Technical Datasheet



3M™ Supplied Air Respirator System S200+

Product Description

The 3M™ Supplied Air Respirator System S-200+ is a comfortable and versatile supplied air respirator system for use with the 3M™ 6000 and 3M™ 7000 Series Half and Full Face Masks. 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.

- Low profile, narrow-bore breathing tube for ease of movement and helps to reduce interference with your work
- Robust, proven bayonet connection to the facepiece and filter provides easy fitting with confidence of security
- The 3M™ S-212 Air Regulator comprises a lockable airflow adjustment knob and NEW double action couplings for secure use with enhanced confidence in protection
- Lightweight and balanced system
- Easy to maintain, spare parts are quick, easy and intuitive to replace
- Highest level of protection for continuous flow supplied air respirators when fitted to a full face mask
- A wide range of air tools can be fitted to the 3M™ S-200+ Supplied Air Respirator System eliminating the need for multiple airlines when working

Materials Listing

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™ Face mask 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 Threshold Limit Value 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:

Facemasks	
Half Face Masks	
	3M™ Half Face Masks 6000 Series
	3M™ Half Face Masks 6500 Series
	3M™ Half Face Masks 7000 Series
	3M™ Half Face Masks 7500 Series
Full Face Masks	
	3M™ Full Face Masks 6000 Series
	3M™ Full Face Masks 7907

Filters		
Particulate Filters		
	**2135**	Particulate Filter (P3R)
	**2138**	Particulate Filter + nuisance vapours (P3R)
	**5935***	Particulate (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.

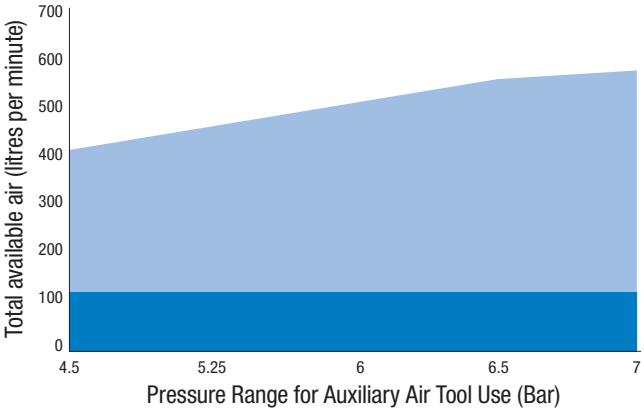
Auxiliary Air Tools

A wide range of air tools can be fitted to the 3M™ S-200+ Supplied Air Respirator System eliminating the need for multiple airlines when working.

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



Air tool Air supply

Facepiece Air supply

Also Available from 3M



The 3M™ Accuspray™ System gives like-new spray gun performance on demand. The innovative technology gives efficient and economical application of material with each atomising head delivering a large usable pattern, with very low overspray and exceptional atomisation.

This system is compatible for use with the 3M™ S-200+ Supplied Air Respirator system.

Please see all information for use of the 3M™ Accuspray™ System before use and for full performance details

Technical Data Specifications

Nominal Protection Factor (NPF)	3M Half Face masks (Class 3A/B) = 200 3M Full Face masks (Class 4A/B) = 2000
Inlet Pressure	Pressure range: 3 – 7.0 Bar Pressure range (with Auxiliary air tool connected): 4.5-7.0 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

Standards and Approval

The S-200+ Supplied Air Respirator System has been tested and approved to EN14594:2005. When used with a 3M™ recommended Full Face mask the product meets the requirements for a class 4A/B device. When used with a 3M™ recommended Half Face mask the product meets the requirements for a class 3A/B device.

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.

The 3M™ Supplied Air Respirator System S-200+ meets the Basic Safety Requirements under Articles 10 and 11B of the EC Directive 89/686/EEC and thus carries the CE mark.

The product was examined at the design stage by BSI, Kitemark Court, Davy Avenue, Knowlhill, Milton Keynes, MK5 8PP, UK (Notified Body number 0086).

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

Spare Parts and Accessories

Part No.	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
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

3M does not accept liability of any kind, be it direct or consequential (including, but not limited to, loss of profits, business and/or goodwill) arising from reliance upon any information herein provided by 3M. The user is responsible for determining the suitability of the products for their intended use. Nothing in this statement will be deemed to exclude or restrict 3M's liability for death or personal injury arising from its negligence.

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