

ZYD-F Series Transformer PD Mobile Fully Enclosed Two Stage Vacuum Transformer Oil Purification System

ZYD-F Series Transformer PD Mobile Fully Enclosed Two Stage Vacuum Transformer Oil Purification System is specially designed for the completely filtration, dehydration, degassing, and particles removal of insulating oils in transformers. It not only provides regular oil purification works including degassing, drying and particulate removal but also reduces acidity, sludge, other



soluble oil decay products, and increase the oil's dielectric strength value (BDV value) to improve the physical & chemical properties comparable to new transformer oil. The oil purification process and overall performance are winning more and more orders from the world with its advantages of high working vacuum, fast oil filtration speed, oil quality protection and low maintenance. ZYD-F Series Mobile Fully Enclosed Two Stage Vacuum Transformer Oil Purification System provides an extremely cost-effective and environmentally acceptable method of extending transformer oil lifetime to over 20 years!

This transformer oil purifier is also suitable for the treatment of new oil and reconditioning of used transformer oil in EHV class transformers, shunt reactor and other oil filled equipment in power plant, power station, electric power company, power transmission equipment, transformers, industrial and mining enterprises, especially suitable for on-site installation, maintenance and purifying high level new oil, or running oil from big power transmission and distribution equipment and transformers on national main power transformation grid, which is above 110-750KV. This Mobile Fully Enclosed Two Stage Vacuum Transformer Oil Purification System can shorten

the oil treatment period for transformer installation and maintenance, and achieve properties of treated oil within specified limits at the rated capacity.



Product features

1. Double-stage high vacuum pumping system, strong power of vacuum evacuating, ultimate vacuum value $\leq 10\text{Pa}$.
2. Special “T” shape double vacuum separation technology, double stages thin film drying degassing technology, double evaporation area and degassing time.
3. Patented degassing tank: anti-foam structure & dual electronic foam monitoring system (key components are from Switzerland), completely eradicating oil entering into vacuum pump.
4. Reliable Control System: Optimized design of control interlock protection device, overpressure alarm and protection, phase sequence protection, to ensure whole machine working stably for a long time. Automatic pressure alarm system, automatic overload protection system, automatic constant temperature system, automatic foam elimination system, automatic protection of oil blowout prevention and other advanced technologies, ensures the safe and stable operation of unattended operation.
5. Oil atomized particles size is less than $50\mu\text{m}$, largely increasing efficiency for water molecules and gas molecules escaping from oil molecules.
6. High density electrical heaters with surface efficiency below 1.5 W/cm^2 , with indirect heating to prevent local overheating and oil cracking & aging.
7. Install liquid level and temperature protector on the heater system to prevent instantaneous high temperature of heater and blank heating without oil.
8. Vacuum pump cooler preposition, to reduce water or vapor entering into vacuum pump, reduce the frequency to change vacuum pump oil and extend vacuum pump lifetime.
9. High precision filter elements, filter rated up to 1 micron prevents particles from entering back into the transformer.
10. Automatic oil discharge pressure protector, to monitor pressure of oil filters all the

time, effectively protecting machine and operators.

11. Adopt the high pressure screw type oil pump, keeping oil delivery stable, low noise, long life.
12. Automatic float ball valve & electronic oil level automatic controlling system, to realize automatic foam elimination, automatic oil level control, unattended operation.
13. Can be applied for vacuum oiling and drying power transmission equipment.
14. This machine is made in fully enclosed type for weather proof, sand proof, wind proof, operation at outdoor usage.



Product specifications and technical parameters

Items		Unite	ZYD-30F	ZYD-50F	ZYD-100F	ZYD-150F	ZYD-200F	ZYD-250F	ZYD-300F
Flow rate		L/min	30	50	100	150	200	250	300
Working vacuum degree		MPa	-0.08 ~ -0.099						
Working discharge pressure		MPa	≤ 0.4						
Ultimate vacuum value		Pa	≤10						
Temperature control range		°C	20 ~ 80						
Power supply			415V/50Hz, 3 phases, 4 wires (or as per your requirements)						
Fault-free working hours		h	≥4000						
Continuous working hours		h	≥150						
Noise		dB(A)	65 ~ 85(Determined by device configuration)						
Heating power		kW	30	60	90	120	135	150	180
Total power		kW	33	66	102	135	152	168	208
Inlet (outlet) diameter		mm	Φ25	Φ32	Φ42	Φ50	Φ50	Φ60	Φ60
Indicators after filtration	Breakdown voltage	kV	65 ~ 80						
	Moisture content	ppm	≤5						
	Gas content	%	≤0.1 (Vol)						
	Filtration precision	μm	≤1						



Rui Du Mechanical and electrical (Shanghai) Co., Ltd



TEL: 0086-021-68769756

Contact: Nico Zhou

Position: Sales Manager

Email: sales@hvtesters.com

Website: www.hvtesters.com

Mob/ WhatsApp:

+86-13661908522