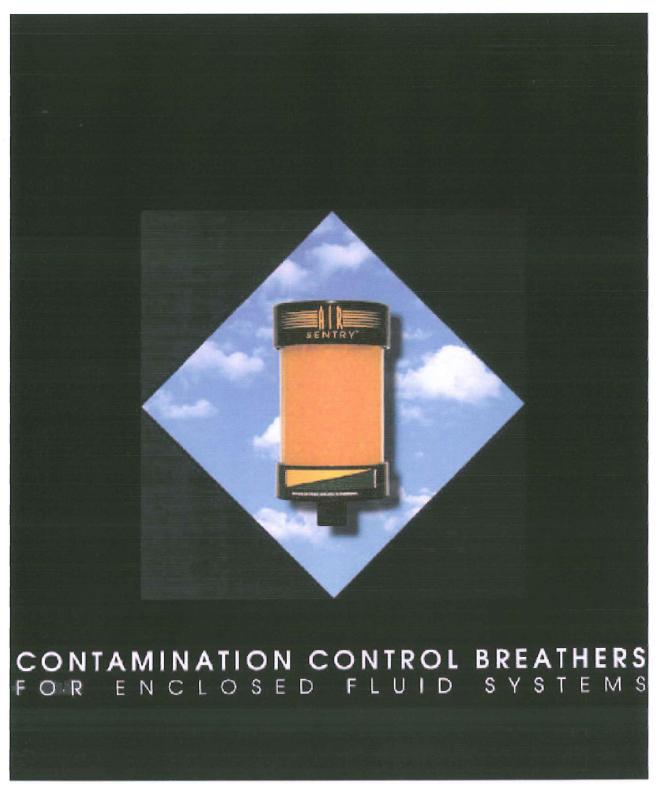
MARKETING INFORMATION



MP FILTRI U.K. Ltd. Bourton Industrial Park - Bourton on the Water Gloucestershire GL54 2HQ - UK

phone 00 44 (0)1451 - 822522 fax 00 44 (0)1451 - 822282 email sales@mpfiltri.co.uk http://www.mpfiltri.com



Registered in England & Wales number · 2142443

A member of the MP Filtri Group · Italy













OPERATIONAL FEATURES

Bi-directional Air Flow - Air entering is cleaned and dried. Expelled air partially regenerates the silica gel and "backflushes" the particulate filter to prolong the life of the breather.

Durable Construction - Air Sentry® is manufactured from rugged ABS plastic and impact-modified Plexiglas.

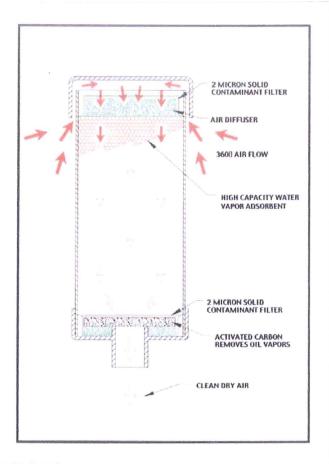
Water Vapor Adsorbent - The silica gel used in Air Sentry® breathers is chemically inert, non-corrosive, and conforms to all regulated toxicity standards in the U.S. and other countries.

Microscopic pores allow the silica gel to adsorb up to 40% of its own weight.

Color Indicator - When maximum adsorption is reached, the silica gel turns from gold to dark green to indicate that replacement of the breather is required.

Activated Carbon - As air is expelled from the tank, it passes through activated carbon which remove oil vapors, fumes, and odors.

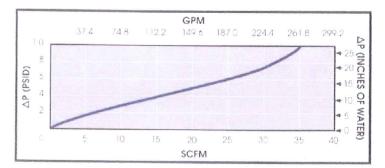
Safety Sealed - Seals keep moisture from entering the units until they are placed in service. They are easily removed without tools or sharp instruments.



PRODUCT SPECIFICATIONS

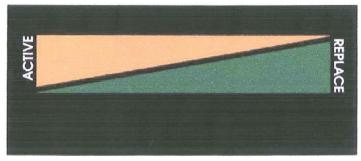
PERFORMANCE	SPECIFICATION				
Nominal Air Flow Rate	35 CFM (990 1/min) Equivalent of 260 gpm of fluid volume change				
Solid Contaminant Filtration Level	2 micron, 100% efficiency @ 35 CFM air flow				
Solid Contaminant Filtration Surface area	20.6 in ² /133 cm ²				
Operating Temperature Range	-20° to 200° F / -28° to 93° C				
Silica Gel: Adsorption Lowest Operational Dew Point	Up to 40% of its weight of water -100° F / -73° C				
Chemical Resistance	Resistant to alkalis, hydrocarbons, non-oxidizing acids, salt water and mineral or synthetic oils				

FLOW RATE VS PRESSURE DROP



All **Air Sentry**® Disposable Models exhibit the same flow rate characteristics.

COLOR INDICATOR



The silica gel turns from gold to dark green, indicating that the breather should be replaced.



DISPOSABLE CONTAMINATION CONTROL BREATHERS

- Removes Corrosive Water Vapor
- Filters Damaging Particles
- Reduces Harmful Contaminants

In any reservoir containing fluids or semisolids, air is breathed in and out as the fluid level changes or as thermal expansion and contraction occurs. Fluid contamination is the primary cause of component wear and lubricant failure in industrial equipment.

Air Sentry® Breathers replace the standard breather cap or vent tube on a tank or reservoir. They are easy to install using one of several adapters designed for different applications.

When the fluid in the system is lowered, or pressure changes occur, air is drawn in through openings under the breather cap. First, air passes through a fine, 2 micron solid particle filter. The air then passes through a diffuser to ensure maximum effectiveness within the silica gel chamber.

Next, water vapor is removed as the air travels through a bed of silica gel - the highest capacity adsorbent available. After being dried, the air passes through a second 2 micron solid particle filter and enters the reservoir **CLEAN AND DRY!**

Contaminant	Problem	Solution		
Water Vapor	Rust & Oxidation Additive Depletion Freezing Increased Conductivity Fluid Degradation	Silica Gel		
Solid Particles	Component Wear Sticking Orifice Blockage	2 Micron Filter		
Acids, Salts, etc.	Chemical Reaction Microbial Growth Overheating Corrosion	2 Micron Filter		

Air Sentry® Breathers use a three-stage filtration design to ensure optimum protection by removing water vapor and solid contaminants before they enter the fluid system.

Air Sentry® products are manufactured under an ISO 9001 Certified Quality System.





GUARDS AGAINST MULTIPLE CONTAMINANTS

- Protects Expensive Equipment
- Increases Operation Efficiency
- Reduces Maintenance Costs

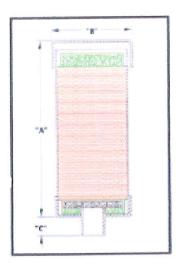
APPLICATION GUIDE

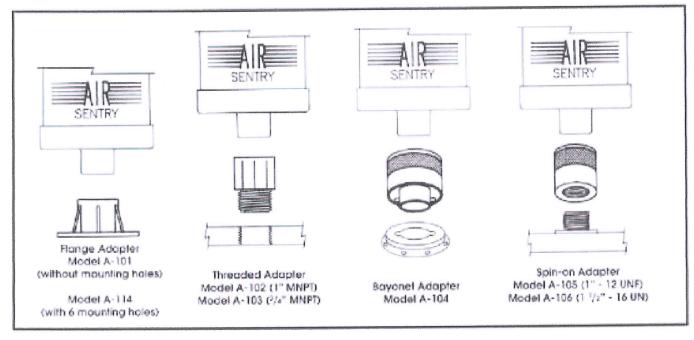
UNIT SELECTION GUIDE

			Bottom	Silica Gel	Atricated	Max. Adsorption	Max. Air	Solid Particle	Type of
			Connection	Weight	Carbon	Capacity	Flow Rate	Filter	Medium by
Model	Height mm	Diameter mm	Size/Type	gms	gms	Fluid ml	(CFM/GPM)	Efficiency	Volume
	Α	В							
D-101	127	127	1" Slip fit	624	N/A	265	35/262	2µ	100% Silica Gel
D-102	203	127	1" Slip fit	1191	N/A	511	35/262	2µ	100% Silica Gel

BSP Adapter Part No. A501 = 1" BSP Male Standard Stck @ MP Filtri UK Limited C = Clearance = 32mm

ADAPTER SELECTION GUIDE





The Air Sentry® product line also includes other breather models that contain fume and odor removing material. Steel construction models are available for very corrosive and high temperature applications with airflow rates up to 300 CFM. Contact your local representative for more information.

Air Sentry® Breathers and certain related fittings are patented in U.S. Patent Numbers: 6,217,63981 • D438,6065 • D439,3185 • D439,644S

