



Science.
Applied to Life.™



3M
Aura™ 1863+
EN149:2001 FFP3 NR D
CE 0086

3M™ Aura™ Health Care Particulate Respirators

Breathe the difference.

3M™ Aura™ Health Care Particulate Respirators

The Aura Health Care Particulate Respirators are the result of 3M's continuous drive to provide reliable protection while improving comfort for health care workers.

Respirators help protect wearers by reducing exposure to airborne particles that might be generated during medical procedures (bioaerosols, dusts, mists, etc).

The Aura Series is packed with ground-breaking ideas, technologies and materials, and has retained many of the features that made the 1800 flat-fold disposable respirators hugely popular.

3M's innovative low breathing resistance filter technology allows you to breathe through the Aura respirator with the least amount of effort. In addition, an embossed top panel helps reduce the fogging of eyewear from warm, moist exhaled air.

3M™ Aura™ Respirators come with the kind of responsive support, access to technical personnel, reliable advice and dependable quality that a global brand like 3M can offer.



Clear vision

Embossed top panel

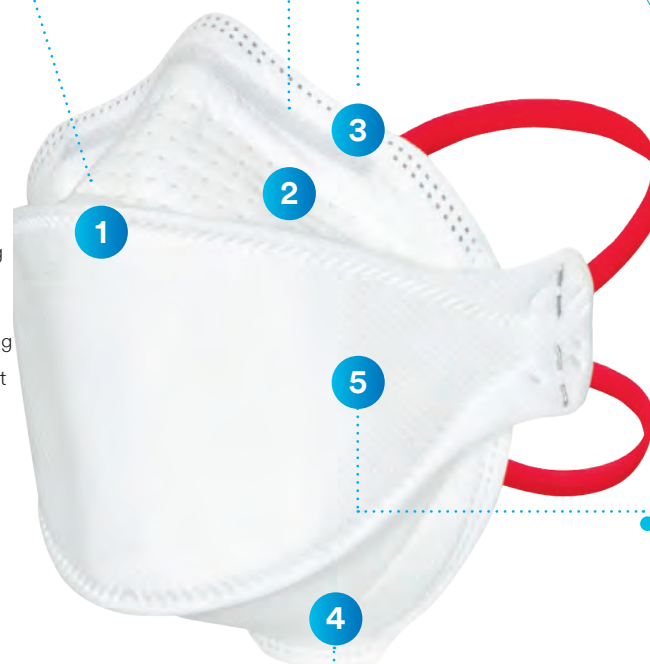
- Helps reduce fogging of eyewear



Breathing ease

Low breathing resistance filter technology

- Combines the benefits of 3M's electret particulate filter material with advanced low breathing resistance filter technology
- Gives effective filter performance whilst lowering resistance to breathing
- Improved breathing ease and comfort

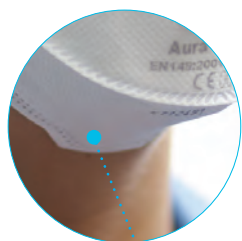


Sculpted nose panel

- Curved, low profile design
- Conforms well to nose and eye contours
- Helps provide a good field of vision
- Improves compatibility with eyewear

Face and head comfort

- Ingenious 3-panel design fits a wide range of face shapes and sizes
- Accommodates your facial movements
- Collapse resistant; ideal for work in hot humid environments
- Stays securely in place, helping to provide a good, comfortable seal
- Large soft nose foam material and smooth inner cover web both feel incredibly soft on the skin and help to create a comfortable environment for the face



Convenience

- Flat-folded: easy to store when not in use
- Hygienic individual packaging helps protect the respirator from contamination before use
- Compatible with most 3M™ Safety Eyewear

Innovative chin tab

- Improves ease of donning and adjustment to help achieve a comfortable fit



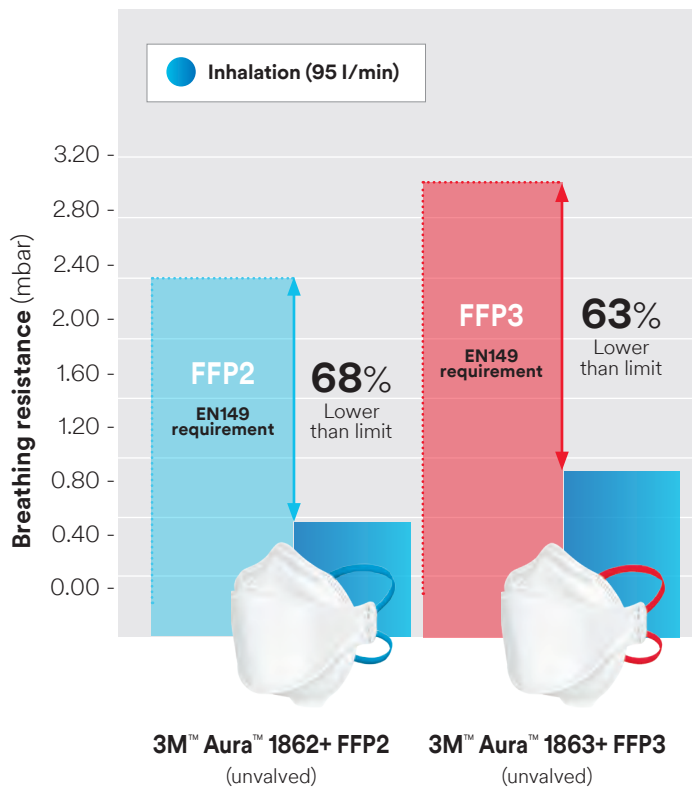
Breathe in more freely

3M™ Aura™ Respirators feature 3M's low breathing resistance filter technology: an innovative filter media that helps minimize breathing resistance. This enables high filtering performance with less effort on the part of the wearer, making protection even less intrusive.

Up to **77%** more breathing comfort

When tested to EN 149 standard, at a flow rate of 95 liters per minute, the approximate mean inhalation breathing resistance achieved with 3M™ Aura™ Respirators was 68% lower for FFP2 and 63% lower for FFP3.

Mean breathing resistance* of 3M™ Aura™ Respirators as per requirements of EN 149:2001+A1:2009 Standard



Breathe out more clearly



The 3M™ Aura™ Respirators are designed to control air in a way that helps reduce the fogging of eyewear.



Exhalation flow

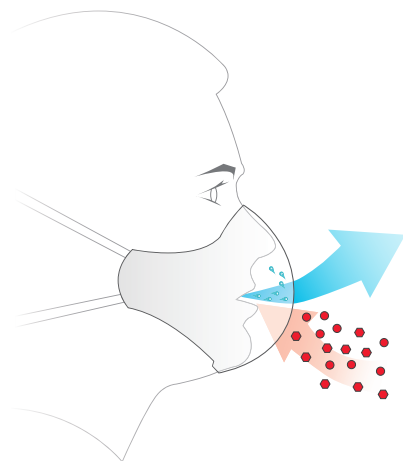
When exhaling, the embossed pattern reduces the airflow through the upper panel, the majority of the air exits through other panels. Less moist air reaches the surface of the eyewear from the top panel, helping to minimise fogging.

Inhalation breathing resistance (95 l/min)

	EN 149:2001+A1:2009 requirement limit (mbar)	Measured mean (mbar)	Pooled standard deviation
 1862+	FFP2 = 2.4	0.76	0.03
 1863+	FFP3 = 3.0	1.10	0.03

* Individual 95% Confidence Interval for Mean, based on Pooled Standard Deviation for inhalation. Inhalation flowrate at 95 l/min. Testing performed by BSI to the requirements of EN 149:2001+A1:2009 Breathing Resistance and is generally representative of performance.

Selecting your 3M™ Aura™ Particulate Respirator



Unvalved Respirators 1862+ and 1863+

- Dual Approved Respirators: Personal Protective Equipment (PPE) and Medical Device
- Help protect the wearer from airborne hazardous contaminants and help protect the patient and the environment by filtering particles from both inhaled and exhaled air
- Approved to the European Medical Device Directive (93/42/EEC)



NR = Not Reusable (single shift use only)
D = Meets clogging resistance requirements
II = Bacterial Filter Efficiency \geq 98%
R = Splash Resistance Pressure \geq 120 mmHg

	1862+	1863+
Exhalation Valve	Unvalved	Unvalved
EN 149:2001+A1:2009 Classification	FFP2 NR D	FFP3 NR D
Filter Efficiency	\geq 94%	\geq 99%
Nominal Protection Factor* (NPF)	12	50
EN 14683:2005 Classification	Type IIR	Type IIR

*NPF: The theoretical respiratory protection level of a respirator based on laboratory measured performance data using inert, non-pathogenic challenge aerosols.

When properly used and maintained, respirators can lower exposure to concentrations considered safe for most non-biological particles. However, they do not eliminate the risk of infection or illness caused by exposure to biological particles where safe exposure levels have not been established. No respirator will prevent the inhalation of all particles, therefore they cannot totally eliminate all risks of exposure, infection and illness.

The performance of these products relies on the wearer achieving an adequate seal between the facepiece and their face, thus ensuring contaminated air does not leak in.

For respiratory training and advice, please contact your local 3M representative.

Warning: Selection of the most appropriate respiratory protective equipment (RPE) will depend on the particular situation and should be made only by a competent person knowledgeable of the actual working conditions and the limitations of RPE. Details regarding performance and limitations are set out on the respirator package and user instructions. Before using any of these respirators, the wearer must read and understand the user instructions for each product. Specific country legislation must be observed.



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