

3M™ Supplied Air Respirator System S200+

Technical datasheet

Product description

The 3M™ Supplied Air Respirator System S-200+ is intended for use with the 3M™ 6000 and 3M™ 7000 Series Half and Full Facepieces. The S-200+ System by 3M can be used as a standard airline respirator system or in dual-mode with filter back-up when air supply is disconnected.

- ▶ Narrow-bore breathing tube
- ▶ Bayonet connection to the facepiece and filter
- ▶ The 3M™ S-212 Air Regulator comprises a lockable airflow adjustment knob and double action couplings
- ▶ Highest level of protection for continuous flow supplied air respirators when fitted to a full facepiece
- ▶ A wide range of air tools can be fitted to the 3M™ S-200+ Supplied Air Respirator System

Materials

Component	Material
Housing and belt bracket	Polypropylene
Outlet fitting	Brass
Inlet fitting	Stainless Steel
Breathing Tube	TPE
Belt	Polyester

Applications

The S-200+ System, when used with an approved 3M™ Facepiece provides respiratory protection against:

- ▶ Particles e.g. fine dusts, aerosols, paint spray or metal fume
- ▶ Gases and Vapours
- ▶ Particles, gases and vapours combined

Application	Typical Industry
Spray Painting	General Transport Automotive & Aerospace Metal Fabrication Shipbuilding Oil and Gas
Glass Fibre Fabrication	Boat building Wind Turbine Manufacturing
Powder Coating	Metal Fabrication
Material Handling	Pharmaceutical Chemical Agrochemical Laboratory

Use Limitations





The S-200+ Supplied Air Respirator system should not be used in the following conditions:

- ▶ In atmospheres containing less than 19,5 % oxygen
- ▶ Confined spaces (lack of ventilation)
- ▶ When the risk is considered to be immediately dangerous for life or health (IDLH)
- ▶ Where the contaminant concentration is above the Occupational Exposure Limit defined for the facepiece used.

Compatibility

The 3M™ Respirator System S-200+ can be used as a standard airline respirator or in dual-mode with a range of 3M™ filters that provide continuous protection when the air supply is disconnected.

The S-200+ System can be combined with a wide range masks and filters:

Facepieces	
Half Facepieces	
	3M™ Half Facepieces 6000 Series
	3M™ Half Facepieces 6500 Series
	3M™ Half Facepieces 7500 Series
Full Facepieces	
	3M™ Full Facepieces 6000 Series

Filters

Particulate Filters



2135 Particulate Filter (P3R)



2138 Particulate Filter (P3R)



5935* Particulate Filter (P3R)



501 Filter Retainer

Gas and Vapour Filters



6051 Organic Gases and Vapours (boiling point >65°C) up to 1000ppm (A1)



6054 Ammonia and Ammonia based Gases and Vapours (K1)



6055 Organic Gases and Vapours (boiling point >65°C) up to 5000ppm (A2)



6057 Combination Organic Gases and Vapours (boiling point >65°C), Inorganic and Acid Gases (ABE1)



6059 Combination Organic Gases and Vapours (boiling point >65°C), Inorganic, Acid and Ammonia based Gases (ABEK1)



6075 Organic Gases and Vapours (boiling point >65°C) plus formaldehyde (up to 10ppm) (A1)

Combination Filters



6096 Organic Gases and Vapours (boiling point >65°C), Mercury and Particulates (A1HgP3R)

* 5000 Series Filters can be used with 6000 Series Filters for combined gas and particulate protection in conjunction with a 501 Filter Retainer.

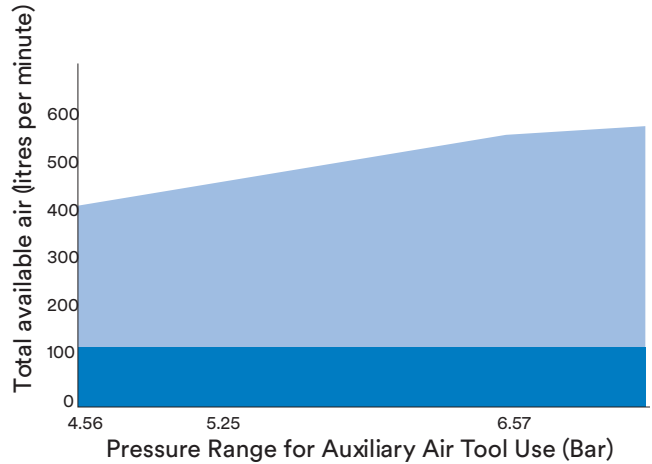
Auxiliary Air Tools

A wide range of air tools can be fitted to the 3M™ S-200+ Supplied Air Respirator System.

The chart below shows the amount of air available for Auxiliary Air Tool use when the 3M™ S-200+ Supplied Air System is set to its minimum flow setting. 3M recommends that Auxiliary Air tools are only used in combination with the S-200+ Supplied Air System between 4.5 and 7 Bar.

Note:

- ▶ Increased flow to the facepiece will reduce the air available to the Auxiliary air tool at any given pressure
- ▶ Always ensure that the Air tool to be used with the S-200+ is compatible for use and can deliver the performance required



Technical Data Specifications

Nominal Protection Factor (NPF)	3M Half Facepieces (Class 3A/B) = 200 3M Full Facepieces (Class 4A/B) = 2000
Inlet Pressure	Pressure range: 3 – 7 Bar Pressure range (with Auxiliary air tool connected): 4.5-7 Bar Maximum Pressure: 10 Bar
Outlet Flow Characteristics	Manufacturer's Minimum Design Flow (MMDF): 120l/min Maximum Flow: >350l/min
Storage Conditions	-10°C to +50°C <90% Relative Humidity
Operating temperature	0°C to +40°C <90% Relative Humidity
Connections	Inlet Port: CEJN 346 Auxiliary Port: ¼ inch BSP The compressed air used to operate the S-200+ Regulator must comply with the quality requirements of EN12021:2014
Shelf Life*	5 years from date of manufacture

* The shelf life as defined above remains an indicative and maximum data, subject to many external and non controllable factors. It may never be interpreted as a warranty.

Standards and Approvals

The S-200+ Supplied Air Respirator System has been tested and approved to EN14594:2005. The Certificate and Declaration of Conformity are available at the following website www.3M.com/Respiratory/certs.

The S-200+ Supplied Air Respirator System has also been assessed in accordance with the requirements of the ATEX directive and in accordance with EN13463-1 for non-electrical equipment**. The equipment is suitable for use in IIB 2GD environments under certain conditions. Please see relevant user instructions for further details.

** Valid only when fitted with a 3M™ 308-00-72P Antistatic Compressed Air Supply Tube

Spare Parts and Accessories

Part Number	Description
S-212	Regulator
S-222	Breathing Tube
C-340	Overflow Valves
C-231	Spray Gun Adaptor
FCB-01	Flow Check Bag
301-00-62P5	Belt
308-00-30P	10m Standard Duty CAST
308-00-31P	30m Standard Duty CAST
308-00-40P	7.5m Light Duty CAST
308-00-72P	10m Standard Duty, anti-static, heat resistant CAST
530-12-81P3	Socket and Plug set – Rectus 95/96
312-03-01P3	2-way Manifold
312-03-00P3	3-way Manifold
ACU-03	Aircare Filtration Unit – Wall Mounted
ACU-04	Aircare Filtration Unit – Free standing
105	Cleaning Wipes
107	Storage Bag

Important notice

The use of the 3M product described within this document assumes that the user has previous experience of this type of product and that it will be used by a competent professional. Before any use of this product it is recommended to complete some trials to validate the performance of the product within its expected application. All information and specification details contained within this document are inherent to this specific 3M product and would not be applied to other products or environment. Any action or usage of this product made in violation of this document is at the risk of the user. Compliance to the information and specification relative to the 3M product contained within this document does not exempt the user from compliance with additional guidelines (safety rules, procedures). Compliance to operational requirements especially in respect to the environment and usage of tools with this product must be observed. The 3M group (which cannot verify or control those elements) would not be held responsible for the consequences of any violation of these rules which remain external to its decision and control. Warranty conditions for 3M products are determined with the sales contract documents and with the mandatory and applicable clause, excluding any other warranty or compensation. Respiratory Protection is only effective if it is correctly selected, fitted and worn throughout the time when the wearer is exposed to respiratory contaminants. 3M offers advice on the selection of products, and training in the correct fitting and usage. For more information on 3M products and services please contact 3M.