



TY Series Vacuum Turbine Oil Purifier

Application:

TY Series Vacuum Turbine Oil Purifiers are applied to thermal power generator set, hydroelectric generating set, nuclear power station and steam turbine set with large amount of turbine oil. They can purify the oil in due time before it is deteriorated. Furthermore, TY series turbine oil purifiers can treat oil with gas and water content, deteriorated oil, oil with acid, oil with foam and emulsified oil to efficiently remove the water, gas and impurities in that. By this way, they ensure the oil properties to meet the requirements of GB/T7596-2000 Turbine Oil Standard and to guarantee normal working of turbine generator set and its lubricating system.

TY Series Turbine Oil Purifiers can realize online operation such as oil demulsification, dehydration and filtration to make the heavily emulsified and muddy turbine oil clean and transparent.

Advantages:

- Adopt three-dimensional flash evaporation technique to get strong ability to break emulsion and remove water from the oil.
- Adopt the latest Chinese and international technique which is integrated with gravity method, evaporation method, aggregation method, vacuum separation and mechanical filtration etc.
- High precision multi-stage filtration system with large pollutant-containing capacity helps to remove mechanical impurities in oil effectively. The machine also has function of automatically detecting the pollution degree of filter element.
- Advanced fully automatic temperature controlling system, liquid-level controlling system, defoaming controlling system, pressure protecting system and excellent configuration can ensure operation of the equipment with high performance.
- Optimized heating system with automatic constant temperature controller ensures that oil temperature to be even and stable.
- Can be working online and on-site without supervision, and with its lamps indicative of operation status.
- With electrical control inter-lock design for oil inlet system and heating system to avoid bad influence of incorrect operation.
- Humanization design with low noise, deep purification and long time free maintenance to save cost from the running process.
- Equipped with indication for changing filters and automatic stop device for overloaded filters.
- Equipped with emergency stop for electric leakage and power overload to protect the motor.
- With phase-sequence, phase lose protection function and safety control for sudden shut-down.

Optional Design Modes:

- Optional PLC intelligent control with touch screen operation and operation status dynamic display.
- Online moisture tester and online particle counter are available as optional components.
- The whole structure of the machine: mobiles style with four wheels, fixed style, mobile style with trailer(double axles or single axle), fully enclosed style, conceal eaves type and open style of canvas etc.



Technical Specification

Item	Name	Unit	LS-TY-20	LS-TY-30	LS-TY-50	LS-TY-100	LS-TY-150	LS-TY-200	LS-TY-300	LS-TY-500
Technical Parameter	Flow Rate	L/H	1200	1800	3000	6000	9000	12000	18000	30000
	Operating Vacuum Degree	MPa	-0.08 ~ -0.098							
	Working Pressure	Mpa	≤ 0.5							
	Temperature Range	°C	20~70							
	Power Supply	V	380V/50Hz (or at user's option)							
	Working Noise	dB(A)	≤ 75							
	Total Power	kW	24+3	24+3	30+5	40+5	72+5	90+6	120+10	135+16
	Inlet/Outlet Diameter	mm	25	25	32	40	50	50	65	80
	Net Weight	Kg	450	470	550	750	1000	1100	1200	1800
	Overall Dimensions	cm	105×120×160	105×120×160	110×130×170	125×145×190	200×187×210	200×187×210	210×190×225	220×190×225
Index for Oil Treatment	Water Content	mg/L	≤ 100 (GB/T7600)							
	Acid Value	mgKOH/g	≤ 0.3 (GB/T264)							
	Demulsifying Value	min	≤ 15 (GB/T7305)							
	Filtration Precision	μm	≤ 10							

■ Above size and weight are for reference only, the specific data shall be subject to its physical object.