Series PCS Portable Coalescence Separation Oil Purifier

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KEEP YOUR OILS CLEAN ● KEEP YOUR WORLD GREEN
WHO WE ARE

- **Fuootech Oil Filtration Group** is one of largest R&D based high-tech group engaged in designing, developing, manufacturing and exporting various vacuum oil/fluid purifiers, oil filtration system, oil regeneration machine and oil testing kits for various industries, helping clients all over the world solve various oil problems.

- **Fuootech** develops custom solutions for virtually any application involving industrial oil management. With **Fuootech** oil management systems, oils can be re-used indefinitely, thus drastically reducing new oil purchasing and waste oil disposal, protecting environment, and improving productivity for industries to be more competitive in the global economy.

- Nowadays, the company's sales and service network covers all the provinces of China and exports to more than 118 countries. Our products are more and more popular in domestic market and international market based on High quality, advanced technology, competitive price and excellent before & after sales service, as well as continuous technical supports.

- **Fuootech**’s oil filtration systems & oil testing kits are extensively used in the fields of electrical power, power station, power transmission, power generation, Petrochemical, petroleum, Paper and Pulp, compressor, mechanical manufacture, steel mills, electrical utilities, engineering contractors, metallurgy, railway, aviation etc. which are consuming various oils. More than 100 standard models are offered to different clients and also can be customerised according to actual need of oil solutions in different areas.
**Introduction**

- **Series PCS Portable Coalescence Separation Oil Purifier** which uses advanced Coalescence and Separation filters, gathers fine filter, high efficiency demulsification and dehydration into a integral whole. This machine, which can remove large of water without heating, creates the fastest dehydration speed in domestic at present.

- This machine can quickly separate water from the oil, which even contains half water, to attain cleanness of NAS Grade 6, Convenient using with the go-cart model designed.

- This machine also installs the high precision filter to remove various sizes of particles and impurities.

- It’s very suitable for treating light oils such as diesel oil, fuel oil, gasoline oil, and other industrial oils containing too much water but can not be heated.

- Pressure Gauge monitors the working status of machine and pollution levels continuously.

**Features**

- Use advanced Coalescence and Separation filters to separation large quantity of water content from the oils without heating

- As no heating is needed, the additives in the oil are well prevented from degradation or deterioration.

- Compact structure, small volume, light weight, easy to carry

- High quality and precision oil filter installed, repeated use, save cost, no contamination.

- Can be made into explosion-proof type, used at dangerous working area.

- Easy-to-operate, water can be discharged online

- Low operation cost, 20%-40% lower than vacuum purifier, centrifugal purifier and filter press.

- Stable and safe Operation with low noise.

- Can effectively purify the tiny and fine mechanical impurity from oil

- High precision filter used to remove various particles and impurities.
# TECHNICAL SPECIFICATION

<table>
<thead>
<tr>
<th>Parameters</th>
<th>Unit</th>
<th>PCS-10</th>
<th>PCS-20</th>
<th>PCS-30</th>
<th>PCS-50</th>
<th>PCS-80</th>
<th>PCS-100</th>
<th>PCS-200</th>
<th>PCS-300</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flow rate</td>
<td>L/H</td>
<td>600</td>
<td>1200</td>
<td>1800</td>
<td>3000</td>
<td>4800</td>
<td>6000</td>
<td>12000</td>
<td>18000</td>
</tr>
<tr>
<td>Working pressure</td>
<td>Mpa</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>≤0.3</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Working noise</td>
<td>Db(A)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>≤65-80</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Running hours without malfunction</td>
<td>H</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>≥4000</td>
<td></td>
</tr>
<tr>
<td>Continuous running hours</td>
<td>H</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>≥150</td>
<td></td>
</tr>
<tr>
<td>Power Supply</td>
<td></td>
<td>380 VAC, 50Hz, 3 Phase (or as per client’s requirement)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cleanliness After Purification</td>
<td>NAS</td>
<td>1638</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>≤6</td>
</tr>
<tr>
<td>Power</td>
<td>KW</td>
<td>0.75</td>
<td>0.75</td>
<td>1.1</td>
<td>1.5</td>
<td>2.2</td>
<td>3</td>
<td>5.5</td>
<td>7.5</td>
</tr>
<tr>
<td>Dimension (L × W × H)</td>
<td>mm</td>
<td>700 × 570</td>
<td>700 × 570</td>
<td>700 × 600</td>
<td>850 × 650</td>
<td>900 × 650</td>
<td>1000 × 700</td>
<td>1100 × 750</td>
<td>1200 × 800</td>
</tr>
<tr>
<td>Weight</td>
<td>Kg</td>
<td>80</td>
<td>90</td>
<td>105</td>
<td>135</td>
<td>150</td>
<td>185</td>
<td>200</td>
<td>230</td>
</tr>
</tbody>
</table>

The dimension and weight will be changed with changing of technical specs.
## Oil Result and Drawing

### Oil Result Before and After Treatment

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Suspended Particles (Filtration precision)</td>
<td>≤ 3 micron</td>
</tr>
<tr>
<td>Moisture (Water Content)</td>
<td>≤ 100 PPM</td>
</tr>
</tbody>
</table>

### Drawing

```
Inlet Dirty Oil → Primary filter → Coalescence Filter → Separation Filter
                 ↓                     ↓                         ↓
                Oil Pump            Cooler                  Water Outlet Discharge
```

Outlet Cleaned Oil → Oil Pump
1、Primary Filter  2、Oil Inlet  3、Electrical Control Box  4、Oil Outlet  5、Pressure Guage, showing the pressure of oil inlet  6、Pressure Gauge, showing the pressure of filters  7、Secondary Filter  8、Water Container  9、Oil Pump Motor  10、Oil Pump  11、Oil Pump Start Button  12、Oil Pump Stop Button
OPERATION PROCEDURE

- Put it on the plainness ground or the car body, make sure that the machine is steady, especially, keep the linking is fixedness and concentric between the motor and oil pump.

- Correctly connect the power supply, start up oil pump and make sure the rotation direction is correct, or else, change the phase order.

- Connect and fasten the each junction of the oil inlet pipe and outlet pipe, make sure that the connecting between oil outlet pipe and the oil outlet must be fasten, or else, the oil outlet pipe is easy to flush out when the pressure big.

- Start up the motor when you fixed the oil inlet pipe and outlet pipe, then the oil pump operates normally. The used oil should be filtered three grades.

- When a tank’s oil run out and need to filter another one, it is require to connect and fix the oil inlet pipe quickly, avoid the oil pump racing. Or else, you should stop the machine, and then start up the machine again when you connected and fixed the oil inlet pipe.
1. This machine mainly adopt the mechanical filter ways, progressively minish the density of the filter net, so approach to improve the filter precision. When the machine is operating, the first-grade is easy to be blocked, and then you will find that the capacity of oil outlet is smaller than inlet capacity.
   Manage way: Open up the first-grade filter’s cover, take out the filter net and clean the net by the same oil, then the machine can work normally again.

2. If the lift is too high during the oil pouring process, it will increase the motor’s temperature and the oil pump’s noise quickly.
   Manage way: (1) The lift according to the requirement. (2) Operate discontinuous

3. Oil pump’s noise abnormal
   Manage way: (1) Check the oil pump’s connecting shaft, and make sure it is concentric (2) Fasten the bolt

It is prohibitive that the power lack of the phase.
The industries we are also involving and servicing:

- Lubricant & Gearbox System
- Industrial Oil Flushing Service
- Mining & Minerals industry
- Power Generation Station
- Regional Electricity Utility
- Electric Power Transmission & Distribution Line
- Power Transformer
- Power Generation Station
- Electrical Panel & Switchgear Manufacturers and system integrators
- Mining & Minerals industry
- Power System Protection
- Steel & Iron Mill
- Hydraulic Power System
- Pulp & Paper Industry
- Cement Plant
- Oil & Gas field
- Lubricant & Gearbox System

More other industries are also not listed here, but also involved.
FUOOTECH’S PRODUCTS ARE FILTERING, PURIFYING, REGENERATING

- Insulating Oil
- Lubricating Oil
- Cable Oil
- Industrial Oil
- Transformer Oil
- Turbine Oil
- Vacuum Oil
- Transmission Oil
- Dielectric Oil
- Mutual Inductor Oil
- Switchgear Oil
- Circulating Oil
- Compressor Oil
- Cutting Oil
- Gear Oil
- Heat Transfer Oil
- Hydraulic Oil
- Cooking Oil (UCO)
- Fire Resistant Hydraulic Oil
- Engine Oil
- Coolant Oil
- Quench Oil
- Soluble Coolants
- Rolling Oil

and more ...

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BENEFITS FROM FUOOOTECH’S PRODUCTS

- Removes Dissolved Moisture from Transformer Oil
- Reduces combustible gases and oxygen
- Improves oil dielectric values
- Improves transformer power factor
- Extends oil service life
- Extends transformer service life and reliability
- Protect transformer, power station, power plants
- Zero disposal of waste oil
- Eliminate new oil purchases and reduce oil inventories
- Keep equipment working more efficiently
- Protect machinery and reduce maintenance time
- Create a cleaner environment
- Extended lubricant life
- Minimized “stick-and-slip” of bearings and gears
- Less wear on servos and O-rings
- Reduced machine downtime
- Less equipment maintenance
- Significantly reduced overall costs
- Cost savings from fewer oil changes, less associated labor
- Eliminate oil changes by always keeping oil like new
- Fuel consumption savings through increased engine efficiency
- Extend engine life with resultant increased times between major overhauls and reduced capital expenditure to replace damaged equipment
- Win profits from our oil purifier machines when you resell or rent to others

“We’re saving over $150,000 a year, and re-claiming almost 100% our oil — our disposal bills are almost nothing. Plus, our employees are happier!”

Purify your waste oil — it’s money in the bank.
FUOOTECH’S OVERSEA PROJECTS & TRAINING

South Africa                          Pakistan                               Saudi Arabia
Tanzania
Bangladesh                           Malaysia                               Cambodia
Dubai, UAE
Zambia                                     Nigeria                                   Laos
Zimbabwe

More projects are not listed here

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FuooTech Oil Filtration Group has a professional after-sales service team. We are in the spirit of "high quality, excellent service, create first-class brand" and base on the principle of "quality equipments, reasonable price and warm-heat service". We can provide our customers free installation and adjustment of machine, free training and two years warranty from final acceptance.

During warranty period, if the purchaser discovers defects in workmanship and or material and so notifies the supplier promptly in writing, we have the responsibility to dispatch the technician and provide supplementary accessories within twenty days from the date of receipt of written notification from the purchaser.

We will provide 24-hour one-stop service to ensure that we can deal with customer issues in first time.
Service target: Always to provide customers with satisfactory service.

We also provide OEM & ODM Service & Solutions to your specific needs according to the actual market plan. Please Contact Us for more details.

7*24 Technical Supports and After-sale services are also available for all clients.
We also provide the professional installation, commissioning, training services for customers at their working site.
Technical Upgrade and improvement are also belongs to our experienced services.

For more services, please don’t hesitate to contact us. We will provide you the best solutions.
CONTACT US

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Thank You!
LOOK FORWARD TO COOPERATING WITH YOU!

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