



Sino-NSH Turbine Oil Purifier Machine

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Sino-NSH Turbine Oil Purifier Machine

TF series is particularly suitable for purifying turbine lubricating oil. It also applies to treat hydraulic, coolant oil and other lubrication in which contain large of water, vapor, impurities, sludge, dielectric and colloid.

It can eliminate them effectively and efficiently. TF series will result in the improvement of the properties of turbine oil, other lubrication and extend the maintenance period of turbine or other equipment which has lubrication system and keep them operate in good condition.

Description

TF turbine oil purifier series is developed by vacuum evaporation technology, coacervation technology, coalescing technology, separating engineering technology and refined purification technology. It can eliminate water, gas, impurities, colloid, dielectric etc. rapidly and effectively in high vacuum situation and make the waste oil reuse.

The lubrication of turbine or other equipments which has lubrication system need be replaced frequently because of vapor, water and other impurities mixed with it. Otherwise, oil deterioration would result in breakdown of machinery or affect the normal running of machinery.

TF series can effectively extend the lifetime of oil and protect turbine and other machinery which has lubrication system from damage.

Features

Eliminate soluble and dissolved water effectively and demulsify rapidly

TF series can not only separate large quantity of water but also remove trace of water from oil. Fitted with specially made demulsifying device (water separator), it is capable of making turbid emulsified oil very clear.

High effectively purify matters in oil such as impurities, sludge etc.



The automatic backwash filtering system can remove large amount of particulate matters and fine filter system can remove fine particles.

High automation, stability and operation online

High automation, small size, light weight, safety and reliability. Installed with infrared liquid level automatic controller, the purifier machine will run automatically and easy handling.

Structure

Dehydration (Degas) System

- **The vacuum vessel can enlarge evaporation area efficiently. The heater, being placed on the vacuum vessel, becomes an evaporator. Thus the evaporation area of vacuum vessel is three times more than that of the ordinary vacuum vessel. This innovation can dehydrate and degas effectively and efficiently.**
- **The optimal structure of the dehydration (degas) system enlarges the surface area of oil exposed to the vacuum system and extends the flowing distance of the oil in the vacuum system. Thus there has sufficient time to remove the moisture and gas from the oil by vaporization.**

Filtering System

- **The filtering materials with variable apertures are made of specialized glass fiber. The sizes of the filtering fiber and aperture dwindle gradually in the different filtering stages. The impurities with different particulate sizes are filtered step by step. The capability of removing particulate matters and impurities is improved greatly by this method.**
- **The filtering system has stable and perfect filtering fineness. The filtering fineness has several grades, including 1, 2,3,4,5,6,10 μm etc. Oil $\beta_{\geq 1000}$ after filter.**
- **The filtering system is equipped with reverse rinse and filth device. It improves the effectiveness of filtering and extends the lifetime of filter awfully.**

Oil heating System



- **The unique heater structure heats the oil uniformly.**
- **Oil Heater System assures less than 1.0 w/cm². During the heating process, the deterioration of the oil caused by overheating is avoided.**
- **The oil temperature can be adjusted between 20°C to 80°C. The heater is controlled manually or automatically. The heater will stop automatically when the oil temperature reaches a certain degree.**
- **Being installed with safety protection devices, the heating system is secure and reliable. The heater will stop operation automatically when the oil volume of inlet is too low to avoid the damages of the heater.**

Electrical Apparatus controlling System

- **The main components of the electrical apparatus made by Schneider, Siemens and so on ensure the safety of the controlling system.**
- **Having several protection systems which will avoid oil ejection, overload and over voltage etc.**

Oil-level Controlling System

- **The oil-level floating ball or infrared liquid level automatic controller system are installed in the vacuum vessel to control the oil level so as to avoid the oil being suctioned into vacuum pump in the operation.**
- **The new innovation of eliminating froth can avoid the oil being suctioned into vacuum pump.**

High quality components

- **The main component parts of NSH products such as vacuum pump, oil pump and electric apparatus are from SIEMENS, LEYBOLD, OMRON, SCHNEIDER, HYDAC, NSH, AMICO etc. It ensures NSH products high quality and reliability.**

Structure and Appearance



- **NSH products adopt ship-shape chassis-mount structure to ensure oil leakproof and protect the environment from pollution.**
- **The whole equipment is characterized by small size, light weight and convenient to move around.**
- **Various sizes and configurations (shield) available.**
- **Available in mobile or stationary options.**
- **Automatic vacuum oil purifier and anti-explosion vacuum oil purifier are both available according to customers' needs.**

Technical Specifications

Item	Unit	TF-30	TF-50	TF-100	TF-150	TF-200	
Flow Rate	L/H	1800	3000	6000	9000	12000	
Vacuum Range	MPa	-0.06 ~ -0.096					
Working Pressure	MPa	≤ 0.3					
Water Ratio	PPm	≤ 100					
Impurity size	μm	≤ 5					
Clearness	NAS (1638)	≤ 6					
Temperature Range	°C	40—80					
Demulsifying Value	Min	< 15					
Power Supply	V	~50Hz 380V (or as needed)					
Working Noise	dB	≤ 70			≤ 75		
Heating Power	Kw	30	36	72	90	120	
Total Power	Kw	33	39	77	98	128	
Inlet(Outlet)Diameter	Mm	DN25	DN32	DN40	DN50	DN65	
Net Weight	Kg	420	550	750	850	950	
Size	length	Mm	1400	1550	1700	1800	1900
	width	Mm	1050	1100	1300	1400	1500
	height	Mm	1650	1700	1850	1950	2050

SINO-NSH reserves the right to change any part of this specification without notification due to improvement or any other reasons.



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