

3M™ 3 Person Supplied Air Filter Panel

Technical Data Sheet

Description

The 3M 3-Man Breathing Air* Panel (part number 901-00-47) when used in accordance with these instructions will remove oil, liquid water, dirt and odour from the compressed air supply.

Installation Requirements

The equipment is intended for use with compressed air supplied by reciprocating or screw compressors at a pressure of 700 kPa (100 psi). At this pressure the equipment has a nominal capacity of 17 l/sec (35cfm). The air supply to this

Air Panel should be as cool as possible and pre-filtered to remove any gross oil, water and dirt contaminants. The Panel must be installed with the filters vertical and should be located as far away from the compressor as possible.

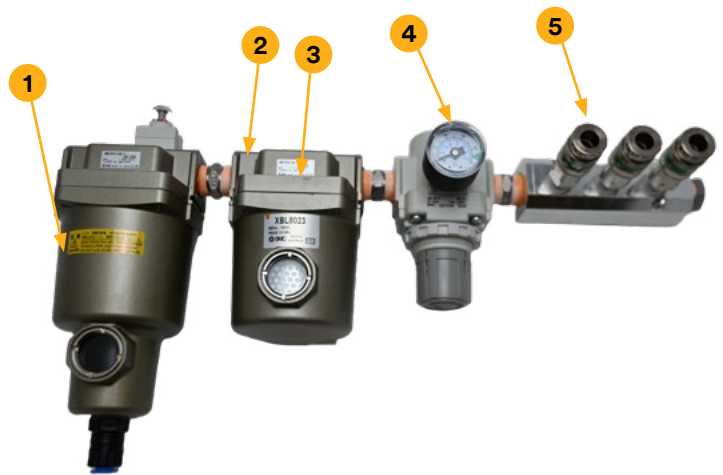
Operation

The pre-filtered air enters the Panel through the AMD 350 oil removing coalescing filter. The air is passed through the borosilicate fibreglass filter element, which removes oil liquid, oil aerosols and particles. The AMD filter is fitted with an internal automatic drain which will discharge any liquid collected by the filter. The purified air passes into the AMF 350 activated carbon adsorption filter which removes any residual oil in vapour form. It is this oil vapour which is the cause of odour and taste sometimes found in breathing air.

The breathing air is then passed through an adjustable, relieving pressure regulator and then to a three outlet discharge manifold.

*The air delivered from the Breathing Air Panel, when operated and maintained correctly will conform with the requirements of Australian Standard AS/NZS 1715.

Note: The Breathing Air Panel will not remove carbon monoxide, carbon dioxide or other toxic gases.



Panel 901-00-47 includes	
Item	Description
1	Coalescing Filter
2	Mounting Bracket
3	Activated Carbon Filter
4	Pressure Regulator
5	3 Outlet Manifold

Maintenance Requirements:

The coalescing filter (901-00-50) is fitted with a 'pop-up' differential pressure indicator. The coalescing filter element should be changed when the indicator is "pops" showing red or at least once per year.

The element in the carbon filter (901-00-49) should be changed whenever any oil odour is detected in the breathing air.

Coalescing Filter

Maximum Inlet Pressure	1000 kPa
Filtration Level	0.01 micron
Replacement Element Part No	901-00-50



Activated Carbon Filter

Maximum Inlet Pressure	1000 kPa
Residual Oil Size	0.003 mg/m3
Replacement Carbon Element	901-00-49



Ordering Information

SAP ID	Legacy ID	Availability		Model #	Description
		AUS	NZ		
7012890154	AT019184335	•		901-00-47	3M™ Supplied Air Breathing Air Panel, 901-00-47 with 3 x CEJN 342 Fittings , 1 ea/Case
7012873605	AT019165854	•		901-00-50	3M™ Supplied Air Breathing Air Panel Filter, 901-00-50, Coalescing Element, 1 ea/Case
7012892343	AT019165847	•		901-00-49	3M™ Supplied Air Breathing Air Panel Filter, 901-00-49, Carbon Element, 1 ea/Case



901-00-54



Accessories

SAP ID	Legacy ID	Availability		Model #	Description
		AUS	NZ		
7012890770	AT019165714	•		901-00-56	3M™ Supplied Air Hose & Hose Assembly, Supplied Air Breathing Hose with CEJN 342 Fittings, 7.5 m, 1 ea/Case
7012886198	AT019165706	•		901-00-55	3M™ Supplied Air Hose & Hose Assembly, Supplied Air Breathing Hose with CEJN 342 Fittings, 10 m, 1 ea/Case
7012913494	AT019165698	•	•	901-00-54	3M™ Supplied Air Hose & Hose Assembly, Supplied Air Breathing Hose with CEJN 342 Fittings, 15 m, 1 ea/Case
7012887764	AT019185233	•		901-00-63	3M™ Supplied Air Hose & Hose Assembly, Supplied Air Breathing Hose with CEJN 342 Fittings, 30 m, 1 ea/Case

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