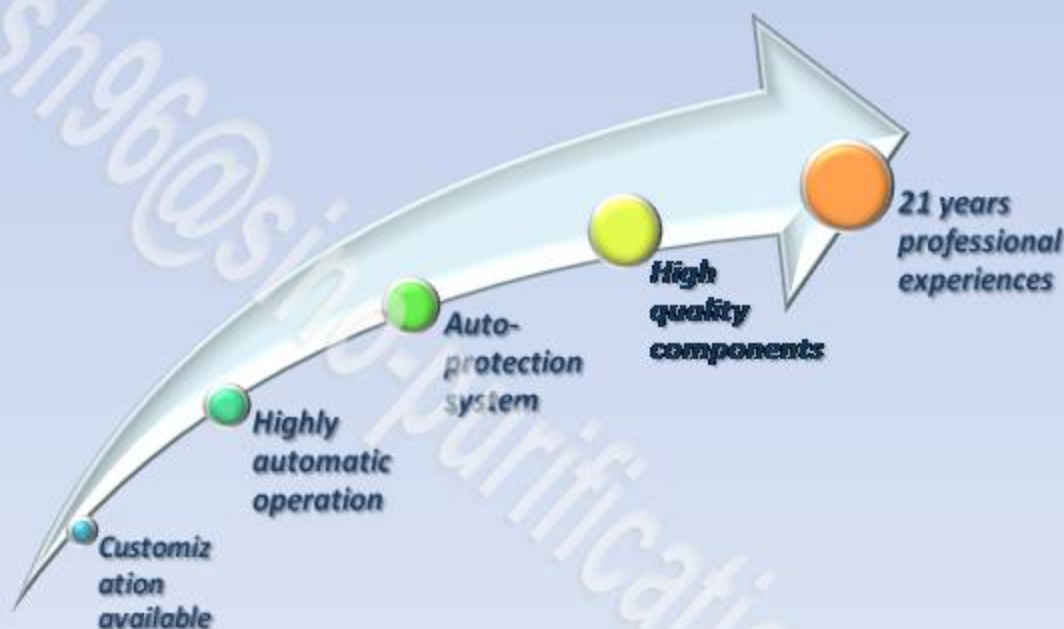




Sino-NSH Oil Purifier Manufacture Co., Ltd.

Products Guide



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Sino-NSH Oil Purifier Manufacture Co., Ltd. is a high-tech company which is engaged in researching, developing and manufacturing purification equipments. Its parent company, Sino-NSH High-Tech Company, was established in 1992.

NSH regards technical innovation and all-round service as its philosophy. Taking advantage of human resources capital and absorbing domestic and foreign advanced purification technology, NSH is committed in making purification equipments. NSH has been authorized the ISO9001 Quality Management System Certificate and becomes the main manufacture base of purification machines in China.

NSH oil purification equipment series are extensively used in the fields of electric power, petroleum, natural gas, mechanical manufacture, steel, metallurgy, railway and aviation, etc. The main products covering 100 kinds of products in 7 series can meet different needs of customers. For special demands of customers, we offer particular solutions. Nowadays, the company's sales network covers all the provinces in China and exports to more than ten countries around the world.

NSH products earn its fame on high quality, advanced technology and excellent service in both domestic and foreign markets.

NSH products are not only able to lower customers' cost and secure risk effectively, but also solve the problem of the waste-oil-contaminate environment.

Our vision is to be a first class company in the world. We are working hard to pursue it step by step.



Lubrication Oil Purifier		Page
VFD	Vacuum Insulation Oil Series	
VF	- Single-Stage Vacuum Type	
VFD	- Double-Stage Vacuum Type	
HVFD	- Double-Stage High Vacuum Type	
VFD-R	- Double-Stage Vacuum Regeneration Plant	
TF	Vacuum Turbine Oil Series	
TF	- Vacuum Type	
TC	- Centrifugal Combine Type	
CPPA	Lubrication Oil Centrifugal Separator	
LV	Multifunctional Lubrication Oil Purifier	
GER	Engine Oil Regeneration System	
FV	Flame-resistant Oil Purifier	
Corollary Equipment of Power Plant		
CPPA	Oil Centrifugal Separator	
VS	Vacuum Pump Set (Air Evacuating)	
AD	Air Drying System	
LF	Oil Flushing Plant	
DOF	Duplex Oil Filtration System	
DPCS	Oil Lubricating Station	
DOF	Duplex Oil Filtration System	
Machine Types		
Explosion-proof Type		
Automation Type /PLC Type		
Regeneration Type		
Steel Shield Type		
Trailer Type		
Trailer with Shield Type		



Vacuum Insulation Oil Purifier Series

- ✓ Flow rate of 30-300L/M
- ✓ Double-Stage Vacuum
- ✓ Enhance the value of breakdown voltage
- ✓ Vacuum oil-injecting of Transformer
- ✓ Auto-protection system
- ✓ Online work

+ Double-Stage Vacuum Transformer Oil Purifier Model VFD

VFD series utilizes coacervation technology, coalescing technology, separating technology and refined purification technology. Comparing to Model VF series, it add ROOTS vacuum system, second stage of separating system to improve the effect of purification.

- Water remove down to 4 PPM or less
- Particulate removal to less than 5 μ m
- Gas content to less than 0.1%



+ Single-Stage Vacuum Transformer Oil Purifier Model VF

VF series vacuum insulation oil purifier is mainly used to extend the lifetime of oils used in transformers, circuit breakers, mutual inductor, voltage regulators and switch gear, or to inject the insulating oil into the transformers.

- Water remove down to 7 PPM or less
- Particulate removal to less than 5 μ m
- Gas content to less than 0.1%



+ Double-Stage Vacuum Transformer Oil Regeneration Unit Model VFD-R

VFD-R series is adapt to regenerate and activate the deteriorated transformer oil.

It is capable of removing the moisture, gas and mechanical impurities as well as eliminating organic acid, sludge, pitches and dissociated carbon in the deteriorated transformer oil which are difficult to be removed by conventional oil purifier plants.

It also has isolate type. It can be dismantled from oil purifier machine when you don't need it.

After treatment index:

- Breakdown voltage ≥ 75 KV
- Flash point(close) $\geq 140^{\circ}\text{C}$
- Soluble acid PH value $\approx 5-7$
- Dielectric loss tangent $\text{tg}(90^{\circ}\text{C})\% \leq 0.002$
- Acid value $\leq 0.01\text{mgKOH/g}$



Vacuum Turbine Oil Purifier Series

- ✓ Flow rate of 30-200L/M
- ✓ Vacuum evaporation, coacervation, coalescing tech
- ✓ Eliminate soluble and dissolved water
- ✓ Automatic backwash filtering system
- ✓ Auto-protection system
- ✓ Online work

+ Vacuum Turbine Oil Purifier Type Model TF

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.



- Water remove down to 100 PPM or less
- Particulate removal to less than 5 μ m
- Demulsification number down to 15 min
- Cleanness to be 6 NAS

+ Centrifugal Combine Type Model TC

+ Turbine Oil Vacuum Purifier and Centrifugal Combination Plant

TC series is a combination plant with centrifugal separator and vacuum separator.

This series combines the principle of rapid free water and particulate contamination removal treated by centrifuge and coalescer and filter separator system to obtain maximum turbine oil system cleanliness.

It is capable of removing the moisture, gas and mechanical impurities as well as eliminating organic acid, sludge, pitches and dissociated carbon in the deteriorated transformer oil which are difficult to be removed by conventional oil purifier plants.



- Water separate sensor
- Drum equips hydraulic structure
- Slag is removed thoroughly
- Stable transmission structure
- More simple mechanical structure

Centrifugal Lubrication Oil Separator Series

- ✓ Flowrate of 25-100L/M
- ✓ Oil, water, solid (light, heavy phases) separation
- ✓ To treat lubrication oil or fuel oil
- ✓ Remove water and mechanical impurities
- ✓ Programmable Logical Control available
- ✓ Low Power Consumption

+ Centrifugal Lubrication Oil Separator Model CP

Fuel treatment, Lube oil treatment, Marine, Power stations, Oilfield industry

Centrifugal separator mainly apply to treat fuel, lubrication oil and other mineral oils in marine diesel engines and diesel generator sets in which contain water and mechanical impurities. CP series will result in reducing mechanical wear of the diesel engines and other machines so as to greatly extend lifetime of machinery.

CPPA series can also be applied to separate two different liquids with different proportion and being immiscible.



- PLC available
- Self-clean or manual clean available

Multifunctional Lubrication Oil Purifier Series

- ✓ Flowrate of 30-200L/M
- ✓ Vacuum evaporation, coacervation, coalescing tech
- ✓ Remove free, soluble water, carbon and gas
- ✓ Suitable for hydraulic oil, industrial oil, machine oil, coolant oil, etc.
- ✓ Auto-protection system
- ✓ Online work

+ Multifunctional Lubrication Oil Purifier Model LV

Most of breakdown of machinery which has lubrication oil system results from contaminated lubrication in which has water, gas, impurities etc. LV series can rapidly remove water, gas, particulate matters and impurities from lubrication oil and improve properties of lubricating oil so as to greatly extend lifetime of machinery which has lubrication system.

- Perfect capacity of removing impurities
- Automatic reverse wash system
- Auto-protection system
- Wide range of oil application



Engine Oil Regeneration Series

- ✓ Capacity of 500-10,000 per day
- ✓ Coacervation and separation tech
- ✓ Remove color, impurities, colloid, water, etc
- ✓ Able to remove the scent of treated oil
- ✓ Auto-protection system
- ✓ Low maintenance expense

+ Engine Oil Regeneration Plant **Model GER**

GER series Used engine oil regeneration system is particularly suitable to regenerate used internal-combustion engine oil including diesel engine oil, gasoline engine oil and used hydraulic oil, other used machinery's lubrication oil. GER series are able to effectively remove colloid, oxid, acid, pitch, particles, impurities, water, gas in the used oil. Specially, GER can restore the color of used oil and remove the scent rapidly.

- Rate of Reclamation: 70-90%
- Working Pressure: -0.095-0.4 MPa
- Boiler heating point available
- High precision stainless steel strainer
- Also apply for hydraulic oil, industrial oil and mixed oil





Standard Models:

VF	Single-Stage Vacuum Purifier
VFD	Double-Stage Vacuum Purifier
HVFD	Double-Stage High Vacuum Purifier

Configuration Options:

Stationary
Mobile with castor wheels
Steel Shield with castor wheels
Mobile with trailer
Mobile with trailer and steel shield cover

Machine Options:

Explosion-proof Type
Automation Type /PLC Type
Regeneration Type

Corollary Equipment of Power Plant

VS - Vacuum Pump Set (Air Evacuating)
AD - Air drying system
LF - Oil Flushing System
DOF - Duplex Oil Filtration System
DPCS - Oil Lubricating Station
CPPA - Centrifugal Separator



Stationary



Mobile with castor wheels



Mobile with trailer



Steel shield with castor wheels



Single axle trailer with cover



Double axle trailer with cover



Automation with PLC



VS



AD



DPCS



DOF



CPPA



Turnkey Solutions

- ◆ Commissioning
- ◆ Training
- ◆ Customer service
- ◆ Spares
- ◆ Instruments
- ◆ Technical support and schemes

Our Clients



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