

Falk AirMax & AirMaxPlus

Minimize Wear and Optimize Drive Life





AIRMAX Plus
FKK

AirMax & AirMaxPlus

Moisture and Particulate Protection for Enclosed Gear Drives

A leading cause of gearbox failure is lubricant contamination or corrosion inside the box from intrusion of moisture or particulate. Keeping the inside of the gearbox sufficiently clean and free of these harmful materials is critical to long life operation. AirMax® and AirMax® Plus™ gearbox breathers provide the level of protection you need for your critical investment.

Whatever your needs, there is a Falk AirMax breather to protect your gearbox.

AirMax

For years the AirMax filter has supplied excellent protection: the media prevents moisture and particulate contamination from entering the gearbox, providing 97% efficiency at 3 microns with very low pressure drops.

AirMaxPlus AM-2

The AirMax Plus AM-2 includes a desiccant material that absorbs water and protects against moisture intrusion, even more fully than the traditional AirMax. It includes a color indicator system for easy replacement identification.

AirMaxPlus AM-HG

The AirMax Plus AM-HG takes filtration to a new level. In addition to the desiccant and particulate filtration, the AM-HG has an expansion chamber that isolates lubricants from all levels of ambient humidity and a check valve to ensure no excess pressure/vacuum builds.





AirMax

Contamination Protection for Continuous Running

In typical gear drive operation, the lubricant is warmer than the ambient air, but after the it's shut down, the temperature inside it begins to equalize with the ambient air. During this process, humid air enters the gear drive through a non-filtered breather. The moisture that enters can condense on the cooler inner walls of the gear drive causing rust-forming condensation, which will contaminate its oil.

This is where the AirMax breather is most effective - its filtered medium prevents this moisture from entering and greatly reduces the relative humidity inside the gear drive.

A Rugged Performer

The AirMax breather is designed to withstand even the most rugged environments and has an operating temperature range of -40° to +200° F (-40° to +93° C). The filter housing is designed to protect the proprietary media from all external elements. In addition, the internal medial surface incorporates a layer of oil attractant, which coalesces the oil gasses into droplets and is returned to the drive gravitationally.

Key Benefits

- Prevents moisture ingress into the gear drive
- Allows moisture to exit the gear drive
- Improved lubricant performance, reducing downtime and repair costs
- Long life

Features

- 97% efficient at 3 microns
- Corrosion-resistant ABS plastic housing
- Structural stiffeners around the core prevents filter media distortion



Simple, Dependable Lubricant Protection

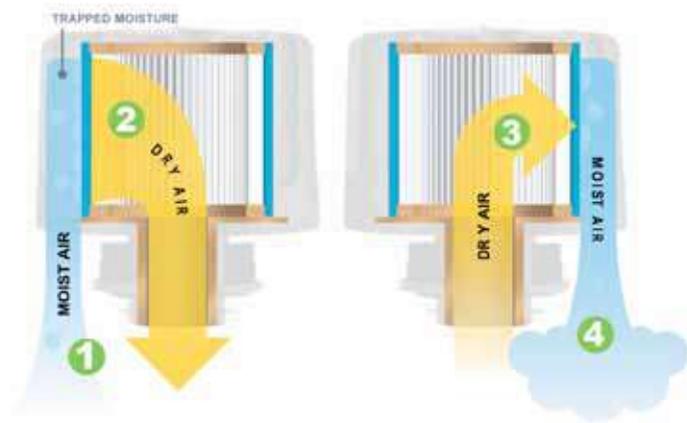


How it Works: AirMax Breather Operates as a Gate to Prevent Moisture from Entering the Gear Drive

During the "inhalation" cycle, the AirMax media blocks moisture from entering the gear drive. During the "exhalation" cycle, the breather allows unrestricted airflow outward and fully regenerates the breathers moisture holding capacity. The moisture is combined with the exiting air, therefore permanently removing it from the gear drive.

In typical operation, the lubricant is warmer than the ambient air, but after the drive is shut down, the temperature inside the drive begins to equalize with the ambient air. During this stage, using a non-filtered vented oil level dipstick, the humid air will enter the gear drive. The moisture that enters will condense on the cooler inner walls of the gear drive, which contaminates the lubricant. This is where the AirMax breather is most effective – it prevents moisture from entering the gear drive and reduces its relative humidity.

NOTE: AirMax is to be used with gear drives in operation only (not suitable for gear drives in storage). Also, the gear drive should be restricted to breathe only through the breather (use a non-vented oil level dipstick). Contact Rexnord for available sealed dipstick options.



INTAKE CYCLE (INHALATION)

- 1 The circuit "breathes in" air containing moisture vapor.
- 2 The breather strips moisture and particulates from the incoming air, allowing only clean, dry air to enter the gear drive.

OUTFLOW CYCLE (EXHALATION)

- 3 During the "exhalation" cycle, The breather allows unrestricted airflow outward.
- 4 The outflow of dry air picks up the moisture collected by the breather during the intake cycle and exhausts it - fully regenerating the breather's water-holding capacity.

Specifications	AirMax
Height	4.52 inches / 114.81 mm
Diameter	4.50 inches / 114.30 mm
Shipping Weight (unit)	0.73 lbs / 0.33 kgs
Amount of Silica Gel	Embedded in Medium
Max. Flow Rate (cfm)	45 cfm / 1274 lpm
Filtration	3 micro-m
Operating Temp. Range	-40° F to +200° F -40° C to +93° C
Hydrophilic Agent	Silica Gel
Filter Media	Polyester
Connection Size	1" NPT
Body Material	ABS Plastic
Replacement	6 Months
Part #	10197099



AirMaxPlus AM-2

Protects Against Moisture for Intermittent Running

The AM-2 is built to stand up to the wide variety of applications that can take advantage of the AirMax Plus moisture and contamination control features.

Easy to Maintain

The breather is outfitted with an expansion chamber to isolate lubricants from all levels of ambient humidity. A clear, rugged polycarbonate casing allows for viewing desiccant as it changes color, indicating that the breather should be replaced.

AirMax Plus AM-2 breathers attack the source of allowing your equipment and lubricants to run longer and harder.

Key Benefits

- Prevents moisture ingress into the gear drive
- Easy to identify when filter needs to be changed based on color changes
- Improved lubricant performance, reducing downtime and repair costs
- Long life

Features

- Bi-directional controlled airflow
- Strong polycarbonate housing
- Vapor-absorbent desiccant material
- Scheduled changeout every year or as indicated by desiccant color change



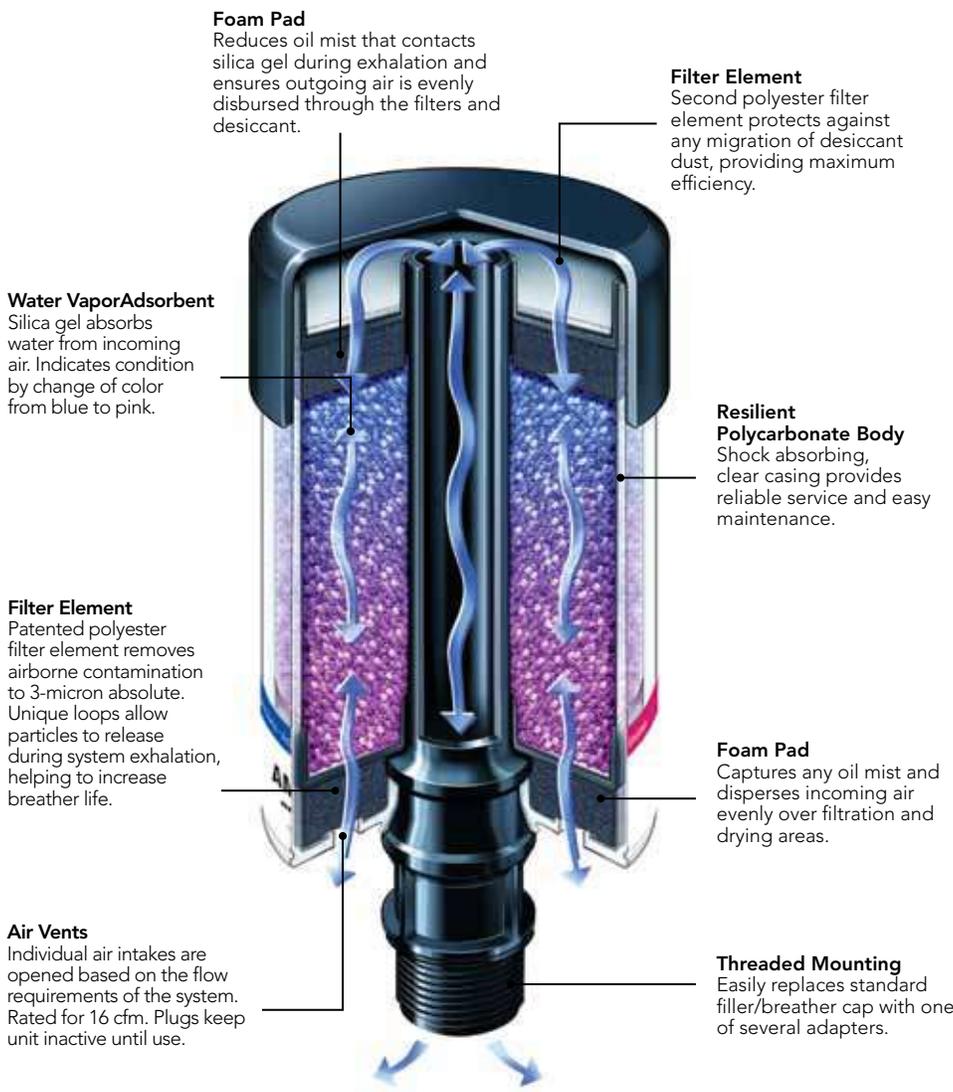
Simple, Dependable Lubricant Protection



How it Works: As wet, dirty air is drawn through the unit, multiple 3-micron polyester filter elements remove solid particulate, and the color-indicating silica gel extracts moisture.

When air is expelled from the container, the top foam pad prevents oil mist from contacting silica gel or entering the atmosphere.

The breather is outfitted with a resilient nylon standpipe and a clear polycarbonate body which allows for easy monitoring of the high-contrast silica gel.



Model Number	AM-2
Height	6.125 inches / 155.6 mm
Diameter	4 inches / 101.6 mm
Shipping Weight (unit)	1.21 lbs .055 kg
Amount of Desiccant	.66 lbs / 0.30 kg
Adsorption Capacity	4 fl oz. / 118.2 mL
Max. Flow Rate	
(cfm)	16 @ 1 PSID
(lpm)	453
Filtration ($\beta_{3>200}$)	3u absolute
Operating Temp. Range	-20° F to 200° F -29° C to 93° C
Hydrophilic Agent	Silica Gel
Filter Media	Polyester
Connection Size	1 inch threaded
Body Material	Polyester
Part #	2931427



AirMaxPlus AM-HG

The Best Protection for Washdown and High Humidity Applications

The AM-HG is the most advanced AirMax Plus filter, providing the highest level of moisture and contamination control features. The AM-HG adds an expansion chamber system with diaphragm and check valves to the high level of moisture and contaminant protection found in other AirMax filters.

AirMax Plus AM-HG breathers attack the source of contamination, allowing your gearbox and lubricants to run longer with reduced maintenance and downtime.

Comes in two sizes for small and large volume applications.

Key Benefits

- Prevents moisture ingress into the gear drive
- Easy to identify when filter needs to be replaced based on color changes
- Improved lubricant performance, reducing downtime and repair costs
- Eliminates rust-forming condensation
- Prevents sludge deposits and water-contaminated oil
- Long life

Features

- Bi-directional controlled airflow
- Strong polycarbonate housing
- Vapor-absorbent desiccant material
- Ideal for washdown and high humidity applications
- Check valves ensure no excess pressure or vacuum builds
- Scheduled changeout every year or as indicated by desiccant color change



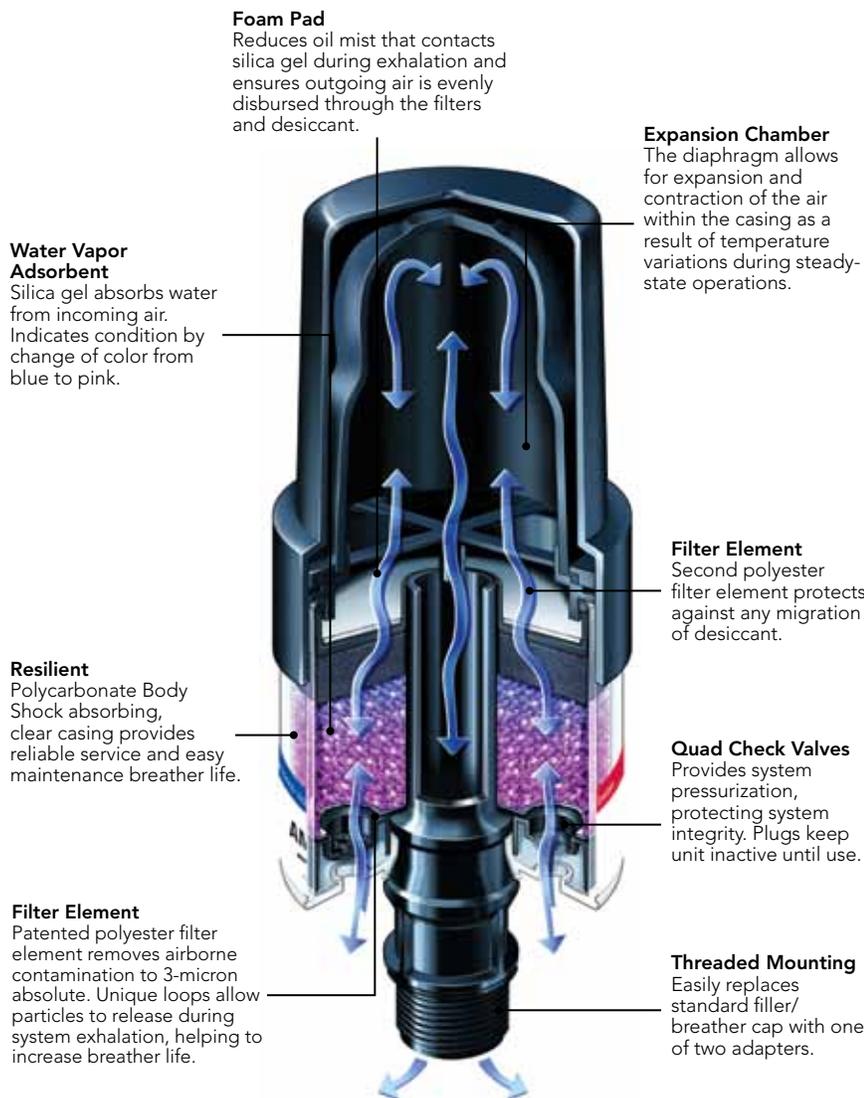
Simple, Dependable Lubricant Protection



How it Works: As wet, dirty air is drawn through the unit, multiple 3-micron polyester filter elements remove solid particulate, and the color-indicating silica gel extracts moisture.

The diaphragm allows for expansion/contraction of the air within the casing as a result of temperature variations during steady-state operations.

When air is expelled from the container, the top foam pad prevents oil mist from contacting silica gel or entering the atmosphere. The hygroscopic agent is partially reactivated by the dry air passing back through.



Model Number	HG-1	HG-8
Height	7.22 inches / 183 mm	9.75 inches / 247.6 mm
Diameter	2.52 inches / 64 mm	4.1 inches / 104.1 mm
Shipping Weight (unit)	.58 lbs .26 kg	1.81 lbs .82 kg
Amount of Desiccant	0.28lbs / .125 kg	.053 lbs / 0.24 kg
Adsorption Capacity	1.68 fl oz. / 49.6 mL	4.05 fl oz. / 120 mL
Max. Flow Rate (cfm) (lpm)	1.41 @ PSID 39.93	2.5 @ 1 PSID 70.5
Filtration ($\beta_{3>200}$)	3u absolute	3u absolute
Operating Temp. Range	-20° F to 200° F -29° C to 93° C	-20° F to 200° F -29° C to 93° C
Hydrophilic Agent	Silica Gel	Silica Gel
Filter Media	Polyester	Polyester
Connection Size	3/8 inches threaded	1 inch threaded
Body Material	Polyester	Polyester
Part #	2932619	2930751

Continuous Running

Washdown	Air Volume		AirMax	AirMax Plus AM-2	AirMax Plus AM-HG-1	AirMax Plus AM-HG-8
Yes					√	√
No	> 200 ft ³		•			√
	< 200 ft ³	High Contamination - Low Humidity	√	•		•
		High Contamination - Average Humidity	√		√	√
		High Contamination - High Humidity	•		√	√
		Normal	•	√		

- √ Recommended
- Acceptable

AirMaxPlus AM-HG 1 —

AirMaxPlus AM-2 —

AirMax —



Intermittent Running

Washdown	Air Volume		AirMax	AirMax Plus AM-2	AirMax Plus AM-HG-1	AirMax Plus AM-HG-8
Yes					√	√
No	> 200 ft ³					√
	< 200 ft ³	High Contamination - Low Humidity		√		•
		High Contamination - Average Humidity		√	√	√
		High Contamination - High Humidity		•	√	√
	Normal			√		

- √ Recommended
- Acceptable



— AirMaxPlus AM-HG-8



866-REXNORD/866-739-6673 (Within the US)
414-643-2366 (Outside the US)
www.rexnord.com

Why Choose Rexnord?

When it comes to providing highly engineered products that improve productivity and efficiency for industrial applications worldwide, Rexnord is the most reliable in the industry. Commitment to customer satisfaction and superior value extend across every business function.

Delivering Lowest Total Cost of Ownership

The highest quality products are designed to help prevent equipment downtime and increase productivity and dependable operation.

Valuable Expertise

An extensive product offering is accompanied by global sales specialists, customer service and maintenance support teams, available anytime.

Solutions to Enhance Ease of Doing Business

Commitment to operational excellence ensures the right products at the right place at the right time.

Rexnord Corporation

Rexnord is a growth-oriented, multi-platform industrial company with leading market shares and highly trusted brands that serve a diverse array of global end markets.

Process and Motion Control

The Rexnord Process and Motion Control platform designs, manufactures, markets and services specified, highly engineered mechanical components used within complex systems where our customers' reliability requirements and the cost of failure or downtime are extremely high.

Water Management

The Rexnord Water Management platform designs, procures, manufactures and markets products that provide and enhance water quality, safety, flow control and conservation.

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