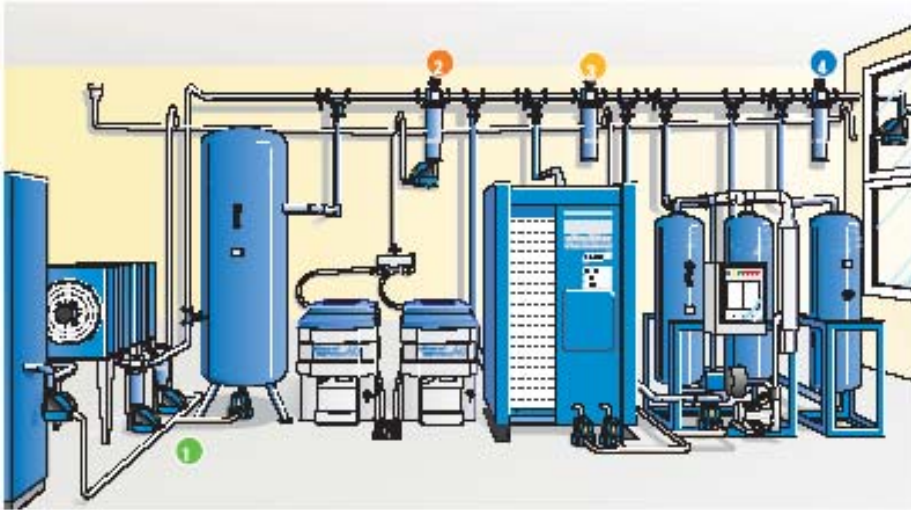




Compressed Air Industrial Filters



Particulate Filters
Fine Filters
Submicron Filters
Active Carbon Filters



- KMS Water Separator at the Aftercoolers.
- KFF Coalescing Fine Filter before KRD compressed air dryer .
- KPF Particulate Air Filter.
- KSF Sub Micron coalescing / Particulate point-of-use filter.



The need to effectively and efficiently dry and filter compressed air cannot be overemphasized. Ineffective purification can lead to system and / or equipment damage. Inefficient / Poor purification can lead to unnecessary high operating and maintenance costs. Kobelco's extensive line of air filtration products with a range of efficiencies and optional features can cost-effectively meet any of your needs.

Compressed Air Contaminants

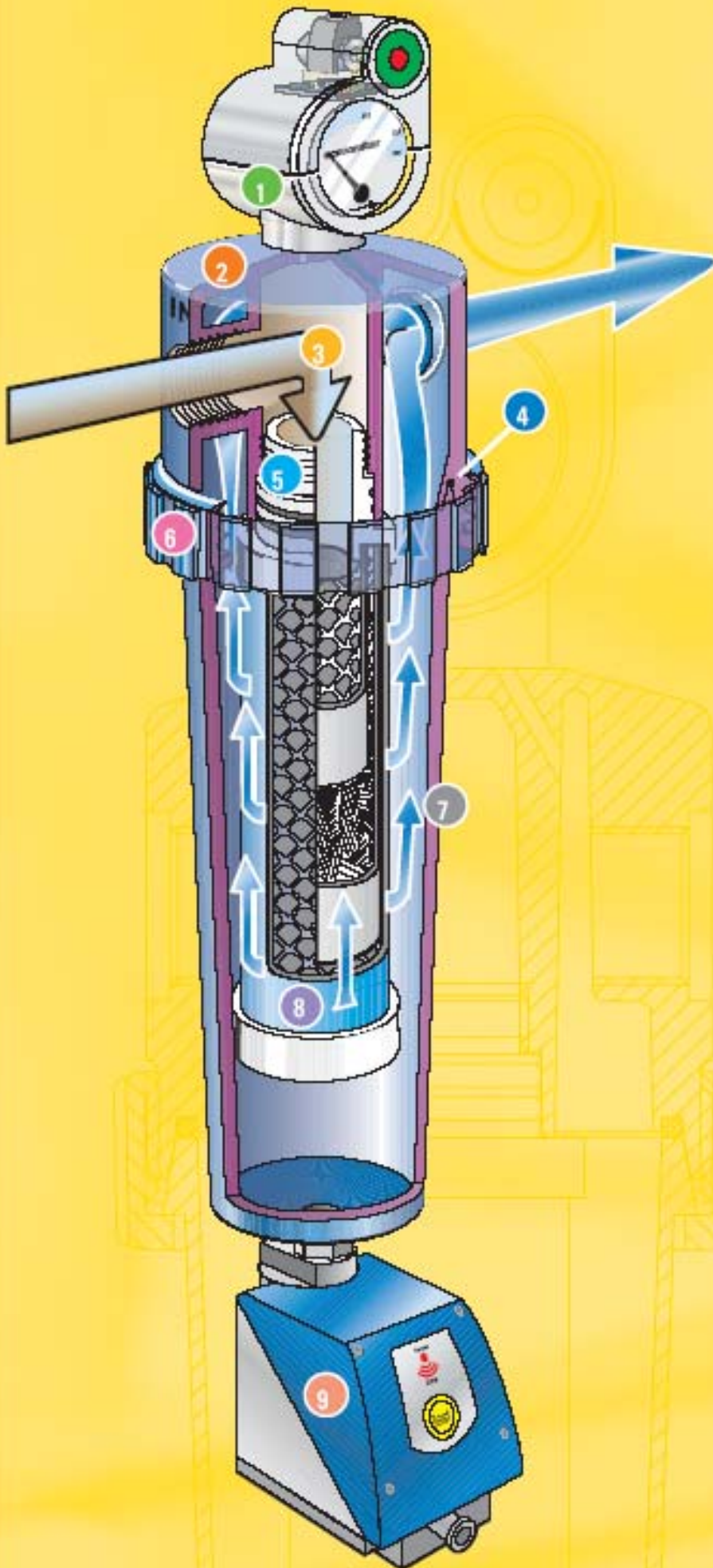
- Dust particles (from ambient air and/or desiccant)
- Liquid water and water vapor
- Liquid oil and oil vapor
- Hydrocarbon vapor
- Rust particles
- Pipe scale
- Acidic condensates

The price of ineffective and inefficient filtration

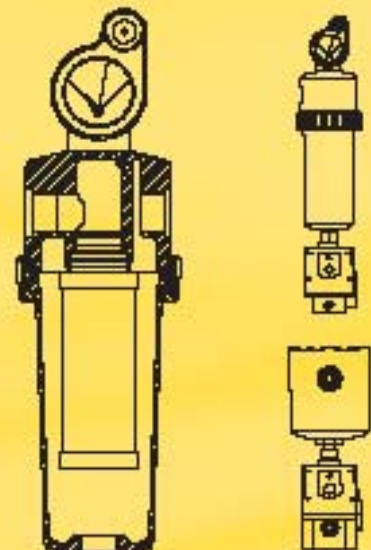
Cause	Effect	Solution
Liquid water entering refrigerated air dryer.	Inefficient dryer operation leading to higher cost and/or inability to meet dew point. Damage to dryer components such as heat exchanger.	Install water separator after air compressor and coalescing prefilter before air dryer.
Liquid water entering regenerative desiccant air dryer.	Inability to meet dew point. Damage to dryer components such as valves and/or desiccant.	Install water separator after air compressor and coalescing prefilter before air dryer.
Hydrocarbon and/or oil vapors entering process airstream.	Product spoilage. Odor and/or taste in process air.	Install high efficiency AK carbon filter after air dryer.
High pressure drop across filters.	Increased energy consumption to maintain pressure. Low line pressure leading to inefficient operation of downstream equipment.	Install filters with housings and elements engineered for low pressure drop. Replace elements at optimum point to keep both maintenance and energy costs at a minimum.

Industrial Filter Housings

Our top of the line filter housings are equipped with all of the features required to make this the most efficient and cost-effective filter for your compressed air system. Its three-part aluminum housing design allows for easy disassembly and element changeout. Low pressure drop is achieved through optimal flow-path design. The tapered bowl and non-turbulent lower filter zone assure that no condensate gets re-entrained in the airstream. Our programmable economizer differential pressure gauge notifies maintenance personnel of the optimal point at which to change the filter element. For coalescing prefilters, the zero air-loss drain valve assures that no compressed air is lost when liquid condensate is drained.



- 1 Economizer differential pressure gauge
- 2 Three-piece aluminum housing
- 3 Low pressure drop flow channel
- 4 O-ring housing seal
- 5 Double o-ring element seal
- 6 Built-in acoustic alarm
- 7 Tapered bowl
- 8 Selection of pre- and afterfilter elements
- 9 Ultramat zero air-loss condensate drain valve



**Kobelco's KFF & KSF
Coalescing/Particulate Filter
Elements**

The unique design of the KFF & KSF filter elements creates a two stage filtration process within one element. The retention rate of the 0.01mm particles in our KSF element is a remarkable 99.99999%. This is made possible by the use of the patented Ultrair® binder-free borosilicate glass fiber media. This media also allows for very low pressure drop, which means that you get the highest efficiency at the lowest energy cost.

**Kobelco's KCF Activated Carbon
Absorption Filter Element**

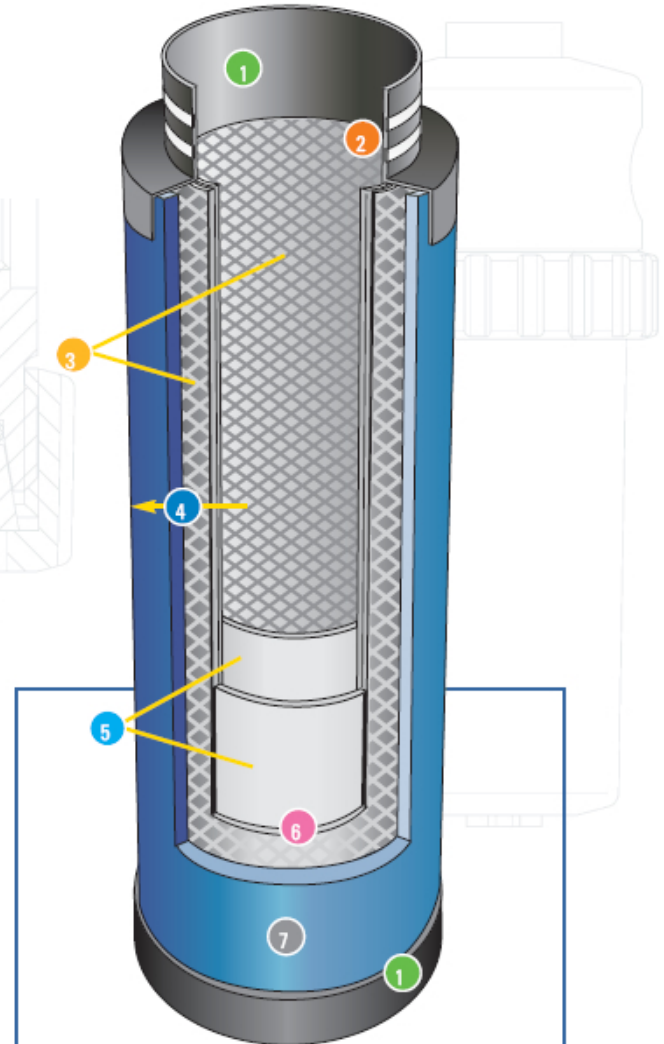
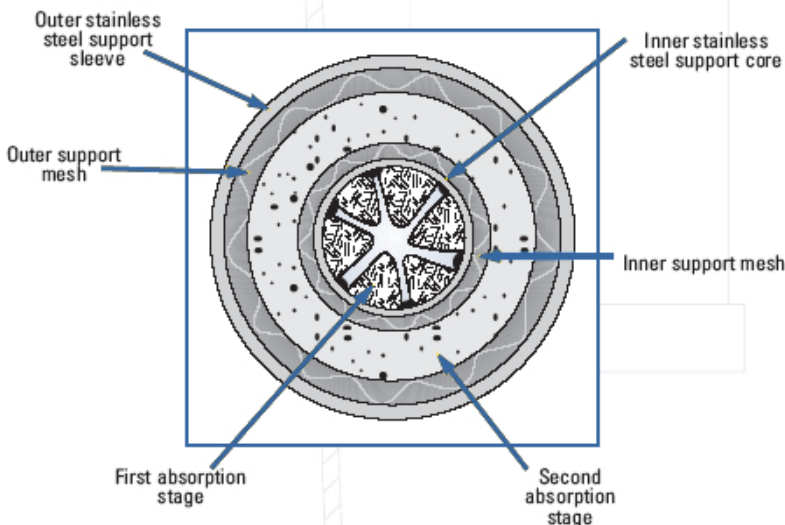
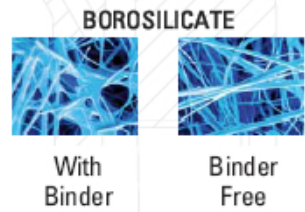
The Kobelco KCF absorption filter element utilizes a two-stage filtration process for absolute retention of oil vapor and other hydrocarbons. This patented two-stage design allows for a large surface area resulting in low pressure drop, long element life and no carry-over of carbon particles in the process air.

Kobelco's KCF filter elements are built with inner and outer stainless steel support cores and aluminum end caps for maximum strength and long life. A double o-ring seal is used to assure absolutely no blow-by of unfiltered air.



**Kobelco's KPF
Particulate Elements**

Kobelco's KPF Particulate filter elements are made with aluminum end-caps, double o-ring seals and sintered polyethylene media for effective filtration down to 25 µm. KPF elements offer additional advantage of being fully regenerable.



- 1 Aluminum end caps
- 2 Double o-ring seal
- 3 Stainless steel inner and outer support cores
- 4 Low pressure drop
- 5 Two-stage filtration
- 6 Ultrair® binder-free borosilicate glass fiber media
- 7 Outer foam sleeve

Typ 0108 - 0288

AG Aluminum SH Steel Industrial Filter Housings

Product Summary & Technical Data

AG Standard and Superplus filter housings are designed for the purification of compressed air and gases in industrial applications. Three-piece aluminum housings with NPT connections are available in a nominal flow range of 12 to 1,728 scfm. Two-piece SH steel housings with flanged connections are available in a nominal flow range of 650 to 22,000 scfm.



AG Housing with Econometer shown.

Specifications

	AG Aluminum		SH Steel	
	Standard	Superplus	Standard	Superplus
3-Piece Housing	X	X		
2-Piece Housing			X	X
Econometer Δp Gauge	X		X	
Economizer Δp Gauge		X		X
Float Drain Valve	X		X	
Ultramat UFM-T Zero Air-Loss Drain		X		X
NPT Connections	X	X		
ANSI Flanged Connections			X	X
ANSI Polyester Powder Finish	X	X	X	X
Maximum Op. Pressure	250 psig 150 psig	250 psig 150 psig	150 psig	150 psig
Maximum Op. Temp.	150° F 250° F	150° F 250° F	250° F	250° F

Element Data

Type	Initial Δp (psid)	Particle Size	Efficiency	Residual Oil Content	Application
KPF Particulate Filter	0.4	25 μm	100%	N/A	Particulate
KFF Fine Filter	0.7	0.01 μm	99.999%	0.1 ppm ¹	Coalescing/Particulate
KSF Sub-Micro Filter	1.7	0.01 μm	99.99999%	<0.01 ppm ¹	Coalescing/Particulate
KCF Carbon Filter	1.2	N/A	N/A	<0.003 ppm ²	Vapor

¹ At inlet concentration of 3 ppm.

² At inlet concentration of 0.05 ppm.

Specifications

	Part Number	Flow Rate @ 100 psig (CFM)	Dimensions (inches)				Weight (lbs)	Filter Element
			Connection (FNPT)	Height	Width	Removal Clearance		
Cyclone Moisture Separators	KMS-70	70	1/2"	14	4	6	6	-
	KMS-125	125	3/4"	14	4	6	6	-
	KMS-200	200	1"	17	4	8	7	-
	KMS-300	300	1-1/4"	17	4	8	7	-
	KMS-450	450	1-1/2"	23	6	11	16	-
	KMS-600	600	2"	31	6	18	23	-
	KMS-900	900	2-1/2"	37	7	33	29	-
KFF Fine Filter	KFF-10	10	1/4"	11	3	4	4	KFE 3/10 PC
	KFF-20	20	3/8"	11	3	4	4	KFE 3/10 PC
	KFF-40	40	1/2"	13	3	5	5	KFE 4/10 PC
	KFF-75	75	3/4"	14	4	6	6	KFE 5/20 PC
	KFF-150	150	1"	17	4	8	7	KFE 7/25 PC
	KFF-250	250	1-1/2"	23	6	11	16	KFE 10/30 PC
	KFF-500	500	2"	31	6	18	23	KFE 15/30 PC
	KFF-1000	1000	2-1/2"	37	7	23	29	KFE 20/30 PC
	KFF-1500	1500	3"	47	7	33	31	KFE 30/30 PC
KSF Sub-micron Filter	KSF-10	10	1/4"	11	3	4	4	KSE 3/10 PC
	KSF-20	20	3/8"	11	3	4	4	KSE 3/10 PC
	KSF-40	40	1/2"	13	3	5	5	KSE 4/10 PC
	KSF-75	75	3/4"	14	4	6	6	KSE 5/20 PC
	KSF-150	150	1"	17	4	8	7	KSE 7/25 PC
	KSF-250	250	1-1/2"	23	6	11	16	KSE 10/30 PC
	KSF-500	500	2"	31	6	18	23	KSE 15/30 PC
	KSF-1000	1000	2-1/2"	37	7	23	29	KSE 20/30 PC
	KSF-1500	1500	3"	47	7	33	31	KSE 30/30 PC
KPF Particulate Filter	KPF-10	10	1/4"	11	3	4	4	KPE 3/10 PC
	KPF-20	20	3/8"	11	3	4	4	KPE 3/10 PC
	KPF-40	40	1/2"	13	3	5	5	KPE 4/10 PC
	KPF-75	75	3/4"	14	4	6	6	KPE 5/20 PC
	KPF-150	150	1"	17	4	8	7	KPE 7/25 PC
	KPF-250	250	1-1/2"	23	6	11	16	KPE 10/30 PC
	KPF-500	500	2"	31	6	18	23	KPE 15/30 PC
	KPF-1000	1000	2-1/2"	37	7	23	29	KPE 20/30 PC
	KPF-1500	1500	3"	47	7	33	31	KPE 30/30 PC
KCF Carbon Filter	KPF-10	10	1/4"	11	3	4	4	KCE 3/10 PC
	KPF-20	20	3/8"	11	3	4	4	KCE 3/10 PC
	KPF-40	40	1/2"	13	3	5	5	KCE 4/10 PC
	KPF-75	75	3/4"	14	4	6	6	KCE 5/20 PC
	KPF-150	150	1"	17	4	8	7	KCE 7/25 PC
	KPF-250	250	1-1/2"	23	6	11	16	KCE 10/30 PC
	KPF-500	500	2"	31	6	18	23	KCE 15/30 PC
	KPF-1000	1000	2-1/2"	37	7	23	29	KCE 20/30 PC
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