

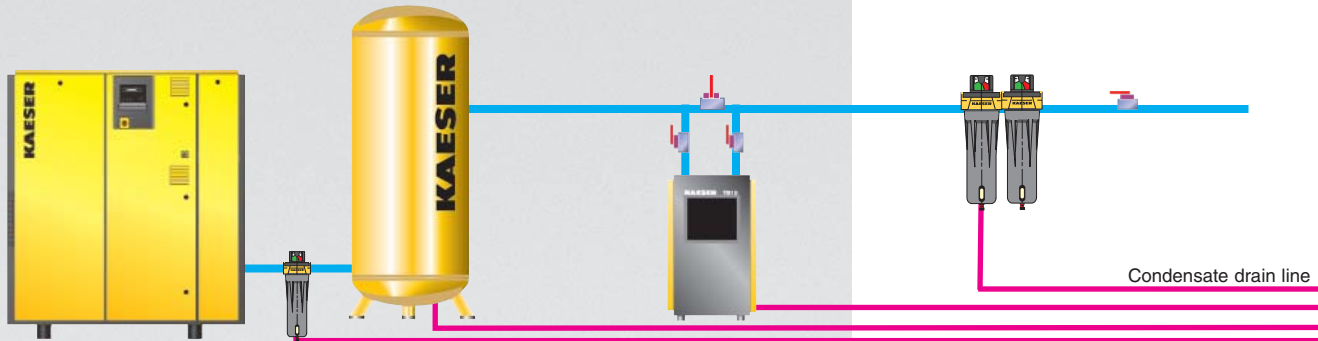
# Condensate Management

## KCF Series Oil/Water Separators



## Compressed air condensate

Compressed air condensate is a by-product of all compressors. It is a mixture of mostly water with ambient particulates, airborne hydrocarbons, and traces of compressor fluids that have been concentrated during the compression process. This type of oil-water mixture may be classified as hazardous waste, and federal and local environmental laws regulate the discharge of untreated compressor condensate. Kaeser's KCF condensate management system offers a reliable and economical method of oil/water separation to comply with environmental regulations.



Condensate must be collected and drained from each component in an air system. A variety of condensate drains are available to provide reliable condensate removal.

### How it works:

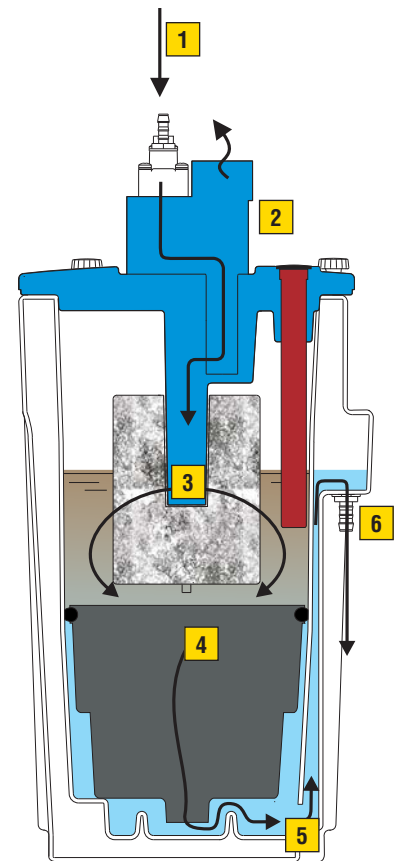
Contaminated condensate **1** flows under pressure into the pressure relief chamber. **2** Here, the pressure is released to prevent turbulence downstream. The contaminated condensate flows into the high capacity pre-filter **3**, which has an ideal inside to outside flow pattern to trap remaining oil droplets. It also captures any residual floating oil in the upper chamber.

As the pre-treated condensate enters the main filter cartridge **4** any remaining oil is adsorbed and locked into our advanced filter material where it cannot escape. The condensate is now fully treated and flows around the lower chamber wall **5** toward the clean water outlet, **6** ready for discharge directly into the sewer system.

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

## 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 frequent changes, and the spent filters are simply sent to the landfill. Condensate management just doesn't get any easier.



# Safe, Clean, and Cost Effective



## Features

- Multiple inlet connections
  - two on KCF 25, 50 and 100
  - four on KCF 200 and 400



- Lid removal knobs (no tools needed)
- Lifting handles for filter cartridges
- Disposal bag comes with each set of filters
- Filter change indicator on KCF 200 and 400



## 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

## Easy to install

- No electrical connections
- Multiple inlet connections
- No hard piping required
- Lightweight

## Reliable operation

- Works with all compressor fluid types (see specs)
- Durable roto-molded from high-strength, cross-linked polyethylene

## Simple Maintenance

- Just one filter to replace
- Lifting handles provided
- Quick and clean



## Specifications

Model	Compressor Capacity (scfm)					Condensate Inlet (hose connection) (in.)	Water Outlet (hose connection) (in.)	Weight Empty (lbs.)	Dimensions W x D x H (in.)
	Screw Compressors			Piston Compressors 1- and 2-stage					
	Mineral Oil Turbine Oil (additive free)	Diesters PAO	Polyglycol	Mineral Oil Turbine Oil (additive free)	Synthetic Oil				
KCF 25	110	90	55	90	55	2 x ½	½	7.7	11.4 x 8.7 x 20.8
KCF 50	220	180	110	180	110	2 x ½	1/2	12.7	14.8 x 10 x 23.4
KCF 100	500	375	250	375	250	½ or 1	1	19.5	18.1 x 20.5 x 24
KCF 200	900	600	450	600	450	3 x ½ and 1 x 1	1	70.5	20.5 x 22.6 x 44.1
KCF 400	1800	1200	900	1200	900	3 x ½ and 1 x 1	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. Rates are based on air compressor inlet conditions at 70°F and 70% relative humidity using oils with the best demulsibility in their class. Ratings for other conditions may vary significantly; consult with Kaeser for specific values. The use of automatic drain traps without any air discharge/loss is highly recommended. Mixing of oils or additive packages used in lubricants may have an adverse effect on demulsibility. **Manifolds are available for each unit. Consult factory for larger applications.**

\*Demulsibility is an oil's ability to separate from water in a given amount of time.

## 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 has a maximum working pressure of 230 psig. Condensate lines are connected via easy push-to-connect fittings.

A venting muffler, mounting hardware and 5 ft outlet hose are included.



*Specifications are subject to change without notice.*

# KAESER COMPRESSORS

**Built for a lifetime.™**

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