

3M Science.
Applied to Life.™

3M™ Versaflo™ Powered Air Turbo TR-603E-ASB



P&SA Asbestos Project Strategy

- Market approach
- Range and product overview
- Key industries and applications

Powered and Supplied Air Product Range Pre-2015

Modular Respirator Systems



Individual Respirator Systems



Powered and Supplied Air Product Range – 2015/2017

Modular Respirator Systems

3M™ Versaflo™ Headcovers and Hoods S-Series Integrated Suspension Reusable Suspension S-133 S/L S-433 S/L S-655 S-333G S/L S-533 S/L S-857 S-757 S-855E	3M™ Versaflo™ Headtops M-Series Faceshields Helmets Helmets with Shrouds M-106 M-306 M-406 M-107 M-307 M-407	Welding Shields, High Temperature Helmet and Welding Helmets Welding Shields HT-622 HT-629 HT-639	Individual Respirator Systems NEW! Belt-Mounted Powered Air Respirator System for Asbestos Environments 3M™ Versaflo™ Powered Air System TR-603E-ASB with 7900PF Full Face Mask and BT-50 Breathing Tube Face-Mounted Powered Air Respirator 3M™ Powerflow™ Powered Air System 7900PF Supplied Air Respirator Helmet-Mounted Powered Air Respirator 3M™ S-200+ Supplied Air System 3M™ Airstream™ Helmet AS-300	
Breathing Tubes BT-20 S/L: Lightweight (in two lengths) BT-30: Self-adjusting BT-40: Heavy-duty rubber BT-20 S/L BT-30* BT-40 <small>* BT-30 not approved for use with M-400 Headtop/TR-600 Powered Air Turbo combinations. BT-20S/L or BT-40 Breathing Tube should be used.</small>				Breathing Tube Accessories BT-922: Disposable Cover BT-926: Flame-resistant Cover
Powered Air Turbos Particulate only (nuisance level organic vapour and acid gas options available) Particulate + Gas & Vapour Particulate + Gas & Vapour Intrinsically Safe Particulate + Gas & Vapour 3M™ Versaflo™ Powered Air Turbo TR-300 NEW! 3M™ Versaflo™ Powered Air Turbo TR-600 3M™ Jupiter™ Powered Air Turbo 3M™ Jupiter™ Powered Air Turbo with IS Kit			Supplied Air Regulators Air Cooling Air Heating Flow Controlled 3M™ Versaflo™ Supplied Air Unit V-100E 3M™ Versaflo™ Supplied Air Unit V-200E 3M™ Versaflo™ Supplied Air Regulator V-500E	
Filter • Spark Arrestor • Prefilter • P Filter • P/Nuisance Level Organic Filter • P/Nuisance Level Acid Gas (HF up to 10 x Threshold Limit Value) Battery • Standard battery • High capacity battery Charger • Single Station Battery Charger • 4-Station Battery Charger Kit	Filter • Spark Arrestor • Prefilter • P Filter • P/Nuisance Level Organic Vapour/Acid Gas • AIP Filter • A2P Filter • ABE1P Filter • ABE2K1HgP Filter Battery • Standard Battery • High Capacity Battery Charger • Single Station Bat. Charger • 4-Station Bat. Charger Kit	Filter • Prefilter Pads • Particulate P Filters • A2P Filters • A2BEK1P Filters • ABE1P Filters Battery • 4 hour Battery • 8 hour Battery • 4 hour IS Battery Charger • Single Station Battery Charger • 10-station Multi Battery Charger	Belt unit coupling Air Supply Tube Air supply tube coupling set 3M™ Aircare™ Filtration Units (Wall Mounted or Freestanding)	Welding Headtops <small>* For welding applications please refer to the Speedglas pages of this catalogue pages 138-150.</small>

TR-603E-ASB Overview



Turbo Pack Outs

Powered Air Turbo TR-603E-ASB

3M™ Versaflo™ Powered Air Turbo TR-603E-ASB
(inc. Air Flow Indicator TR-972 and Spark Arrestor TR-660 x 2)



Starter Kit TR-615E-ASB

3M™ Versaflo™ P Starter Kit TR-615E-ASB

Particulate Starter Kit includes:

- TR-603E-ASB Turbo
- **P filter**
- **Filter cover**
- Spark arrestor
- Easy clean belt
- High capacity battery
- Single station battery charger kit (EU)
- BT-50 tight fitting breathing tube
- Breathing Tube retainer
- Airflow indicator
- 7900PF Full face mask
- Cleaning & storage kit
- BT Cover BT-922

Starter Kit TR-618E-ASB

3M™ Versaflo™ A1P Starter Kit TR-615E-ASB

Particulate Starter Kit includes:

- TR-603E-ASB Turbo
- **A1P filter**
- **Filter cover**
- Spark arrestor
- Easy clean belt
- High capacity battery
- Single station battery charger kit (EU)
- BT-50 tight fitting breathing tube
- Breathing Tube retainer
- Airflow indicator
- 7900PF Full face mask
- Cleaning & storage kit
- BT Cover BT-922



Filter Options

Filters	Filter Covers
TR-6710E P	TR-6700FC
TR-6110E A1P	TR-6100FC



TR-6710E P



TR-6110E A1P



Note:
Order Filter Covers
separately

NB: Turbo can be used with out filters covers. Only required if using prefilter or spark arrestor or showering with the product on.

High Capacity Battery & Chargers

One type of battery and 2 charger options:

Battery

TR-632 High Capacity Battery



+ TR-632 High Capacity Battery

Chargers

TR-641E Single Station Battery Charger Kit

TR-644E 4-Station Battery Charger Kit



+ Featuring easy to read LED indicator



+ TR-641E Single Station Charger



+ TR-644E 4-Station Charger



Easy clean Belt

Belt

TR-627 Easy-Clean Belt

+ Easy clean belt – submersible belt with smooth surfaces allows easy, thorough cleaning



+ Lugs insert through belt
+ Lock secures in position



+ TR-627 Easy-Clean Belt



Easy Clean Fastening

Turbo accessories

Accessories	
TR-6600 Pre-filter	TR-653 Cleaning & storage kit
TR-662 Spark Arrestor	TR-972 Air Flow Indicator
BT-922 Disposable Breathing Tube Cover	



+ TR-6600 Pre-filter



+ TR-653 Cleaning & storage kit



+ TR-662 Spark Arrestor

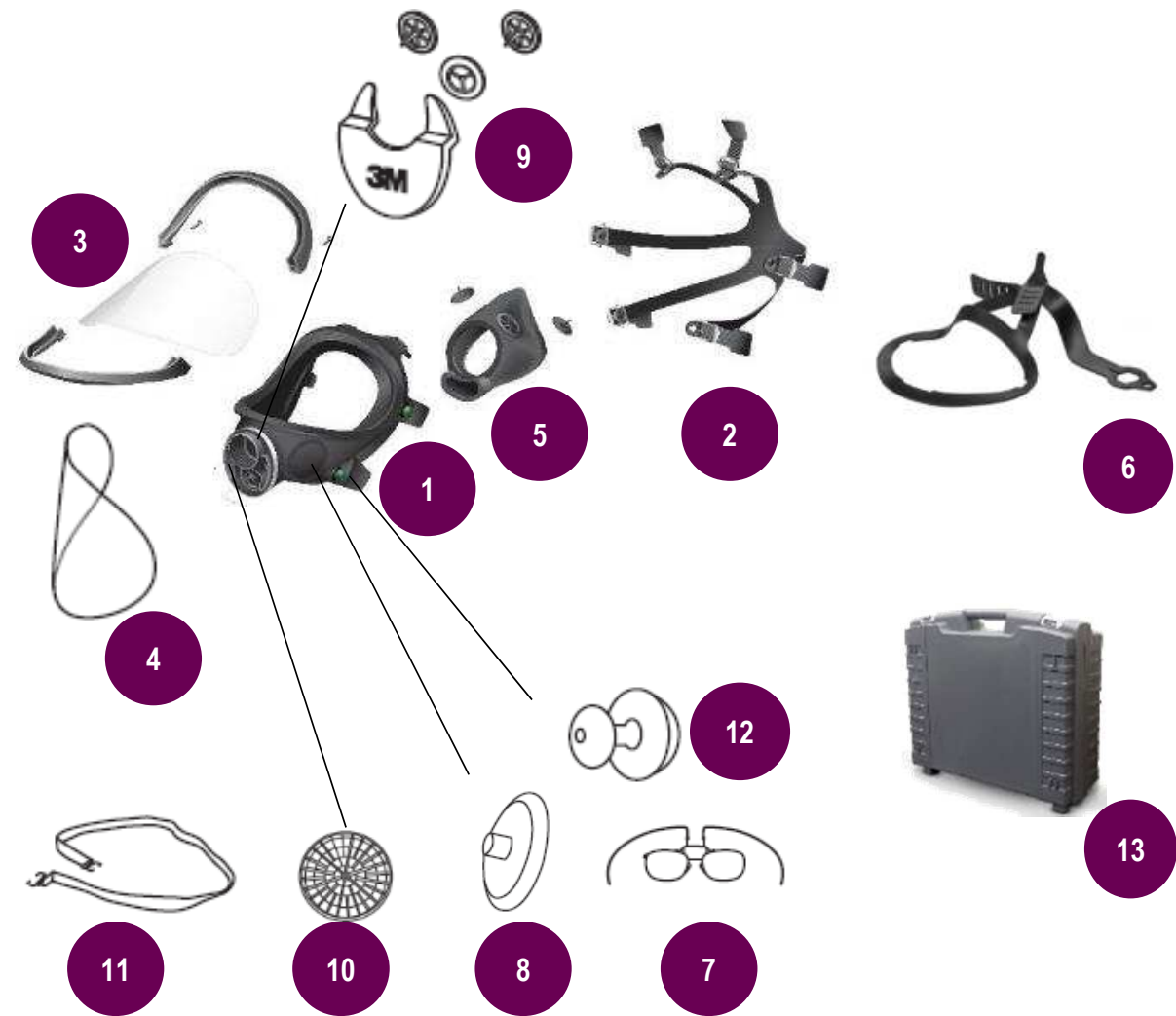


+ BT-922 Disposable Breathing Tube Cover



+ TR-972 Air Flow Indicator

7900PF Full Face Mask



	Spares & Accessories
1	7900PF Full Face Mask
2	7893 Six-strap Harness
3	7927 Lens
4	7992 Lens covers
5	7991 Nose cup assembly
6	RTN-01 Breathing tube retainer
7	7925 Spectacle kit
8	7283 Exhalation valve
9	VLV-06 Breathing Room assembly service kit
10	7895 Speaking Diaphragm kit
11	7883 Neck strap assembly
12	7989 Green head harness buttons
13	STC-01 Storage Case



Industries & Applications

Typical Industries & Applications include:

- Abatement / construction / building and civil engineering
- Maintenance activities carried out in all industries (transportation industry, hospitals, hot transformation industries (metalworking and steel industries/ glass industries): sheet-metal workers, boilermakers, welders, pipefitters, dockers etc.)





Product Summary

TR-603E-ASB Powered Air Turbo - Overview

Approved system:

- TR-603E-ASB Powered Air Turbo (incl. Airflow Indicator)
- P or A1P Filter (plus covers)
- High Capacity Battery
- Single or 4-station Charger
- Easy Clean Belt
- BT-50 Tight Fitting Breathing Tube
- 7900PF Full Face Mask

Optional Accessories:

- Breathing Tube Retainer
- BT cover
- Pre-filter
- Spark Arrestor
- Cleaning & Storage Kit
- Plastic Carry/Storage case



Features & Benefits – Full Face Mask

Benefits

- Confidence in protection
- High durability
- Comfortable
- Improved worker productivity
- Improved communication
- Reliable fit



Features & Benefits

Easy cleaning and decontamination

- Smooth shape
- Suitable for shower decontamination (IP54) & temporary submersion (IP67)
- Easy clean belt – submersible belt with smooth surfaces allows easy, thorough cleaning

Comfortable Airflow

- Delivers constant 180lpm steady airflow as battery discharges or filter loads with particulates

Ease of Use

- Display shows battery charge status and particulate filter loading status during use
- Charge status is also indicated by a useful LED display on the battery
- No user calibration of turbo required
- Electronic audible, visual and vibratory alarm
- Intelligent fast-charging single station battery charger

System Protection, Traceability & Security

- Approved to EN 12942 Class TM3
- Unique serial numbers applied on the turbo, face mask and battery
- Maintenance certificate delivered with each starter kit



Standards and Classifications

- System approved to EN 12942 (Respiratory protective devices – Power assisted filtering devices, full face masks etc)
- TM3 Classification

	NPF
Power On	2000
Power Off	1000

Note: Filters are also used with TR-602E and are therefore **also** marked EN 12941 (systems incorporating hoods and helmets). However, the TR-603E-ASB is **not** currently approved to this Standard.

- Suitable for use in French Asbestos market
- Full Face Mask approved to EN136:1998 (Class 2) – for use with 3M Filters (with EN148-1 connector)
- Also limited clauses to EN166:2001. Meets optical class 2 and performance requirements for protection against high speed particles, medium energy impact

Advanced User Interface

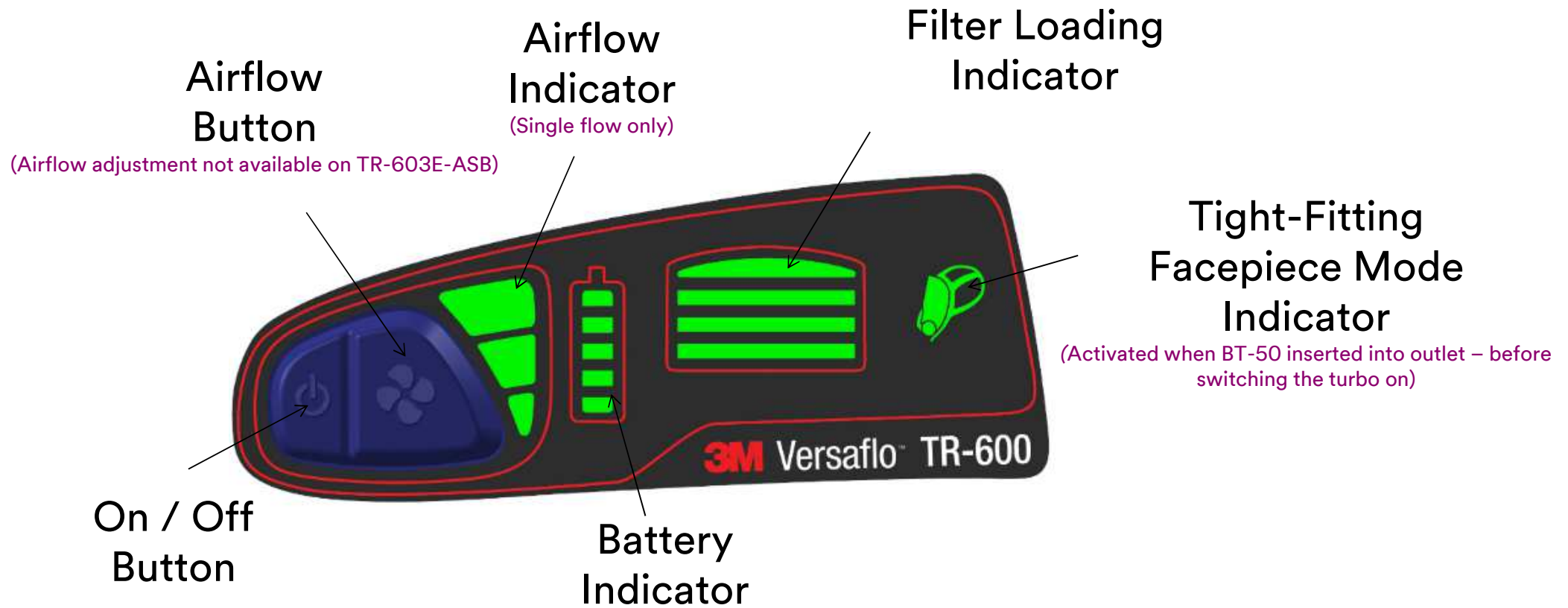


Starting-up the Powered Air Turbo (Startup sequence NIOSH_3M 360.mp4)

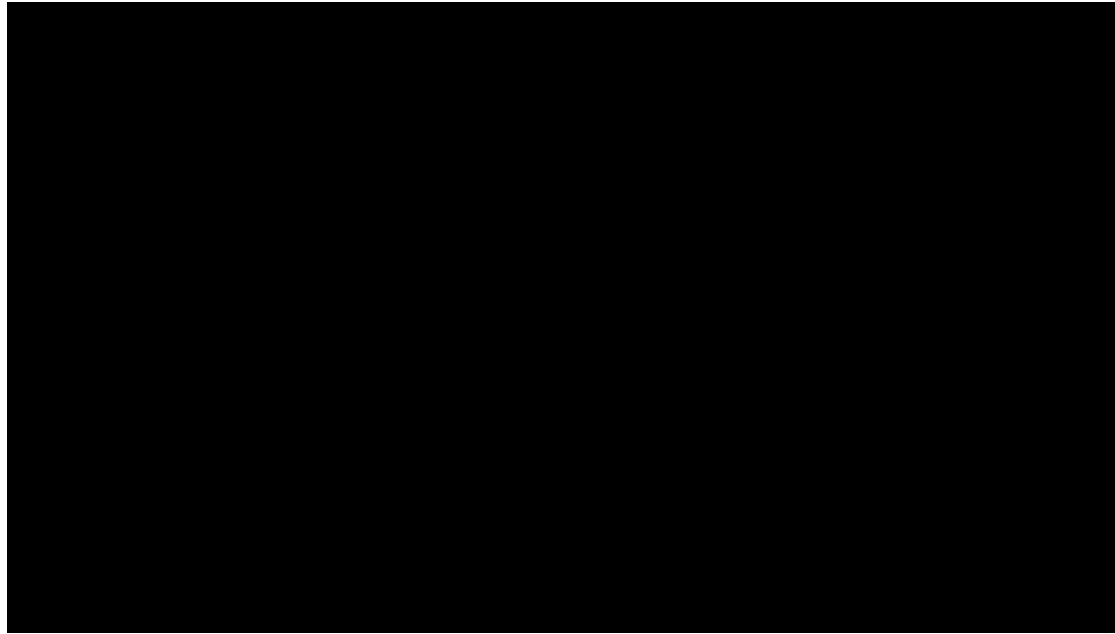


- BT-50 should be inserted into the outlet before switching Powered Air Turbo on to ensure it enters tight-fitting mode (indicator will be lit)
- All 3 airflow LEDs will be lit when Turbo is running
- All 3 airflow LEDs will flash when Turbo is in 'sleep mode'

Advanced User Interface

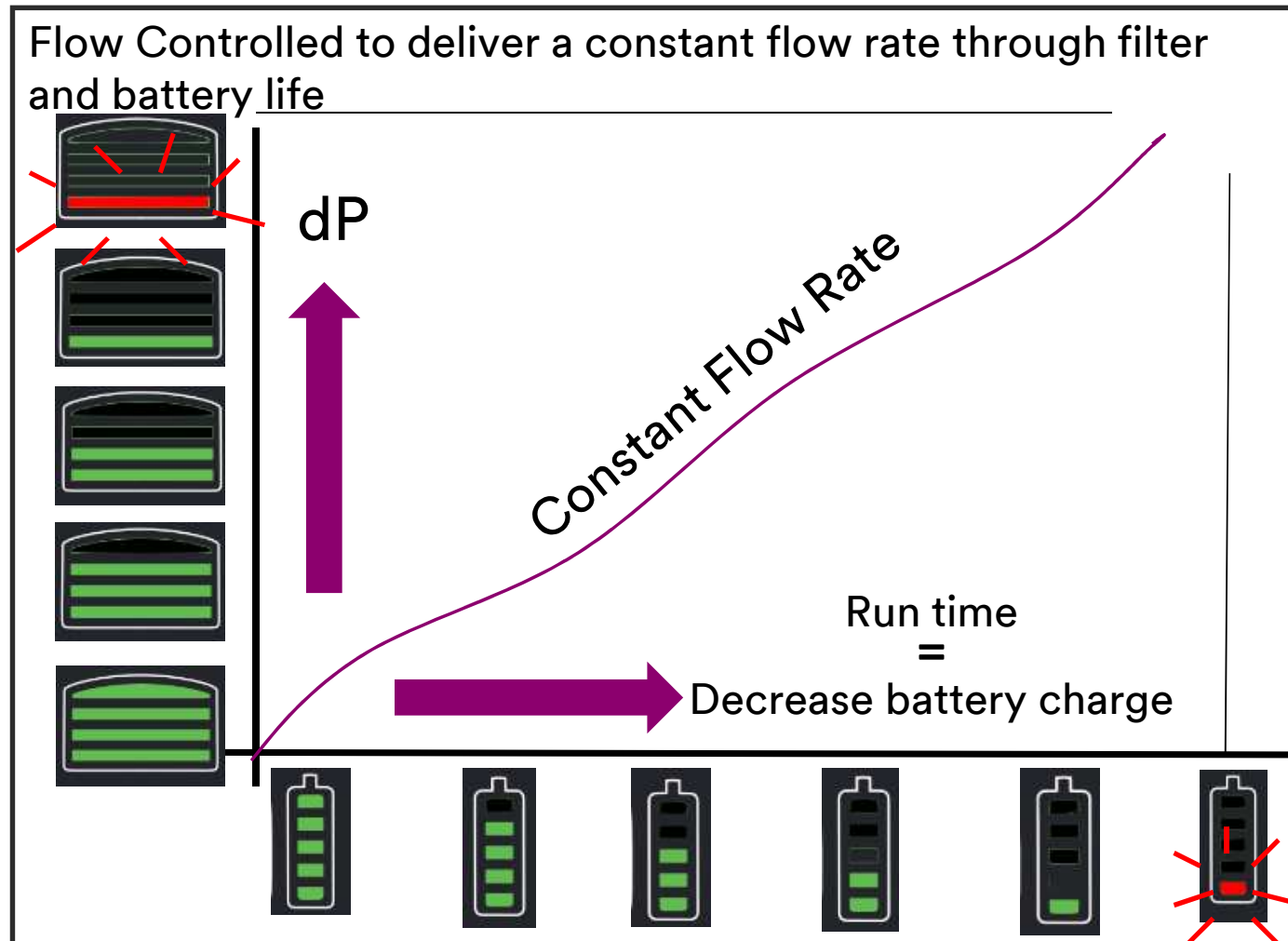


Starting-up Powered Air Turbo (TR-600 – Start Up.mp4)

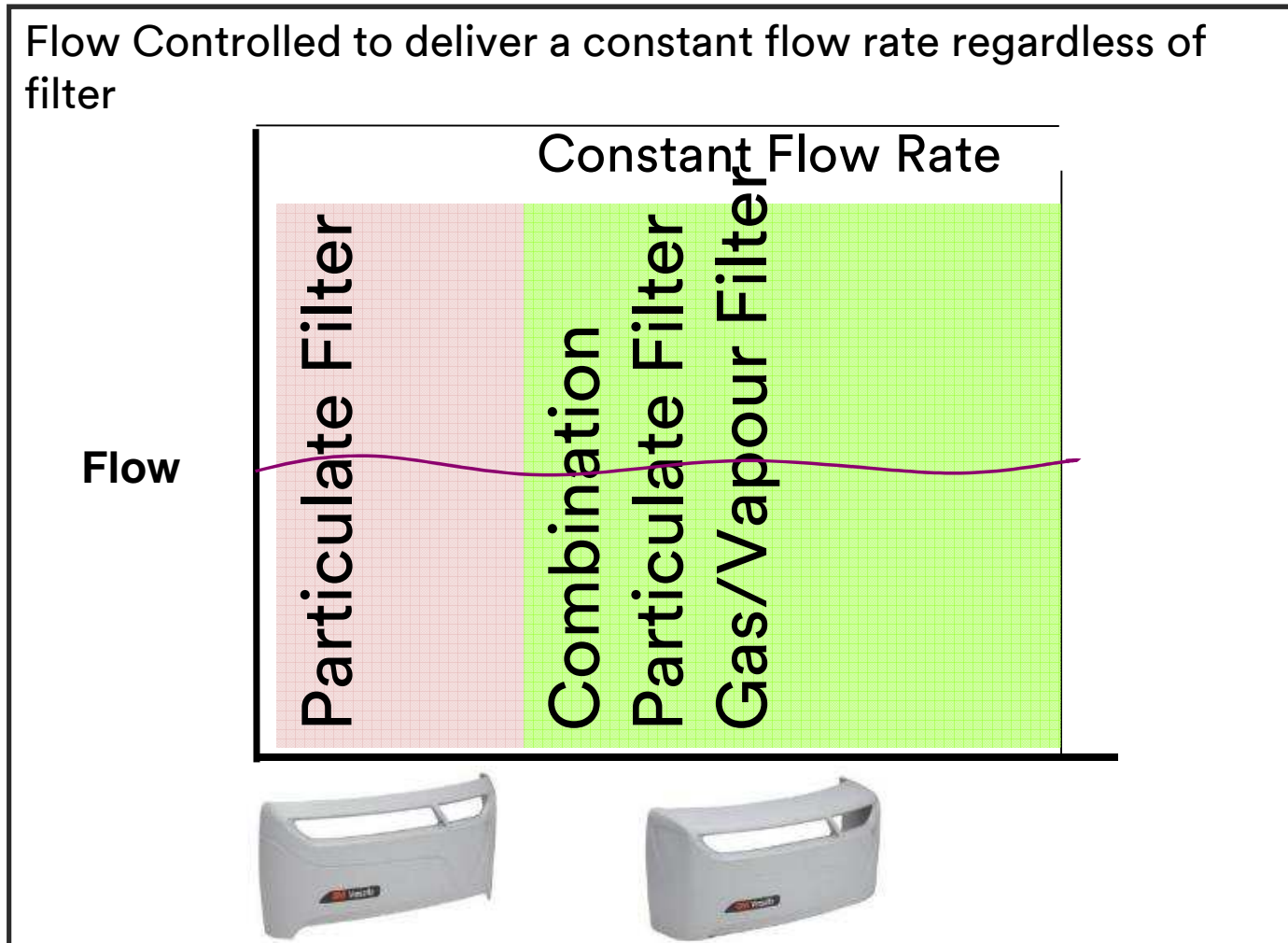


- BT-50 should be inserted into the outlet before switching Powered Air Turbo on to ensure it enters tight-fitting mode (indicator will be lit)
- All 3 airflow LEDs will be lit when Turbo is running

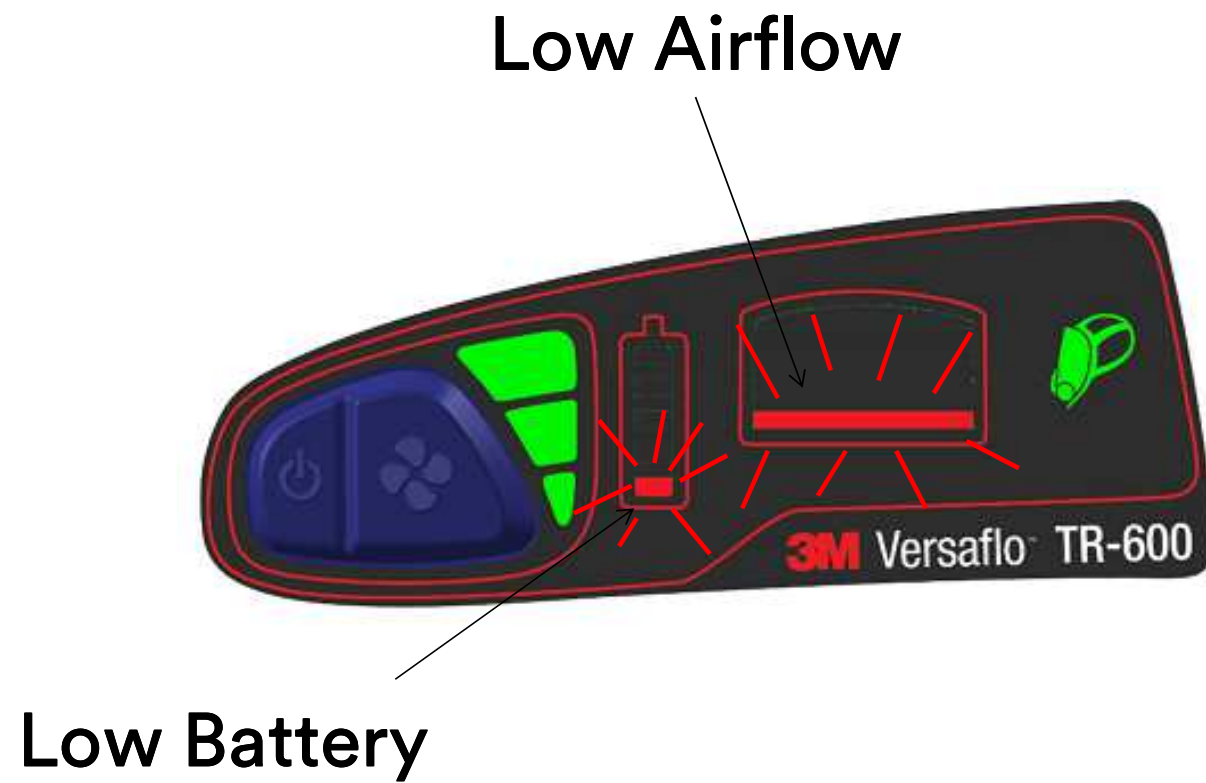
Flow controlled



Flow controlled

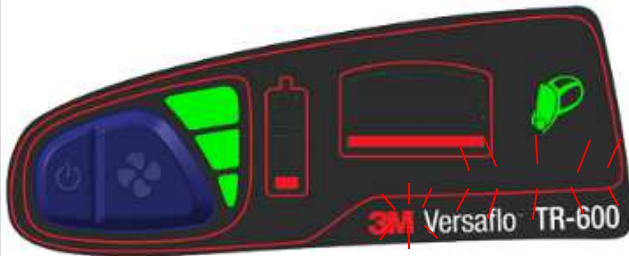


Alarms



Alarms

Visual



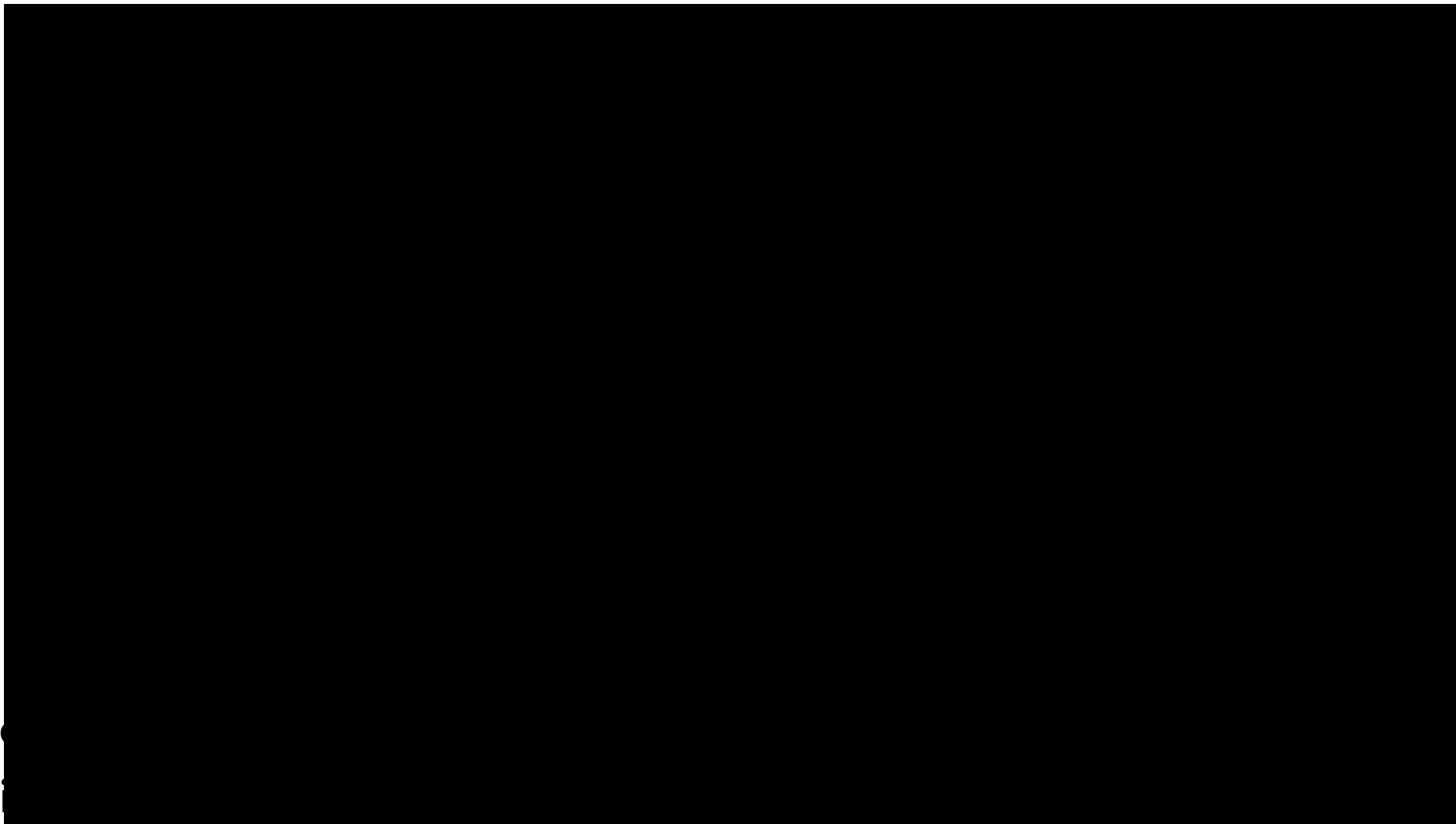
Audible



Vibratory











Checking Low Airflow Alarm (TR-600 – Low Flow Alarms (2).mp4)



- All 3 airfl
- Tight-fitt

Filters

Protection	Part Number	Product Label					
P	TR-6710E		Versaflo™ TR-6710E	EN 12941 EN 12942	P R SL <small>Made in Canada</small>	 	 
A1P	TR-6110E		Versaflo™ TR-6110E	EN 12941 EN 12942	A1P R SL <small>Made in Canada</small>	 	 

Filter Markings - Example shown is the A1P TR-6110E

EN 12941 = powered air with loose fitting headtops e.g. S-Series
EN 12942 = same but with tight-fitting facepieces

Note: Filters are common to TR-602E Turbo and therefore are marked to EN 12941. However, TR-603E-ASB is not currently approved with loose-fitting headtops

Refer to User Instructions

Shelf-life information



A = organic vapours (bp > 65°C)
P = Particulate

R = Reusable
SL = For use against solid aerosols, water-based aerosols and non-water based aerosols

Note: Number denotes protection capacity where applicable

Colour coding according to protection claimed:
A = brown
P = white

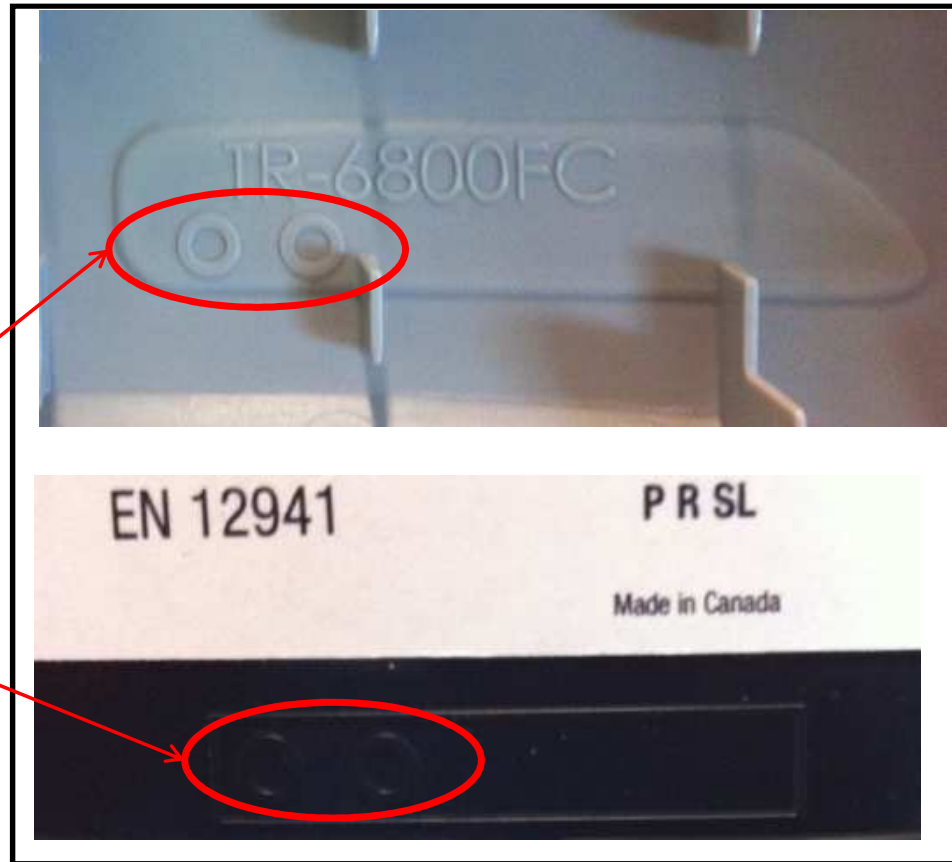
Filter Covers

Filter	Filter Cover
TR-6710E P	TR-6700FC
TR-6110E A1P	TR-6100FC



Matching Filter Covers and Filters

Note the matching symbols



Installing Filter (Filter change NIOSH_3M 360.mp4)



Prefilter / Spark Arrestor

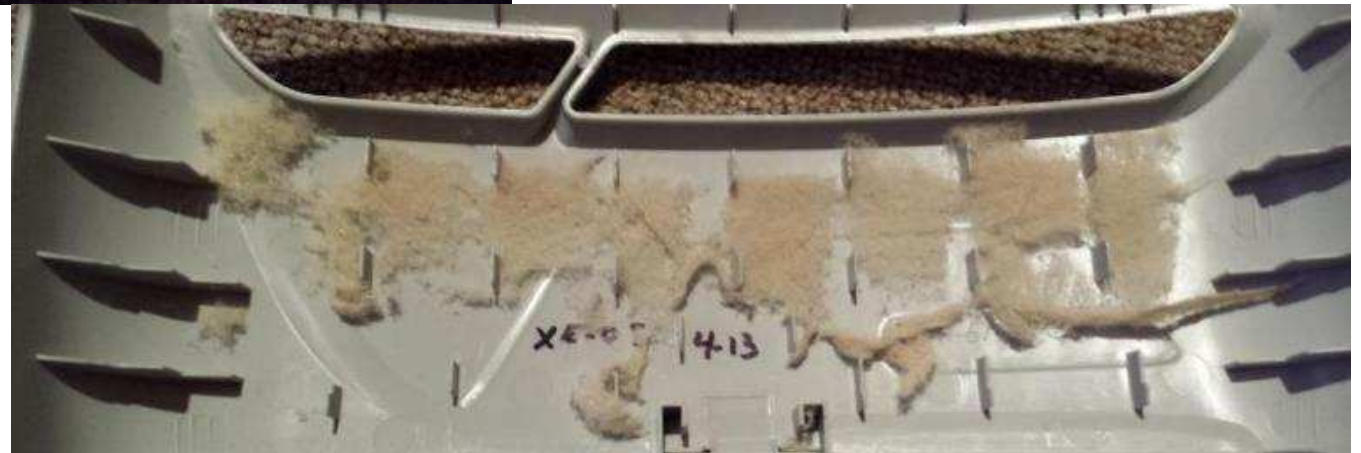


TR-6600 Prefilter (foam)

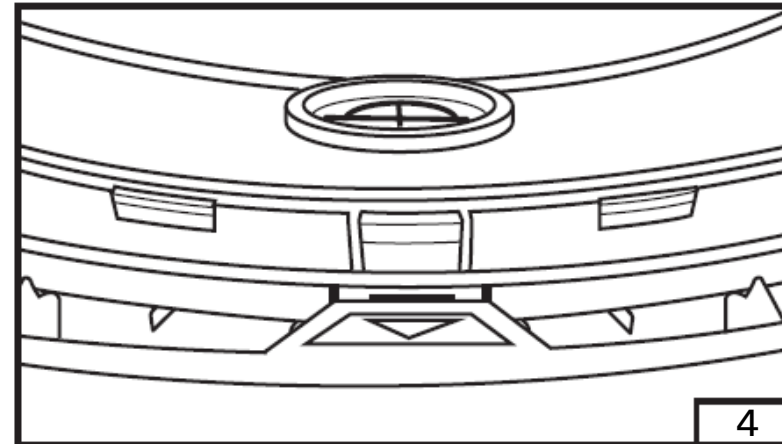
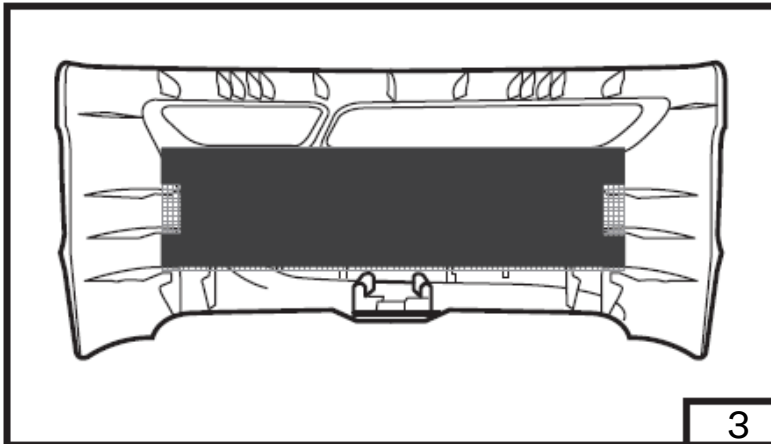
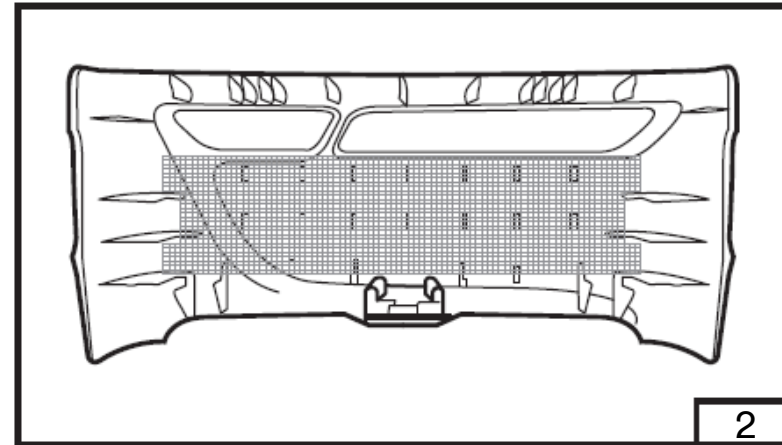
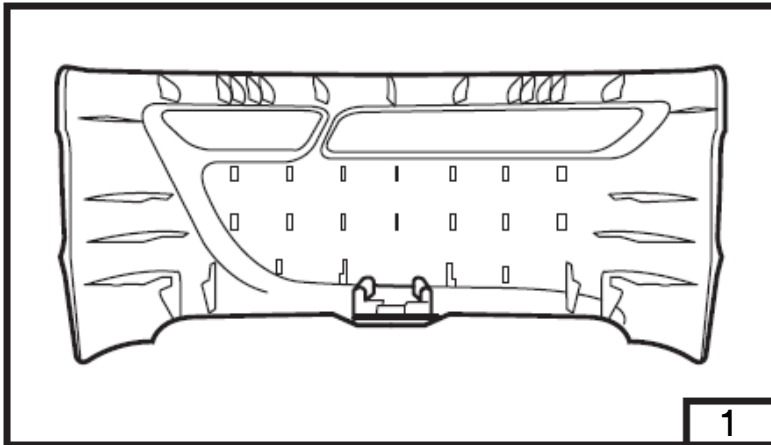


TR-662 Spark Arrestor/Prefilter (metal mesh)

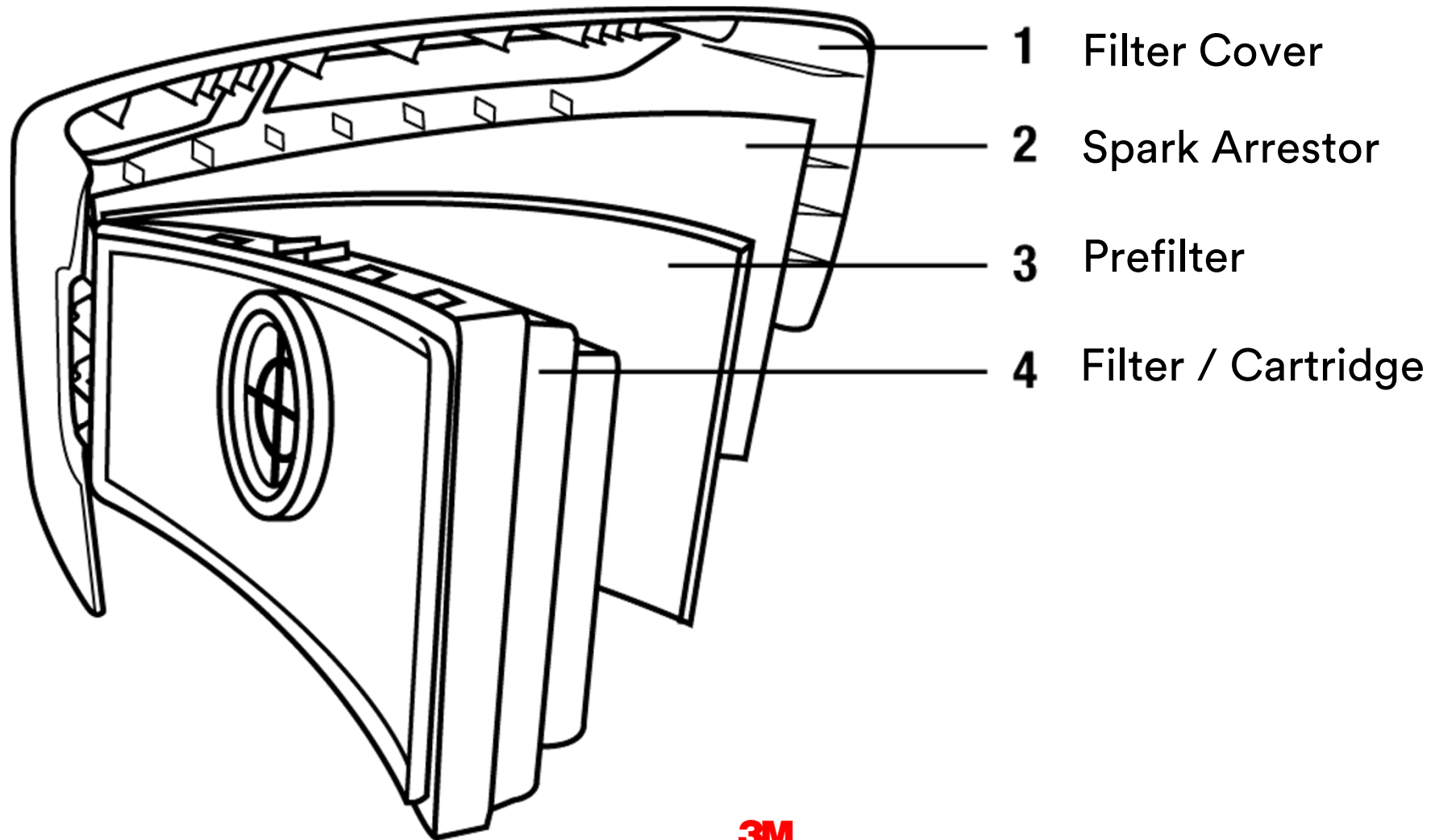
Prefilter / Spark Arrestor



Installing Prefilter/Spark Arrestor



Installing Prefilter/Spark Arrestor



High Capacity Battery



Checking Battery Charge (Battery charge NIOSH_3M 360.mp4)



Installing Battery (Battery Change NIOSH_3M 360.mp4)



Battery Chargers



Battery Chargers



TR-641E Single-Station Battery Charger Kit



TR-644E Four-Station Battery Charger Kit

Charger Setup

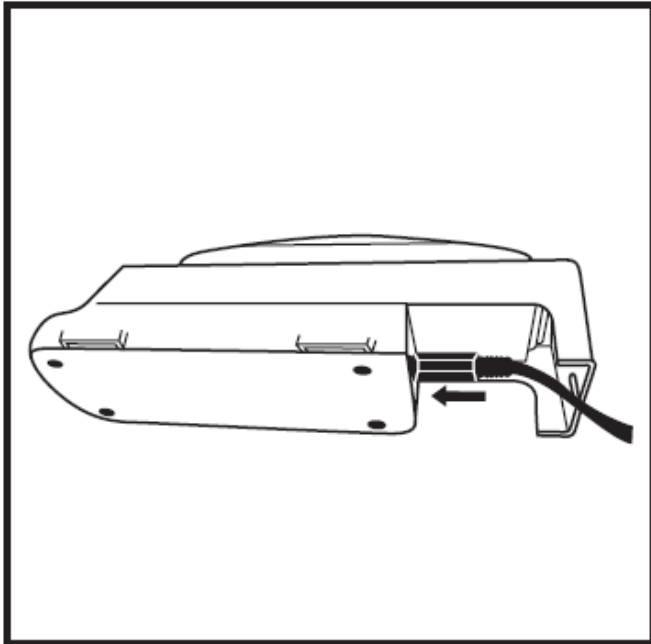


Fig. 1 - Single-station charger setup

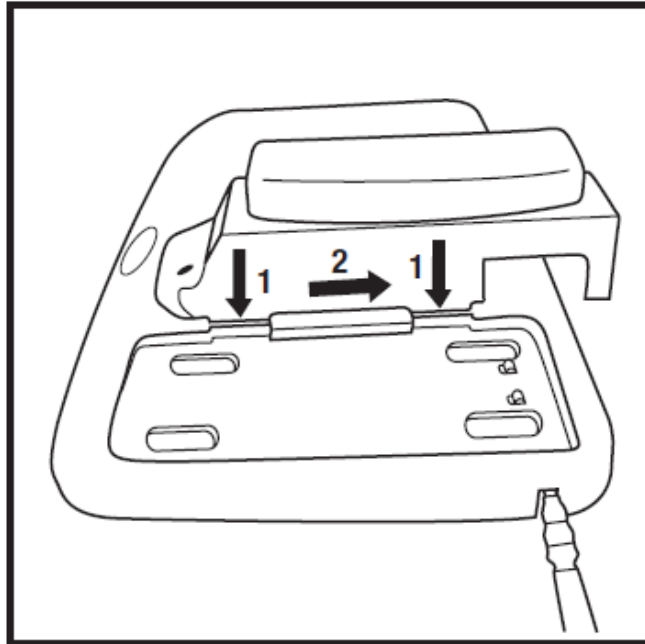


Fig. 2 - Multi-station charger setup

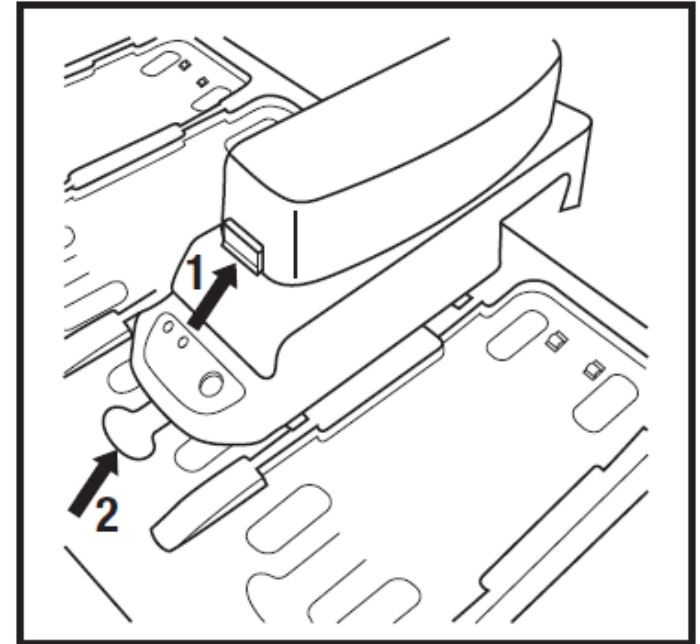


Fig. 3 - Cradle removal

Battery Charger Display



Orange LED	Green LED	Charge Status
On – Steady	Off	Quick Charge
On – Steady	On – Slow Flow	Trickle Charge
Off	On – Steady	Fully Charged
On – Quick Flash	On – Quick Flash	Error
On – Slow Flash	Off	Battery internal temperature too hot or cold.

Battery Charger Display

Power On



Trickle Charge (>90%)



High Capacity Battery Specifications

Chemistry	Li-Ion
Charge Time	< 4.5 hours (TR-632)
Max Time on Charger	Indefinite
Battery Charging* *Based on the internal temperature of the battery	Range: 0° - 40°C Optimal: 20°C - 25°C
Weight	TR-632: 670 grams



Minimal Battery Run Times

- When using P Filter = 9 hours
- When using A1P Filter = 7 hours
- Above claims based on new battery and filter, used at 20°C-21.1°C
- Also dependent on filter loading

TR-627 Easy Clean Belt

Easy to attach turbo to belt



Size adjustment for global population



Ventilation sections that help reduce heat build-up between belt and body, as compared to solid belts.

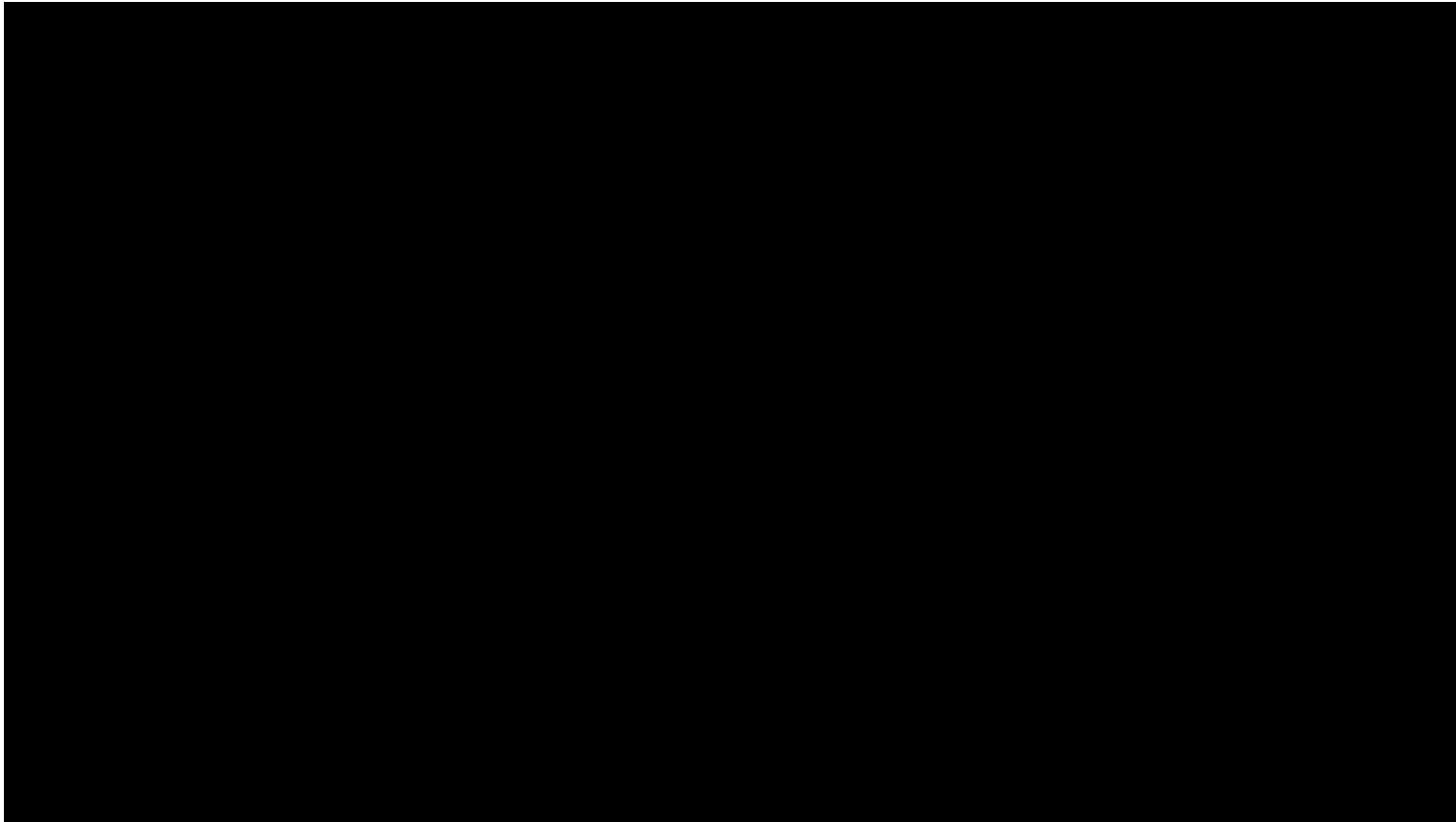
Smooth surfaces allows easy, thorough cleaning



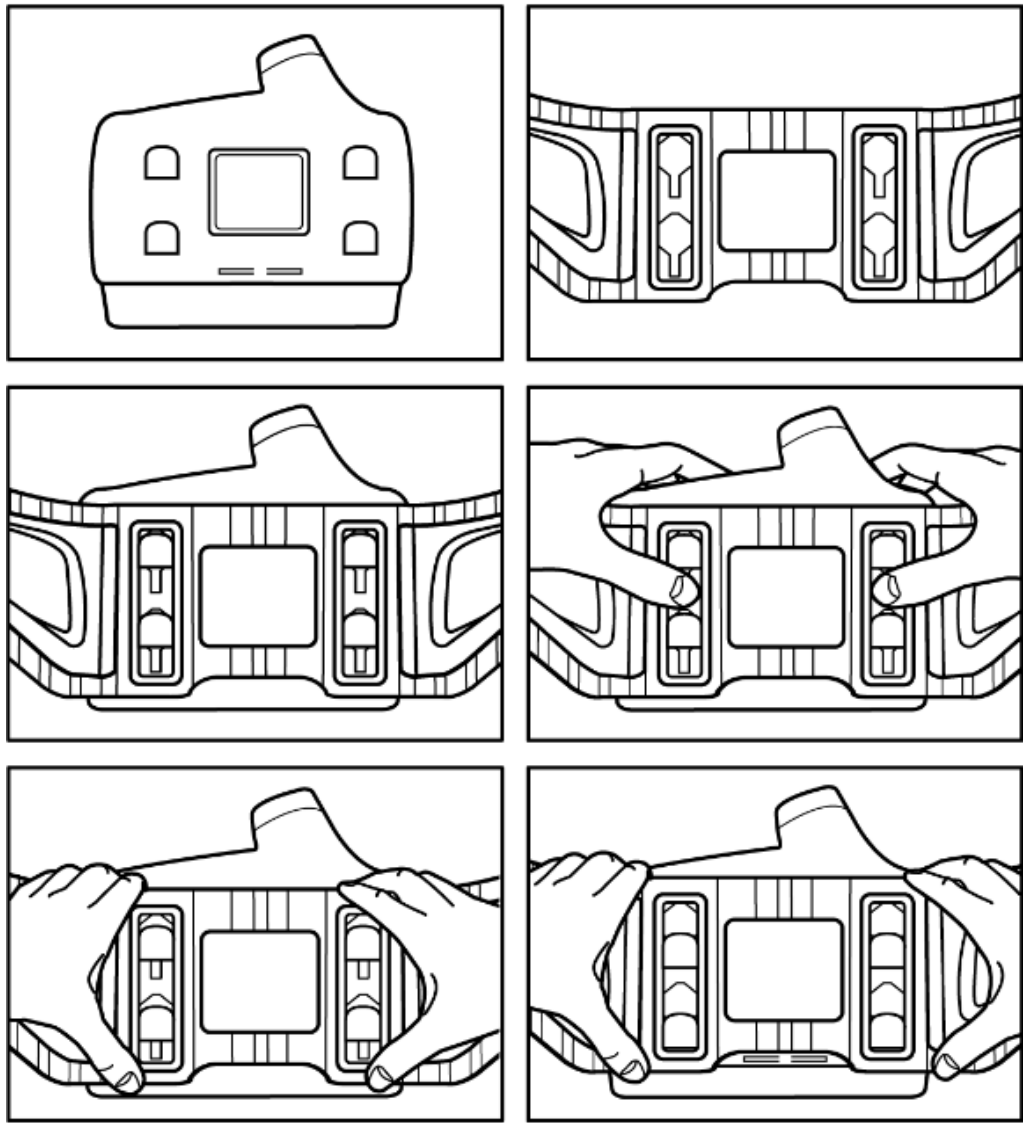
Installing Belt (Belt attachment NIOSH_3M 360.mp4)



Installing Belt (TR-600 – Installing Belt.mp4)



Installing Belt



Airflow Indicator and Checks

TR-972 Airflow Indicator



		°C	-10	0	10	20	30	40	50
m	ft	°F	14	32	50	68	86	104	122
-305	-1000	A	B	C	D	E	F	G	H
0	0	B	C	D	E	F	G	H	I
305	1000	C	D	E	F	G	H	I	J
610	2000	D	E	F	G	H	I	J	K
915	3000	E	F	G	H	I	J	K	L
1219	4000	F	G	H	I	J	K	L	M
1524	5000	G	H	I	J	K	L	M	N
1829	6000	H	I	J	K	L	M	N	O
2134	7000	I	J	K	L	M	N	O	P
2439	8000	J	K	L	M	N	O	P	Q
2744	9000	K	L	M	N	O	P	Q	R
3048	10000	L	M	N	O	P	Q	R	S
3353	11000	M	N	O	P	Q	R	S	T
3658	12000	N	O	P	Q	R	S	T	U
3963	13000	O	P	Q	R	S	T	U	V
4268	14000	P	Q	R	S	T	U	V	W
4573	15000	Q	R	S	T	U	V	W	X
4877	16000	R	S	T	U	V	W	X	Y
5182	17000	S	T	U	V	W	X	Y	

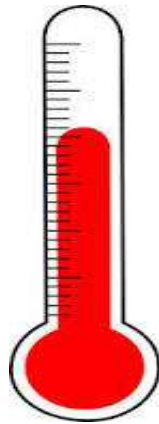
Airflow Indicator and Checks

Elevation



35m

Temperature



20°C

'Zone'

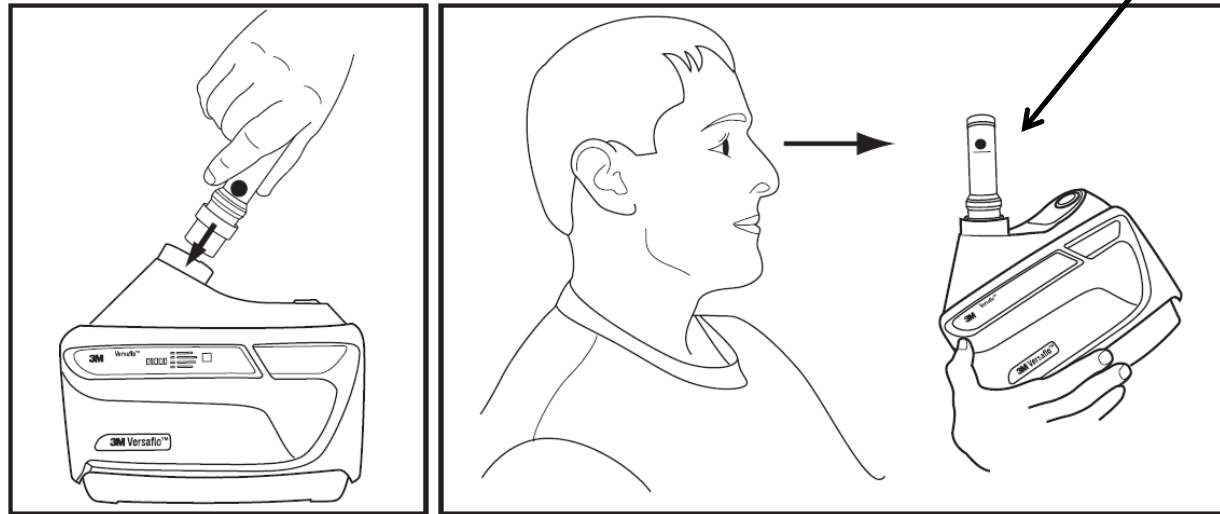


E

		°C		-10	0	10	20	30	40	50
m	ft	°F		14	32	50	68	86	104	122
-305	-1000	A	B	C	D	E	F	G	H	I
0	0	B	C	D	E	F	G	H	I	J
305	1000	C	D	E	F	G	H	I	J	K
610	2000	D	E	F	G	H	I	J	K	L
915	3000	E	F	G	H	I	J	K	L	M
1219	4000	F	G	H	I	J	K	L	M	N
1524	5000	G	H	I	J	K	L	M	N	O
1829	6000	H	I	J	K	L	M	N	O	P
2134	7000	I	J	K	L	M	N	O	P	Q
2439	8000	J	K	L	M	N	O	P	Q	R
2744	9000	K	L	M	N	O	P	Q	R	S
3048	10000	L	M	N	O	P	Q	R	S	T
3353	11000	M	N	O	P	Q	R	S	T	U
3658	12000	N	O	P	Q	R	S	T	U	V
3963	13000	O	P	Q	R	S	T	U	V	W
4268	14000	P	Q	R	S	T	U	V	W	X
4573	15000	Q	R	S	T	U	V	W	X	Y
4877	16000	R	S	T	U	V	W	X	Y	Z
5182	17000	S	T	U	V	W	X	Y	Z	A

Airflow Indicator and Checks

- Insert BT-50 and switch turbo on
- Tight-fitting indicator will be lit
- Wait for 1 min for airflow to stabilise
- Remove BT-50



TR-600 Features: Flow Controlled Air Density Compensation

Automatically maintains airflow at elevations from -100 to 5000 meters (-328 to 16,404 feet)

Automatically maintains airflow from -10 to 54°C (14 – 129°F)



Cleaning and Storage



IPX4 - Showering

System can be decontaminated in shower

IPX4 – sprayed water from all directions

Must:

- use filter cover
- not direct water directly into air inlet
- not remove breathing tube, filter or battery during shower decontamination



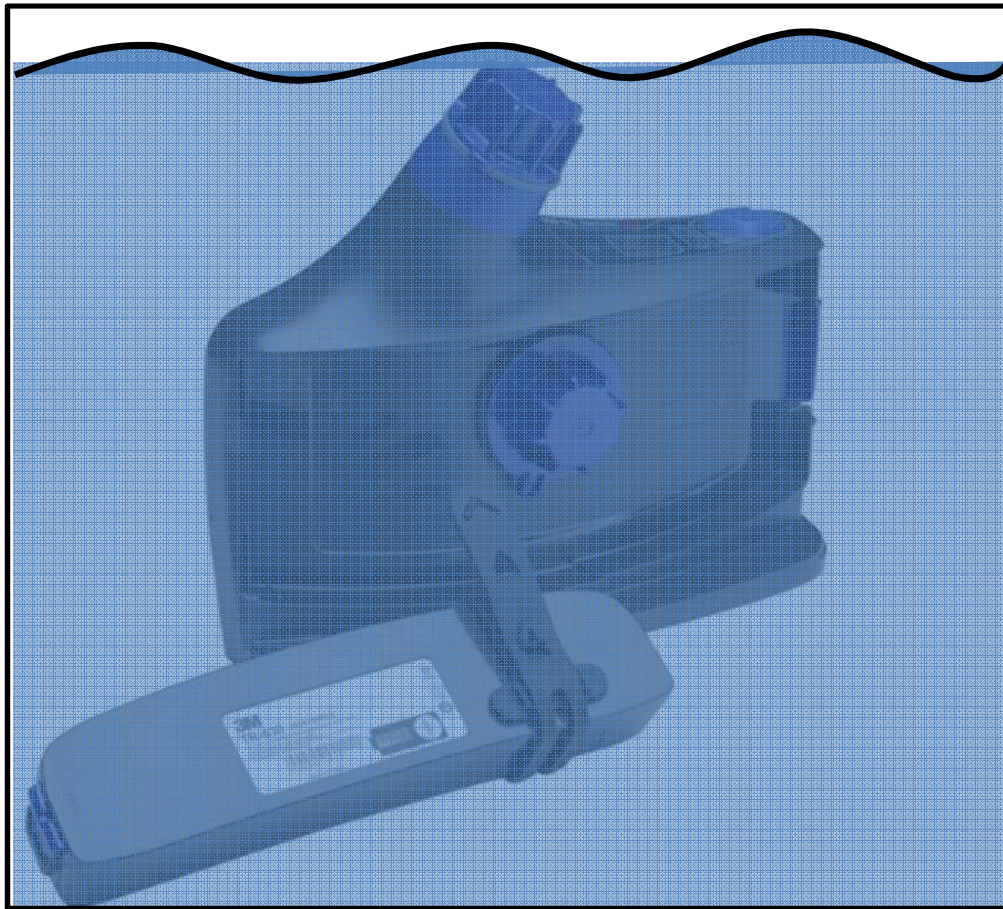
IP X7 - Submerging for Cleaning

System can be put in water for cleaning

IPX7 – up to depth of 1m for 30mins

Must:

- use cleaning and storage plugs
- use battery strap



Installing Cleaning and Storage Plugs (Plugs animation NIOSH_3M 360.mp4)



BT-50 Breathing Tube - Wearing

Can be worn under the arm



Or

Can be worn over left/right shoulder (if concerned about BT-50 snagging)

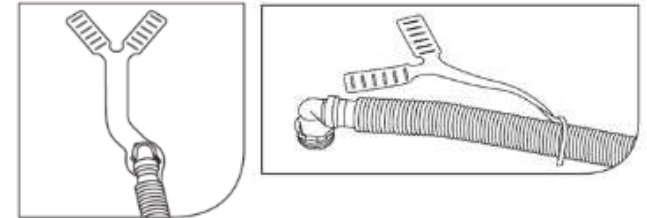


Must use RTN-01
Breathing Tube Retainer

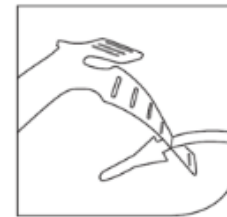


Using RTN-01 Breathing Tube Retainer

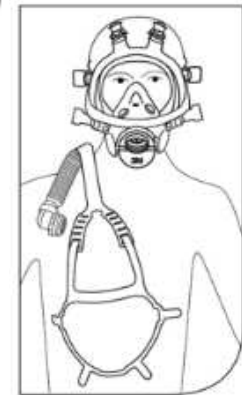
1. Stretch the retaining hole on the Y-Strap over the breathing tube.
Position it so it is approx. 20cm along the length of the tube



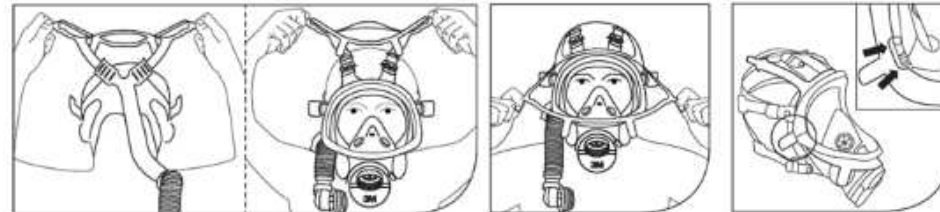
2. Connect the two long straps on visor frame loop to Y-strap



3. Don the facepiece and rest the retainer/breathing tube on shoulder



4. Bring the retainer over the top of the head from behind and secure cut-out sections around the facepiece



Storage

Storage Conditions

Relative humidity	<90%
Temperature (daily storage)	-30°C to 50°C
Temperature (extended storage)	4°C to 35°C
Optimal temperature for batteries to maintain existing charge while stored off charger	15°C



Storage case available

Shelf life from date of manufacture when stored in original packaging and recommended storage conditions:

Turbo	5 years*
Battery	1 year – refer to guidelines for best practice with TR-600 batteries
Filters	5 years
	* Run for 5 minutes/year

Operating Conditions

Temperature	10 °C to 54 °C
High Temp Alarm	Battery alarm will activate when battery internal temperature exceeds 55 °C
High Temp Shutdown	Turbo will shut down if the battery temperature reaches 60 °C
Operating altitude/elevation range	-328 feet to 16,404 feet (-100 meters to 10,000 meters)

Please see TR-600/TR-300 Battery Best Practice & Guidelines document available on Sharepoint for more information

The background of the slide is a complex, abstract geometric pattern. It consists of numerous overlapping triangles of various sizes. The color palette is primarily red and purple, with some areas appearing as a darker, more saturated purple. The triangles are arranged in a way that creates a sense of depth and movement, with some triangles pointing towards the center and others pointing towards the edges. The overall effect is a dynamic and modern visual design.

Logistics

Logistics (1/3)

Product No.	SKU	Description
TR-618E-ASB	7100038564	3M™ Versaflo™ A1P Starter Kit TR-618E-ASB (inc. Turbo Unit, A1P Filter, Spark Arrestorx2, Easy Clean Belt, HD Battery, Battery Charger, Air Flow Indicator, Breathing Tube, Filter Cover, Full Face Mask, BT Retainer, Cleaning Kit, BT cover) - 1 turbo kit/box
TR-615E-ASB	7100038563	3M™ Versaflo™ P Starter Kit TR-615E-ASB (inc. Turbo Unit, P Filter, Spark Arrestor, Easy Clean Belt, HD Battery, Battery Charger, Air Flow Indicator, Breathing Tube, Filter Cover, Full Face Mask, BT Retainer, Cleaning Kit, BT cover) - 1 turbo kit/box
TR-603E-ASB	7100076422	3M™ Versaflo™ Powered Air Turbo Unit TR-603E-ASB , 1 turbo/box, 1 box/case, lang. FR/UK (inc Air Flow Indicator and Spark Arrestor x2)
BT-50	7100038562	3M™ Tight-Fitting Breathing Tube BT-50, 1each/box, 1box/case
STC - 01	7100049805	3M™ Storage Case STC-01 - 1 unit/box, 1 box/case
RTN-01	7100049806	3M™ Retainer RTN-01 for BT-50 - 1 unit/box, 1 box/case
TR-972	7100057684	3M™ Versaflo™ Air Flow Indicator TR-972 - 1 unit/box, 1 box/case
TR-6600	70071618246	3M™ Versaflo™ Prefilter TR-6600, for TR-600/800 Turbo, 10 filters/box, 5 box/case, lang. EMEA/Aus/NZ.

Logistics (2/3)

Product No.	SKU	Description
TR-6710E	CR180812370	3M™ Versaflo™ Particulate Filter TR-6710E, for TR-600/800 Turbo, 1 filters/box, 5 box/case, lang. EMEA/Aus/NZ.
TR-6110E	CR180812388	3M™ Versaflo™ A1P Filter TR-6110E, for TR-600/800 Turbo, 1 filter/box, 5 boxes/case, Lang EMEA/Aus/NZ.
TR-662	70071618253	3M™ Versaflo™ Spark Arrestor TR-662, for TR-600/800 Turbo, 2 each/box, 1 box/case, lang. EMEA/Aus/NZ.
TR-6700FC	70071618261	3M™ Versaflo™ Filter Cover TR-6700FC, for TR-6700 Series Filters, 1 each/box, 1 box/case, lang. EMEA/Aus/NZ.
TR-6100FC	70071622057	3M™ Versaflo™ Filter Cover TR-6100FC, for TR-6100 Series Filters, 1 each/box, 1 box/case, lang. EMEA/Aus/NZ.
TR-641E	52000053570	3M™ Versaflo™ Single Station Battery Charger Kit TR-641E (EU lead), for TR-600/800 Series Turbo, 1 each/box, 1 box/case, lang. EMEA/Aus/NZ.
TR-632	52000053554	3M™ Versaflo™ High Capacity Battery TR-632, for TR-600 Turbo, 1 each/box, 1 box/case, lang. EMEA/Aus/NZ.
TR-627	70071618154	3M™ Versaflo™ Easy Clean Belt TR-627, for TR-600/800 Turbo, 1 each/box, 1 box/case, lang. EMEA/Aus/NZ.
7900PF	XA007706832	3M™ Full Face Mask 7900PF

Logistics (3/3)

Product No.	SKU	Description
TR-653	70071618428	3M™ Cleaning & Storage Kit TR-653
BT-922	XA0077065257	3M™ Disposable Breathing Tube Cover BT-922, 5 each/bag, 1 bag/case

The background is a complex, abstract geometric pattern composed of numerous overlapping triangles. The color palette is dominated by vibrant reds and deep purples, with some areas appearing as darker, more saturated shades of these colors. The triangles vary in size and orientation, creating a dynamic and textured visual effect.

Marcomms

Marketing Communications Material

- Sell sheet
- Technical data sheet
- Care & maintenance poster

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Science.
Applied to Life.™

Delivering a world of comfort to you.

The 3M™ Vane® Power Air Turbo TE 8205 ASB, combined with the 3M™ Full Face Mask 7500 PF can be used in a variety of environments helping all the protection, comfort and simplicity you need.

Airflow | 3M™ Vane® Power Air Turbo TE 8205 ASB

8 Valve Protective, Ventilation & Breathing

- Approved for OSHA Class III
- 8 Valve and 8 Breathing Inlets for the highest flow and efficiency
- 300 mm diameter and 100 mm diameter with 40 mm hose

Full Face Mask 7500 PF

- Certified for use in Class II
- Large eye lenses with built-in defogger
- 30 mm diameter
- 100 mm diameter
- 100 mm diameter

3M™ Vane® Power Air Turbo TE 8205 ASB

Delivers airflow to the user's face, providing a high level of comfort and efficiency. The 3M™ Vane® Power Air Turbo TE 8205 ASB is designed for use in Class II environments.

3M™ Vane® Power Air Turbo TE 8205 ASB

The 3M™ Vane® Power Air Turbo TE 8205 ASB is designed for use in Class II environments. It provides a high level of comfort and efficiency. The 3M™ Vane® Power Air Turbo TE 8205 ASB is designed for use in Class II environments.

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3M™ Vane® Power Air Turbo TE 8205 ASB

Model	Flow Rate (L/min)	Flow Rate (m³/min)
TE 8205 ASB	100	1.0
TE 8205 ASB	100	1.0
TE 8205 ASB	100	1.0
TE 8205 ASB	100	1.0
TE 8205 ASB	100	1.0
TE 8205 ASB	100	1.0
TE 8205 ASB	100	1.0
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TE 8205 ASB	100	1.0
TE 8205 ASB	100	1.0
TE 8205 ASB	100	1.0
TE 8205 ASB	100	1.0
TE 8205 ASB	100	1.0
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TE 8205 ASB	100	1.0
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TE 8205 ASB	100	1.0

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