



Condensate Management

KCF Series Oil/Water Separators

Condensate Management

Condensate disposal made easy

As disposal costs for waste oil increase and environmental regulations become more stringent, the benefits of Kaeser's KCF oil/water separators are clear. The KCF eliminates the need for expensive waste collection services by removing oil, leaving most of the condensate to be safely discharged into a sanitary drain. KCF filters don't need to be changed frequently and the spent filters are simply sent to the landfill. Condensate management doesn't get any easier.*



Simple installation and maintenance

Kaeser's KCFs are easy to install with no electrical connections or hard piping required. Lid removal knobs make removing and replacing the single filter cartridge simple. The convenient lifting handles enable quick and clean maintenance.



High performance filter

KCFs are durable rotomolded from high-strength, cross-linked polyethylene and work with all compressor fluid types. The filter can then be easily fixed to the KCF casing to drain. Pre-soaking the new filter is not necessary. A disposal bag comes with each set of filters.



Filter change indicator

Operation can be checked weekly by performing a cloudiness test with containers provided and scheduled maintenance as needed. A filter change indicator is available on the KCF 200 and 400. A raised float indicates when the filter needs to be replaced.



Multiple inlet connections

The KCF 25 and 50 have two inlet connections while the KCF 100, 200, and 400 have four. Plastic plugs are provided to block off any unused connections.

****Always observe local guidelines for disposal of effluents.***

Sizing Guidelines

To use the sizing chart, first locate the closest applicable compressor horsepower or scfm value (for multiple compressors use the total system horsepower or total scfm) of your compressed air system. Locate the row with the appropriate compressor lubricant for your particular application (e.g. mineral oil) and you will instantly know the correct KCF model size for your compressor type. Multiply the maximum compressor horsepower or compressor scfm by the climate zone correction factor based on the location of your application. This will determine the reduced rating.

Capacity tests and our long-term experience have enabled us to make regional adjustments to our capacity figures by taking global climate data into account. Regions in the southern United States (e.g. San Antonio, TX) are subject to higher temperature and humidity levels throughout the year, which can yield different condensate treatment requirements. Therefore, if you feel that your regional location may have a significant impact on the application or installation, please consult your Kaeser representative for details.

Rotary Screw Compressors

Model	KCF 25		KCF 50		KCF 100		KCF 200		KCF 400	
	hp	scfm	hp	scfm	hp	scfm	hp	scfm	hp	scfm
Mineral Oils	25	113	50	225	100	450	200	900	350	1575
PAO / Diester Oils	20	90	35	158	75	338	130	585	210	945
Polyglycol Oils	15	60	20	113	50	225	100	450	175	788

Reciprocating Compressors

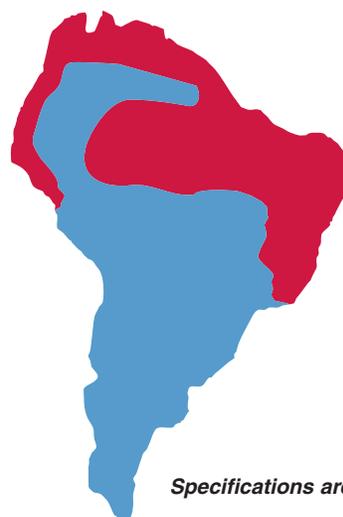
Model	KCF 25		KCF 50		KCF 100		KCF 200		KCF 400	
	hp	scfm	hp	scfm	hp	scfm	hp	scfm	hp	scfm
Mineral Oils	20	90	40	180	75	338	130	585	250	1125
Synthetic Oils	15	60	25	113	50	225	100	450	130	585

NOTE:
 Min. / Max. Ambient Temperature: 41 / 140°F
 Max. Operating Pressure at Inlet: 232 psig
 Max. Condensate Temperature: 140°F

Climate Zone Correction Factor	
Cool / Mild	1.00
Medium / Arid	.90
Hot / Tropical	.70

Filter Cartridge Life Cycle*	
1 Shift	10 -14 months
2 Shifts	8 - 12 months
3 Shifts	5 - 9 months

* Ranges are approximate



Specifications are subject to change without notice.

Technical Specifications

Model	Condensate Inlet (hose connection) (in.)	Water Outlet (hose connection) (in.)	Weight Empty (lbs.)	Dimensions W x D x H (in.)
KCF 25	2 x ½	½	7.7	11.4 x 8.7 x 20.8
KCF 50		½	12.7	14.8 x 10 x 23.4
KCF 100	3 x ½ and 1 x 1	1	24.5	18.1 x 20.5 x 24
KCF 200		1	70.5	20.5 x 22.6 x 44.1
KCF 400		1	92.6	25.6 x 27.6 x 46.9

Notes: Maximum operating pressure of inlet is 232 psig. Operating temperature range is 41-140°F.

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KCF Options

- Immersion heater with thermostat for cold site installations (KCF 200 and 400 only)
- High pressure relief chamber (up to 580 psig)
- Flow splitter allows up to four (4) parallel piped units for large air flow applications
- High condensate level alarm



Kaeser Condensate Manifold (KCM)

The KCM is a small vessel that collects condensate from multiple sources and safely diffuses residual air pressure to maximize separation effectiveness in the Kaeser Condensate Filter (or any oil/water separator).

Available in two models that vent up to 4 and 8 condensate lines respectively, KCM is constructed from sturdy schedule 80 PVC and will accept condensate from air systems operating at up to 232 psig. Condensate lines are connected via easy push-to-connect fittings. A venting muffler, mounting hardware, and 5 foot outlet hose are included.



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