



TRANSFORMER OIL PURIFIER



Filtering transformer oil can greatly extend the transformer insulation life expectancy and reduce transformer overheating. A good indicator of the transformer oil insulation level is its break-down voltage. A breakdown voltage above 60kV is sufficient for all transformers. Oil filtration under heat and vacuum is the best method to achieve high break-down voltage. interlock protection system transformer oil regeneration machine is the best choice for you

oil purifier were designed for purifying turbine oils, low-viscosity lubricating oils, and hydraulic transmission oils and anti-wear hydraulic oils that are based on turbine oil, which are used in steam turbines, gas turbines, hydraulic turbines, turbogenerators, etc.

It can separate the water, soap, colloid, acid, pigment and metal particles and other mechanical impurities quickly, make the cloudy and emulsified oil transparent, clear and recover to normal performance again

Main Features

1. Divided in to several class of quality : standard, advanced and luxury.
2. Equipped with multi-stage and precise filter elements, strong decontamination ability, durable and long lifespan.
3. Adopt the advanced technology of vacuum flash vaporization, coacervation and separating and pellicle vaporization, for efficient dehydration and demulsification.
4. Safe and reliable electrical heating system, to ensure the oil temperature even and stable.
5. Advanced liquid level control system, pressure protection device and high efficient vacuum system.
6. Alarm function
7. Double stage vacuum oil purifier with filtration, degassing, dehydration, oil heating(large area), Increase dielectric strength etc.
8. Offline and online working mode for optional.



Technical Parameters

Model		Unit	ZYD-10	ZYD-20	ZYD-30	ZYD-50	ZYD-100	ZYD-150	ZYD-200	ZYD-300
Flow Rate		L/H	600	1200	1800	3000	6000	9000	12000	18000
Temp Control range		°C	20-80 (adjustable)							
Working vacuum		MPa	-0.07~-0.099							
Working Pressure		MPa	≤0.5							
Working Noise		dB(A)	68	68	68	70	75	78	80	85
Heating Power		KW	30	30	30	36	60	90	120	150
Total Power		KW	34	34	34	40	66	100	128	169
Power		V/HZ	380V 50HZ (can be customized)							
Inlet/Outlet		mm	32	32	32	32	42	48	60	76
Overall	L	mm	1500	1500	1550	1600	1800	1950	2050	2200
	W	mm	1050	1050	1100	1100	1250	1450	1450	1600
	H	mm	1700	1700	1750	1750	1800	1850	2000	2100
Weight		kg	620	620	650	850	1100	1400	1800	2000
Index after filtering	Moisture content	Ppm	≤3 (GB/T260)							
	Gas Content	%	≤0.1							
	Impurity size	μm	≤1, No free carbon							
	Mechanical impurities	%	No (GB/T511)							
	Breakdown voltage	KV	≥75							
	Cleanliness		≤6 grade (NAS1638)							
Flash point (closed)		°C	≥135 (GB/T3536)							

Note:

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No	Main Components Name		Model	Qty.	Standard Type Brand/Origin	Advanced Type Brand/Origin	Luxury Type Brand/Origin	Remark
1	Vacuum Pumping System	Vacuum Pump	RH/X U./SV	1 Set	HOKAIDO/JOYSUN Shanghai, China	/LEYBOLD/BECKER /RIETSCHLE/BUSCH /ATLAS Germany	/LEYBOLD/BECKER /RIETSCHLE/BUSCH /ATLAS Germany	Air-cooling rotary vane type
		Roots Booster Pump	JRP/ZIY	1 Set	JOYSUN/SUNNY /CUIMAN Shanghai, China	JOYSUN/SUNNY /CUIMAN Shanghai, China	JOYSUN/SUNNY /CUIMAN Shanghai, China	Enhance vacuum degree
2	Oil Transportation System	Oil Screw Pump	3GR CHE/LSF	1 Set	CTP China	CTP Tianjing, China	Italy /SPECK Germany	Triple screw rotary pump
		Oil Pump Motor	6B35	1 Set	DEMA/MINHUI /XINDALI, China	DEMA/MINHUI/XINDALI, China	ABB/SIEMENS	
3	Filtration System	Primary Filter	80 μm	1 Set	China High Quality	China High Quality	HYDAC/PUREACH Germany	Filter size: 80 micron
		Secondary Filter	20 μm	1 PC				Filter size: 20 micron
		Fine Filter	5 μm	1 PC				Filter size: 5 micron
4	Constant Temperature Control System	Carbon Fiber Infrared Oil Heater	GGY220 - 480v	1 PC	China High Quality	China High Quality	China High Quality	Indirect heating of the oil, small heat load (less 1.0 W/cm2) guarantees a careful heating of the oil.
		Temperature Controller	PT100	1 Set	WINPARK China	WINPARK China	FUJI Japan/ AUTOMATION Shanghai, China	Automatic regulation of the heating of the oil.
5	3D Stereo Flash Evaporation System	Short-range Thin-film Evaporator	DBM100 T	1 Set	China High Quality (Japan Technology)	China High Quality (Japan Technology)	China High Quality (Japan Technology)	Removal of free and soluble water, free and dissolved air and gases, and the effect of dehydration and degassing is 3-5 times faster than that of flat evaporation
		3D Stereo Flash Evaporation Atomizer	SWL100T	1 Set				
		Oil-Water Separation Column	YSF100T	1 Set				
		Flash Evaporation Column Plate	SZP100T	1 Set				
6	Liquid Level Control System	Floating Ball Liquid Level Automatic Controller	UQK	1 Set	TIANNAN China High Quality	TIANNAN China High Quality	TIANNAN China High Quality	Control the oil level inside of the vacuum vessel. Guarantee a continuous oil flow at variable oil throughput
		Liquid Level Regulating Solenoid Valve		1 Set	KAPERIOR /ORIENTAL China High Quality	KAPERIOR /ORIENTAL China High Quality	KAPERIOR /ORIENTAL China High Quality	
7	Automatic Foam Breaker	Foam Sensor	PM-01	1 Set	China High Quality	China High Quality	China High Quality	Automatically eliminate foam to avoid oil leakage phenomenon
		Solenoid Valve for Foam Breaking	DN	1 Set	KAILING/KAPERIOR China High Quality	KAILING/KAPERIOR China High Quality	KAILING/KAPERIOR China High Quality	
8	Valve	Main Control Valve	DN	1 PC	CHANGYI China High Quality	CHANGYI China High Quality	CHANGYI China High Quality	
		Check Valve	DN	1 PC	CHANGYI China High Quality	CHANGYI China High Quality	CHANGYI China High Quality	
		Sampling Valve	Single Nozzle Valve	1 Set	YUHAO China High Quality	YUHAO China High Quality	YUHAO China High Quality	Get oil sample
9	Pressure Control	Pressure Controller	0-1.0 Mpa	1 Set	Kaobo/YunMin China High Quality	Kaobo/YunMin China High Quality	UE/CCS America	
	System	Alarm Indicator	LTE-1101	1 PC	NANYI China High Quality	NANYI China High Quality	NANYI China High Quality	NANYI China High Quality
10	Pressure Display System	Vacuum Gauge	Z-100	1 PC	HONGQI/BLD China High Quality	HONGQI/BLD China High Quality	HONGQI/BLD China High Quality	WIKI/DMASS Germany
		Pressure Gauge	Y-100	1 PC	HONGQI/BLD China High Quality	HONGQI/BLD China High Quality	HONGQI/BLD China High Quality	WIKI/DMASS Germany
11	Liquid Level Display System	Liquid Level Indicator	L270	1 PC	China High Quality	China High Quality	China High Quality	China High Quality
		Liquid Level Indicator	L120	1 PC	China High Quality	China High Quality	China High Quality	China High Quality
12	Electric Control System	Electric Control Box	DKG	1 Set	China High Quality	China High Quality	China High Quality	China High Quality
		Main Circuit Breaker (Air Switch)	matching the model	1 Set	CHNT/DELIXI China High Quality	CHNT/DELIXI China High Quality	ABB / Schneider	ABB / Schneider
		Control Breaker (Air Switch)	matching the model	1 Set	CHNT/DELIXI China High Quality	CHNT/DELIXI China High Quality	ABB / Schneider	ABB / Schneider
		Vacuum Pump Contactor	matching the model	1 Set	CHNT/DELIXI China High Quality	CHNT/DELIXI China High Quality	ABB / Schneider	ABB / Schneider
		Vacuum Pump Thermal Relay	matching the model	1 Set	CHNT/DELIXI China High Quality	CHNT/DELIXI China High Quality	ABB / Schneider	ABB / Schneider
		Control Button	matching the model	1 Set	CHNT/DELIXI China High Quality	CHNT/DELIXI China High Quality	ABB / Schneider	ABB / Schneider
13	Gas Cooling System	Condenser	LNQ	1 Set	China High Quality	China High Quality	China High Quality	China High Quality
		Water Receiver	CSQ	1 Set	China High Quality	China High Quality	China High Quality	China High Quality
14	Pipes, tanks, racks etc. of the equipment				China High Quality	China High Quality	China High Quality	
15	Surface Coating				SANXIA PAINTS China High Quality	SANXIA PAINTS China High Quality	SIKA Switzerland	Acid proof and anti-corrosive
16	Other Accessories				China High Quality	China High Quality	China High Quality	

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