

Oilquip Filter and Cooling Systems



Applications

- ◆ Studies have shown that the reduction of dirt, water, and heat in systems where oil plays an important lubrication and/or cooling role is crucial to reduce maintenance costs and to maximize the life of equipment.
- ◆ Oilquip filter and cooling systems are designed for use on existing equipment such as gear boxes, mechanical seals, and hydraulic systems where normal usage can lead to excessive build-up of heat or contamination, including emulsified water, in petroleum-based lubricating/cooling media.
- ◆ Depending upon application requirements, fluid is drawn into the unit, filtered, cooled, and returned to existing machinery without disrupting the normal operation of your equipment.

Construction and Operation

- ◆ Typical systems consist of a gear pump close-coupled to a totally-enclosed, fan-cooled electric motor, a beta-rated spin-on filter*, a high-capacity water-removal filter*, a shell-and-tube heat exchanger*, a system pressure-limiting check valve and system piping.
 - ◆ In normal operation fluid is drawn from existing machinery by an electric motor-driven pump. It is then circulated through the filter(s) and/or cooler selected for the application and returned to the machinery. Water circulating through the cooler works to remove heat. Should a blockage or other obstruction stop output from the unit, the system pressure limiting valve permits fluid temporarily from recirculating within the system.
 - ◆ All package units are constructed of modular components for the greatest possible adaptability. Units different from standard packages can be built from inventory to fit your specific needs. Our technicians are on hand to assist you.
- * Depending upon customer selection (see "How to order" section).*

Options

- ◆ The most common options provided on standard systems include:
- ◆ Hoses: Suction and/or discharge hoses (10' standard length).
- ◆ Dirt Removal Filters: Available in various micron ratings (filtration levels).
- ◆ Water Removal Filters
- ◆ Heat Exchanger
- ◆ Differential Pressure Indicator: Signals that the filter element should be replaced.
- ◆ Dial Thermometer: Indicates fluid temperature.
- ◆ Low Flow Switch: Signals that an obstruction or other problem has reduced flow to the unit. The switch can be wired to shut off the electric motor, signal an alarm, etc.
- ◆ Water Modulation Valve: Significantly increases savings on cooling water by automatically regulating its consumption as a function of fluid temperature.
- ◆ 20-gallon Reservoir: Can be provided on stationary units for applications where the fluid reserve capacity of the existing machinery is insufficient.
- ◆ Immersion Heater: Can alleviate problems of low temperature that can adversely affect system performance (Note: Must be accompanied by 20-gallon reservoir).

Specifications

Electric Motor	TEFC, C-face, 1725 rpm 230/460v 3-phase or 115/208v single phase
Pump	Gear type, self priming to 10 inches vacuum
Heat Exchanger	Multipass, shell-and-tube, fixed-bundle type (water requirement rate at approximately 1/2 of oil flow rate)

Dirt Removal Filter	Spin-on type fiber glass element (available in 3, 6, and 23 micron beta-rated sizes; rated for over 99% particle removal over rated size)
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High flow/high viscosity units use 39" cartridge-type fiber glass elements (with the same filtration ratings as above)

Water Removal Filter	Spin-on type water absorption element
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Materials	Wetted and non-wetted parts: aluminum, carbon steel, brass, copper, buna-n rubber
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Specifications subject to change without notice.

Note: All pressure drops and performance characteristics are based on fluid viscosity of 150 SSU. Viscosity changes due, for instance, to temperature variations can significantly affect system performance. Contact an Oilquip technician about applications where viscosity can vary.

System Types



- ◆ Stationary units are designed for permanent or semi-permanent installation. Units are mounted on a steel skid and are shipped ready to be wired.

Dimensions	
Width	33"
Depth	13"
Height	21"
Approximate weight	95 lbs.

Dimensions	
Width	25"
Depth	23"
Height	50"
Approximate weight	130 lbs.

- ◆ Mobile units are designed for jobs where contamination and heat are an occasional problem. Standard mobile units are mounted on a heavy-duty dolly and come equipped with a 6' power cord.



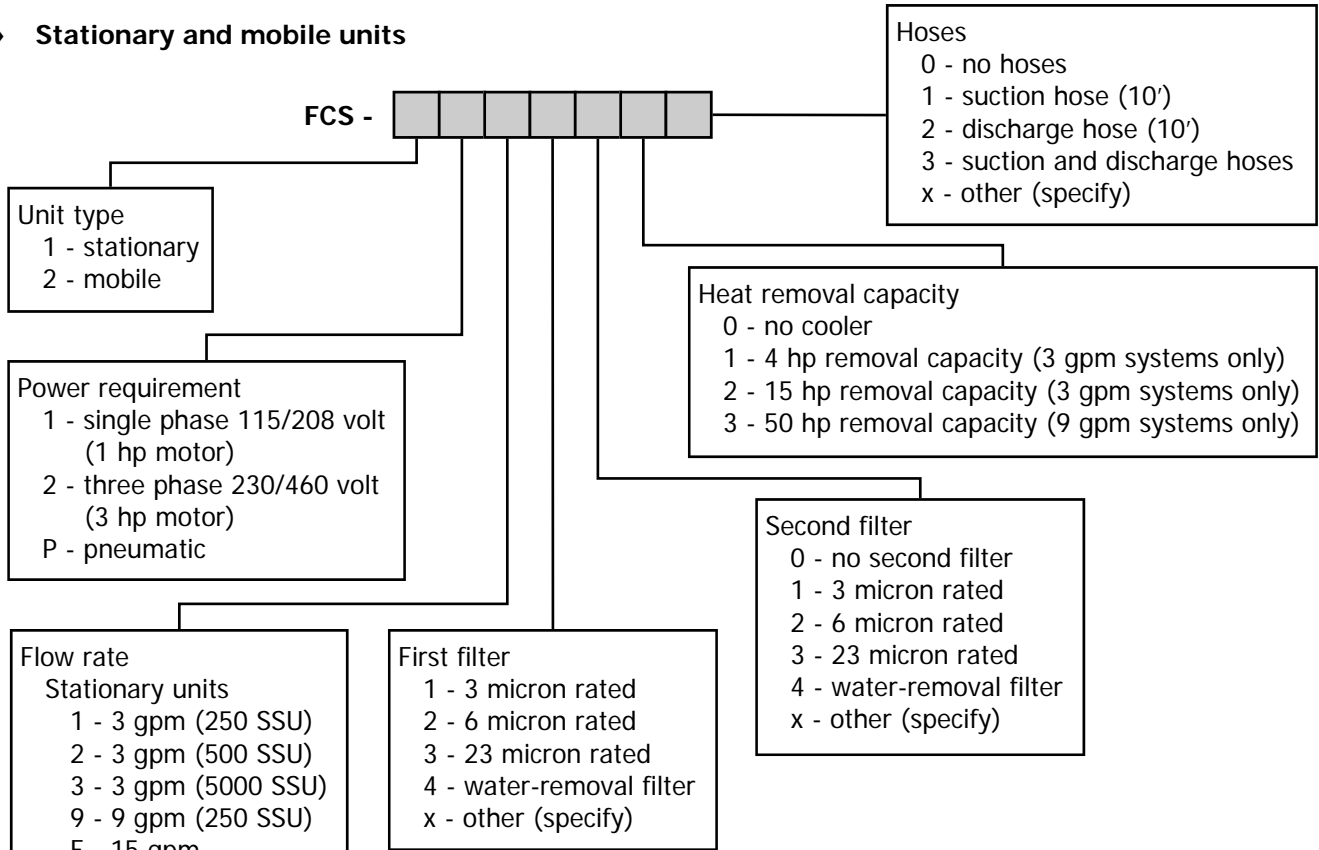
- ◆ High flow/high viscosity mobile units are mounted on a heavy-duty dolly with an integral drip pan, and include a motor starter ready for wiring.

Dimensions	
Width	32"
Depth	26"
Height	52"
Approximate weight	375 lbs.

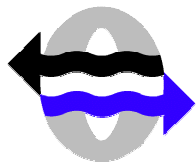
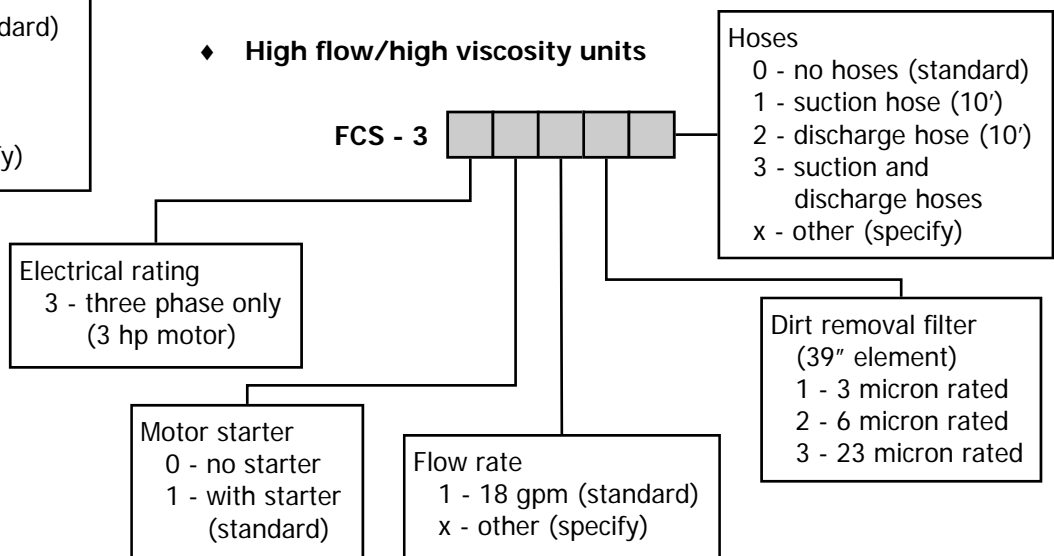
Note: Dimensions indicated are maximum envelope dimensions on standard units. Dimensional and weight specifications may vary significantly depending upon options selected.

How to order

◆ Stationary and mobile units



◆ High flow/high viscosity units



oilquipinc

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- ◆ All systems are built and tested in our fabrication facility in Lake Charles, Louisiana.
- ◆ Oilquip technicians are always available to answer technical questions, and provide assistance with these and all Oilquip products and services.

For more information, call us or contact your Oilquip sales representative.