

Gardner Denver

FILTRATION PRODUCTS

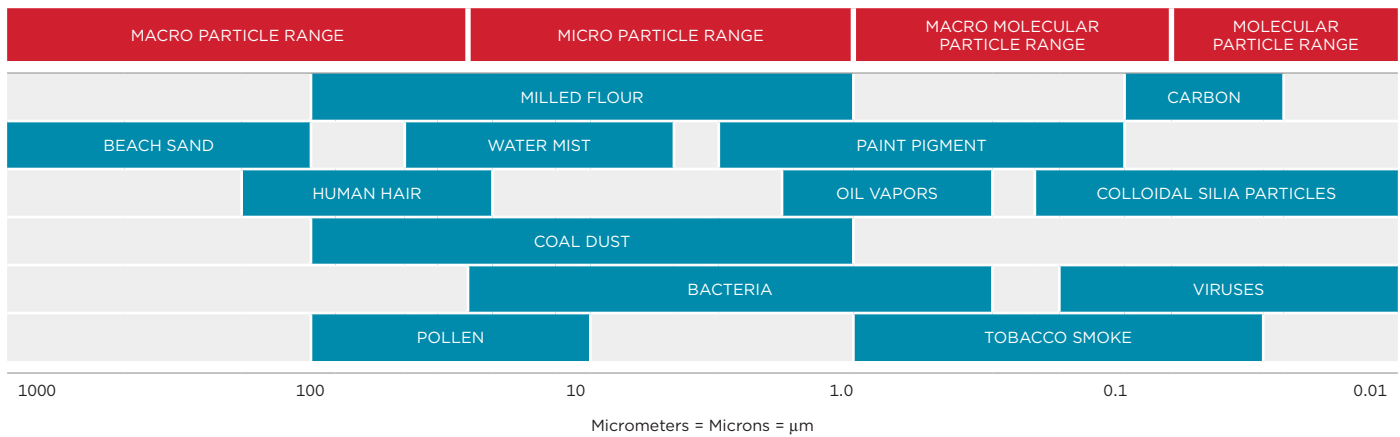
GIL Series



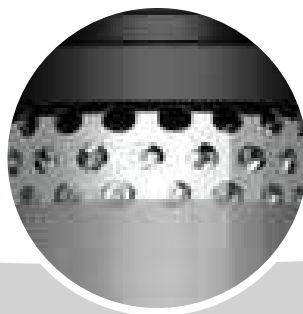
Why is Compressed Air Filtration Required?

The air around you is full of tiny particles that are potentially harmful to the equipment in your operation. These particles can be composed of many different things, but the primary culprits are dust, bacteria, fumes, hydrocarbons, water and oil. The vast majority of these contaminants are so small that they will easily pass through the intake filter of your air compressor. When your air compressor draws this atmospheric air into the aircend and compresses it to 100 PSIG, the concentration of contaminants is increased eight fold.

Without proper filtration, those contaminants will eventually find their way into your process potentially causing costly downtime and lowering product quality. Adding filtration to your compressed air system will continue to pay off in the form of both increased efficiency and product quality.

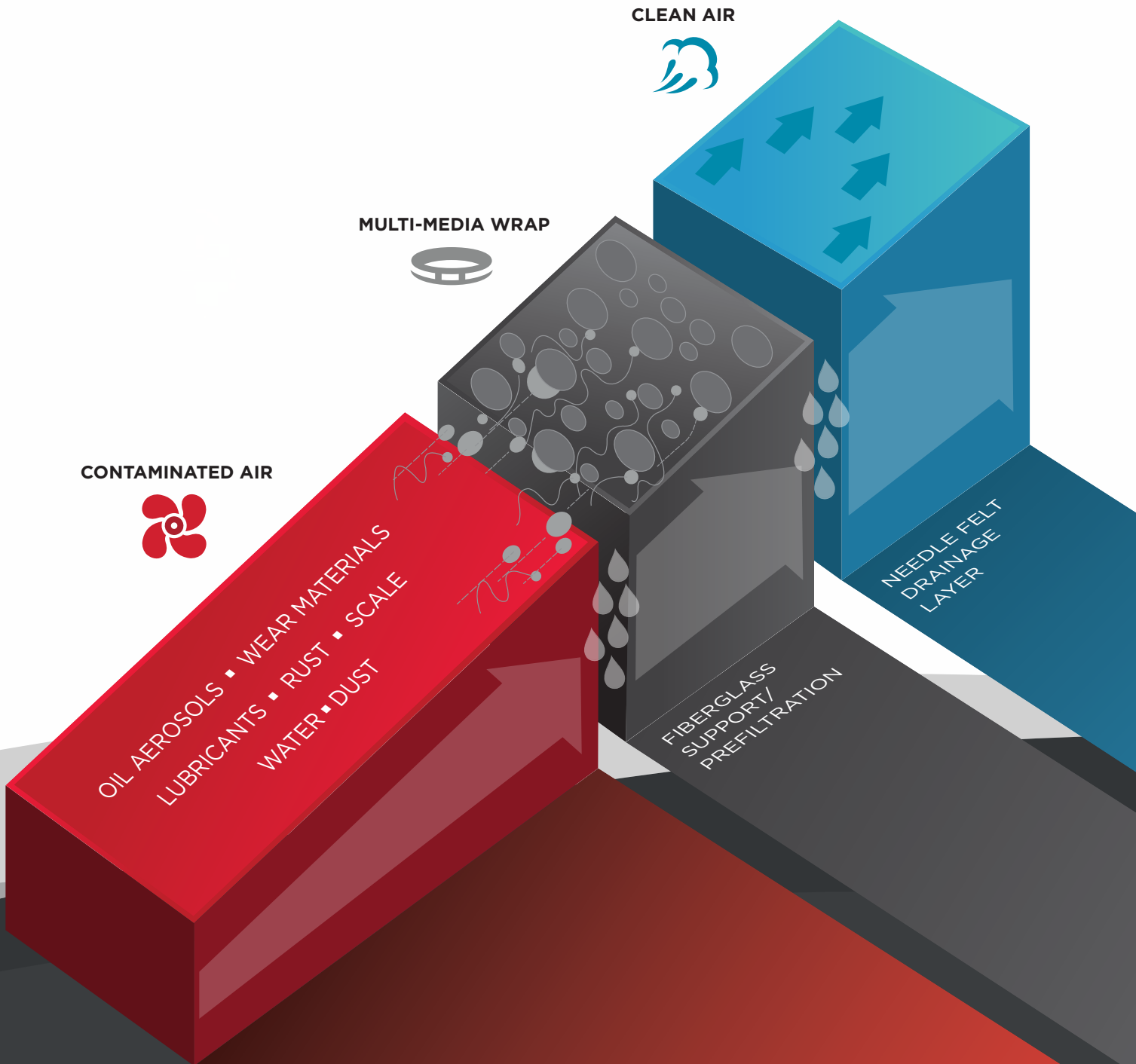


Filtration Matters



Principles of Filtration

The idea of compressed air filtration is pretty basic, identify and use media that is sure to capture the contaminants that you need to keep out of your process. Depending on the processes you perform, you may have different levels of filtration needs. The GIL Series offers a range of media sizes to help you get the level of filtration that you need. The next page breaks down the specifications of the different grades available in the GIL Filter Series.



Filtration Grades & Specifications

Through the GIL Series, Gardner Denver offers a comprehensive range of filter grades to meet the requirements of all compressed air and gas applications.

High Efficiency Coalescing Filtration

Grade H

- High quality compressed air filtration
- Particle removal down to 0.01 micron
- Max. oil carryover 0.008 PPM w/w
- Clean dry pressure drop 1.4 PSID
- Oil saturated pressure drop 3.0 PSID
- ISO 8573 (Class 1)

Carbon Adsorption Filtration

Grade V

- High purity extended surface area activated carbon removes hydrocarbon mist and vapor.
- Max. oil carryover 0.003 PPM w/w
- Nominal pressure drop 1.0 PSID

Utility Coalescing/ Particulate Filtration

Grade PC

- General compressed air filtration
- Particle removal down to 0.1 micron
- Max. oil carryover 0.09 PPM w/w
- Clean dry pressure drop 1.0 PSID
- Oil saturated pressure drop 2.0 PSID
- ISO 8573 (Class 2)

Dust & Particulate Filtration

Grade PP

- Particulate removal
- Particle removal down to 1 micron
- Clean dry pressure drop 1.0 PSID
- Outside/in element flow
- ISO 8573 (Class 3)



Anatomy of a GIL Filter Element

- 1 Push-Fit, Double O-Ring Seal**
Eliminates tie rods
- 2 Stainless Steel Support**
- 3 Fiberglass Support**
Media retainer
- 4 Deep Bed Multi-Wrap Borosilicate Glass Microfiber Filtration Media**
Large flow passages prevent high pressure drop while allowing for high dirt holding capacity.
- 5 Polyester Needle Felt Sleeve**
Unique coalescing action to quickly drain liquid and oil. It will not crush like a foam sleeve or decay with age. The sleeve is ultrasonically welded down the seam length.
- 6 End Cap**
Manufactured out of durable non-corrosive glass filled nylon which is attached to the element with a multi-part urethane resin. Ribs on the end cap act as auto centering guides within the filter housing.



GIL Housing Design

Maximizing Efficiency & Usability

From the heavy-duty materials used in the construction of the housing to the little details like external ribs and the side port condensate drain, every part of the GIL filter has been designed with these goals in mind.

- Make the filter easy to install
- Make the filter easy to maintain
- Maximum efficiency
- Maximum longevity



Options that Make Installation Even Easier

Mounting Brackets

The GIL mounting brackets allow convenient wall mounting of single or multiple filters. When this selection is made, you will receive two brackets and the appropriate hardware.

Close Connection Kit

This kit allows multiple filters to be installed side-by-side. In addition to simplifying installation, utilizing this kit saves on space required for mounting. Each kit includes an O-ring and the hardware needed to bolt the filters together.



Breaking Down the Design

- 1 Heavy Aluminum Construction**
Casting is 100% leak free
QC tested @ 300 PSI & 250° F
- 2 Modular or NPT Connection**
Multiple filters can be bolted together with an O-Ring seal. This simplifies installation and reduces mounting space requirements.
- 3 Annular Seal and Captive O-Ring**
This seal between head and bowl prevents leaks and simplifies bowl replacement.
- 4 External Ribs**
For easy bowl removal.
- 5 Internal Ribs**
Secures element in place and forms a dead-air zone to prevent condensate re-entrainment.
- 6 Large Capacity Condensate Sump**
- 7 Side Port Condensate Drain**
This allows external drain connections when bowl removal clearance is tight or can be used as a vent line for zero loss drains. GIL80 and above only.
- 8 Hexagon on Bottom**
Assists with bowl removal.
- 9 Threaded Bottom Port**
External auto or manual drain.

GIL Series Housing Specifications:

Maximum Pressure:	235 PSIG
Maximum Temperature:	248° F
Housing Material:	Aluminum
Port Connection:	NPT Standard
Seals:	Nitrile

GIL SERIES GRADE V - ACTIVATED CARBON

MODEL	CAPACITY IN SCFM @		FILTRATION TYPE	DELTA P GAUGE	DRAIN PKG	IN/OUT CONNECTIONS	REPLACEMENT ELEMENT
	100 PSIG	125 PSIG					
GIL20V	20	22	Adsorber	No	Manual	¼"	GIL20VE
GIL35V	35	39	Adsorber	No	Manual	½"	GIL35VE
GIL70V	70	78	Adsorber	No	Manual	½"	GIL70VE
GIL80V	80	90	Adsorber	No	Manual	¾"	GIL80VE
GIL110V	110	123	Adsorber	No	Manual	1"	GIL110VE
GIL165V	165	185	Adsorber	No	Manual	1"	GIL165VE
GIL250V	250	280	Adsorber	No	Manual	1½"	GIL250VE
GIL350V	350	392	Adsorber	No	Manual	1½"	GIL350VE
GIL500V	500	560	Adsorber	No	Manual	2"	GIL500VE
GIL700V	700	784	Adsorber	No	Manual	2"	GIL700VE
GIL1000V	1000	1120	Adsorber	No	Manual	3"	GIL1000VE
GIL1300V	1300	1456	Adsorber	No	Manual	3"	GIL1300VE
GIL1650V	1650	1848	Adsorber	No	Manual	3"	GIL1650VE

GIL SERIES GRADE H - HIGH PERFORMANCE COALESCING

MODEL	CAPACITY IN SCFM @		FILTRATION TYPE	DELTA P GAUGE	DRAIN PKG	IN/OUT CONNECTIONS	REPLACEMENT ELEMENT
	100 PSIG	125 PSIG					
GIL20H	20	22	Coalescing	No	Automatic	¼"	GIL20HE
GIL35H	35	39	Coalescing	No	Automatic	½"	GIL35HE
GIL70H	70	78	Coalescing	No	Automatic	½"	GIL70HE
GIL80H	80	90	Coalescing	Yes	Automatic	¾"	GIL80HE
GIL110H	110	123	Coalescing	Yes	Automatic	1"	GIL110HE
GIL165H	165	185	Coalescing	Yes	Automatic	1"	GIL165HE
GIL250H	250	280	Coalescing	Yes	Automatic	1½"	GIL250HE
GIL350H	350	392	Coalescing	Yes	Automatic	1½"	GIL350HE
GIL500H	500	560	Coalescing	Yes	Automatic	2"	GIL500HE
GIL700H	700	784	Coalescing	Yes	Automatic	2"	GIL700HE
GIL1000H	1000	1120	Coalescing	Yes	Automatic	3"	GIL1000HE
GIL1300H	1300	1456	Coalescing	Yes	Automatic	3"	GIL1300HE
GIL1650H	1650	1848	Coalescing	Yes	Automatic	3"	GIL1650HE

GIL SERIES GRADE PC - UTILITY COALESCING / PARTICULATE

MODEL	CAPACITY IN SCFM @		FILTRATION TYPE	DELTA P GAUGE	DRAIN PKG	IN/OUT CONNECTIONS	REPLACEMENT ELEMENT
	100 PSIG	125 PSIG					
GIL20PC	20	22	Coalescing	No	Automatic	¼"	GIL20PCE
GIL35PC	35	39	Coalescing	No	Automatic	½"	GIL35PCE
GIL70PC	70	78	Coalescing	No	Automatic	½"	GIL70PCE
GIL80PC	80	90	Coalescing	Yes	Automatic	¾"	GIL80PCE
GIL110PC	110	123	Coalescing	Yes	Automatic	1"	GIL110PCE
GIL165PC	165	185	Coalescing	Yes	Automatic	1"	GIL165PCE
GIL250PC	250	280	Coalescing	Yes	Automatic	1½"	GIL250PCE
GIL350PC	350	392	Coalescing	Yes	Automatic	1½"	GIL350PCE
GIL500PC	500	560	Coalescing	Yes	Automatic	2"	GIL500PCE
GIL700PC	700	784	Coalescing	Yes	Automatic	2"	GIL700PCE
GIL1000PC	1000	1120	Coalescing	Yes	Automatic	3"	GIL1000PCE
GIL1300PC	1300	1456	Coalescing	Yes	Automatic	3"	GIL1300PCE
GIL1650PC	1650	1848	Coalescing	Yes	Automatic	3"	GIL1650PCE

GIL SERIES GRADE PP - DUST & PARTICULATE

MODEL	CAPACITY IN SCFM @		FILTRATION TYPE	DELTA P GAUGE	DRAIN PKG	IN/OUT CONNECTIONS	REPLACEMENT ELEMENT
	100 PSIG	125 PSIG					
GIL20PP	20	22	Particulate	No	Manual	¼"	GIL20PPE
GIL35PP	35	39	Particulate	No	Manual	½"	GIL35PPE
GIL70PP	70	78	Particulate	No	Manual	½"	GIL70PPE
GIL80PP	80	90	Particulate	Yes	Manual	¾"	GIL80PPE
GIL110PP	110	123	Particulate	Yes	Manual	1"	GIL110PPE
GIL165PP	165	185	Particulate	Yes	Manual	1"	GIL165PPE
GIL250PP	250	280	Particulate	Yes	Manual	1 ½"	GIL250PPE
GIL350PP	350	392	Particulate	Yes	Manual	1½"	GIL350PPE
GIL500PP	500	560	Particulate	Yes	Manual	2"	GIL500PPE
GIL700PP	700	784	Particulate	Yes	Manual	2"	GIL700PPE
GIL1000PP	1000	1120	Particulate	Yes	Manual	3"	GIL1000PPE
GIL1300PP	1300	1456	Particulate	Yes	Manual	3"	GIL1300PPE
GIL1650PP	1650	1848	Particulate	Yes	Manual	3"	GIL1650PPE



FILTRATION MATTERS

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