



FCF SERIES
CENTRIFUGAL OIL
PURIFIER
For Lubricating Oil Water
Separation



Introduction and Application

FCF Series Centrifugal Oil Separator Purifier is mainly used for quickly separation of large quantity of free water, sedimented water and impurities from oil, it is widely used for the clarification and purification of lubricating oil, gasoline oil, ship heavy diesel oil, and turbine oil, reduce operating costs and extend the life of the engine.

FCF Series Centrifugal Oil filter Machine also can be applied to high viscosity lubricating oil, hydraulic oil clarification and purification to slow wear of diesel engine or other types of machines, and extend the service life of the machine and oil. This model can also be used for the separation of heterogeneous suspensions or emulsions in other fields.



Purify Lube Oil Efficiently with Centrifugal Separation

If the lube oil in your equipment is contaminated with particles and/or water, centrifugal separation is the better way to clean lube oil efficiently. With gravity force, particles and liquids of higher densities than oil are separated in the high-speed separator. The clean lube oil can then be recirculated into the production system, while sludge and water is safely contained to be taken care of separately.



Centrifuge oil purifier can work at the same high quality of effectiveness with a high flow capacity while cleaning the oil from both solids and water. FCF centrifugal lube oil purifier is one of the most cost efficient systems on the market, with lower operating costs than other oil cleaning options. With a wide range of centrifugal oil cleaning systems to choose from, ranging from a simple 'plug and play' to more sophisticated systems, it is simple to select the module to best suit your needs. Further savings is offered without the need to recurrently purchase filters elements. With cleaner oil, less corrosion and damage are done to the equipment - which can double the lifetime of major machinery.

Features

- 1). High effective Filtration System. Adopting progressive filtering tech, the best precision can be upto 5 micron, which can remove more than 99% of impurities from the oil.
- 2). High density heater system, which can speed up water removal by increasing oil temperature that can help water molecule get away from oil molecule more quickly after get heating. But over-heating may damage the oil' s quality, FUOTECH choose the high density heater system to solve this matter, making the heating load less than $1.5\text{W}/\text{cm}^2$, stable temperature controller controls the oil heating temperature automatically, safe and reliable.
- 3). Automatic water discharge and particles discharge (Automatic drainage and slagging), save lots of labours.
- 4). Original "one key control" technology, PLC system installed, only need press "AUTO" button, fully automatic operation, minimizing the manual operation errors.
- 5). With famous brands of electrical components and protection system for over-voltage, over-current, over-load, phases lacking, etc., any problems happen, the whole machine stops automatically.
- 6). Advanced protection for blockage on oil inlet point where vacuum transmitter is installed, if it's blocked, machine will stop automatically.



- 7). Continuous unmanned operation.
- 8). High separating efficiency.
- 9). Electric control panel with vacuum indicator, pressure indicator, digital type temperature controlling system with indicator and automatic shut-down system.
- 10). Able to be equipped with Heat recovery device as optional.

FCF Oil Centrifuge Machine Brings You

- Clean your lubricating oil, turbine oil, ship oil and other oils
- Elimination of large quantity of water content from lube oil
- Separate big quantity dirty impurities and particles
- Automatic contamination discharge
- On-line measuring and recording of process parameters
- Protect your machinery and equipment not to be damaged from contaminated oil

- Prolong your machinery and equipment lifetime and save maintenance cost
- Significantly reduce and save oil costs in terms of consumption, replacement and inventory
- Solve your waste oil disposal problem
- Maximum operating reliability
- Flexible adjustment relating to difficult and changing conditions of the in feed
- Nearly oil free discharge (no product loss)
- Create a safety and cleaning oil-using environment for your site
- Bring a green oil ideal to the world and save oil energy for the world

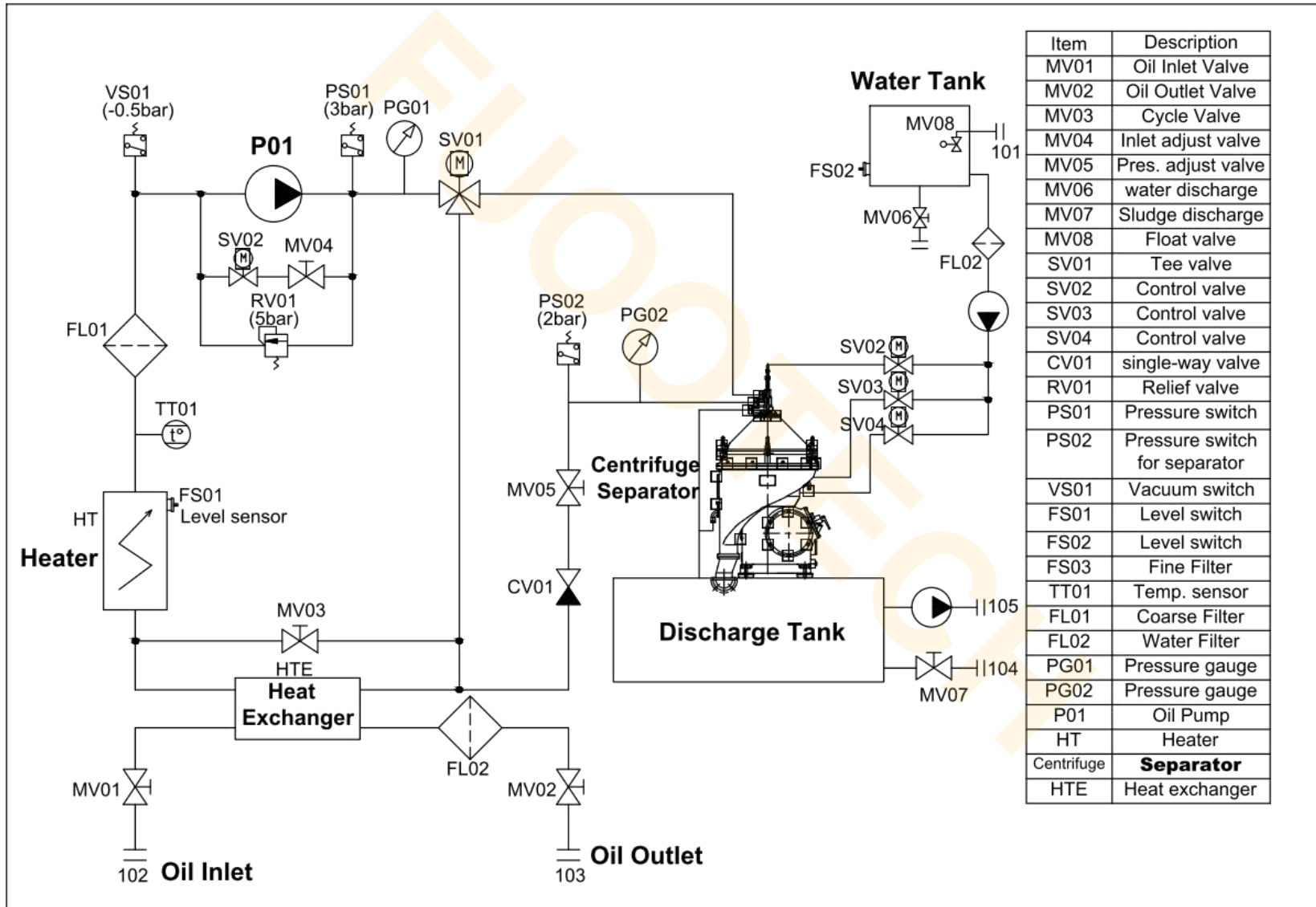


Technical Parameters

Parameters	Unit	Model FCF-8000
Capacity	Liter/hour	6000 ~ 8000
Rotation Speed	rpm	8000
Discharge mode		Automatic
Working Pressure	MPa	≤0.3
Temperature Control	℃	0 ~ 100
Operation Oil Temperature	℃	40 ~ 80 (automatic control)
Power Supply		380V, 50HZ, 3PH (or as per request)
Working hours without Trouble	Hour	≥5000
Continuous Working Hours	Hour	≥150
Working Noise	dB (A)	≤75
Heating Power – if there is it (adjusted available)	KW	135
Total Power	KW	150
Filter Precision	μ m	≤5
Inlet / Outlet Diameter	mm	DN50
Weight	KGS	1460
Dimension	mm	1800×1450×1900



Flow Diagram



Recommended Testers for Lubricating Oil

- ✧ Karl Fischer Water Content Tester
- ✧ Closed Cup Flash Point Tester
- ✧ Oil Acidity Tester
- ✧ Oil Interfacial Tension Tester
- ✧ Open Cup Flash Point Tester
- ✧ Closed Cup Flash Point Tester
- ✧ Oil Cloud Point & Pour Point Test Equipment
- ✧ Oil Kinematic Viscosity Tester
- ✧ Oil Density Meter
- ✧ Oil Particle Counter
- ✧ Dark Petroleum Products Sulfur Content Analyzer
- ✧ Petroleum Products Color Comparator
- ✧ Lube Oil/Grease Evaporation Loss Tester
- ✧ Online Oil Quality Tester
- ✧ Copper Corrosion Tester
- ✧ Distillation Range Tester
- ✧ Automatic Potentiometric Titrator
- ✧ Multi-functional Vibration Tester
- ✧ Automatic Petroleum Products Carbon Residue Tester
- ✧ Mechanical Impurities Tester
- ✧ Lubricants Oil Anti Abrasion Test Kit
- ✧ Aniline Point Tester Apparatus Testing Equipment
- ✧ Oil Octane Content Tester
- ✧ Online Dissolved Oxygen Test Equipment