



# 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 scfm value (for multiple compressors use the total system 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 scfm by the climate zone correction factor based on the location of your application. This will determine the new 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
<b>Compressor</b>	<b>scfm</b>				
Mineral Oils	113	225	450	900	1575
PAO / Diester Oils	90	158	338	585	945
Polyglycol Oils	60	113	225	450	788

Climate Zone Correction Factor	
Cool / Mild	1.00
Medium / Arid	0.90
Hot / Tropical	0.70

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

\* Ranges are approximate

NOTE:

Min. / Max. Ambient Temperature: 41 / 140°F

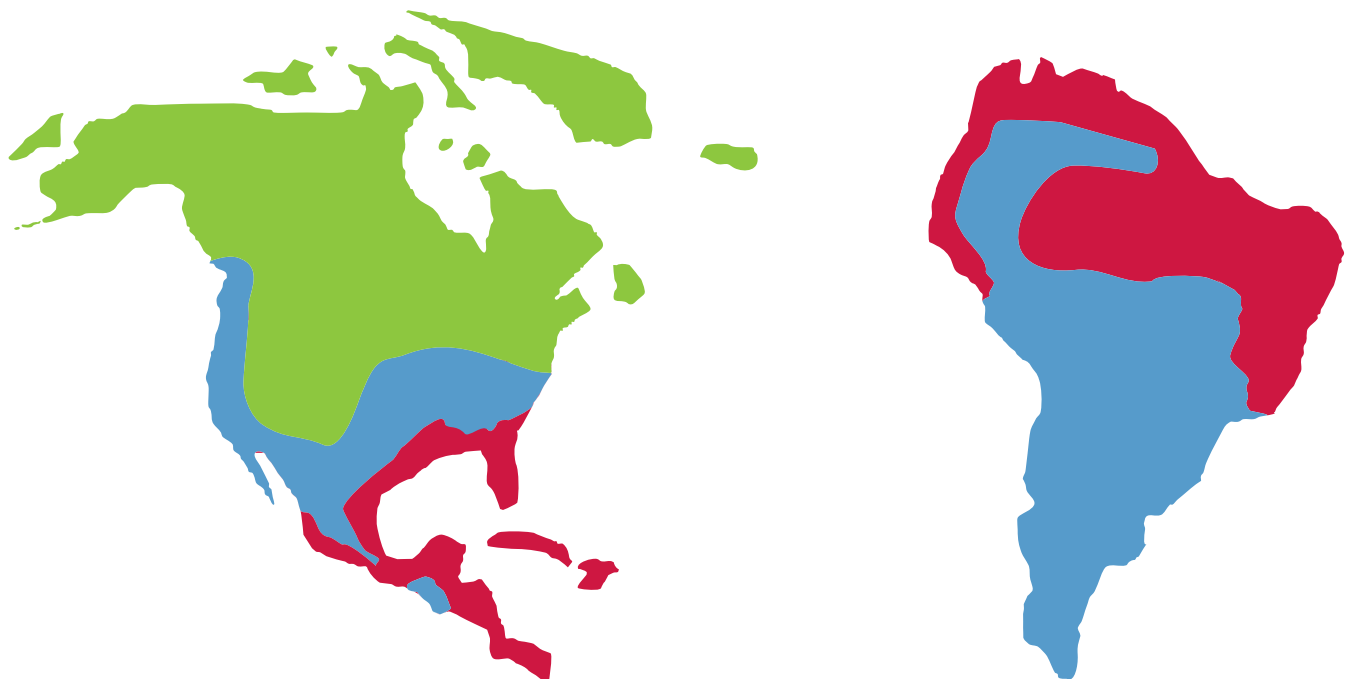
Max. Operating Pressure at Inlet: 232 psig

Max. Condensate Temperature: 140°F

## Reciprocating Compressors

Model	KCF 25	KCF 50	KCF 100	KCF 200	KCF 400
<b>Compressor</b>	<b>scfm</b>				
Mineral Oils	90	180	338	585	1125
Synthetic Oils	60	113	225	450	585

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 26
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.

*Specifications are subject to change without notice.*

## 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 (KCF 200 and 400 only)



### 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.



[www.kaeser.com](http://www.kaeser.com)

**Kaeser Compressors, Inc.**  
511 Sigma Drive  
Fredericksburg, VA 22408 USA  
Telephone: 540-898-5500  
Toll Free: 800-777-7873  
info.usa@kaeser.com

**Kaeser Compressors Canada Inc.**  
3760 La Verendrye Street  
Boisbriand, QC J7H 1R5 CANADA  
Telephone: (450) 971-1414  
Toll free: (800) 477-1416  
info.canada@kaeser.com

**Kaeser Compresores de México S de RL de CV**  
Calle 2 #123  
Parque Industrial Jurídica  
76100 Querétaro, Qro.  
Telephone: 01 (442) 218 64 48  
sales.mexico@kaeser.com

**Kaeser Compresores de Guatemala y Cia. Ltda.**  
Calz. Atanasio Tzul 21-00, zona 12  
El Cortijo II, Bodega 501  
01012-Guatemala City  
Telephone: +502 2412-6000  
info.guatemala@kaeser.com

