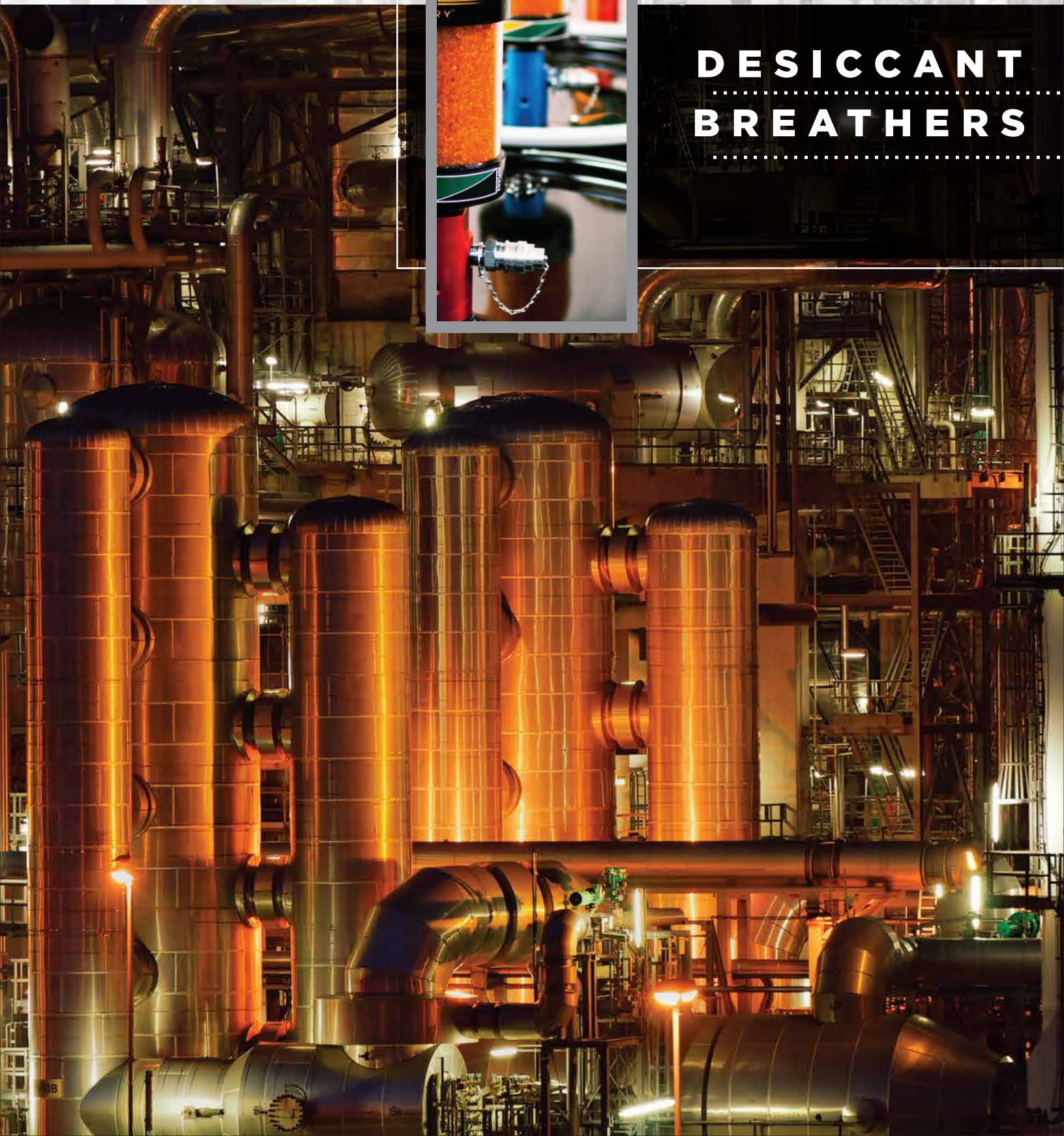
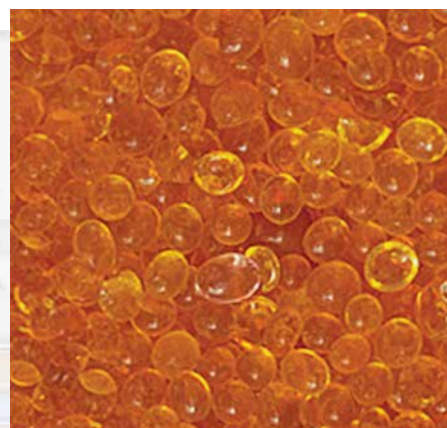


DESICCANT BREATHERS



Air Sentry® set the standard for contamination control breather technology in 1997, creating new state-of-the-art features that reduced particulate and moisture contamination. This innovative breather line was the first to integrate check valve technology and the first to offer replacement desiccant/filter cartridges, significantly reducing maintenance costs.

THE GOLD STANDARD IN CONTAMINATION CONTROL



The clear view 360 degree design makes it easy to inspect the saturation of the color-changing silica gel from a distance. The inert silica gel turns from gold to dark green to visually indicate the adsorption of moisture and confirm the breather is getting the job done.

Air Sentry products cover a wide range of application requirements. The line consists of Good, Better and Best options designed to meet your specific application and duration specifications.

Desiccant Breathers

D-SERIES

D-Series breathers feature numerous models in a variety of sizes, they are fully disposable and designed to satisfy the requirements of most stationary fluid management applications. The breathers provide application flexibility by using 100% silica gel for moisture adsorption. All D-Series models feature 2-micron solid particle filtration and are available with airflow ratings of 20 cfm.



Stationary Applications - Oil Storage Tanks • Fluid Reservoirs • Transformers • Pumps • Gearboxes

Model	Height	Diameter	Mounting Connection	Silica Gel	Maximum Absorption Capacity	Maximum Air Flow	Maximum Reservoir Fluid Flow	Type of Medium
S-154	5 in. 12.7 cm	5 in. 12.7 cm	1" MNPT	1.4 lbs 0.6 kg	8.6 fl oz 254 mL	20 cfm	150 gpm	100% Silica Gel
D-103	8 in. 20.3 cm	5 in. 12.7 cm	1" MNPT	2.7 lbs 1.2 kg	16.56 fl oz 489 mL	20 cfm	150 gpm	100% Silica Gel
D-104	8 in. 20.3 cm	5 in. 12.7 cm	2" MNPT	2.7 lbs 1.2 kg	16.56 fl oz 489 mL	20 cfm	150 gpm	100% Silica Gel
D-108	10 in. 25.4 cm	5 in. 12.7 cm	2" MNPT	3.5 lbs 1.6 kg	21.47 fl oz 634 mL	20 cfm	150 gpm	100% Silica Gel



Z-SERIES

Z-Series breathers are fully disposable and are designed for applications where space is limited or air flow requirements are lower than 5 cfm. The Z-Series is typically used on gearboxes and low fluid volume applications where mounting space is limited or where a larger breather will not fit without remote mounting.

Limited Space Applications - Gearboxes • Drums • Totes • Small Oil Containers

Model	Height	Diameter	Mounting Connection	Silica Gel	Maximum Absorption Capacity	Maximum Air Flow	Maximum Reservoir Fluid Flow	Type of Medium
Z-131	2 in. 5.1 cm	2 in. 5.1 cm	1/2" FNPT	0.08 lbs 0.04 kg	0.49 fl oz 14 mL	5 cfm	37 gpm	100% Silica Gel
Z-132	3.25 in. 8.3 cm	2 in. 5.1 cm	1/2" FNPT	0.1 lbs 0.05 kg	0.92 fl oz 27 mL	5 cfm	37 gpm	100% Silica Gel
Z-133	2 in. 5.1 cm	3.25 in. 8.3 cm	1/2" FNPT	0.3 lbs 0.1 kg	1.84 fl oz 54 mL	5 cfm	37 gpm	100% Silica Gel
Z-134	3.25 in. 8.3 cm	3.25 in. 8.3 cm	1/2" FNPT	0.5 lbs 0.2 kg	3.06 fl oz 90 mL	5 cfm	37 gpm	100% Silica Gel
Z-135	5.5 in. 14.0 cm	3.25 in. 8.3 cm	1/2" FNPT	0.8 lbs 0.4 kg	4.91 fl oz 145 mL	5 cfm	37 gpm	100% Silica Gel

X-SERIES

X-Series Breathers are a better solution for high humidity and high dust environments. This breather series offers replacement cartridges for each breather. To extend desiccant life, the X-Series incorporates two check valves into a reusable top cap. The check valves provide a closed system until airflow is required, thus extending the service life of the desiccant. The intake check valve allows airflow into the breather only when differential pressure between the atmosphere and fluid reservoir exceeds a 0.1-psi threshold (cracking pressure of the check valves). The exhaust check valve permits air to exit the reservoir when the differential pressure exceeds 0.1-psi.



High Humidity/High Dust Applications - Paper Mills • Wash-Down Areas (add GSWDC) • Steam-Cleaning Rooms (add GSWDC) • Mine Quarries



Model	Check Valve PSI In/Out	Height	Diameter	Mounting Connection	Silica Gel	Maximum Absorption Capacity	Maximum Air Flow	Maximum Reservoir Fluid Flow	Type of Medium	Uses Replacement Cartridge
X-100	0.3 in. 0.3 cm	6.25 in. 15.9 cm	3.25 in. 8.3 cm	1/2" FNPT	0.8 lbs 0.4 kg	4.91 fl oz 145 mL	10 cfm	75 gpm	100% Silica Gel	L-143
X-501	0.1 in. 0.1 cm	7 in. 17.8 cm	5 in. 12.7 cm	1" slip fit	1.4 lbs 0.6 kg	8.6 fl oz 254 mL	20 cfm	150 gpm	100% Silica Gel	A-341
X-503	0.1 in. 0.1 cm	7 in. 17.8 cm	5 in. 12.7 cm	1" MNPT	1.4 lbs 0.6 kg	8.6 fl oz 254 mL	20 cfm	150 gpm	100% Silica Gel	A-345
X-505	0.1 in. 0.1 cm	10 in. 25.4 cm	5 in. 12.7 cm	1" MNPT	2.7 lbs 1.2 kg	16.56 fl oz 489 mL	20 cfm	150 gpm	100% Silica Gel	A-346
X-521	0.1 in. 0.1 cm	7 in. 17.8 cm	5 in. 12.7 cm	2" MNPT	1.4 lbs 0.6 kg	8.6 fl oz 254 mL	20 cfm	150 gpm	100% Silica Gel	A-343
X-522	0.1 in. 0.1 cm	10 in. 25.4 cm	5 in. 12.7 cm	2" MNPT	2.7 lbs 1.2 kg	16.56 fl oz 489 mL	20 cfm	150 gpm	100% Silica Gel	A-344



GUARDIAN®

GUARDIAN, Air Sentry's industry leading breather series, features an isolation check valve that keeps exhaust air from depleting the desiccant and protects from volatile fumes and splashing fluids. The GUARDIAN's casing is constructed from Tritan®, a patented material highly resistant to impact and chemicals with a broad range of operating temperatures. These unique features equate to a longer life for your breather and your equipment.



GUARDIAN's modular construction and optional add-on features allow you to customize each Guardian model to your specific application requirements. From the isolation valve, to its stackable design, from its wash-down cap, or its Pressure/Vacuum Gauge, to the high-capacity HEPA filter, the GUARDIAN will last longer and reduce downtime giving you the flexibility you need to protect your industrial assets.

Ideal for Most Applications - The only desiccant breather design that Air Sentry recommends for most fuel applications

BEST



Model	Check Valve PSI In/Out	Height	Diameter	Mounting Connection	Silica Gel	Maximum Absorption Capacity	Maximum Air Flow	Maximum Reservoir Fluid Flow	Type of Medium	Isolation Check Valve	Compound Indicating Gauge	Uses Replacement Cartridge
G5S1N	0.1 in. 0.1 cm	9 in. 22.3 cm	5.125 in.	1" NPT	1.5 lbs 0.68 kg	9.2 fl oz 272 mL	25 cfm	187 gpm	100% Silica Gel	No	No	GRC5S
G5S1NGC	0.1 in. 0.1 cm	9 in. 22.3 cm	5.125 in.	1" NPT	1.5 lbs 0.68 kg	9.2 fl oz 272 mL	25 cfm	187 gpm	100% Silica Gel	Yes	Yes	GRC5SC
G8S1N	0.1 in. 0.1 cm	12 in. 30.5 cm	5.125 in.	1" NPT	2.8 lbs 1.27 kg	17.2 fl oz 508.7 mL	25 cfm	187 gpm	100% Silica Gel	No	No	GRC8S
G8S1NGC	0.1 in. 0.1 cm	12 in. 30.5 cm	5.125 in.	1" NPT	2.8 lbs 1.27 kg	17.2 fl oz 508.7 mL	25 cfm	187 gpm	100% Silica Gel	Yes	Yes	GRC8SC
G12S2N	0.1 in. 0.1 cm	16 in. 40.6 cm	5.125 in.	2" NPT	4.5 lbs 2 kg	27.6 fl oz 816 mL	25 cfm	187 gpm	100% Silica Gel	No	No	GRC12S
G12S2NGC	0.1 in. 0.1 cm	16 in. 40.6 cm	5.125 in.	2" NPT	4.5 lbs 2 kg	27.6 fl oz 816 mL	25 cfm	187 gpm	100% Silica Gel	Yes	Yes	GRC12SC

Guardian Modular Options

HIGH-CAPACITY AIR FILTER - GHCAF

Can be used with a desiccant cartridge or as a standalone particle filter. Its 0.3-micron HEPA filter is 99.97% efficient. Ideal for extremely dirty/dusty environments.



MODULAR STACKABLE RING - GMSR

Stack cartridges to extend the life of breathers using the Modular Stack Ring™. This proprietary feature lengthens the GUARDIAN's service life, reducing cost and maintenance intervals.



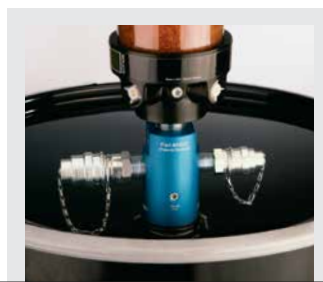
SHIELD WASH-DOWN CAP - GSWDC

The cap provides a barrier in environments where equipment wash down happens frequently. This prevents any direct spray from opening check valves in the top cap. It's designed for use in food processing, mining operations, pulp and paper facilities and outdoors.



INTEGRATED COMPOUND VACUUM/PRESSURE GAUGE - A655

This proprietary feature is an accurate indicator of filter conditions.



Adapter Add Ons

DRUM ADAPTER KIT

Drum Adapter Kits allow breathers to be installed on any storage tank or drum; there's never been a cleaner, more effective way to store, filter and pump lubricants from a drum. The unique design ensures all fluid handling is managed through one adapter.

HYDRAULIC RESERVOIR ADAPTER KIT

Hydraulic Reservoir Adapter Kits allow breathers to be installed on any hydraulic fluid tank or reservoir. The aluminum adapters have quick connects in two sizes for pumping oil in and out, allowing the system to remain closed at all times, dramatically reducing contamination while improving oil-handling safety.

GEARBOX ADAPTER KIT

Allows breathers to be installed on any gearbox. Oil can be pumped in or out without opening the gearbox to atmosphere. Offline filtration, oil changes and sampling can be handled through the adapter.

DOMED FLANGE ADAPTER KIT

Provides a low profile yet rugged way to mount a 1" NPT desiccant breather to a hydraulic reservoir.

SPLASH ADAPTER

Fits applications where splashing fluids can exit the reservoir and hit the bottom of a desiccant breather. Ideal for mobile equipment.



Contact us or visit airsentry.com to learn more about other models not listed and other configuration options. Some adapters are sold with a breather; some are sold separately.

Established in 1893, Whitmore is a global leader in providing innovative products and services that increase the reliability, performance and lifespan of industrial assets. Whitmore manufactures reliability products, high-performance lubricants, friction modifiers, application and inspection equipment, lubrication management systems, coatings and cleaners designed to meet the specific needs of each industry and application. Industrial customers worldwide rely on Whitmore to deliver the performance engineered solutions industry counts on, even in the most adverse conditions and demanding environments.

Whitmore maintains an industry-leading reputation for high-quality products and customer service. Its family of products and services are sold worldwide through a distribution network committed to technical support and total customer satisfaction.

Whitmore is headquartered in Rockwall, Texas, and includes a fully integrated manufacturing plant, leading-edge research and development center, training facility and corporate offices.



Air Sentry is a product line of Whitmore.

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