

Falk™ AirMax® & AirMax® Plus

Minimize Wear
and Optimize Drive Life

Gear Product Brochure



FALK

REXNORD



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 99.7% efficiency at 3 microns with very low pressure drops.

AirMaxPlus AM-2

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

AirMaxPlus AM-HG-8

The new AirMax Plus AM-HG-8 takes filtration to a new level. In addition to the desiccant and particulate filtration, the AM-HG-8 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 operating systems, 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 process, the humid air enters the gear drive through the breather. The moisture that enters can condense on the cooler inner walls of the gear drive causing rust-forming condensation, which contaminates the lubricant.

That's where the AirMax breather is more effective. It prevents this moisture from entering and stabilizes the relative humidity inside the gearbox.

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 droplets.

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

- 99.7% efficient at 3 microns
- Corrosion-resistant ABS plastic housing
- Plated steel core prevents media distortion
- Scheduled changeout every two years



Simple, Dependable Lubricant Protection

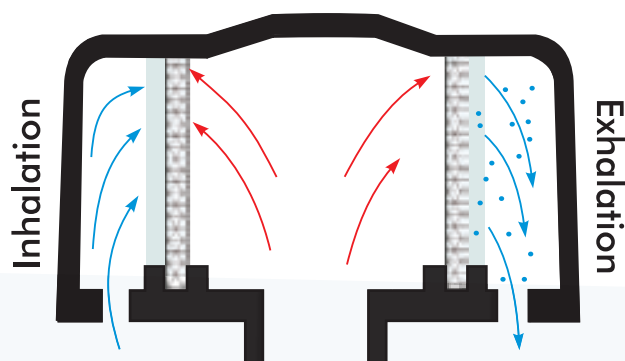
How it Works

AirMax Breather Performs 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 media allows the moisture in the gear drive to exit. The moisture is carried off the media by the exiting air, therefore permanently removing it from the gear drive.

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



Model Number	AirMax
Height	7.25" / 184.2 cm
Diameter	5.25" / 133.4 cm
Shipping Weight (unit)	21 lb. 2 oz.
Amount of Silica Gel	Embedded in Filter Media
Max. Flow Rate (cfm)	25 @ 1 PSID
Filtration	3u absolute
Operating Temp. Range	-20°F to 200°F -29°C to 93°C
Hydrophilic Agent	Silica Gel
Filter Media	Polyester
Connection Size	7/8"
Body Material	ABS Plastic
Part #	6721116

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. Check valves ensure no excess pressure/vacuum builds.

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.

Foam Pad

Reduces oil mist that contacts silica gel during exhalation and ensures outgoing air is evenly disbursed through the filters and desiccant.

Water Vapor Adsorbent

Silica gel absorbs water from incoming air. Indicates condition by change of color from blue to pink.

Filter Element

Patented polyester filter element removes airborne contamination to 3-micron absolute. Unique loops allow particles to release during system exhalation, helping to increase breather life.

Air Vents

Individual air intakes are opened based on the flow requirements of the system. Rated for 16 cfm. Plugs keep unit inactive until use.

Filter Element

Second polyester filter element protects against any migration of desiccant dust, providing maximum efficiency.

Resilient Polycarbonate Body

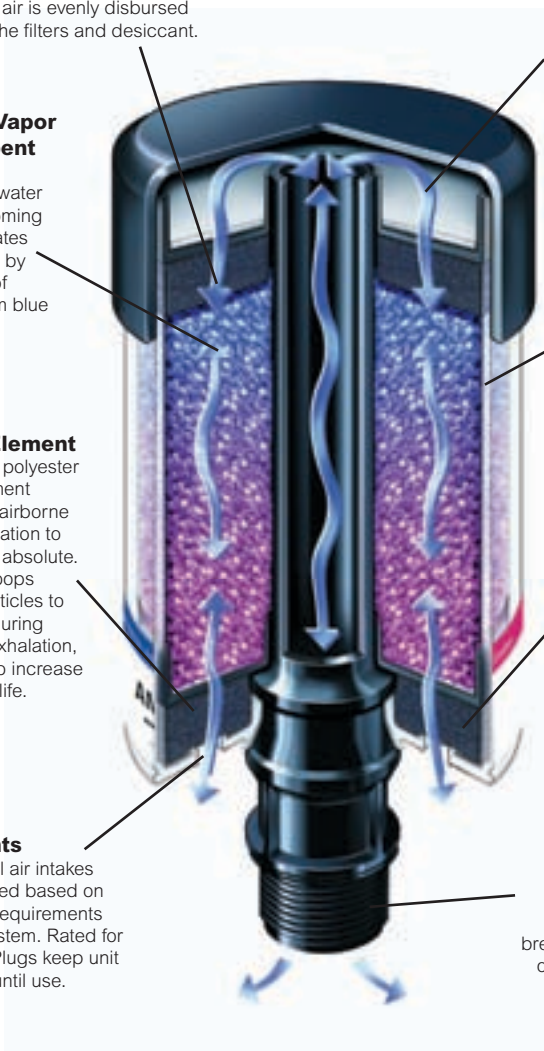
Shock absorbing, clear casing provides reliable service and easy maintenance.

Foam Pad

Captures any oil mist and disperses incoming air evenly over filtration and drying areas.

Threaded Mounting

Easily replaces standard filler/breather cap with one of several adapters.



Model Number	AM-2
Height	6.125" / 155.6 mm
Diameter	4" / 101.6 mm
Shipping Weight (unit)	1.21 lbs / 7.73 lbs .055 kg / 3.51 kg
Amount of Silica Gel	.066 lbs / 0.30 kg
Adsorption Capacity	4 fl oz. / 118.2 mL
Max. Flow Rate	
(cfm)	16 @ 1 PSID
(lpm)	453
Filtration	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" threaded
Body Material	Polyester
Part #	2931427

AirMaxPlus AM-HG-8

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

The Best Protection for Washdown and High Humidity Applications

The AM-HG-8 is the most advanced AirMax Plus filter, providing the highest level of moisture and contamination control features. The AM-HG-8 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-8 breathers attack the source of contamination, allowing your gearbox and lubricants to run longer with reduced maintenance and downtime.



Advanced System 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.



Foam Pad

Reduces oil mist exhalation. Ensures outgoing air is evenly disbursed through the filters and desiccant, providing maximum efficiency.

Water Vapor Adsorbent

Silica gel absorbs water from incoming air. Indicates condition by change of color from blue to pink.

Resilient Polycarbonate Body

Shock absorbing, clear casing provides reliable service and easy maintenance breather life.

Filter Element

Patented polyester filter element removes airborne contamination to 3-micron absolute. Unique loops allow particles to release during system exhalation, helping to increase breather life.

Expansion Chamber

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

Filter Element

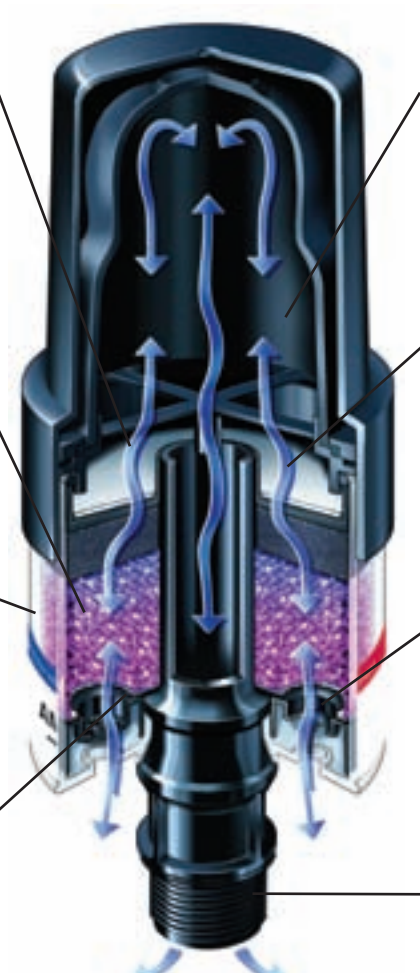
Second polyester filter element protects against any migration of desiccant.

Quad Check Valves

Provides system pressurization, protecting system integrity. Plugs keep unit inactive until use.

Threaded Mounting

Easily replaces standard filler/breather cap with one of two adapters.



Model Number	HG-8
Height	9.75" / 247.6 mm
Diameter	4.1" / 104.1 mm
Shipping Weight (unit)	1.81 lbs / 11 lbs .82 kg / 4.92 kg
Amount of Silica Gel	.065 lbs / 0.24 kg
Adsorption Capacity	4.05 fl. oz. / 120 mL
Max. Flow Rate	
(cfm)	2.5 @ 1 PSID
(lpm)	70.5
Filtration	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" threaded
Body Material	Polyester
Part #	2930751

Continuous Running

Washdown	Air Volume		AirMax	AirMax Plus AM-2	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-2 —



Intermittent Running

Washdown	Air Volume		AirMax	AirMax Plus AM-2	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



AirMax



GEAR



CHAIN



BEARINGS



COUPLINGS

Rexnord is a global, multi-platform industrial company that serves a wide variety of mission-critical industries. Our diverse line of highly engineered power transmission products provide an array of key systems components including bearings, couplings, gears, modular conveyor belting and industrial chain, all designed for the toughest applications. Customers worldwide have consistently relied on Rexnord's efficiency, knowledge and experience to deliver dependable solutions at the lowest total cost of ownership.

