising from wilful damage, negligence, abnormal working conditions, failure to follow the original manufacturers instructions, misuse or unauthorised alteration or repair.

Evidence of purchase date will need to be provided for any claims arising during the warranty period. All warranty claims must be directed through Scott Customer Services and in accordance with our sales return procedure.

Blower unit Proflow

064024	Proflow2 SC 120	Australia:
064580	Proflow SC Asbestos 160, hose 80cm angle	064354 Proflow2 SC 120 AU/NZ
	(power battery+PVC belt)	064582 Proflow3 180 AU/NZ
064590	Proflow SC Asbestos 160, hose 100cm	
	(power battery+PVC belt)	
063582	Proflow3 180	

1. General

- Proflow is a respirator system designed to supply filtered air for use in dangerous environments.
- The device consists of a waist-mounted battery-driven blower and two or three filters.
- Air is drawn through the filters by an electronically-controlled fan and led through the breathing hose into the facepiece.
- Model SC: The operation data can be read at a service center by a computer programme.
- Model Proflow2 SC Asbestos 160: Wearers are able to decontaminate and shower after work, whilst still wearing the respirator

2. Limitations of Use

- **2.1** The filtering device must not be used if the environment and contamination is unknown. In case of doubt, isolating respirators (air supply) which function independently of the atmosphere must be used.
- **2.2** The filtering device must not be used in confined spaces (e.g. cisterns, tanks) because of the risk of oxygen deficiency or presence of heavy oxygen-displacing gases (e.g. carbon dioxide).
- **2.3** The filtering device may be used only if the oxygen content of the air is 18–23 vol.%.
- **2.4** Gas filters do not protect against particles. Similarly, particle filters do not provide protection against gases or vapours. In case of doubt, use combined filters.
- **2.5** Normal filtering devices do not protect against certain gases such as CO (carbon monoxide), CO_2 (carbon dioxide) and N_2 (nitrogen).
- **2.6** Particle filters are only allowed for single use if they are applied against radioactive agents or micro-organisms (virus, bacteria, fungi and spores).
- **2.7** It is likely that adequate protection cannot be guaranteed if the user's beard, hair, spectacle frames or clothing intrude into the face seal.
- **2.8** When a breathing protector is used in explosive atmospheres, please follow the instructions given for such areas.
- **2.9** The blower must be running while using the respirator. If the blower turns off by accident, the device ceases to function as a respirator, and carbon dioxide levels may instantly rise. This is considered an exceptional situation.
- **2.10** At a very intense working pace, the pressure in the facepiece can change into negative pressure at peak inhalation.
- **2.11** Protection levels may be reduced if wind speed exceeds 2 m/s.
- 2.12 Recommended operation conditions: -10 °C...+30 °C, relative humidity (RH) under 75 %.
- **2.13** Filters must not be fitted directly to the the face shield or breathing hose.
- **2.14** The device has been tested under the following conditions: temperature +19...+28 °C, relative humidity 20–70 %.

ENGLISH

3. Technical information

- The complete blower unit consists of a blower body, a blower, a breathing hose, a belt, a battery, and a recharger.
- Two or three thread filters must be attached to the blower device. The connection thread of the filters and the breathing hose of the blower device conforms to the standard EN 148-1.
 - With the Proflow2, always use 2 filters of the same type and class.
 - With the Proflow3, always use 3 filters of the same type and class.
- Display and alarm buzzer.
- Rechargeable NiMH battery 9,6V/standard or power. Battery can be recharged 400-500 times.
- Accessory: Instead of the battery, one can use a power supply (230 VAC), or a lighter socket cable (12 VDC) for vehicles. In case the optional power supplies are used, the battery (snap coupling) must be detached.

	Automatic regulation of the air flow rate	Operating time on fully charged battery	Weight of the blower device without filters
Proflow2 SC 120	minimum 120 l/min	minimum 4 hours	1,590 kg
Proflow2 SC Asb 160	minimum 160 l/min	minimum 4 hours	1,650 kg
Proflow3 120	minimum 120 l/min	minimum 4 hours	1,810 kg
Proflow3 180	minimum 180 l/min	minimum 4 hours	1,810 kg

Selection of blower-assisted breathing protector equipped with filter

(In Australia and New Zealand, see the next page for the limitations of AS/NZS 1716:2003.)

Type of protective device	Multiples o concent		les of threshold acentration **)		Remarks, limitations
	AF	PF (Assigned	protection fa	actor)	
	BS	6 4275 (GB)	BGR 190 - 2	ZH1/701 (DE)	
Power-assisted half mask	•				•
with particle filter	TM2P	20	100		
Power-assisted full face					
mask with particle filter	TM3P	40	500		
Power-assisted face shield or	welding			"Open" facep	pieces, such as helmets or hoods, do not
shield with particle filter				provide sufficient	cient protection in case of breakdown or
	TH1P	10	5	inferior output	ut of the blower. Therefore, devices of
	TH2P	20	20	class TH1 m	ust never be used against carcinogenic,
	TH3P	40	100	very poisonous or radioactive gases and vapours.	
Device with combined filter The		The specifi	ied multiples	of threshold va	alue for the gas or particle filters are
		given sepa	rately, but in	all cases the l	lowest value applies.
Power-assisted half mask with	gas filter *)				
TM2 gas filter class 1, 2 or 3		20	100		
Power-assisted full face mask	with gas				
filter *)					
TM3 gas filter class 1, 2 or 3		40	500		
Power-assisted face shield or welding				For devices	with combined filter apply the relevant
shield with gas filter *)				limitations of	gas and particle filters.
TH1 gas filter class 1 or 2		10	5		
TH2 gas filter class 1 or 2		20	20		
TH3 gas filter class 1 or 2		40	100		

*) Provided that the maximum permissible detrimental gas concentration for the gas filter is not exceeded. For powerassisted filtering devices with gas filter, concentration must not exceed 0.05 vol.% in gas filter class 1 and 0.1 vol.% in gas filter class 2 and 0.5 vol.% in gas filter class 3.

**) If national guidelines exist: in all cases the lowest value applies.

AUSTRALIA AND NEW ZEALAND

Maintenance

For complete national requirements, please refer to the standard AS/NZS1715:2009, Use & Maintenance of Respiratory Products.

AS/NZS 1716:2003 Selection considerations – Powered air purifying respirator (PAPR) *)

PAPR fitted with	PAPR Filter type	Minimum protection factor
Half facepiece	PAPR – P2 Particulates	Up to 10 for mechanically generated particles
-	PAPR – Gas filter Class 1 or 2	Up to 10 to a maximum concentration of 1000 ppm
Full facepiece	PAPR – P3 Particulates	100+
	PAPR – Gas filter Class 2	Up to 100 to a maximum concentration of 5000 ppm
Half hood style	PAPR – P3 Particulates	Up to 50
	PAPR – Gas filter Class 1 or 2	Up to 10 to a maximum concentration of 5000 ppm
Full hood & blouse	PAPR – P3 Particulates	100+
	PAPR – Gas filter Class	Up to a maximum concentration of 1000 ppm

*) Contact the Scott Health&Safety Customer service for more detailed information on filter selection, appropriate maximum use concentration levels or AS/NZS 1715:1994 Selection, use and maintenance of respiratory protective devices or to relevant local authorities for further guidance.

Scott Health & Safety 137 McCredie Road Guildford NSW 2161

Ph: (02) 8718 2200 Fax: (02 8718 2211

4. Battery

General

- Charge the battery before use. The recharging time of an empty battery is about 7 hours. The temperature of the battery to be recharged must be +10 °C...+ 30 °C.
- Recharging should always take place at a room temperature of about +20 °C, in a dry place shielded from dust and direct sunlight.
- Always use the Proflow's own recharging device (it is delivered with the blower unit). The recharger performs a battery test at start of each charging to detect defective batteries.
- Battery Power \rightarrow Proflow2 SC Asb 160

Note!

- A new battery or
- a battery stored for a longer period or an over-discharged battery may not function stably, which will terminate the recharging prematurely. Monitor the red signal light (=charging in operation) e.g. after 30 or 60 minutes and initiate the recharging several times if needed.
- In too cold/warm an environment the battery will not be charged.
- Never recharge in a potentially explosive environment!
- Discarded batteries are hazardous waste. Make sure that they are disposed of according to waste treatment regulations.
- When not in use, prevent over-discharge of battery by keeping the blower device always on recharge. Overcharging of battery is automatically prevented.

Lataaminen

Recharging

- Connect the recharging device to the main power supply (100-240 V/ 50 Hz). When not connected to the blower device, the signal light will not start burning.
- Open the protective lid of the blower's charging connector.
- Push the recharging plug into the charging connector and **turn** the plug slightly clockwise until it sits fast, otherwise the battery will not be charged. The charging will start automatically.







- Throughout the recharging, the recharger's **red** signal light remains on. The time needed depends on the battery status.
- Recharging is complete when the red signal light goes out, and the **green** signal light starts burning and stays on (standby level).
- The recharging plug will come off when you pull the locking and simultaneously turn the plug counter-clockwise. Then close the protective lid.

Signal lights on the recharging device		
Red light on:	= Charging in operation.	
Green light on:	= Battery fully charged (standby charge).	
Red light blinking:	= Wrong or defective battery.	

5. Display and buzzer

The blower device contains a display which indicates the battery status and the fan motor power.



Symbol A (green) = battery status

- The display shows A9 when the battery is fully charged, and A0 when the battery is empty.
- For low battery the device gives a warning sound and A0 will start blinking on the display, after which the air flow will deminish under the minimum flow rate. After the warning the blower device will operate another 5–10 minutes.

Symbol P (green) = power in the blower

- The power needed depends on the filters and facepiece to be used.
- When the display shows P9, the blower device will easily reach the minimum flow rate. When the display shows P1, the blower device reaches the minimum flow rate only with full motor power. This makes the battery run down rapidly.
- If the blower device no longer reaches the minimum flow rate, the buzzer will sound and P0 will flash on the display. This can be caused by clogged filters or for instance a throttled breathing hose. Check the filters and free air flow to the facepiece.

6. Use

- See Instructions for Use of the facepiece and filter to be used.
- Always use 2 or 3 filters of the same type and class.

Check before use

- intactness of facepiece and blower device
- filters are intact and properly fastened to the blower device. Shake the filter to ensure that there are no loose components/contents. The filter shall be replaced if it has been exposed to strong press or impact. It may be damaged.
- breathing hose is tightly fixed to the blower device and facepiece
- adequate air flow and state of the battery as follows:
 - Assemble all items ready for use (facepiece connected) but do not don the unit.
 - Start the blower by switching to position | so the buzzer will sound.
 - The air flow and battery status are sufficient when the figures shown are between A9...A7 and P9...P3.

Don the blower device. Carry the device so that you can check the blower's display when working. Donning instructions for the facepieces are given in the respective Instructions for Use.

After use

- Stop the blower device by switching to position 0.
- The blower device must always be turned off from the switch, also if the device has stopped due to low battery.
- Doff the unit. Carry out the necessary maintenance for the blower device (point 8) and recharge the battery (point 5).

Decontamination (under shower) Proflow SC Asbestos 160

- No need to detach any components.
- Stop the blower device.
- Filters face down. Do not spray water into the filters (=air channel).
- Filters must be replaced after shower-cleaning.



7. Maintenance and storage

- The blower device shall be serviced at least once a year by a Service Center authorized by Scott (<u>http://www.scotthealthsafety.com</u>).
- Australia and New Zealand: For complete national requirements, please refer to the standard AS/NZS1715:2009, Use & Maintenance of Respiratory Products
- **Store** protected from direct sunlight, at -10...+30 °C and relative humidity (RH) under 75 % (sealed filters RH max. 95 %).
- **Clean** with a damp cloth or sponge. When necessary, a ready-for-use device (breathing hose connected) can be cleaned under shower, with the filters facing down. Do not spray water into the filters. Filters must be replaced after shower-cleaning.
- **Do not** use solvents (e.g. acetone, turpentine). Never clean with compressed air or compressed water.
- **Replace** worn-out filters. Always replace all filters at the same time.
- **Check** that the breathing hose is undamaged and replace a broken one. Replace other parts when necessary.
- Only use original spare parts.
- Maintenance of the facepieces is described in the respective Instructions for Use.
- Replacing the battery, see picture series.

8. Disposal

- See WEEE.
- A very contaminated blower device as well as used filters are special refuse and shall be disposed of according to the filtered substances (gases or particles).
- Discarded batteries are hazardous waste. Make sure that they are disposed of according to waste treatment regulations.

Note!

- Clogged filters increase motor load and shorten the motor life.
- The battery's capacity is reduced over time. Deterioration is accelerated by storage in a warm place.

Replacing the battery

- 1 Detach breathing hose.
- 2 Detach body tensioner.
- 3 Remove blower from its body by turning it towards yourself with your fingertips (using your thumb to grip the blower).
- 4-6 Carefully take hold of the battery leads and pull the battery out of the blower body. Open the big snap coupling and change the battery. (The rubber band included with the battery will secure the coupling in the proper position.) Attach the coupling. Press the battery in to its base.
- 7 Insert the blower's thread into the body opening and, using your fingers, guide the leads toward the battery space (the leads must not be left at the air channel in the middle of the blower body).
- 8-9 When the blower's thread is slightly visible in the body opening, press the blower into place with the palm of your hand. <u>Center</u> the blower's thread in the body opening.
- 10-12 Position the body tensioner. Screw the detached thread ring tightly on the blower's thread to make the body tensioner fit correctly and to make it easy to screw the heads to each other. Leave a space of 3–5 mm between the heads. Make sure that the blower's thread is properly <u>centered</u> in the body tensioner's opening. Remove the thread ring.

9-12 Model Asb 160 (064580, 064590):

- 9a Center = screw the adapter (064545 asb) on the blower's thread.
- 11a Position the body tensioner (064543 asb) and screw the heads to each other. Leave a space of 3–5 mm between the heads.
- 13 Charge the battery.

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Ostaja – Köpare – Buyer – Käufer – Acheteur – Kupec – Αγοραστής– Купувач – Покупатель

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Адрес	
Puh./Tel./Tnλ.:	\downarrow
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