



CHONGQING GREEN ENVIRONMENTAL PROTECTION EQUIPMENT MANUFACTURE CO., LTD.

Add.: No. 92-4-6-4, Shabei Street,
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Company Profiles

Chongqing Green Environmental Protection Equipment Manufacture Co., Ltd is a joint stock system high technical industry enterprise, which relies on the domestic famous universities and scientific research institutes. The enterprise is specialized in scientific researching, technology developing, manufacturing and exporting series vacuum separation equipments. The enterprise engages some domestic famous specialists of chemical engineer, machinery and petroleum as its technical adviser. Nowadays, the enterprise mainly deals with researching, developing, manufacturing and exporting the high-technical projects and high-technical products in the environmental protection field.

Since the enterprise founded, it continually converts the scientific payoffs into industry based on its scientific research and technology innovation ability. The enterprise has developed several series vacuum separation equipments and waste oil recycling equipments, which are the 'green environment preservation , energy source reproduce' high technical products.

The management policy and development strategy is based on the international demand, absorbing the advanced technology at home and abroad, developing the high technical environment preservation equipments which are in possession of the largest customer value.

The enterprise's slogan is using the advanced technology to realize the largest customer value.

Brief Technical Features

Oil exists in both production activities and our daily life, having been widely applied to various facilities around us, whether in the lubrication, speed control, transmission and heat emission for machines in a factory or in the fuel which backs up automobiles running on a street; whether in the indispensable insulation and arc extinction of power equipment or in the cooking of all households. However, oil may also cause some headaches to us in the course of its long time storage, transport and usage, to be outlined as follows:

The significant water content in oil could lead to oil turbidity or emulsification which causes



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degradation of oil quality and results in formation of soap like substance, colloid, organic acid and inorganic acid, thus the stability and lubricating effect of oil are greatly reduced.

- Contamination in oil reduces the viscosity and deforming capability of oil, resulting in damage of oil film, increase of friction and abrasion of parts or components of equipment.
- Emulsified oil may be precipitated in the tubing system of speed regulator and circulation system, resulting in greasy filth.
- The degradation of performance of insulating oils could endanger the safety of power equipment.

Technical Innovation Further Improved Quality

- Unique degassing and dewatering system: Stereo-evaporation is employed to quickly separate moisture water and gases from oil. The system is maintenance-free.
 - Fine filtering system: By using fine filter cartridge made of macromolecular magnetic material in combination with several stages of screens with mesh size reduced stage by stage, it filters to a high efficiency and absorbs a large amount of dirt with a long service life. Fitted with automatic backwashing device, it can treat 4000tons oil at least.
 - Safe and reliable heating system: There is a low average heating surface load than 5 Kw/c m². The optimized design of pipeline ensure against “died oil area”. The oil temperature can be regulated at random from 10 to 100. Some models provide both automatic and manual heating ways for selection of operation.
 - Optional unit: Automatic tester for breakdown voltage.
 - Advanced infrared liquid-level automatic control system makes it possible to carry out man machine separate operation.
 - Specially made oil-discharging pump, resulting in low noise and even more stable performance.
- There are ten series and more than 90 types of products, which can meet different needs of users.



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ZY Series High Efficiency Vacuum Oil Purifier



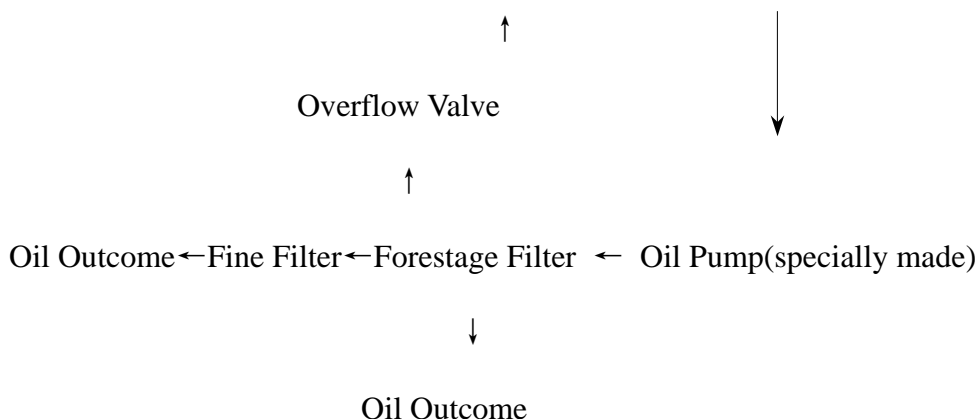
Application: The machine is suitable for treatment of such insulating oils as dissatisfactory transformer, mutual inductor and switch oils in electric power field and industrial and mining enterprises and can also be used for vacuum oil filling and power equipment drying.

Feature: The machine can be used independently or together with generating device and is applicable to field

live-wire work.

Advantage: With automatic control and interlocked protection device and without need to replace filter element, the machine consumes not much power, produces low noise, is easy to operate and can save over 90% of costs in oil treatment compared with the traditional means.

Process Flow: Oil In→Primary Filter→Heater→Vacuum Separator→Cooler→Vacuum Pump





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Technical Specifications of ZY Series High Efficiency Vacuum Oil Purifier

Item	Unit	ZY-10	ZY-20	ZY-30	ZY-50	ZY-100	ZY-150	ZY-200	ZY-300	
Capacity	L/H	600	1200	1800	3000	6000	9000	12000	18000	
Working Vacuum	Mpa	-0.06 ~ -0.095								
Working Pressure	Mpa	≤0.4	≤0.4	≤0.4	≤0.4	≤0.5	≤0.5	≤0.5	≤0.5	
Breakdown Voltage	Kv	≥55	≥55	≥55	≥60	≥60	≥60	≥60	≥65	
Water Content	PPM	≤5								
Gases Content	%	≤0.1								
Impurity Size	μm	≤5								
Working Without Trouble	H	4000								
Temperature Range	℃	20~ 80								
Continuous Work	H	150								
Power Supply		3-phase 50HZ 380V (or as needed)								
Working Noise	dB(A)	≤75	≤75	≤75	≤75	≤80	≤80	≤80	≤82	
Heating Power	KW	11	13	15	30	48	58	70	85	
Total Power	KW	12.5	14.5	16.5	33.5	53	65	76	94	
Inlet/outlet Pipe Diameter	mm	Φ25	Φ25	Φ25	Φ32	Φ42	Φ50	Φ50	Φ60	
Weight	Kg	230	250	270	300	500	700	900	1100	
Overall Size	L	mm	1050	1100	1150	1200	1600	1600	1800	1900
	W	mm	750	850	900	950	1000	1100	1200	1200
	H	mm	1300	1400	1450	1500	1800	1800	1900	1900

Dimension and weight will be changed with changing the technical specification



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ZYA Series High Efficiency Vacuum Oil Purifier



Brief introduction: This series of machines are originated products in China developed to meet the needs of insulation breakdown test under various conditions (especially in field operations). They can test the filtration effect and may completely take the place of traditional breakdown testing equipment.

Application: The machine is suitable for treatment of such insulating oils as dissatisfactory transformer, mutual inductor and switch oils in electric power field and industrial and mining enterprises and can also be used for vacuum oil filling and equipment drying.

Feature: With all the functions of ZY series high efficiency vacuum filter machines, this machine can test the breakdown voltage automatically, i.e. the breakdown strength of oil inside the filter machine can be displayed at any time and results automatically printed.

Technical Parameters of Automatic Breakdown Voltage Testing System:

Maximum testing voltage:	60.5KV
Rate of voltage rise:	2KV/S
Resolution:	0.02KV
Capacity:	1.2KVA
Accuracy of Measurement:	200V level
Voltage withstand time:	1~99s
High tension-ground (machine housing):	40KV



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Technical Specifications of ZYA Series Vacuum Oil Purifier

Item	Unit	ZYA-20	ZYA-30	ZYA-50	ZYA-100	ZYA-150	ZYA-200	ZYA-300	
Capacity	L/H	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	
Breakdown Voltage	Kv	≥55	≥55	≥60	≥60	≥60	≥60	≥65	
Water Content	PPM	≤5							
Gas Content	%	≤0.1							
Impurity Size	μm	≤5							
Working Without Trouble	H	4000							
Temperature Range	°C	20~ 80							
Continuous Work	H	150							
Power Supply		3-phase 50HZ 380V (or as needed)							
Working Noise	dB(A)	≤75	≤75	≤75	≤80	≤80	≤80	≤80	
Heating Power	KW	13	15	30	48	58	70	85	
Total Power	KW	14.5	16.5	33.5	53	65	76	94	
Inlet/outlet Diameter	mm	Φ25	Φ25	Φ32	Φ42	Φ50	Φ50	Φ60	
Weight	Kg	250	270	300	550	700	950	1200	
Overall Sizes	L	mm	1100	1150	1200	1600	1600	1800	1900
	W	mm	850	900	950	1000	1100	1200	1200
	H	mm	1400	1450	1500	1800	1800	1900	1900

Dimension and weight will be changed with changing the technical specification



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ZYB Series Multi-Function Oil Purifier



Brief introduction: The machine can be used as special filter equipment for installation and overhaul of power transformers. It has incorporated the functions of various kinds of equipment such as board-frame type filter press, vacuum oil filter machine and oil heating machine. Oil treated by the machine conforms to the National Standard in terms of water content, gas content and PH value. The machine is particularly effective for filtering off free carbon.

Application: The machine is suitable for treatment of such is insulating oils as dissatisfactory transformer, mutual inductor and switch oils in electric power field and industrial and mining enterprises and can also be used for vacuum oil filling and equipment drying.

Feature: The multi-function systems can be employed altogether as one unit or separately, at high treating rate with safe and reliable operation and good quality.

Quality indexes of treated oil:

Breakdown voltage:	$\geq 60KV$
Water content:	$\leq 5PPM$
Gas content:	$\leq 0.1\%$
Grain size of impurities:	$\leq 1\mu m$ without free carbon
Acid number:	$\leq 0.03mgKOH/g$
Flash point (close cup):	$\geq 135^{\circ}C$
Water-soluble acid:	$PH \geq 5.4$
Dielectric loss factor:	$tg \delta (90^{\circ}C)\% \leq 0.005$



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Process flow: Oil In → Primary Filter → Secondary Filter → Heating → Vacuum Separator



Technical Specifications ZYB Series Multi-Function Oil Purifier

Item	Unit	ZYB-20	ZYB-30	ZYB-50	ZYB-100	ZYB-150	ZYB-200
Capacity	L/H	1200	1800	3000	6000	9000	12000
Working Vacuum	MPa	-0.08 ~ -0.095					
Working Pressure	MPa	≤0.3			≤0.5		
Temperature Range	℃	10 ~ 80					
Working Noise	dB(A)	≤75	≤75	≤75	≤80	≤80	≤80
Heating Power	KW	18	24	30	45	60	72
Total Power	KW	22	28	35	50	68	80
Power Supply		3-phase 50HZ 380V (or as needed)					
Inlet (outlet) Diameter	mm	Φ25	Φ25	Φ32	Φ42	Φ50	Φ50
Weight	Kg	400	450	600	800	850	900
Overall Sizes	L	mm	1500	1600	1600	1600	1700
	W	mm	900	900	900	950	1000
	H	mm	1550	1650	1700	1700	1900

Dimension and weight will be changed with changing the technical specification



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ZYD Series Two-Stage High Efficiency Vacuum Oil Purifier



Brief induction: Higher than the national standard, the machine can raise breakdown voltage by 35KV at one time and reduce aging harm due to repeated filtration and heating with a common oil filter.

Application: The machine is suitable for treatment of new oil, imported oil and extra-high voltage transformer oil and especially for field

livewire work, and can shorten oil-treating duration in installing or overhauling transformers.

Feature: Fitted with two-stage vacuum system of high gas-extracting rate, the machine can satisfy the practical need to attain vacuum of transformer, vacuum the body of transformer during installation and overhaul of transformers and dewater and degas transformer oil at the same time, reducing the time of oil treatment.

Process Flow

Oil feed-in→Primary filter→Heater→Vacuum tank→Oil pump→Fine filter→Oil outcome



Vacuum transformer (or other equipment)→ Cooler→Vacuum pump←→Circulating water cooling



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Technical Specifications of ZYD Series Two-Stage Vacuum Oil Purifier

Item	Unit	ZYD-30	ZYD-50	ZYD-100	ZYD-150	ZYD-200	ZYD-250	ZYD-300	
Capacity	L/H	1800	3000	6000	9000	12000	15000	18000	
Working Vacuum	Mpa	-0.08 ~ -0.099							
Working Pressure	Mpa	≤0.3							
Temperature Range	℃	20 ~ 80							
Working Noise	dB(A)	≤75	≤75	≤80	≤80	≤80	≤82	≤85	
Heating Power	KW	30	30	45	60	75	90	120	
Total Power	KW	35.5	37.5	52.5	71.4	86.5	102.5	135	
Power Supply		3-phase 50HZ 380V (or as needed)							
Inlet(outlet)Diameter	mm	φ 25	φ 32	φ 42	φ 50	φ 50	φ 60	φ 60	
Weight	Kg	600	800	1050	1400	1800	2000	2200	
Overall Sizes	L	mm	1500	1500	1950	2100	2200	2250	2400
	W	mm	1250	1250	1300	1350	1350	1400	1450
	H	mm	1700	1750	2100	2200	2200	2200	2200
Breakdown Voltage	KV	≥65							
Water Content	PPM	≤5							
Gas Content	%	≤0.1							
Impurity Size	μ m	≤1 ~ 5 without free carbon							

Dimension and weight will be changed with changing the technical specification



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TY Series Turbine Oil Purifier



Brief introduction: This series of machines are mainly intended to treat turbine oil of generator sets. They can rapidly remove water content, gas and impurities from oil effectively, improve oil quality and ensure the normal performance of adjusting and lubricating systems, extending the interval of maintenance.

Application: The machine is intended for turbine, lubricating and cooling oils that need to remove great amount of water and finely

filter off impurities.

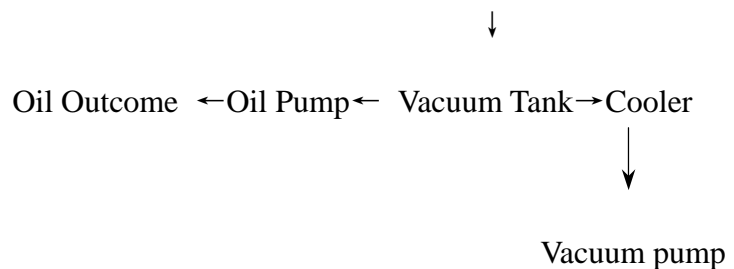
Advantage: The machine incorporates gravity, vaporization, coagulation and vacuum separation and mechanical filtration.

Features: 1.The machine and demulsify, dewater and remove impurities from oil, making turbid and emulsified oil clear and transparent.

2.The machine can carry out oil-line treatment for generator sets and continuously separate water and foreign matters from working oil.

Process Flow:

Oil feed-in→Primary Filter→Heater→Secondary Filter→Water Separator→Fine filter





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Notice: Turbine oil is intended for lubricating, speed regulating, heat radiating and cooling purposes but, after a long period of use, will result in the following.

1. With much water inside, oil is turbid, emulsified or aged and there are saponaceous matters, colloidal matters, and organic and inorganic acids, thus greatly reducing its stability and lubricating effect.

2. There are contaminants in oil, reducing its viscosity and defoaming ability, destroying oil film, increasing friction and wearing equipment.

3. Emulsified oil usually settles down as slurry in pipes of the speed regulating and circulating systems.

Technical Specifications of TY Series Turbine Oil Purifier

Item	Unit	TY-10	TY-20	TY-30	TY-50	TY-100	TY-150	TY-200	TY-300	
Capacity	L/H	600	1200	1800	3000	6000	9000	12000	18000	
Working Vacuum	MPa	-0.06 ~ -0.095								
Working Pressure	MPa	≤0.3								
Temperature Range	℃	40 ~ 70 (not exceeding 55℃ for turbine oil)								
Water Content	PPM	≤100								
Cleanness	NAS	≤6 grade								
Demulsifying Value	min	≤15(GB/F7305)								
Heating Power	KW	12	15	18	24	45	60	72	84	
Total Power	KW	14	17	20	27	48	66	81	97	
Inlet (outlet) Diameter	mm	25	25	25	32	42	50	50	60	
Weight	Kg	380	400	420	450	800	1000	1100	1550	
Overall Sizes	L	mm	1300	1350	1350	1400	1500	1500	1600	1800
	W	mm	900	950	950	950	1000	1200	1350	1400
	H	mm	1450	1450	1500	1600	1650	1800	1800	1850

Dimension and weight will be changed with changing the technical specification



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TYA Series Lubricating Oil Purifier



Brief introduction: The machine can quickly remove water, gasses, impurities and volatile matters (like alcohol, gasoline and ammonias, etc.) from oil, improve oil quality, and recover viscosity, flash point and performance of lubricating oil.

Application: TYA series of machines are especially intended for hydraulic oil, machine oil, freezer oil and other lubricating oils that need to remove large quantity of water and finely filter off impurities.

Features: 1.Strong demulsifying and dewatering capability. The machine can easily remove not only large amount of water but also trace of moisture and effectively turn emulsified oil into a clear and transparent liquid, as it is equipped with a water separator, a specially made demulsifying device.

2.High performance of removing impurities. Filter material of composite millipore structure used in large area can filter off fine particles from oil to a high level. Furthermore, the automatic backwashing filter bag can remove large quantity of impurities from oil and may be used as a cleaning device of the oil system to restore the seriously contaminated oil system to required range.

3.Short duration of oil treatment and high efficiency, resulting in treated oil with trace water in 100ppm maximum, and cleanness NAS1638. Grade 6, therefore is ideal filter equipment for hydraulic oil, machinery, etc. various lubricating oils.

Process Flow: Oil Feed-in→Primary Filter→Heater→Water Separator(Secondary filter)

↓
Vacuum Tank→Cooler→Vacuum Pump

↓
Oil Outlet ←Fine Filter←Oil Pump



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Technical Specifications of TYA Series Lubricating Oil Purifier

Item	Unit	TYA-10	TYA-20	TYA-30	TYA-50	TYA-100	TYA-150	TYA-200	TYA-300	
Capacity	L/H	600	1200	1800	3000	6000	9000	12000	18000	
Working Vacuum	Mpa	-0.06 ~ -0.095								
Working Pressure	Mpa	≤0.4								
Water Content	PPM	≤100								
Cleanness	NAS	≤6 Class								
Temperature Range	℃	0 ~ 100								
Working Noise	dB(A)	≤75	≤75	≤75	≤78	≤78	≤78	≤80	≤82	
Heating Power	KW	36	40	45	72	80	90	120	135	
Total Power	KW	38	42	47	75	87	101	135	147	
Inlet(outlet)Diameter	mm	25	25	25	32	42	50	50	60	
Weight	Kg	350	380	400	450	550	650	700	750	
Overall Size	L	mm	1500	1500	1500	1600	1750	1900	1950	2100
	W	mm	1000	1050	1050	1150	1150	1600	1600	1600
	H	mm	1600	1600	1650	1750	1750	1950	1950	2000

Dimension and weight will be changed with changing the technical specification