



### 3M™ Speedglas™ Welding Helmet 9100 Air with 3M™ Adflo™ Powered Air Respirator

Ergonomic auto-darkening welding protection with optimal mobility and ease-of-use.

Part no\*: — Speedglas welding helmet 9100 Air, variable shade 5, 8, 9–13 and Adflo respirator with particle filter:

- 56 77 05 with Speedglas welding filter 9100V (45 x 93 mm)
- 56 77 15 with Speedglas welding filter 9100X (54 x 107 mm)
- 56 77 25 with Speedglas welding filter 9100XX (73 x 107 mm)



### 3M™ Speedglas™ Welding Helmet 9100 FX Air with 3M™ Adflo™ Powered Air Respirator

A flip-up combination of an auto-darkening welding helmet and a 17 x 10 cm clear visor for weld preparations. Excellent for low-light conditions and continuous eye, face TH3-rated respiratory protection.

Part no\*: — Speedglas welding helmet 9100 FX Air, variable shade 5, 8, 9–13 and Adflo respirator with particle filter:

- 54 77 05 with Speedglas welding filter 9100V (45 x 93 mm)
- 54 77 15 with Speedglas welding filter 9100X (54 x 107 mm)
- 54 77 25 with Speedglas welding filter 9100XX (73 x 107 mm)



### 3M™ Speedglas™ Welding & Safety Helmet 9100 MP with 3M™ Adflo™ Powered Air Respirator

Welding and safety helmet with auto-darkening welding filter and a 17 x 10 cm clear visor for weld preparations. Five levels of welder protection: head, eye, face, respiratory and hearing into one comfortable and easy-to-use system.

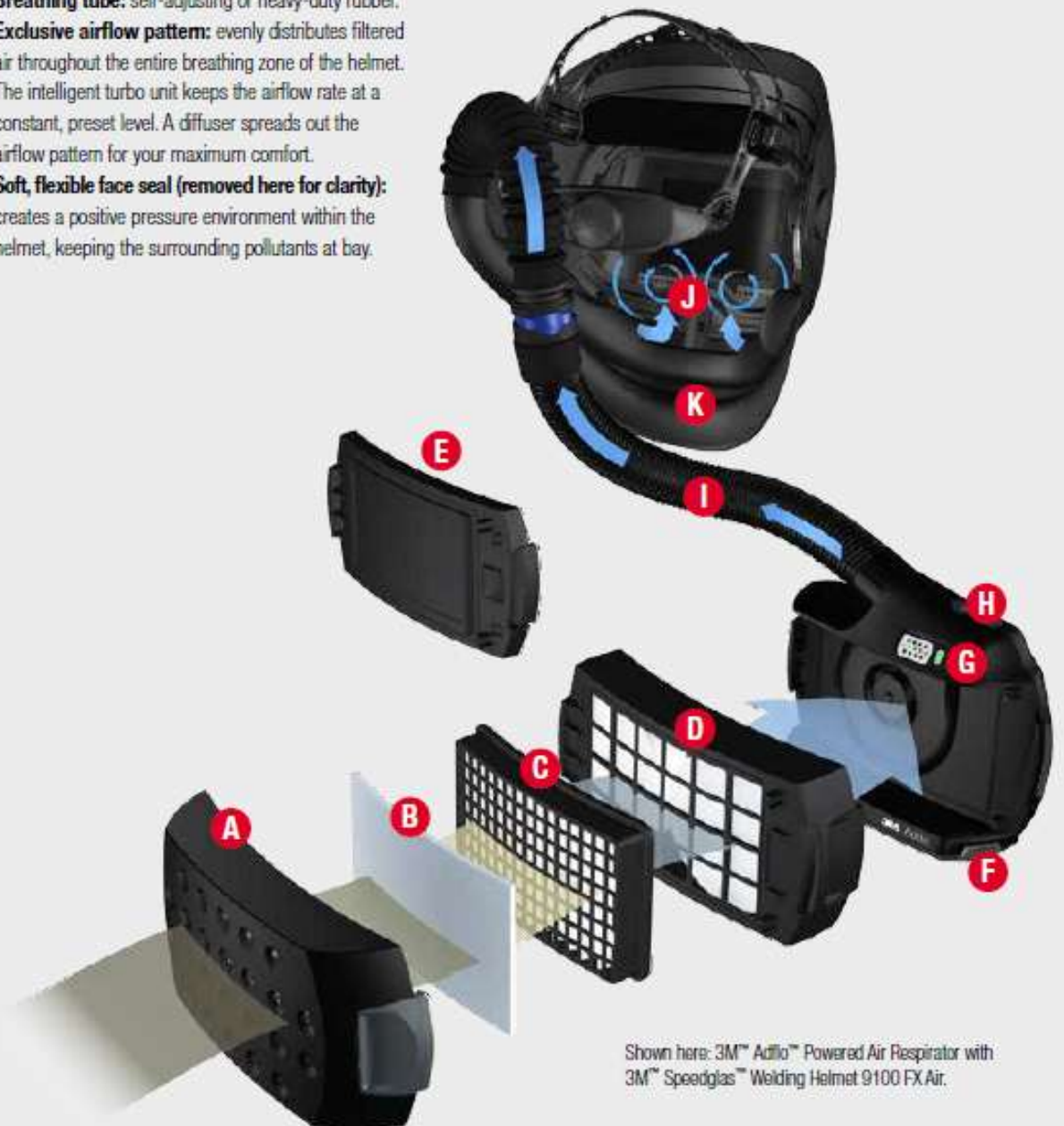
Part no\*: — Speedglas welding and safety helmet 9100 MP, variable shade 5, 8, 9–13 and Adflo respirator with particle filter:

- 57 77 05 with Speedglas welding filter 9100V (45 x 93 mm)
- 57 77 15 with Speedglas welding filter 9100X (54 x 107 mm)
- 57 77 25 with Speedglas welding filter 9100XX (73 x 107 mm)

Technical Specification	3M™ Adflo™ Powered Air Respirator
<b>Airflow</b>	170 l/min (Nominal) 200 l/min (Airflow Plus Mode)
<b>Filters</b>	Particle filter Gas Filter (A1B1E1 or A2) Odour filter
<b>Weight</b> Respirator without belt	950 g
<b>Battery</b> Charging time Operating hours <sup>1</sup>	Li-ion 4,5 hours (Standard), 5,5 hours (Heavy Duty) 8 hours (Standard), 12 hours (Heavy Duty)
<b>Belt</b> Optional extension	Leather, 75–115 cm +25 cm
<b>Temperature range</b> Operation Storage	-5° C to + 55° C -20° C to + 55° C
<b>Approval respiratory protection/NPF<sup>2</sup></b> Speedglas welding helmet 9100 FX Air Speedglas welding helmet 9100 Air Speedglas welding helmet 9100 MP Versafo faceshield / helmet M-series 3M protective visor shade 5	EN 12 941 (TH3) / NPF 500 EN 12 941 (TH2) / NPF 50 EN 12 941 (TH3) / NPF 500 EN 12 941 (TH2) / NPF 50 EN 12 941 (TH2) / NPF 50

## 3M™ Adflo™ Powered Air Respirator System

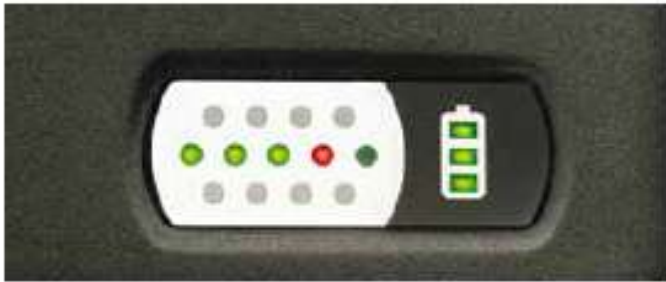
- A Filter cover:** holds the user-replaceable spark arrestor.
- B Prefilter:** increases the service life of the particle filter.
- C Particle filter:** high efficiency particulate filtration.
- D Gas filter:** (A1B1E1 or A2) captures organic, inorganic and acid gases and vapours. Gas filters sold separately.
- E Odour filter:** removes unpleasant smells (not needed if a gas filter is installed); sold separately.
- F Li-ion battery:** fully charges in 4,5 hours. Expected operating time is 8 hours with new particle filter, new fully-charged battery and a standard airflow.
- G Filter Indicator:** indicates the status of the particle filter.
- H Airflow Plus:** for hot, humid jobs, you can increase the airflow from 170 l/min to 200 l/min with the push of a button.
- I Breathing tube:** self-adjusting or heavy-duty rubber.
- J Exclusive airflow pattern:** evenly distributes filtered air throughout the entire breathing zone of the helmet. The intelligent turbo unit keeps the airflow rate at a constant, preset level. A diffuser spreads out the airflow pattern for your maximum comfort.
- K Soft, flexible face seal (removed here for clarity):** creates a positive pressure environment within the helmet, keeping the surrounding pollutants at bay.



Shown here: 3M™ Adflo™ Powered Air Respirator with 3M™ Speedglas™ Welding Helmet 9100 FX Air.

## Green for go

As soon as you turn on your Adflo powered air respirator a display indicates the status of the filter. Green light means that the unit is working normally. Red light indicates that the filter is clogging up. As an extra security feature an audible alarm sounds when the filter is so clogged that the airflow level cannot be maintained. If this alarm is ignored the unit automatically turns off.



## An adaptable system that saves money

With the right type of filter the Adflo respirator effectively protects you against both particles and gases – all in one system. And you can selectively replace either the particle or the gas filter as needed: you don't need to change both filters at the same time.

## Constant flow of clean air

The airflow is always a constant nominal rate of 170 litres per minute, regardless of the battery's charge or the particle loading of the filter. For hot, humid jobs, you can increase the airflow to 200 litres per minute by simply pushing the ON button a second time.

## Higher altitudes

For welders working in higher altitude locations, where the regular Adflo respirator might not work properly, there is a special respirator version that adjusts for changes in air density; 3M™ Adflo™ High Altitude Powered Air Respirator. With this version you can work at altitudes between 0-3000 meters above sealevel (0-1500 meters with gas filter).

