

KOGANEI

ACCESSORIES GENERAL CATALOG

AIR TREATMENT, AUXILIARY, VACUUM, **AND FLUORORESIN PRODUCTS**

SUB-LINE FILTERS CONTENTS

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Sub-line Filters

Line filters : $Rc3/8 \sim Rc3/4$ Micro mist filters : Rc3/8, 1/2

Activated charcoal

filters : Rc1/2~Rc3/4



Sub-line Filters

The series is configured according to the compressor and air dryer size, to protect the air dryer and air line ends.

Line filters: KLF series

- Eliminate solid particles larger than 3 μm
- An auto drain is standard equipment
- Air for general pneumatic equipment and painting devices

Micro mist filters: KMF series

- Eliminate solid particles larger than 0.3
 _µm
- Eliminate residual oil aerosols of over 0.5ppm^{mg}/_{mg}.
- Air for instrumentation, air measurement, and air pressure control

Activated charcoal filters: KKF series

- Eliminate odors through absorption by activated carbon
- Eliminate oil vapors
- For pharmaceutical and food products

Handling Instructions and Precautions



Filter

- Mount in a vertical position, with the piping connections on the top and the drain port on the bottom.
- Preserve sufficient space around and under the filter to ease replacement of the element.
- 3. For improved maintenance when making piping connections, install a bypass circuit between the filter outlet and intake ports. In addition, mount a check valve on the outlet side when there is a possibility of air flowing backward inside the filter.



General precautions

- Always thoroughly blow off (use compressed air) or air blowing the tubing before piping. Be careful to prevent shavings, sealing tape, or rust, etc., generated during plumbing from entering into the pipes.
- 2. The product cannot be used when the media or the ambient atmosphere contains any of the substances listed below. Organic solvents, phosphate ester type hydraulic oil, sulphur dioxide, chlorine gas, or acids, etc.

LINE FILTERS

KLF Series

Eliminate solid particles larger than 3μ m. Uses a long-life, pleated pre-filter with virtually no pressure loss.

Install in upstream or downstream of the air dryer, or in upstream of the micro mist filter, to extend the operating life of the air dryer and micro mist filter.



Symbol



Specifications

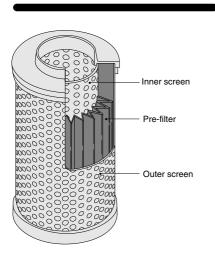
Item	Model	KLF-75	KLF-150	KLF-200
Media		Air		
Operating pressure range MPa [psi.]		0.2~0.97 [29~141]		
Operating temperature range °C [°F]		5~60 [41~140]		
Intake air temperature range °C [°F]		5~60 [41~140]		
Connection port	IN, OUT	Rc3/8	Rc1/2	Rc3/4
	Differential pressure gauge connection port	_	Rc1/8	Rc1/4
Drain port		Rc1/4 (outer diameter φ 16 [0.63in.])		
Volume of processed air	r ^{Note} m³/min [ft.³/min.] (ANR)	0.33 [11.6]	1.0 [35.3]	1.65 [58.2]
Filtration rating μ m		3		
Pressure drop Initial stage		0.005 [0.73]		
MPa [psi.] Replace at		0.07 [10.2]		
Element operating life		Change at 3000 hours or one year whichever comes first		
External dimensions Dimension between flats × total length		90 × 238 3.54 × 9.37		115×287 [4.53×11.30]
Mass kg [lb.]		1.0 [2.2]		1.5 [3.3]
Painting (Munsell No.)				Baked finish with melamine resin (5GY8.5/0.5)
Filter element	Model	EL-75-A	EL-150-A	EL-200-C
Filler element	Quantity		1	

Remark: An auto drain is standard equipment for all models.

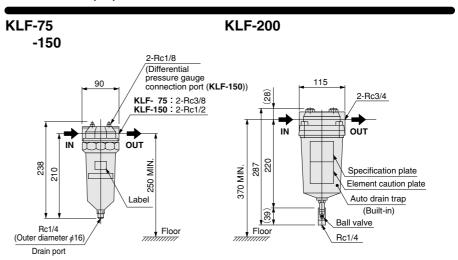
Note: Values show processed air volume at atmospheric pressure.

(Measuring conditions) Intake air pressure: 0.7MPa [102psi.], Intake air temperature: 30°C [86°F], Intake dew point: At atmospheric pressure –17°C [1.4°F], pressurized 10°C [50°F]

Inner Construction



Dimensions (mm)



MICRO MIST FILTERS

KMF Series

Eliminate solid particles larger than $0.3 \, \mu \mathrm{m}$.

Eliminate residual oil aerosols of over $0.5ppm^{mg}/_{mg}$.

Install at the inlet side of lines where oil intrusion cannot be allowed, or behind air dryers, to keep out oil and microscopic particles.



KMF-75 KMF-150

Symbol



Specifications

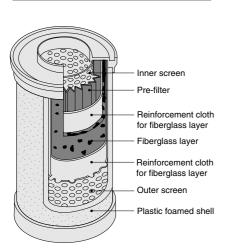
Item Model		KMF-75	KMF-150	
Media		Air		
Operating pressure range MPa [psi.]		0.2~0.97 [29~141]		
Operating temperature range °C [°F]		5~60 [41~140]		
Intake air temperature range °C [°F]		5~60 [41~140]		
	IN, OUT	Rc3/8	Rc1/2	
Connection port	Differential pressure gauge connection port	_	Rc1/8	
	Drain port	Rc1/4 (outer diameter φ 16 [0.63in.])		
Volume of processed air	Volume of processed air Note m³/min [ft³/min.] (ANR)		1.0 [35.3]	
Filtration rating	Filtration rating μ m		0.3	
Filtering officiency	Solid particles %	99.9999		
Filtering efficiency	Residual oil ppmmg/mg	0.5		
Pressure drop	Initial stage	0.01 [1.5]		
MPa [psi.]	Normal	0.02~0.04 [2.9~5.8]		
ivir a [psi.]	Replace at	0.07 [10.2]		
Element operating life	Element operating life		Change at 3000 hours or one year whichever comes first	
External dimensions Dimension between flats × total length		90×238 [3.54×9.37]		
Mass	kg [lb.]	1.0 [2.2]		
Painting	(Munsell No.)	Baked finish with acrylic resin (7.5GY5/2)		
Filter element	Model	EM-75-A	EM-150-A	
i iilei eleiileiil	Quantity	1		

Remark: An auto drain is standard equipment for all models.

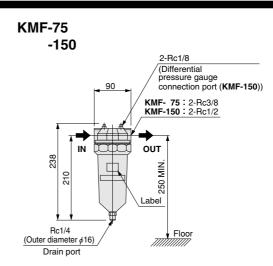
Note: Values show processed air volume at atmospheric pressure.

(Measuring conditions) Intake air pressure: 0.7MPa [102psi.], Intake air temperature: 30°C [86°F], Intake dew point: At atmospheric pressure –17°C [1.4°F], pressurized 10°C [50°F], Intake oil aerosols density: $18ppm^{mg/mg}$

Inner Construction



Dimensions (mm)



ACTIVATED CHARCOAL FILTERS

KKF Series

Eliminate odors through absorption by activated charcoal.

Activated charcoal layer with large absorption surface area (1000cm²/g) maintains a high absorption effectiveness over long periods.

 Install in upstream or downstream of micro mist filters, to remove oil vapors and other odors and create clean air.



Symbol



Specifications

Item Model		KKF-150	KKF-200		
Media			Air		
Operating pressure range MPa [psi.]		0.05 ~ 0.97 [7 ~ 141]			
Operating temperature range °C [°F]		5~60 [41~140]			
Intake air temperature range °C [°F]		5~60 [41~140]			
Connection port		Rc1/2	Rc3/4		
Volume of processed air Note m³/min [ft.³/min.] (ANR)		1.0 [35.3]	1.65 [58.2]		
Filtering method		Absorption by activated charcoal			
Filtering efficiency (residual oil)	Initial stag	je	0.05		
ppm ^{mg} / _{mg}	Normal		0.1		
Pressure loss MPa [psi.]		0.05 [7]			
Element operating life			Change at 1500 hours or six months whichever comes first		
External dimensions Dimension between flats × total length		90×218 [3.54×8.58]	115×231 [4.53×9.09]		
Mass		kg [lb.]	1.0 [2.2]	1.7 [3.7]	
Painting		(Munsell No.)	Baked finish with acrylic resin(7.5GY5/2)	Baked finish with melamine resin (5GY8.5/0.5)	
Filter element	Model		EK-150-A	EK-200-C	
i iilei eleirietti	Quantity		-	1	

Note: Values show processed air volume at atmospheric pressure.

(Measuring conditions) Intake air pressure: 0.7MPa [102psi.], Intake air temperature: 30°C [86°F], Intake dew point: At atmospheric pressure –17°C [1.4°F], pressurized 10°C [50°F], Intake oil aerosols density: 0.5ppm^{mg/mg}

Inner Construction

Dimensions (mm)

