



## ZJD Vacuum Lubrication &Hydraulic Oil Purifier Equipment



### Application:

The machine is a high vacuum machine with dehydration plant and three high-precision filters, which can remove water, impurities, gas thoroughly and quickly from all kinds of waste Lubrication oil and high viscosity oil, including mineral oil and lubrication oil and hydraulic oil and bunker oil. we can paint the machine according to your requirement.

### Features:

- ◆ This machine can remove the water and gas from the oil quickly.

Tongrui ZJD Series Lubrication Oil Purifier Equipment adopts multilevel cartridge filter Vacuum Pump for getting rid of the vapor and the gas from the oil quickly. First filtration adopts large capacity filter which can be easy to clean. It can remove the water and gas from the oil quickly; the filter of this equipment using the world's leading "layered filtration" technology can remove the tiny particles of oil with big capacity, high intensity, long useful time.

- ◆ Strong demulsifying and dehydration capability

Tongrui ZJD Series Lubrication Oil Purifier Equipment adopts world's leading "cavitations" principle and the technology of coalescence & separation. It work with special designed polymer demulsification device, which could easy to separate the liquid water 、 free water and the miring water from oil. It can recovery the badly emulsionized lubricating oil and reach the using requirement of Hydraulic pressure lubrication equipment.

- ◆ Machine is operated with high degree of automation , and the system is safe& reliable

Tongrui ZJD Series Lubrication Oil Purifier Equipment is safe& reliable.

control circuit apparatus all using imported brands and adopt five control system of advanced infrared liquid level automatic control system、 overpressure automatic protection system(when the filter is blocked)、 condensed water automatic separation system、 constant temperature automatic control system and electric automatic protection control system.

It's safe, reliable and easy to operate with the automatic computer control operation; and it can realize human-machine from operation.

◆The equipment has compact structure and human oriented design for Environment.

The structural design of Tongrui ZJD Series Lubrication Vacuum Oil Purifier Equipment is reasonable. And our machine used human design, simple and quick operation, which can work online.

The equipment is easy to use for it good Performance of Small volume, high efficiency low operating noise and light in weight. The main machine components all adopt imported brands, which with reliable quality and low maintenance costs. What's more, we adopt the special technology to extend the use time of main parts. Just like the adoption of medium condensing cooling technology, it increases the effective output of vacuum pump and the use time of machine.

◆Adopt high precision and stainless steel FH rectangle filtration system that import from Japan, the precision of filter can reach up to 3-5 micron.

## **Guarantees & Documentation:**

TONGRUI Warrant the plant supplied under this specification against defects in material and workmanship under normal use and service for a period of sixteen (16) months from date of shipment or twelve (12) months after the start up of the system.

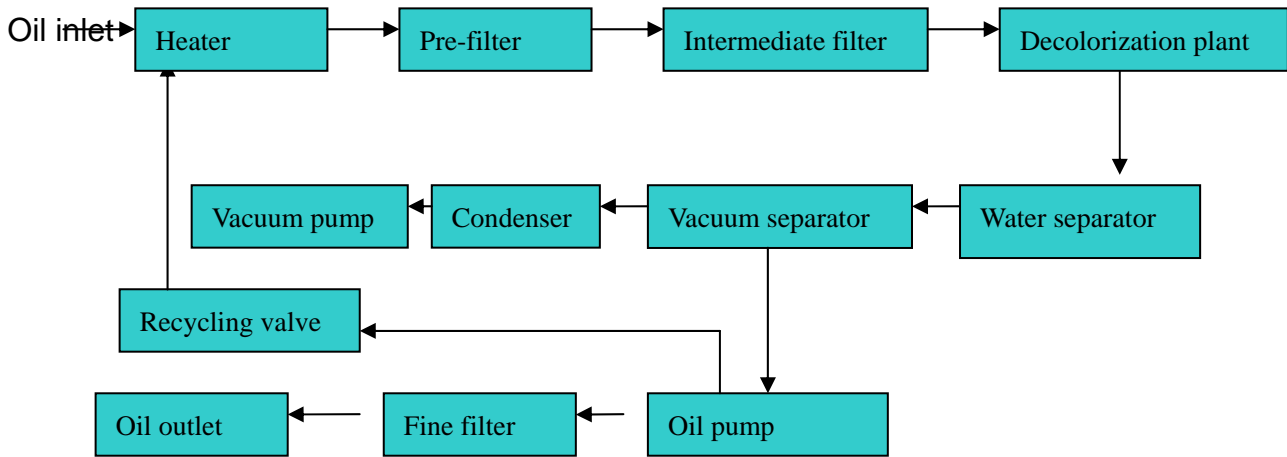
We will supply Two(2) copies of operating & maintenance manuals

## **Working principle& flow chart:**

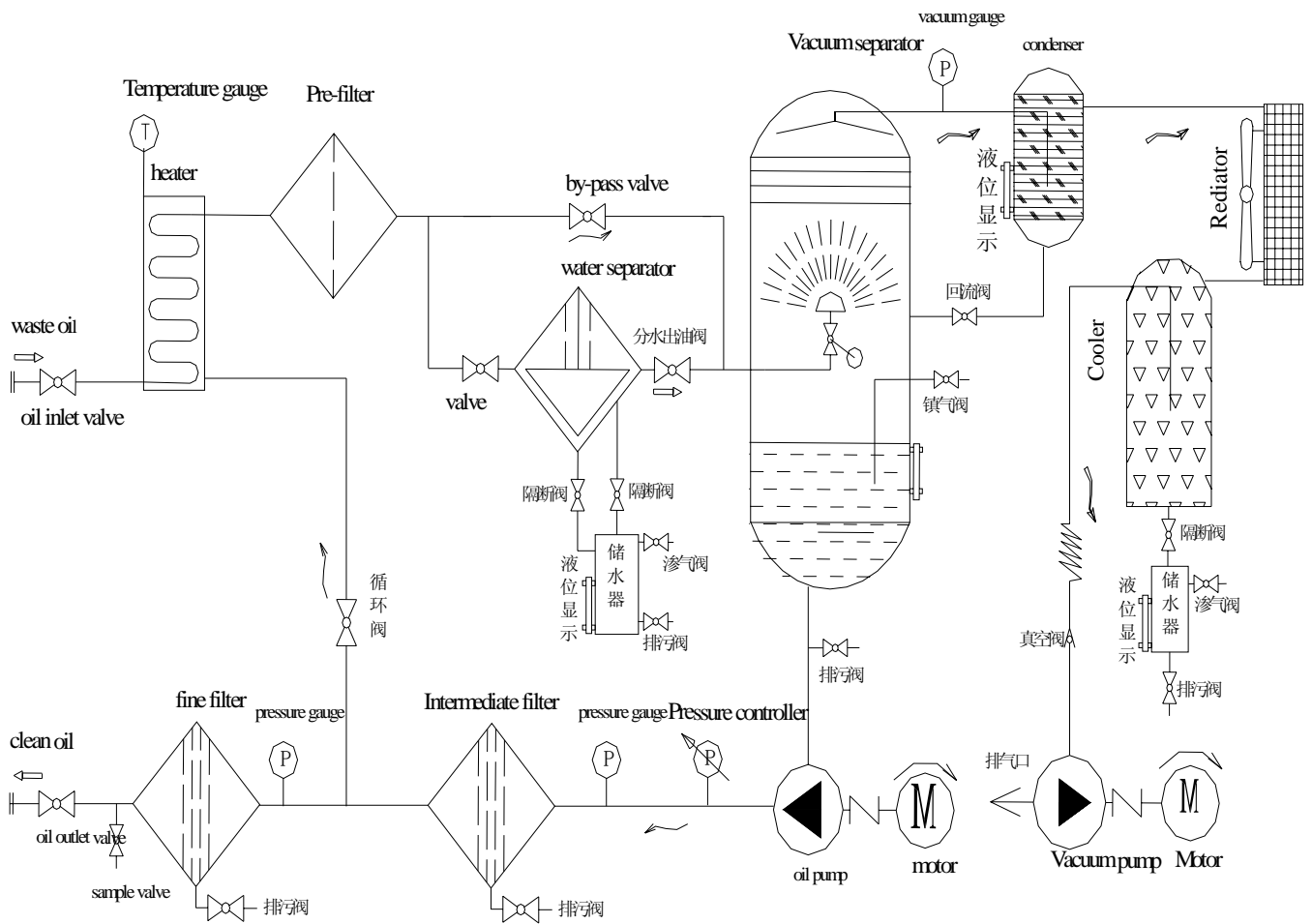
### **1, Working principle**

When the oil purification starts, firstly contaminated oil enter into heater, secondly flowed into pre-filter under the difference pressure, in which the large impurities are removed. Thirdly oil goes into intermediate filter. Fourthly oil flow into water separator, the water separator adopts a special skill which changes the change the impaction of oil and water to speed up trace water and coagulate big water which is separated from oil and stored in water content. After that, oil passes through the fine filter and fine particles of matters is removed during the process. finally oil flows into vacuum pump which use stereo-evaporation removing residual trace of water and steam is condensed in the condenser or expelled out by the vacuum system. the oil was transported out by oil pump. The purification process has finished.

## 2. Flow chart



## 3. Structure



## Technical Parameter

Index name	Unit	ZJD -10	ZJD -20	ZJD -30	ZJD -50	ZJD -75	ZJD -100	ZJD -150
Flow rate	Litres / hour	600	1200	1800	3000	4500	6000	9000
Vacuum degree	Mpa	-0.06 ~ -0.095						
Working pressure	Mpa	≤0.4						
Temperature range	℃	0 ~ 100						
Water content	PPm	≤80						
Cleaness	NAS	≤6(Class)						
Gas content	%	≤0.1						
Impurities content		3-5Micron						
Power Supply		380V/3phase/50HZ (can be designed based on user's requirement)						
Noise	dB(A)	≤75	≤75	≤75	≤78	≤78	≤78	≤80
Demulsifying Value	min	New oil≤8,Operating oil≤15						
Heating Power	kw	36	40	45	72	80	90	120
Total Power	Kw	38	42	47	75	87	101	135
Diameter of inlet&outlet	mm	25	25	25	32	42	50	50
Wight	Kg	450	550	600	750	850	1000	1200
Dimension(mm)	Length	1300	1350	1400	1500	1600	1650	1750
	Width	900	950	1000	1150	1250	1300	1400
	Height	1600	1600	1650	1700	1700	1750	1950

## Chongqing Tongrui Filtration Equipment

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