



NSH 重庆恩氏过滤设备制造有限公司
Sino-NSH Oil Purifier Manufacture Co., Ltd.

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Introduction

Introduction of NSH

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 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.

We believe

The development of NSH is derived from the talent of employees
 The survival of NSH is based on the quality of products
 The efficiency of NSH is granted by the rigor of management
 The achievement of NSH is drive from the power of innovation.

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Guarantee & Documentation	错误！未定义书签。



Vacuum Lubrication Oil Purifier

Model LV

Preface

Unless carrying through regular maintenance, the hydraulic oil, machine oil and coolant oil also will be contaminated in spite of carefully installation and operation. The electrical equipment will fall in trouble as the declining of the oil's insulation trait. The expenses and time used in maintenance of the equipment will far more than that of the hydraulic oil, machine oil and coolant oil. The treatment of the oil aims to eliminate moisture and other contaminations in the use of the electric equipment. Therefore, making the most use of the equipment to gain the highest efficiency is the key requirement to save expenses.

There are varieties of models of LV series which have same theory of heating, filtering and vacuum dehydrating. Their treatment capacity is varied from 600L/H to 18000L/H. These equipments can be in use only if there is adequate power supply.

The design of LV series is to eliminate the contaminations in the hydraulic oil, machine oil and coolant oil.

99.9% of the dust particle (>5um) in the oil can be eliminated by LV series, and the content of water will decline to 5ppm, the content of the moisture will decline to 0.1%. LV can be used in oiling into the electric equipment when it is adopted under the condition of single circulation. The degree of contamination will be further declined when repeating the treatment and the water will be eliminated completely.



Application



LV series oil purifier are specially suitable for purifying and restoring hydraulic oil, machine oil, coolant oil and various other lubrication oil. 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.



Features

- ✧ Perfect capacity of removing impurities. The special filters made by NSH are made of special materials which can eliminate various impurities, water and gas effectively and rapidly.
- ✧ Automatic reverse wash system will extend the lifetime of filters and improve the performance of the filters.
- ✧ High performance of security system including pressure protection device and automatic temperature controller makes purifier operate safely.
- ✧ Online work
- ✧ Easy handling and maintenance.
- ✧ Lower maintenance and replacement expenses
- ✧ Small size, light weight, low noise
- ✧ Various sizes and configurations (alloy shield) available.

Edges of products



➤ Dehydration (Degas) System

- ✧ The horizontal vacuum vessel can enlarge evaporation area efficiently. The heater, being placed on the horizontal vacuum vessel, becomes an evaporator. Thus the evaporation area of horizontal vacuum vessel is three times more than that of the vertical 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.



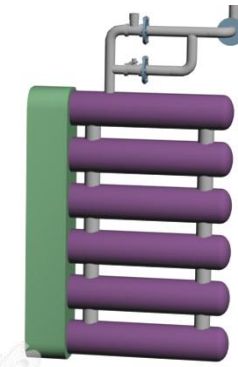
➤ Electrical Apparatus controlling System

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



➤ **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 40°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.



➤ **Oil-level Controlling System**

- ✧ The oil-level floating ball and infrared liquid level automatic controller system are installed in the vacuum vessel to control the oil level so as to avoid the oil leaking in the operation.
- ✧ The new innovation of eliminating froth can avoid the oil ejecting and gushing during the process.

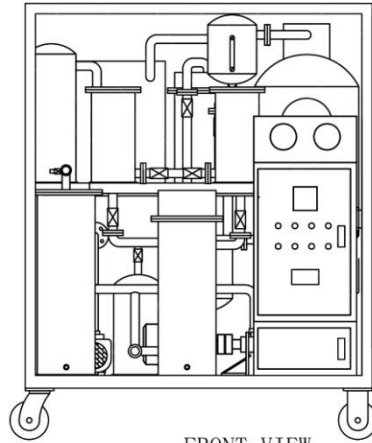
➤ **High quality components**

- ✧ The main component parts of our products such as vacuum pump, oil pump and electric apparatus are from SIEMENS, LEYBOLD, PALL, ABB, ALLWEILER, OMRON, SCHNEIDER, RIETCHLE, NSH and AMICO etc. It ensures our products high quality and reliability.

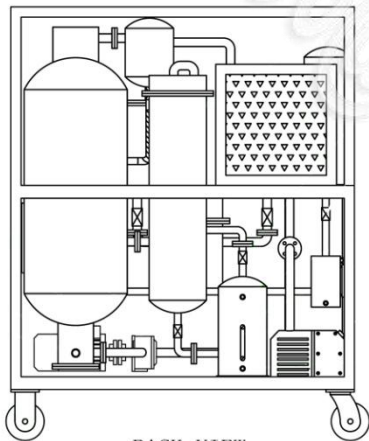
➤ **Structure and appearance of Oil purifier**

- ✧ Our products adopt ship-shape chassis-mount structure to ensure oil leak proof 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(alloy shield) available
- ✧ Available in mobile or stationary options
- ✧ Automatic vacuum oil purifier or anti-explosion vacuum oil purifier is both available according to customers' needs.

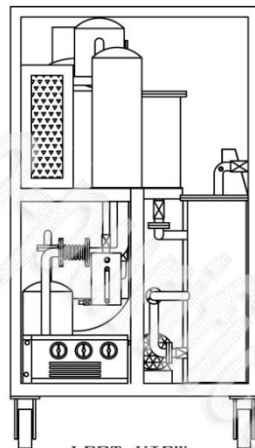
Structure Diagram



FRONT VIEW



BACK VIEW

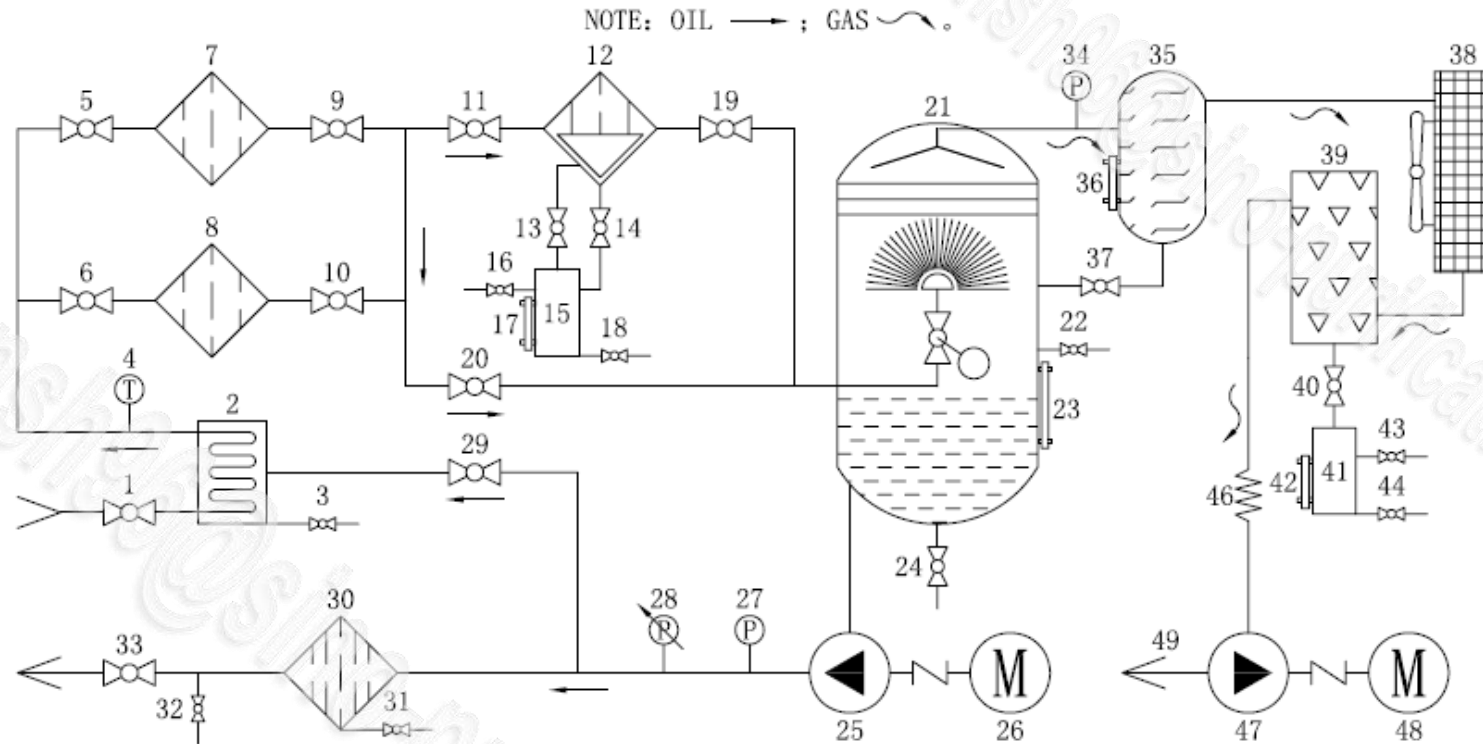


LEFT VIEW

Technical Specification

Item	Unit	LV	
Flow Rate	L/H	1800-12000	
Vacuum Range	Mpa	-0.065 ~ -0.096	
Working Pressure	Mpa	≤ 0.4	
Clearness	NAS	≤ 6	
Temperature Range	°C	20 ~ 80	
Water Content	PPM	≤ 100	
Impurity Size	μ m	≤ 5	
Power Supply	V	380V/50Hz (or as needed)	
Working Noise	dB	≤ 75	
Heating Power	Kw	30 ~ 180	
Total Power	Kw	34 ~ 186	
Pipeline Diameter	mm	DN20 ~ DN65	
Net Weight	Kg	650 ~ 1200	
Size	length	mm	1500 ~2050
	width	mm	1050 ~1600
	high	mm	1550 ~2000

Flow Chart



- 1, OIL INLET VALVE 2, HEATER 3, BLOW OFF VALVE OF HEATER 4, TEMPERATURE CONTROLLER 5, OIL INLET VALVE OF PRIMARY FILTER I
- 6, OIL INLET VALVE OF PRIMARY FILTER II 7, PRIMARY FILTER I 8, PRIMARY FILTER II 9, OIL OUTLET VALVE OF PRIMARY FILTER I
- 10, OIL OUTLET VALVE OF PRIMARY FILTER II 11, OIL INLET VALVE OF WATER SEPARATOR 12, WATER SEPARATOR 13, ISOLATION VALVE I OF WATER SEPARATOR
- 14, ISOLATION VALVE II OF WATER SEPARATOR 15, WATER CONTAINER 16, VENT VALVE OF WATER CONTAINER 17, OIL LEVEL METER OF WATER CONTAINER
- 18, BLOW OFF VALVE OF WATER CONTAINER 19, OIL OUTLET VALVE OF WATER SEPARATOR 20, BYPASS VALVE OF WATER CONTAINER 21, VACUUM SEPARATOR
- 22, VENT VALVE OF VACUUM SEPARATOR 23, OIL LEVEL METER OF VACUUM SEPARATOR 24, BLOW OFF VALVE OF VACUUM SEPARATOR 25, OIL PUMP 26, MOTOR OF OIL PUMP
- 27, PRESSURE METER 28, PRESSURE CONTROLLER 29, CIRCULATION VALVE 30, FINE FILTER 31, BLOW OFF VALVE OF FINE FILTER 32, SAMPLING VALVE
- 33, OIL OUTLET VALVE 34, VACUUM METER 35, DISPEL FOAM DEVICE 36, OIL LEVEL METER OF DISPEL FOAM DEVICE 37, CIRCUMFLUENCE VALVE OF DISPEL FOAM DEVICE
- 38, RADIATOR 39, COOLER 40, ISOLATION VALVE OF COOLER 41, WATER CONTAINER 42, OIL LEVEL METER OF WATER CONTAINER 43, VENT VALVE OF WATER CONTAINER
- 44, BLOW OFF VALVE OF WATER CONTAINER 46, COMPENSATOR 47, VACUUM PUMP 48, MOTOR OF VACUUM PUMP 49, GAS OF VACUUM PUMP

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NSH-LV

SINO-NSH WARRANTS PRODUCTS AGAINST DEFECTS IN MATERIAL AND WORKMANSHIP UNDER NORMAL USE AND SERVICE FOR A PERIOD OF TWENTY-FOUR (24) MONTHS FROM DATE OF SHIPMENT OR TWENTY (20) MONTHS AFTER THE START UP OF THE SYSTEM. SINO-NSH'S OBLIGATION UNDER THIS WARRANTY IS LIMITED TO REPAIRING OR FURNISHING, WITHOUT CHARGE F.O.B. POINT OF MANUFACTURE, A SIMILAR PART TO REPLACE ANY PART, WHICH WAS PROVEN TO BE DEFECTIVE WITHIN WARRANTY PERIOD. SINO-NSH SHALL NOT IN ANY EVENT BE HELD RESPONSIBLE FOR ANY INDIRECT OR CONSEQUENTIAL DAMAGES. THE PERFORMANCE GUARANTEE WILL BE WITHIN LIMITATIONS AS DETAILED IN DUTY & PERFORMANCE PARAGRAPH OF THIS SPECIFICATION

THESE SYSTEMS ARE DESIGNED TO OPERATE WITH THE UTMOST SIMPLICITY AND ARE REQUIRED; PLEASE CONTACT SINO-NSH FOR ADDITIONAL CHARGES.

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