

## Company Profile & Product Catalogue

**KEEP YOUR OILS CLEAN  
KEEP YOUR WORLD GREEN**



Tel/Fax: 0086 23 8823 9845  
Mob/WhatsApp: 0086 135 2739 0908  
Add: No.5 Hongshi Street, Jiulongpo District, Chongqing, China



# WHO WE ARE

- ◆ **Fuootech Oil treatment Group** is one of largest R&D based high-tech group engaged in designing, developing, manufacturing and exporting various vacuum oil/fluid purifiers, oil treatment system, oil regeneration machine , transformer evacuation system, dry air generator, electrical testing equipment and oil testing kits for various industries for more than 18 years, 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 treatment 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 customized according to actual need of oil solutions in different areas.



# WHAT WE ARE MANUFACTUREING & EXPORTING



## Main Product Category



### Oil Filtration Machines

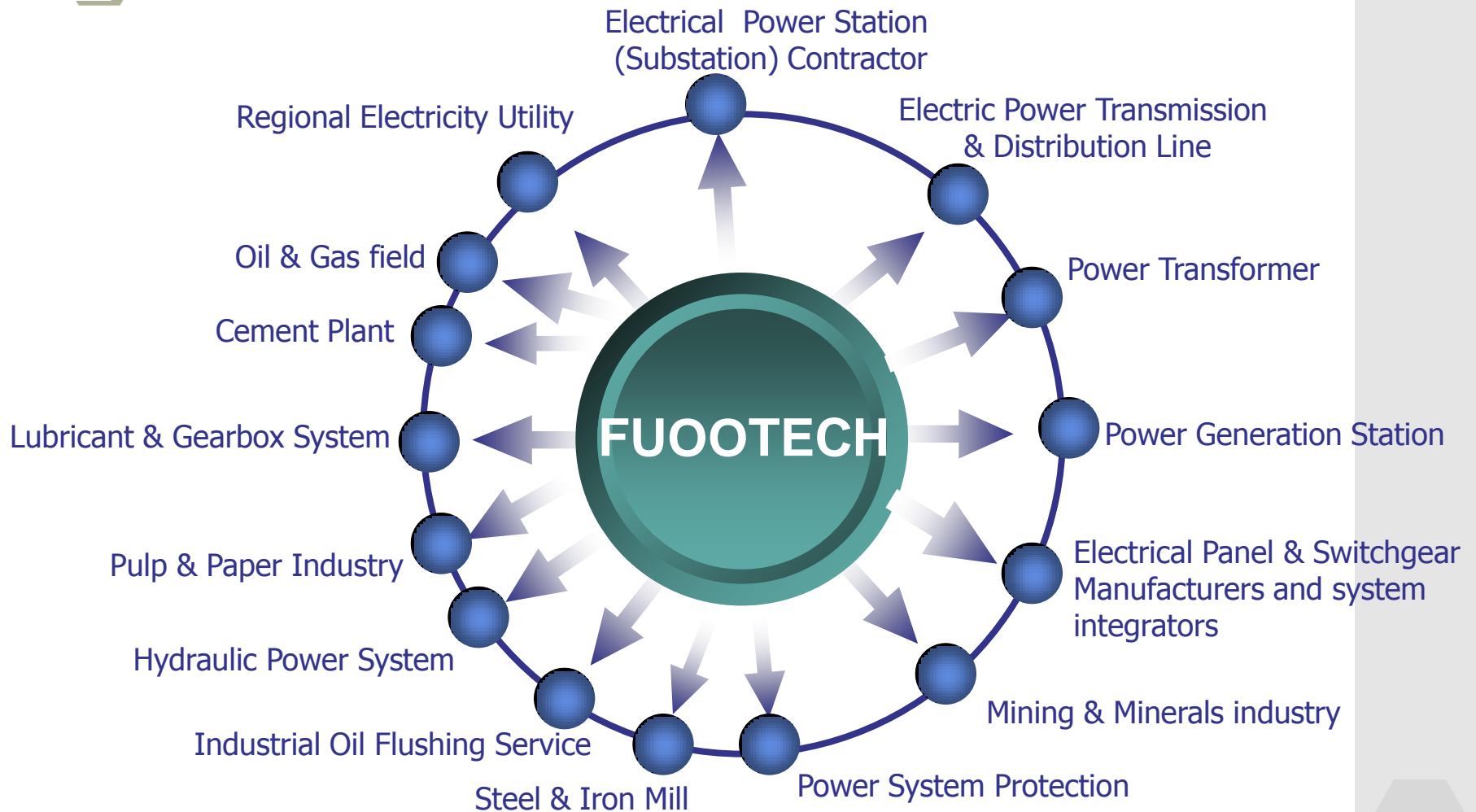
- Transformer Oil Filtration Machine
- Insulating Oil Treatment Plant
- Transformer Oil Purifier
- Dielectric Oil Purification System
- Transformer Oil Regeneration Unit
- Lubricating Oil Purifier
- Turbine Oil Purifier
- Portable High Precision Oil Purifier
- Transformer Evacuation System
- Cooking Oil Recycling Machine
- Oil Water Separation & Filtration System
- Hydraulic Oil Cleaning System

### Oil Test Sets

- Transformer Oil BDV Tester
- Oil Dielectric Loss Tester
- Transformer DC Resistance Tester
- 10KV Insulation (Resistance) Tester
- Automatic Interfacial Tension Tester
- Oil Tan Delta Tester
- Transformer Turns Ratio Test Set



# THE INDUSTRIES WE ARE INVOLVING AND SERVICING



More other industries are also not listed here, but also involved





## OUR MAIN PARTNERS & CLIENTS



هيئة كهرباء ومياه دبي  
Dubai Electricity & Water Authority



KARACHI ELECTRIC  
SUPPLY COMPANY



Bangladesh Power Development Board



More other partners and clients are also not listed here

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

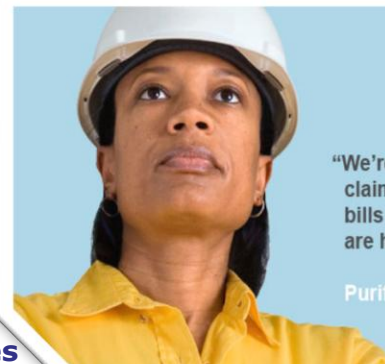
# FUOOTECH'S PRODUCTS ARE FILTERING, PURIFYING, REGENERATING

- ◆ **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 ...**



# BENEFITS FROM FUOOTECH'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



# TECHNICAL SUPPORTS & AFTER-SALE SERVICES

◆ FuooTech Oil treatment 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.



# Series ZYD Double-stage Vacuum Transformer Oil Filtration Machine



## Technical Specification

Parameters		Model Unit	ZYD-30	ZYD-50	ZYD-100	ZYD-150	ZYD-200	ZYD-250	ZYD-300
Flow Rate		L/H	2000	3000	6000	9000	12000	15000	18000
Working Vacuum Degree		MPa	-0.08 ~ -0.099						
Working Discharge Pressure		MPa	≤ 0.3						
		℃	20 ~ 80						
Operation Temperature		℃	40 ~ 70 (65℃ is best)						
Power Supply			380V, 50Hz, 3 phases (or as per your requirements)						
Working hours without Trouble		Hour	4000						
Continuous Working Hours		Hour	150						
Ambient Temperature			-25 ~ 55℃						
Working Noise		dB (A)	65 ~ 90						
Heating Power (adjusted available)		KW	30	36	48	60	72	80	120
Total Power		KW	35.5	42	52.5	68	82	93	135
Inlet/Outlet		mm	φ25	φ32	φ42	φ50	φ50	φ60	φ60
Weight		Kg	600	700	1050	1150	1450	1600	1950
Dimension	Length	mm	1380	1610	1750	1850	1950	2050	2200
	Width	mm	1020	1250	1350	1400	1500	1600	1750
	Height	mm	1760	1950	2150	2200	2300	2400	2550

The dimension and weight will be changed with changing of technical specs.

- Series ZYD double stages vacuum oil filtration system, comparing single stage vacuum oil purifier, besides a rotary vane vacuum pump, ZYD machine installs one more booster roots pump vacuum system which speed up evacuation much faster.
- Series ZYD oil filtration machine is particularly suitable for treating high-grade transformer oil, super-voltage transformer oil and new transformer oil. It can be used for filtration of more than 110V substation live line work onsite. Meanwhile, It can also be used as independent vacuum source with functions of vacuum drying and vacuum oiling.

### Features:

- Duplex 3D stereo-evaporation, efficient oil film sprayer, eliminating the liquid water quickly, increasing separating size and separating time to ensure the dry-level and dielectric strength improving greatly.
- Double-stage vacuum system, high vacuum pressure and high flow rate, strong power of vacuum evacuating,
- Multi-stage precision filtration system, mesh filtration combined with molecular adsorption technologies
- Efficient electric heating system, heating uniformity, less power consumption, safe, and reliable.
- Double-infrared liquid level sensor, pressure protective system to ensure machine operation easy and safely.
- Especially applied to vacuum oiling and drying (Hot Oil Circulation / on-site Drying) for power transmission equipments which are over 110KV.
- Adopt interlocked protective system, which connect oil pump, heater and liquid level sensor, avoiding blank heating, blank pumping, oil leak and electricity leak. If there is any fault, machine will be power off automatically.
- Advanced dielectric Condenser devices and flow meter measuring the flow rate.
- Low maintenance cost and time.
- Based on different working needs, PLC, Fully enclosure, mobile trailer, explosion-proof, and other types can be designed.

### Oil Result After Treatment

Moisture (Water Content)	≤ 5 PPM
Gas Content	≤0.01% (Vol)
Impurities Degree (Filtration precision)	≤ 5 micron (no free carbon)
Breakdown Voltage (Dielectric)	≥70 KV
Flash Point	≥ 145 ℃
Cleanliness	≤NAS 1638 Grade 6

# Series ZY Small Portable Single-stage Vacuum Transformer Oil Purifier



## Technical Specification

Parameters	Unit	ZY-10	ZY-20	ZY-30	ZY-50	ZY-100	ZY-150	ZY-200	ZY-300
Flow rate	LPH	600	1200	1800	3000	6000	9000	12000	18000
Working vacuum	MPa	-0.06 ~ -0.095							
Working pressure	MPa	≤0.4	≤0.4	≤0.4	≤0.5	≤0.5	≤0.5	≤0.5	≤0.5
Working without Trouble	H	≥4000							
Continuous Working	H	≥150							
Temperature range	℃	20 ~ 80							
Power supply		380V, 3 phase, 50 Hz (or as per your requirements)							
Working noise	dB (A)	≤ 61 ~ 85							
Heating power	KW	12	13	15	30	48	60	72	90
Total power	KW	13.5	14.5	16.5	33.5	53	65	76	98
Inlet/outlet caliber	mm	φ25	φ25	φ25	φ32	φ42	φ50	φ65	φ65
Weight	Kg	230	250	280	300	550	700	950	1200
Size	L	mm	1050	1100	1150	1200	1600	1650	1800
	W	mm	750	850	900	950	1000	1100	1200
	H	mm	1300	1400	1450	1500	1800	1850	1900

◆ ZY Series small portable single-stage vacuum transformer oil purifier is mainly designed for the power station, industrial and mining enterprises purifying the unqualified transformer oil when power transformer below 110 kV, mutual inductor oil, switch oil and so on.

◆ ZY Series can remove liquid water, trace water, gas, particles from oil quickly and effectively, improving oil dielectric strength. Also, this oil purifier can be used to power equipments to vacuum drying, vacuum oiling, and vacuum pumping.

## Features:

- ◆ Duplex-Stereo 3D film evaporation technology, combined with unique and advanced dewatering, degassing components, can rapidly and effectively separate water, gas from oil.
- ◆ Multi-stage precision filtration system, stainless steel filters' filtration combined with molecular adsorption technologies, remove different sizes of impurities and particles thoroughly.
- ◆ Efficient carbon infrared electric heating system, heating uniformity, less power consumption, safe, and reliable.
- ◆ Double-infrared liquid level controlling system and pressure protective system ensure the machine operation easy and safely.
- ◆ Fully automatic temperature controlling system, digital type temperature gauge and temperature sensor, monitoring and controlling oil's actual heating condition and temperature.
- ◆ can works as vacuum oil filling machine, vacuum drying system and vacuum pumping system.
- ◆ Small volume, light weight, easily movable, low maintenance cost and time.

## Oil Result After Treatment

Moisture (Water Content)	≤ 5 PPM
Gas Content	≤0.1% (Vol)
Impurities Degree (Filtration precision)	≤ 5 micron (no free carbon)
Breakdown Voltage (Dielectric)	≥65 KV
Flash Point	≥130℃
Cleanliness	≤NAS 1638 Grade 6

The dimension and weight will be changed with changing of technical specs.



# Series ZYD-O Mobile Trailer Mounted & Fully Enclosed Type Double-stage Vacuum Insulating Oil Treatment Plant



## Technical Specification

Parameters	Model Unit	ZYD-O-30	ZYD-O-50	ZYD-O-100	ZYD-O-150	ZYD-O-200	ZYD-O-250	ZYD-O-300
Flow Rate	L/H	1800	3000	6000	9000	12000	15000	18000
Working Vacuum Degree	MPa	-0.08 ~ -0.099						
Working Discharge Pressure	MPa	≤ 0.3						
	℃	20 ~ 80						
Operation Temperature	℃	40 ~ 70 (65℃ is best)						
Power Supply		380V, 50Hz, 3 phases (or as per your requirements)						
Working hours without Trouble	Hour	4000						
Continuous Working Hours	Hour	150						
Ambient Temperature		-25 ~ 55℃						
Working Noise	dB (A)	65 ~ 90						
Heating Power (adjusted available)	KW	30	36	48	60	72	80	120
Total Power	KW	35.5	42	52.5	68	82	93	135
Inlet/Outlet	mm	φ25	φ32	φ42	φ50	φ50	φ60	φ60
Gross Weight (KGS)	Machine Part	600	830	1190	1350	1490	1600	1950
	Trailer Parts	380	430	500	570	640	700	800
Dimension L×W×H (mm)	Machine Part	1450 × 1050 × 1860	1710 × 1350 × 2150	1900 × 1420 × 2190	1940 × 1480 × 2220	2120 × 1500 × 2240	2150 × 1700 × 2350	2300 × 1850 × 2460
	Trailer Parts	2700 × 1760 × 1010	2760 × 1860 × 1050	2900 × 1900 × 1060	3010 × 1920 × 1060	3020 × 1940 × 1070	3050 × 1980 × 1090	3090 × 2000 × 1120

## Oil Result After Treatment

Moisture (Water Content)	≤ 3 ~ 5 PPM
Gas Content	≤ 0.01% (Vol)
Impurities Degree (Filtration precision)	≤ 3 ~ 5 micron (no free carbon)
Breakdown Voltage (Dielectric)	≥ 70 KV
Flash Point	≥
Cleanliness	≤ NAS 1638 Grade 6

The dimension and weight will be changed with changing of technical specs.

# Series FTVS Double-stage Transformer Evacuation System, Vacuum Pump Group



## Technical Specification

Technical Parameter	FTVS-30	FTVS-70	FTVS-150	FTVS-300	FTVS-600	FTVS-1200
Gas Pumping Speed (L/s) --- for Roots (Mechanical Booster) Vacuum Pump	30	70	150	300	600	1200
Capacity (m <sup>3</sup> /h) --- for Roots (Mechanical Booster) Vacuum Pump	108	252	540	1080	2160	4320
Gas Pumping Speed (L/s) --- for Rotary Vacuum Pump	8	15	30	70	300	500
Capacity (m <sup>3</sup> /h) --- for Rotary Vacuum Pump	28.8	54	108	252	1080	1800
Limited pressure (Pa) for rotary vacuum pump	6 × 10 <sup>-2</sup>					
Limited pressure (Pa) for Roots (Mechanical Booster) pump	5 × 10 <sup>-2</sup>					
Total Electric Power (kw)	1.65	2.6	6	9.5	10.7	20.5
Main Pump Type	ZJP -30	ZJP -70	ZJP -150	ZJP -300	ZJP -600	ZJP -1200
Front Stage Pump Type	2X-8	2X-15	2X-30	2X-150	2X -300	2X -500
Wire size of power supply input ≥(mm <sup>2</sup> )	1	1.5	3	4	6	8
Power Supply	50Hz, 380V (3 Phase, 4wire) – or as per your requirement					
Gas Inlet Caliber (mm)	DN50	DN80	DN100	DN160	DN200	DN250
Gas Outlet Caliber (mm)	DN34	DN60	DN70	DN90	DN70	DN90
Overall Dimensions (cm)	125×100×170	140×110×198	170×120×210	175×135×220	175×145×215	190×160×269

Series FTVS Double-stage Transformer Evacuation System, vacuum pump set is a new type of vacuuming equipment developed and produced by our company. It is widely used in the process of producing vacuum condition for various equipments. Its vacuum pressure can reach much lower than any other products in the same field.

It is widely used in the vacuuming process in the production, installation and maintenance of many electric power equipments, like electric power transformer, capacitor etc., and is also used in the technical process of industrial production, such as vacuum drying, vacuum distillation, vacuum welding, vacuum coating etc.

It is not suitable for the vacuum process for air and gases containing too much powder, water and oxygen as well as explosive, corrosive, poisonous and chemical substances.

## Features:

1. This adopts special Roots pump and vacuum pump (various famous brands are available), so the vacuum pumping speed and pressure, are obviously better than any other devices.
2. Working vacuum range and maximum vacuum degree are superior to other products.
3. Consist of necessary high quality pipelines and valves to operate the system.
4. It is installed with special vacuum gauge for accurate indication.
5. Stable and reliable operation, low noise, and easy to move with trolley.
6. Fully Enclosed for weather proof, can be used in outside fields.

The dimension and weight will be changed with changing of technical specs.

# Series FOT Fully Automatic Transformer Oil BDV Tester



- ◆ Series FOT Fully Automatic Transformer Oil BDV Tester is applied to test the insulating oil's dielectric strength (break-down voltage value), which is designed as per the requirement of IEC60156 Testing Method of Insulation Oil Medium Strength, which via proper programming, has got functions of auto boosting, step down, stirring, display and print out. After breakdown of oil medium, HV break off will operate within 10 seconds to enable an auto isolation of control system partly; this effectively safeguards the personnel security and equipment safety.
- ◆ Series FOT Fully Automatic Transformer Oil BDV Tester adopts industrial SCM to control, which is applied to integrate circuit, new model I/O connection, particular testing and anti-jamming technology which largely improve the machine's capacity.

## Main features:

- ◆ Simple operation, fully automatically (can be finished just press on key)
- ◆ Menu controlled. Input data can be cleared
- ◆ Can store 99 groups' oil testing data which is convenient to reading and print. The testing data can keep 100 years under the condition of power off.
- ◆ System time can go on running under power off;
- ◆ (The system time just for reference can not be the standard of timing)
- ◆ Can upgrade software through RS232
- ◆ High capacity of anti-jamming and high precision of testing.
- ◆ Small volume, light which operated in the open air very conveniently.
- ◆ The set shall be provided with smooth and continuous of output voltage between zero and maximum having no distortion of waveform.
- ◆ Audio sound and visual signal will indicate at the instant of sample failure.

## Technical Specification

- ◆ Power supply: AC220V  $\pm 10\%$  , 50 HZ
- ◆ Output voltage: 0 to 60KV, 80KV, 100KV
- ◆ Capacity: 1.6KVA (for 60KV & 80KV), 2.0KVA (for 100 kV)
- ◆ Speed of Voltage increase: about 2 kva/s
- ◆ Voltage inspection accuracy: 3%
- ◆ Dielectric strength sensitivity :  $< 2KV$
- ◆ Wave form distortion :  $\leq 3\%$
- ◆ Time of dielectric strength:  $\leq 10ms$
- ◆ Working Environment: Temperature:  $0^{\circ}C \sim 80^{\circ}C$ , humidity: max relative humidity 85%
- ◆ Storage environment: temperature:  $-30^{\circ}C \sim 60^{\circ}C$ , humidity: max relative humidity 75%
- ◆ Work height:  $\leq 1500m$  (If over 1500M, It can be customized)
- ◆ Test cell: Glass, volume 300 to 500 ml, with protective cover and stirrer.
- ◆ Electrodes: diameter/hemispherical 2.5mm gap
- ◆ Dimension & Weight:
- ◆ Before packed: 380 × 370 × 380 mm
- ◆ Net Weight: 40 KGS
- ◆ After packed: 480 × 470 × 490 mm
- ◆ Gross Weight: 50 KGS







# Series ZYD-R Four Stage Vacuum & Double Stage Chamber Type Transformer Oil Regeneration System



## Technical Specification

Parameters		Model Unit	ZYD-R-30	ZYD-R-50	ZYD-R-100	ZYD-R-150	ZYD-R-200	ZYD-R-250	ZYD-R-300
Flow Rate		L/H	1800	3000	6000	9000	12000	15000	18000
Working Vacuum Degree		MPa	-0.08 ~ -0.099						
Working Discharge Pressure		MPa	≤ 0.3						
		°C	20 ~ 80						
Operation Temperature		°C	40 ~ 70 (65°C is best)						
Power Supply			380V, 50Hz, 3 phases (or as per your requirements)						
Working hours without Trouble		Hour	4000						
Continuous Working Hours		Hour	150						
Ambient Temperature			-25 ~ 55°C						
Working Noise		dB (A)	65 ~ 90						
Heating Power (adjusted available)		KW	30	36	48	60	72	80	120
Total Power		KW	35.5	42	52.5	68	82	93	135
Inlet/Outlet		mm	φ25	φ32	φ42	φ50	φ50	φ60	φ60
Weight		Kg	850	960	1080	1200	1490	1700	2050
Dimension	Length	mm	1480	1730	1830	1960	2010	2070	2230
	Width	mm	1150	1360	1390	1410	1550	1660	1780
	Height	mm	1800	1930	2170	2200	2310	2400	2580

The dimension and weight will be changed with changing of technical specs.

- Series ZYD-R Four Stage Vacuum & Double Stage Chamber Type Transformer Oil Regeneration System is developed from Series ZYD-I, which mainly satisfy some clients who want the highest special transformer oil's quality even higher than new oil's quality.
- It is mainly for treating & regenerating the used and old transformer oil, mutual oil, and switch oil, which power transformers are above 110 kV in the big power station and power transmission station.
- The oil's quality after regenerated by Series ZYD-R is equal or higher than new oil's quality, which can be used directly into transformers.
- This machine can dewater, degas and remove the impurity more deeply with high speed, and improve oil's BDV Value much higher and faster. Also it can fill the insulating oil into the transformers on-line.
- This system is equipped with Four (2-2) Stages vacuum system which consists 2 sets of double-stage vacuum system can give much higher vacuum degree value, and one of these can be used to pump vacuum from transformers independently.
- Series ZYD-R also consist two stages of vacuum degassing and dehydration chambers which is capable of removing large portion of water content and gas/air content from the oil. It's two times than normal one stage vacuum chamber.
- Carbon fiber infrared heating system that can make the oil contains zero sum of ethyne after the regeneration.

## Oil Result After Treatment

Moisture (Water Content)	≤ 3 PPM
Gas Content	≤0.01% (Vol)
Impurities Degree (Filtration precision)	≤ 1 micron (no free carbon)
Breakdown Voltage (Dielectric)	≥75 KV
Flash Point	≥ 145°C
PH Value	≥5.5
Acid Value	≤0.03mgkoH/g
Dielectric loss	tgδ(90°C)%≤0.001
Cleanliness	≤NAS 1638 Grade 6



# Series ZYB Multi-Function Single-stage Vacuum Transformer Oil Purifier Machine



## Technical Specification

Parameters	Unit	ZYB-10	ZYB-20	ZYB-30	ZYB-50	ZYB-100	ZYB-150	ZYB-200
Flow Rate	L/hr	600	1200	1800	3000	6000	9000	12000
Vacuum degree	Mpa	-0.08 ~ -0.098						
Working pressure	Mpa	≤0.4			≤0.5			
Temperature degree	℃	20 ~ 80						
Power Supply		380V, 50 Hz, 3 Phase (or as per requirement)						
Working noise	dB(A)	≤50 ~ 80						
Electric heating power	KW	12	15	18	30	60	90	120
Total Power	KW	14	18	21	35	67	102	135
Inlet (outlet) caliber	mm	Ø25	Ø25	Ø25	Ø32	Ø42	Ø50	Ø50
Dimension (L × W × H)	mm	1400 × 900 × 1500	1500 × 900 × 1550	1600 × 950 × 1650	1650 × 950 × 1700	1650 × 1000 × 1800	1700 × 1050 × 1850	1800 × 1100 × 1900
Weight	Kg	380	400	450	600	800	850	900

◆ Series ZYB Multi-function Transformer Oil Purifier is special for purifying and regenerating the old or unqualified or seriously deteriorated insulating oils when power transformers below 220 kV.

◆ The Series ZYB system not only provides regular oil purification such as degassing, dehydration and particles removal but also can remove polar material, acidity, sludge, hydrocarbons, other soluble oil decay products and discoloration.

◆ This is accomplished by the use of high vacuum degasification technology, special oil regeneration system application and particulate filters combined with our special brand of earth. After treating, the oil can be reused as new so as to protect the electrical equipments working safely and normally.

◆ Meanwhile, this machine can be as a dryer and oiling machine for drying the electrical apparatus, and filling the insulating oil into the transformer under the vacuum situation. So it is very suitable for electrical apparatus manufacture factory, power station, power supply department, transformer in railroad station and other departments.

◆ Duplex 3D stereo-evaporation, eliminating the liquid water quickly

◆ UK g technology by which the trace water that is show chain, such as dissolved water, can be removed effectively.

◆ High precision and multi-stage filtration process, remove various size of particles and impurities.

◆ Low maintenance time and cost

### Oil Result After Treatment

Moisture (Water Content)	≤ 5 PPM
Gas Content	≤0.1% (Vol)
Impurities Degree (Filtration precision)	≤ 3 micron (no free carbon)
Breakdown Voltage (Dielectric)	≥65 ~ 70 KV
Flash Point	≥135℃
PH Value	≥5.5
Acid Value	≤0.04mgkoH/g
Dielectric loss	tgδ(90℃)%≤0.003
Cleanliness	≤NAS 1638 Grade 6

The dimension and weight will be changed with changing of technical specs.

# Series FTY Vacuum Turbine Lube Oil Filtration & Dehydration Machine



## Technical Specification

Item	Unit	FTY-10	FTY-20	FTY-30	FTY-50	FTY-100	FTY-150	FTY-200	FTY-300
Flow rate	L/hr	600	1200	1800	3000	6000	9000	12000	18000
Working Vacuum Degree	MPa	-0.06 ~ -0.095							
Working Pressure	MPa	≤ 0.3							
	℃	20 ~ 80							
Power Supply		380 VAC, 3 Phase, 50 Hz (or as per requirement)							
Heating power	kW	12	15	24	30	45	60	72	84
Total power	kW	14	17	26	33	48	66	81	97
Inlet/outlet caliber	mm	Φ25	Φ25	Φ25	Φ32	Φ42	Φ42	Φ50	Φ65
Weight	kg	400	450	500	600	700	900	1200	1550
Dimension	Length	mm	1280	1350	1350	1400	1500	1500	1750
	Width	mm	750	900	950	950	1000	1200	1450
	Height	mm	1450	1450	1500	1600	1650	1800	1950

The dimension and weight will be changed with changing of technical specs.

◆ The oil used for lubrication system of turbine generators need maintenance and treatment because it may be mixed with air, water and impurities. Otherwise, it can speed up oil quality turning bad or break down the adjuster and protection system, damage the plain journal bearing, and influence the whole machine running.

◆ Our Series FTY vacuum turbine lube oil Filtration & Dehydration Machine is specially designed for purifying various unqualified turbine oil (such as ISO – VG – 46, 32, 68, etc.) from steam turbine system, gas turbine system & Fans, especially for serious emulsion turbine oil, it can quickly and efficiently break emulsification, separate water, gas, particles from oil. So that makes sure quality of treated oil to achieve new oil's standard, ensure whole turbine system work safely.

◆ This equipment use a special polymer materials as filter medium combined with vacuum separating technology to break emulsification, dewater, degas, remove acid and particles, make the badly turbid turbine oil becomes clean. Series FTY is a perfect turbine oil purifier for live line work; also it can purify low viscosity hydraulic oil and lube oil.

## Oil Result After Treatment

Moisture (Water Content)	≤ 80 PPM
Gas Content	≤0.1%
Filtering Accuracy	≤ 5 micron
Demulsification Value	≤12 min (GB/F 7305)
Cleanliness	≤NAS 1638 Grade 6



# Series LOP Vacuum Lubricating Oil Purifier



## Technical Specification

Item	Unit	LOP-10	LOP-20	LOP-30	LOP-50	LOP-100	LOP-150	LOP-200
Flow rate	L/H	600	1200	1800	3000	6000	9000	12000
Vacuum degree	Mpa	-0.06 ~ - 0.095						
Working pressure	Mpa	≤0.4						
	℃	0 ~ 100						
Operation Temperature	℃	50 ~ 70						
Demulsification	Min	New oil≤15min, running oil≤30min						
Power supply		380 VAC, 50 Hz, 3 Phase (or as per required)						
Working noise	DB (A)	≤ 65 ~ 90						
Electric heating power	KW	18	24	26	30	48	60	96
Total electric power	KW	19.3	25.3	27.6	32.6	56	69	106.5
Inlet (outlet) caliber	mm	Φ25	Φ25	Φ25	Φ32	Φ42	Φ50	Φ50
Dimension (L × W × H)	mm	1500 x1000 x 1500	1550 x1050 x1600	1600 x1050 x1650	1600 x 1150 x1700	1750 x1250 x 1800	1900 x1600 x1950	1900 x1700 x2000
Weight	Kg	450	550	600	750	850	1000	1200

The dimension and weight will be changed with changing of technical specs.

◆ Series LOP vacuum lubricating oil purifier is used to purify and recover various industrial lubricating oils such as hydraulic oil, refrigeration oil, coolant oil, gear oil, mechanical oil, heat treatment oil, quench oil, etc...

◆ Lubricating oil contaminated by water, gas, impurities will decrease the life of machines and equipments. Series LOP vacuum Lubricating oil purifier has perfect capability of removing impurities, gas, water and doing deep precision filtering. It can improve properties of lubricating oil, such as viscosity and flash point. After purification by this oil purifier machine, the oil can be reused in various industrial equipment and reduce ecological disposal problems.

◆ Series LOP vacuum lubricating oil purifier is widely applied in petroleum, chemical, mining, metallurgy, electric power, transportation, machinery manufacturing, railway etc. And it is the most reliable, versatile, durable, and user-friendly purification systems in the industry nowadays.

◆ Advanced dehydration and gas separating system, duplex 3D stereo-evaporation technology ensures fast speed removal of water and gas in the oil.

◆ Strong ability of breaking emulsification, remove more free water and dissolved water content.

◆ Strong ability of removing particle & impurities through multi-stage high precision filters.

◆ Electric control panel with vacuum indicator, pressure indicator, digital type temperature controlling system with indicator and automatic shut-down system.

◆ Top-quality components, good mechanical performance and workmanship ensure years of maintenance-free operation and performance

# Series HOC Hydraulic Oil Cleaning & Filtration System



## Technical Specification

Item	Unit	HOC-10	HOC-20	HOC-30	HOC-50	HOC-100	HOC-150	HOC-300
Flow rate	L/H	600	1200	1800	3000	6000	9000	18000
Vacuum degree	Mpa	-0.06 ~ - 0.095						
Working pressure	Mpa	≤0.4						
	℃	0 ~ 100						
Operation Temperature	℃	50 ~ 70						
Power supply		380 VAC, 50 Hz, 3 Phase (or as per required)						
Working noise	DB (A)	≤ 65 ~ 90						
Electric heating power	KW	18	24	26	30	48	60	135
Total electric power	KW	19.3	25.3	27.6	32.6	56	69	147
Inlet (outlet) caliber	mm	Φ25	Φ25	Φ25	Φ32	Φ42	Φ50	Φ60
Dimension (L × W × H)	mm	1190 x1000 x 1400	1550 x1050 x1600	1600 x1050 x1650	1600 x 1150 x1700	1750 x1250 x 1800	1900 x1600 x1950	2100 x1700 x2100
Weight	Kg	450	550	600	750	850	1000	1500

- Generally, hydraulic oil is to be maintained at very high quality of Purification. The Oil often having large sizes of particles is passed through coarse type filter, to trap the large sized particles. Having taken care of micronic and sub-micronic particles, it is further finely cleaned by electro-statically, operated hydraulic oil cleaner & brought to the international standards.
- Our HOC Series oil cleaning & filtration machine is used for cleaning and filtering the various types of hydraulic oil and other industrial lube oils such as gear oil, compressor oil, coolant oil, etc.. used in the power generation, hydraulic system, machinery, metallurgy, mining, petroleum, chemical industry and other fields.
- This machine can effectively purify hydraulic oils at grade ISO – VG – 46, 68, 100, etc... by reducing the water content from 2000 ppm downto 80 ppm and separates (removes) the free water, sludge, gas content and carbon from Lube oil & hydraulic oil.

## Feature:

- The machine adopt deeply and precisely FH rectangular filtering system and highly polymeric adsorbing material filter. So the machine has strong ability to remove the particles and impurities.
- Adopt the high quality filter materials, which have a good function in anti-corrosive, thermo stable, mechanical strength. Especially, the precision of eliminates impurity is high and the service life is long. Also, it has a large volume for storing the impurities.
- The combination of coalescing separation filter and vacuum dehydration system which dewater effectively and thoroughly.
- The unique degas and dewater technology: Using the Duplex 3D Stereo-Evaporation technical, which can separate the water and gas from the oil quickly by the Multi-level water-oil separation technology. It can remove the free and dissolved water from the oil thoroughly.
- Strong capability of breaking emulsification.
- Advanced temperature controlling system controls the oil's temperature and heater's working automatically
- High quality pressure controller keeps the whole operation safely.
- Adopt a trinity of interlocked preventive device to keep heater, oil pump and filters safe and reliable.
- Low maintenance cost and time

## Oil Result After Treatment

Moisture (water content)	≤80 PPM
Gas/Air Content	≤0.1%
Suspended Particles (Filtration precision)	≤ 3 micron
Demulsification	New oil≤15min, running oil≤30min
Cleanliness	≤NAS 1638-Grade 5

The dimension and weight will be changed with changing of technical specs.

# Series LOP-I Phosphate Ester Fire-Resistance Oil Purifier



## Technical Specification

Parameter		Unit	LOP-I - 10	LOP-I - 20	LOP-I - 30	LOP-I - 50	LOP-I - 70	LOP-I - 100
Flow rate		L/h	600	1200	1800	3000	4200	6000
Working vacuum		MPa	-0.07~-0.095					
Working pressure		MPa	≤0.4					
Power supply			380V 50HZ 3Phse (or As per user's option)					
Working noise		dB(A)	≤65~80					
Operation Temperature		°C	40 ~ 60					
Heating power		Kw	12	18	24	30	36	54
Total power		Kw	17	20	26	33	39	59
Diameter of inlet and outlet		DN	25	25	32	40	40	40
Dimension	L	mm	1000	1100	1250	1400	1500	1700
	W	mm	800	850	900	1100	1250	1300
	H	mm	1200	1400	1500	1600	1700	1800
Weight		KGS	250	350	550	750	900	950

- Series LOP-I Phosphate Ester Fire-resistant oil purifier is designed for purifying the unqualified phosphate and degenerative ester fire-resistant oil and widely used in the big & medium-size thermo electrical power generation plants (specially at EH Oil System), Hydraulic Power System and chemical plants.
- Series LOP-I oil purifier can treat and regenerate the degenerative fire-resistant oil, removing acid, pigment, gas, water and particles from oil effectively. This machine's body is made of acid and dissolving resistant special full stainless steel materials, which are compatible with fire-resistant oil, combined with technologies of vacuum dewatering, multi-stage filtration system and new adsorbent to ensure treated oil to achieve new fire-resistant oil properties.
- Series LOP-I is the necessary purifying equipment for the sectors which use fire-resistant oil, it can be online working and oil-filling.

## Features:

- 1. This machine's body is made of acid and dissolving resistant special full stainless steel materials, which are compatible with fire-resistant oil, combined with technologies of vacuum dewatering, multi-stage filtration system and new adsorbent to ensure treated oil to achieve new fire-resistant oil properties.
- 2. Stainless steel machine body, pipes and filtering components, reliable, anti-corrosion, durable.
- 3. Duplex 3D Stereo-evaporation technology, equipped with unique and advanced dewatering, degassing components, can rapidly and effectively remove water, gas, particles and volatile matter
- 4. Advanced medium cooling system
- 5. Efficient electric heating system, heating uniformity, less power consumption, safe, and reliable.
- 7. Adopt interlocked protective system, which connect oil pump, heater and liquid level sensor, avoiding blank heating, blank pumping, oil leak and electricity leak. If there is any fault, machine will be power off automatically.

## Oil Result After Treatment

Moisture (water content)	≤80 PPM
Gas/Air Content	≤0.1%
Suspended Particles (Filtration precision)	≤ 1 micron
Resistivity value	≤6×10 <sup>9</sup> Ω.cm
Cleanliness	≤NAS 1638-Grade 5

The dimension and weight will be changed with changing of technical specs.



# Series PCS Portable Coalescence Separation Oil Purifier



## Technical Specification

Parameters	Unit	PCS-10	PCS-20	PCS-30	PCS-50	PCS-80	PCS-100	PCS-200	PCS-300
Flow rate	L/H	600	1200	1800	3000	4800	6000	12000	18000
Working pressure	Mpa	≤0.3							
Working noise	Db (A)	≤65-80							
Running hours without malfunction	H	≥4000							
Continuous running hours	H	≥150							
Water content After Purification	PPM	≤100							
Cleanliness After Purification	NAS 163 8	≤6							
Power	KW	0.75	0.75	1.1	1.5	2.2	3	5.5	7.5
Dimension (L × W × H)	mm	700 × 570 × 550	700 × 570 × 600	700 × 600 × 650	850 × 650 × 750	900 × 650 × 800	1000 × 700 × 850	1100 × 750 × 950	1200 × 800 × 1000
Weight	Kg	80	90	105	135	150	185	200	230

The dimension and weight will be changed with changing of technical specs.

- ◆ **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.
- ◆ 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 separate 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

# Series PO Portable High Precision Oil Purification & Oil Filling System



## Technical Specification

Item	Unit	PO-32	PO-50	PO-100	PO-150	PO-200	PO-300	PO-500
Flow rate	L/H	1920	3000	6000	9000	12000	18000	30000
Lift	m	5	8	8	10	15	15	18
Cleanness	NAS	7	6	6	6	6	5	5
Power supply		380 VAC, 50 Hz, 3 Phase (or as per required)						
Working noise	DB (A)	≤ 65 ~ 75						
Motor Power	KW	0.75	1.1	1.5	2.5	3	6	9
Inlet (outlet) caliber	mm	Φ25	Φ25	Φ25	Φ32	Φ42	Φ50	Φ50
Weight	Kg	95	105	120	130	140	160	300

The dimension and weight will be changed with changing of technical specs.

- ◆ **PO Series Portable High Precision Oil Filtering and Filling Machine** which mainly deal with unqualified insulating oil, turbine oil, lubricating oil etc., it consists with motor-driven special gear pump and multi-stage filters for filtering dirty oils by removing various sizes of particles & impurities. Small and flexible size, easy to operate and requires no filter paper and causes no contamination to the ground. It has a wider application than ordinary filter press and has a long lifetime, being a new substitute for frame filter press.
- ◆ Oil suction point is equipped with a coarse filter to protect pump, and prolong the service life of main two filters. Filter precision can be adjusted and changed according to client's actual need. This machine can do precision filtering, it usually equips three-stage filters, also can equip four or five stage filters as per user's requirements. Light weight, easy operation, it can be used as oiling machine for long distance and high-lift oiling works.
- ◆ **Pressure Gauge** monitors the working status of machine and pollution levels continuously.
- ◆ It is also used for oil transferring/ filling at working fields, suitable for field portable assignments and aerial work, while oil filling, filtration is also done at same time.
- ◆ Compact structure, small volume, light weight, easy to carry
- ◆ Filtration precision, the product specifications can be free to choose according to need
- ◆ Can be made into explosion-proof type, used at dangerous working area.
- ◆ Use patented technology to produce. Such as high-effective separating separation tower, fuzzy control technology, dewatering and degassing very effectively.
- ◆ Have the function of filling oil under vacuum condition.
- ◆ The purifier has large route, strong capability of holding dirt and can be used for a long time.
- ◆ Stable and safe Operation with low noise.

## CONTACT US



**Thank You!**  
**LOOK FORWARD TO**  
**COOPERATING WITH YOU!**

ATTN: Mr. Kevin Dube, Tel/Fax: 0086 23 8823 9845  
Mob/WhatsApp: 0086 135 2739 0908  
Email: [sales@fuootech.com](mailto:sales@fuootech.com), [kevinnchiang@gmail.com](mailto:kevinnchiang@gmail.com)  
Add: No.5 Hongshi Street, Jiulongpo District, Chongqing, China

