



***AIR SENTRY***

# **DESICCANT BREATHERS**

**Extending fluid life saves money and downtime**

***GUARDIAN  
BREATHERS***

*There is no such  
thing as  
too much reliability*



# GUARDIAN™

A new life – A new standard

## Typical Applications:

- Hydraulic Systems
- Gearboxes
- Fuel Tanks
- Remote equipment  
(wind turbines, off-shore platforms...)



**Guardian Activated Carbon replacement with/without valve.**



## SOLUTION...

### Guardian Breathers!

- More desiccant.
- Check valve technology.
- Exhaust air vented to atmosphere, not back through the desiccant.
- Modular cartridge design lowers replacement costs by over 60%.

Two main factors determine breather life:

- The quantity of desiccant and
- How effectively the desiccant is isolated from ambient conditions.

## 4 Exclusive Advancements:

- Tritan Construction
- Isolation Check Valve
- Compound Vacuum and Pressure Gauge
- Guardian Breathers are Stackable



- 1 = Wash down cap**  
Designed for dusty/dirty environments
- 2 = Top cap + check valves**  
Ensures adsorbent treats only air
- 3 = High capacity air Filter**  
Keeps particulate out true HEPA filtration
- 4 = Modular stacking ring**  
Allows additional cartridges for 2<sup>nd</sup> protection
- 5 = Replacement cartridge**  
Helps reduce waste and maintenance costs
- 6 = Bottom cap + check valves**  
Exhaust air does not pass back
- 7 = Compound pressure gauge**  
Additional visual indicator



**Guardian Specification - All Guardian™ models contain a 2-micron filter**

Model	Height x Diameter Inch	Mounting Connection	Silica Gel	Adsorption	Type of Medium	Max. Air Flow / Fluid Flow	Check Valve / Indic. Gauge	Repl. Cartridges
G5	9 x 5,125	1", 2" NPT, 1"BSP	1.5 lbs	9,2 fl oz	Silica Gel, Carbon	25 cfm/187 gpm	Optional	Yes
G8	12 x 5,125	1", 2" NPT, 1"BSP	2.8 lbs	17,2 fl oz				
G12	16 x 5,125	1", 2" NPT, 1"BSP	4.5 lbs	27,6 fl oz				

## D-SERIES

### Disposable stationary applications



Air Sentry D-Series Breathers provide application flexibility by using:

- 100% silica gel for moisture adsorption or
- 100% activated carbon for fume and odor control, or
- Both when necessary.



*Silica gel adsorbs 40% of its weight in moisture*

The D-Series easily replaces the standard vent / filler cap.

#### Typical Applications:

- Fluid Reservoirs
- Transformers
- Storage Tanks
- Gearboxes
- Pumps



*Smelting Plant*

#### Selection Chart Desiccant Breathers (Model D) - Disposable stationary applications

Model	Height x Diameter Inch	Mounting Connection	Silica Gel	Adsorption	Type of Medium	Max. Air Flow / Fluid Flow	Repl. Cartridges
D-100	3,5 x 5,0	1"slip fit	0,8 lbs	4,91 fl oz	100% silica gel	20 cfm / 150 gpm	N
D-101	5,0 x 5,0	1"slip fit	1,4 lbs	8,60 fl oz			N
D-102	8,0 x 5,0	1"slip fit	2,7 lbs	16,56 fl oz			N
D-103	8,0 x 5,0	1" MNPT	2,7 lbs	16,56 fl oz			N
D-104	8,0 x 5,0	2" MNPT	2.7 lbs	16,56 fl oz			N
D-108	10,0 x 5,0	2" MNPT	3.5 lbs	21,47 fl oz			N
D-109	14,0 x 6,0	3" MNPT	3,5 lbs	21,47 fl oz			A-117
D-2	10,0 x 5,0	2"FNPT	3.5 lbs	21,47 fl oz			N

# X-SERIES

## High Humidity / High Dust

13 Standard Models



### Typical Applications:

- Steam Cleaning Rooms
- Wash-down Areas
- Mine Quarries
- Paper Mills

What to do when gold silica gel turns dark green:

- Remove the reusable top cap from the bottom desiccant cartridge.
- Dispose of the spent dark green desiccant cartridge.
- Use the same top cap with a replacement cartridge.



### Waste water treatment



### Selection Chart Desiccant Breathers (Model X) - High Humidity/Dust Applications

Model	Height x Diameter Inch	Mounting Connection	Silica Gel	Check Valve PSI In/Out	Adsorption	Type of Medium	Max. Air Flow/ Fluid Flow	Repl. Cartridges
X-100	6,25x3,25	1/2" FNPT	0,8 lbs	0,3/0,3	4,91 fl oz	100% Silica Gel	10 cfm/75 gpm	L-143
X-101	7,00 x 5,00	1" slip fit	1,4 lbs	0,1/2,0	8,60 fl oz		20 cfm/150 gpm	A-341
X-102	10,00 x 5,00	1" slip fit	2,7 lbs	0,1/2,0	16,56 fl oz			A-342
X-103	7,00 x 5,00	1" MNPT	1,4 lbs	0,1/2,0	8,60 fl oz			A-345
X-105	10,00 x 5,00	1" MNPT	2,7 lbs	0,1/2,0	16,56 fl oz			A-346
X-121	7,00 x 5,00	2" MNPT	1,4 lbs	0,1/2,0	8,60 fl oz			A-343
X-122	10,00 x 5,00	2" MNPT	2,7 lbs	0,1/2,0	16,56 fl oz			A-344
X-501	7,00 x 5,00	1" slip fit	1,4 lbs	0,1/0,1	8,60 fl oz			A-341
X-502	10,00 x 5,00	1" slip fit	2,7 lbs	0,1/0,1	16,56 fl oz			A-342
X-503	7,00 x 5,00	1" MNPT	1,4 lbs	0,1/0,1	8,60 fl oz			A-345
X-505	10,00 x 5,00	1" MNPT	2,7 lbs	0,1/0,1	16,56 fl oz			A-346
X-521	7,00 x 5,00	2" MNPT	1,4 lbs	0,1/0,1	8,60 fl oz			A-343
X-522	10,00 x 5,00	2" MNPT	2,7 lbs	0,1/0,1	16,56 fl oz			A-344



# Z-SERIES

## Limited Space Applications

5 Standard  
5 Standard  
Models



### Key features

- **Silica gel** removes up to 95% of moisture from incoming air
- **Filtration media** blocks airborne particles down to 2 micron. Particles include dust, saw dust, coal, powder, cement, ash, lent fiber, clay, etc.

### Typical Applications:

- Small Oil Containers
- Oil Storage Systems
- Gearboxes
- Drums
- Totes

Air Sentry Breathers **reduce** maintenance costs and improve system reliability!

**Longer  
Service  
Life**

**Reduced  
Fluid  
Cost**

**Longer  
Fluid  
Life**

**Reduced  
Down-  
time**



### Selection Chart Desiccant Breathers (Model Z) - Limited Space Applications

Model	Height x Diameter Inch	Mounting Connection	Silica Gel	Adsorption	Type of Medium	Max. Air Flow/ Fluid Flow
Z-131	2,00 x 2,00	1/2" FNPT	0,08 lbs	0,49 fl oz	100% Silica Gel	5 cfm/37 gpm
Z-132	3,25 x 2,00	1/2" FNPT	0,10 lbs	0,92 fl oz		
Z-133	2,00 x 3,25	1/2" FNPT	0,30 lbs	1,84 fl oz		
Z-134	3,25 x 3,25	1/2" FNPT	0,50 lbs	3,06 fl oz		
Z-135	5,50 x 3,25	1/2" FNPT	0,80 lbs	4,91 fl oz		

# M-R-XR-SERIES

## Heavy duty - High vibration - Extreme environment

### M-Series (Heavy Duty Applications)

	M-Series
Basic Models	5
Height	6,6"-12,0"-13,5"
Diameter	10.0" - 16,0"
Mounting Connection	1", 2", 3" MNPT
Silica Gel	2,1-4,5-22,0 lbs
Adsorption	12,88-2,60-134,96 fl oz
Medium	100% silica gel
Max. airflow/fluid flow	35 cfm/262 gpm, 120 cfm/900 gpm, 300 cfm/2250 gpm



#### Typical Applications:

- Off-road equipment
- Mobile equipment
- Corrosive chemicals
- High temperatures

### R-Series (High Vibration Applications)



#### Typical Applications:

- Wind Mills
- Wind Power
- Mining Equipment
- Mobile Equipment

	R-Series
Basic Models	8
Height	5,0"-6,5"-9,5"-12,0"
Diameter	5,2"
Mounting Connection	1", 2" MNPT, 1,125" female thread
Silica Gel	0,8-1,4-2,7-3,5 lbs
Adsorption	4,91-8.6-16,56-21,47 fl oz
Medium	100% silica gel
Max. airflow/fluid flow	25 cfm/187 gpm
Repl. Cartridges	yes

### XR-Series (Extreme Environment Applications)

	XR-Series
Basic Models	10
Height	8,5"-11,5"-14,0"
Diameter	5,2"
Mounting Connection	1", 2" MNPT
Silica Gel	1,4-2,7-3,5 lbs
Check valve PSI in/out	0.1/2.0
Adsorption	8.6-16,56-21,47 fl oz
Medium	100% silica gel
Max. airflow/fluid flow	25 cfm/187 gpm
Repl. Cartridges	yes



#### Typical Applications:

- Small Oil Containers
- Oil Storage Systems
- Gearboxes
- Drums
- Totes

# COLORGUARD®

**Identifies contents and keeps them contained**

**Color coding helps prevent lubricant cross contamination.**



**ColorGuard™** is a family of desiccant breather mounting adapter. The adapters are anodized aluminum in 8 popular colors.



## Air Sentry® Breather Adapters



**PVA Adapter allows monitoring of a breather performance on critical equipment.**



**ISO Cleanliness Standards are easily maintained with the Air Sentry® Drum Adapter**



**The Manifold Adapter Kit is recommended when air flow requirements exceed the CFM rating of a single desiccant breather**





# BREATHER ADAPTERS

For easy installation

Bayonet  
adapters

Flange  
adapter

Threaded  
metal  
adapters

Threaded  
adapters

Standard  
NPT  
adapters

Threaded  
spin-on  
adapters



For detailed information on adapters, please visit  
our website [www.enluse.com](http://www.enluse.com)

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