



# WINSONDA

OIL FILTRATION SOLUTIONS

Professional Oil Contamination Control Provider



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WINSONDA OIL FILTRATION SOLUTIONS was established in 2009 , professional supplier of leading technology for oil contamination control. We specialize in providing advanced purification units to meet our customers' needs for high cleanliness lubricants and pursue the establishment of proactive maintenance programs.

Wisonda's core filtration technology helps customers easily remove contaminants (particles, water, sludge, varnish, acids) from turbine oils, insulating oils, hydraulic fluids, etc. It has been widely used in many different applications such as petrochemicals, air separation, power plants, aerospace, military, steel, shipbuilding, chemical, automotive, construction machinery, and hydraulic test stands. Our products have won wide acclaim from our customers for their excellent performance, and some of them have been designated as standard products in specific fields.

With highly qualified R&D and production team and oil testing laboratory, WINSONDA has the strength to provide accurate data analysis and effective solutions to our customers. At present, we have 37 authorized invention and utility patents in the field of oil purification. A large number of successful cases show that our products play an important role in helping customers to extend the service life of lubricants, reduce equipment failure rate and lower maintenance costs. It has also made outstanding contributions to resource conservation and sustainable economic development.



10% Annual turnover invested in R&D

50+ 1 out of every 10 Fortune 500 companies choose us

2000+ Global clients

6000+ Filtration units are active for creating value for customer

CUSTOMER





# WVDJ Varnish And Water Removal Unit

Remove suspended and dissolved products of oil degadation sludge/varnish  
Remove the catalyst of oil oxidation- water

## Product Introduction

The customer require remove water,sludge,varnish from lubricating system by one filtration unit. To meet this demand,Wisonda developed this model WVDJ which intergates the technologies of water colaescing separation , balance charging coalescence and dry resin ion-exchange element.

## Product Features

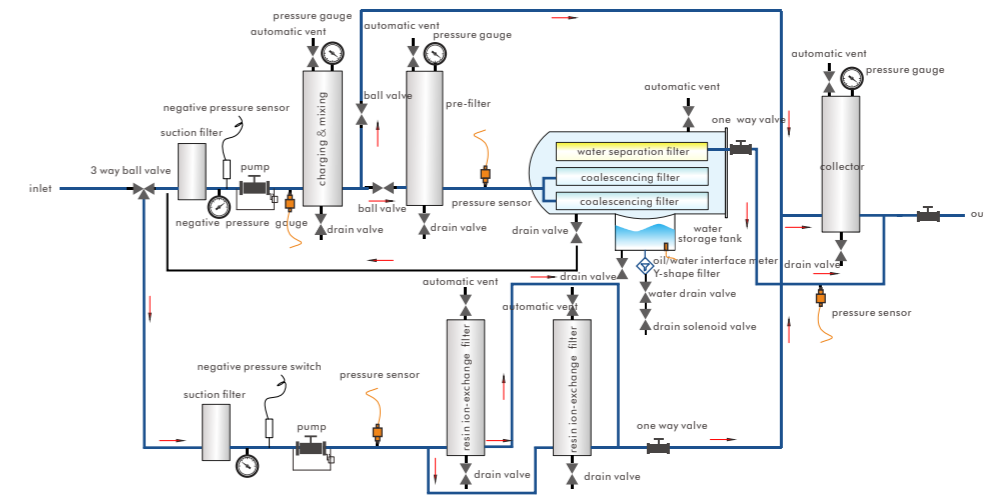
- Through the combination of balance charge coalescing and high-efficiency coalescence separation technology,it can quickly remove impurities and also form agglomeration effect on tiny water,which greatly improves the speed and accuracy of water removal.
- The fully synthetic material coalescence and separation filter element is selected to ensure the dehydration effect,which can meet the continuous large flow treatment and can operate continuously for a long time.
- Balance charge coalescing increases the filtration level to sub-micron, which not only filters out all particulate contaminants as small as 0.1 microns in the fluid , but also actively strip off the sludge varnish adhering to the inner surface of the system can realize the cleaning function of the inside of the equipment,and continuous operation can avoid the sticking valves,bearing failures and unplanned outage.
- Unique compound of resin microbeans is applied to remove dissolved varnish and eliminate the root cause of varnish formation.



## Technical Data

Name	WVDJ Standard	WVDJ (explosion-proof)
Model	WVDJ-20	WVDJ-20-IIC
Dimension: L*W*H	1740mmx1350mmx1645mm	1790mmx1350mmx1825mm
Weight	750KG	920KG
Inlet Connector	1CT-36-16 SP M36×2 connecting hose R1`×11 ball valve	
Outlet Connector	1CB-36-12 WD M36×2 connecting hose G3/4`×14 ball valve	
Applicable Oil	Turbine oil	
Power Supply	3 phase 4 wires AC380V 50HZ	
Control Power Supply	AC220V	
Flow Rate	20L/min	
Power	0.9kW	
Ingress Protection	IP55	IP56
Inlet Pressure	Max-0.06MPa	
Outlet Pressure	Max 0.4MPa	
Operating temperature	20~80℃	

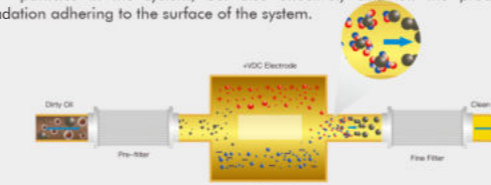
## Flow Chart



## Working Principle

### Balanced charge coalescence

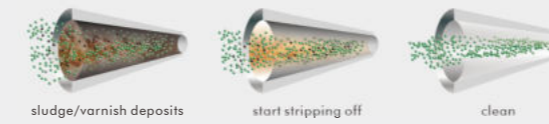
The balanced charge coalescence can not only effectively remove the insoluble sub-micron particles in the system, but also effectively strip off the products of oil degradation adhering to the surface of the system.



The fluid carrying the small particulates is divided into two branches, which are loaded with positive (+) and negative (-) charges respectively. The small particulates pick up these charge and flow toward mixing area. Positive & negative particles attract each other and agglomerate to form larger particles. Then larger particles are big enough to be captured and removed by standard filters.

### Stripping adhesive sludge/varnish off

The charged particles circulate through the system and gradually adsorb and strip adhesive sludge/varnish off the surface of components(pipelines, valves, filters ,bearings etc.). it can restores your whole system clean.

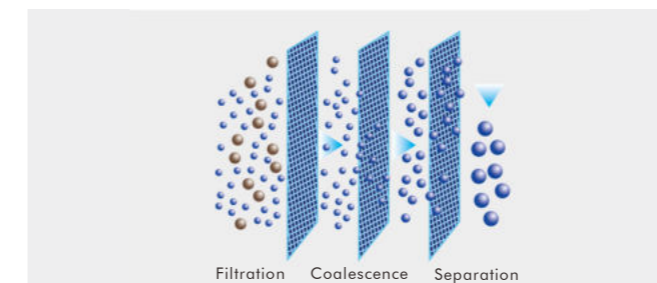


### Dry resin ion-exchange element

Typically, lubricants degrade in service due to chemical, thermal, mechanical stress which accelerates the reaction of oil oxidation. The byproduct of oil degradation is easy to combine and create long-chain molecules with higher molecular weight. These molecules will polymerize and get dissolved into lubricants. If left untreated, these polymers will continue to grow and precipitate to form sludge and varnish. Dry resin ion-exchange element is engineered to remove dissolved varnish molecule from your lubricating system and break the varnish formation cycle.

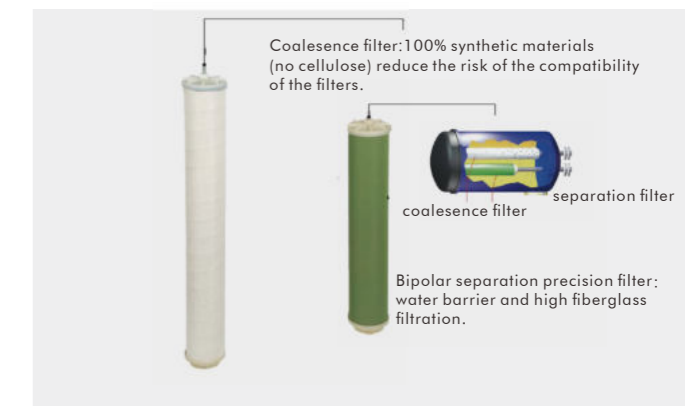


### Process of water coalescing separation



**Filtration:** solid particles are removed out from fluid by filter medium.  
**Coalescence:** free water droplets are pool together and get larger when lubricants flow through the fiberglass medium.  
**Separation:** larger droplets are blocked on the outer surface of the separation medium and settle to water storage tank under the action of gravity.

### Coalescing separation filters





## WVD™ Varnish removal unit

Remove suspended and dissolved products of oil degadation-sludge/varnish



### Product Introduction

The varnish/sludge is the product formed by the oxidative degradation of the oil, and exists in the oil in a dissolved or suspended state when the amount of varnish exceeds the solubility of the lubricating oil, it will precipitate and adhere to the surface of the components in the low flow area, resulting in machine's failure.

WVD™ combines electrostatic adsorption purification technology and ion-exchange technology, which can effectively remove soluble and insoluble varnish existing in the lubrication system, and prevent the formation of varnish to the greatest extent.

The goal of WVD™ is to minimize the amount of harmful varnish in a short period of time and restore the lubrication system to optimal operation.

### Product Features

- WVD™ removes suspended/dissolved varnish out of lubricants, significantly mitigate the varnish potential(MPC Δ E) or QSA test
- Improve lubricants cleanliness grade.
- Reduce the rate of sticking & seized spools and valves
- Solve the problems of overheating bearing failures.
- Extend the lifetime of lubricants and machinery.
- Increase the machine's reliability and reduce the maintenance cost.
- This filtration unit is space-saving structure and is easy to operate.

### Technical Indicators

Name	WVD-I™ (explosion-proof)	WVD-I™ (standard)	WVD-II™ (explosion-proof)	WVD-II™ (standard)
Length	1480mm	1440mm	1775mm	1235mm
Width	1025mm	820mm	1000mm	820mm
Height	1680mm	1510mm	1765mm	1510mm
Weight	550KG	380KG	835KG	485KG
Power Supply	3 phase 4 wires AC380V 50HZ			
Power	0.4kW		0.4kW	
Flow Rate	10L/min		20L/min	
CE certification	Yes			
Ingress Protection	Ip56	IP55	IP56	IP55
Seal Material	Viton			
Inlet/Outlet hose	M30x2			
Addition Filtration	10µm post filter			
Other features	Sampling port,Sensors(industrial wheel and handle)			
Oil Reservoir (Depend on oil type, contaminants and application)	30000L For permanent installation		80000L For treat multi reservoirs at one site	
Viscosity Range	≤220cSt@40°C			
Optimal Fluid Temperature	≤80°C			
Inlet Connector	1CB-30-12WD M30×2 connecting hose G3/4"×14 ball valve			
Outlet connector	1CB-30-12WD M30×2 connecting hose G3/4"×14 ball valve			

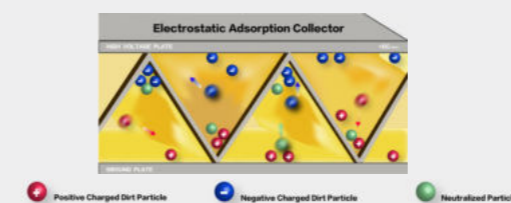
### Working Principle

#### ▾ Electrostatic adsorption element

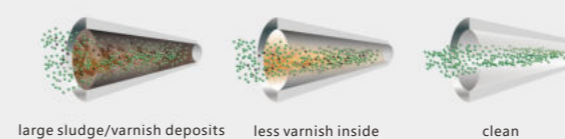
According to the principles of electrophoresis and dielectrophoresis, when the charged particles move directionally in a cylindrical non-uniform electric field, these insoluble varnish/sludge are trapped in pleat medium for removing out of lubricating system.

As the solubility of lubricant increase, the varnish remaining on the metal surface of the system will dissolve back into the oil again and be captured and removed by the collector.

#### ▾ Diagram of electrostatic adsorption



#### ▾ Diagram of strip adhesive varnish off



#### ▾ Dry resin ion-exchange element

Typically, lubricants degrade in service due to chemical, thermal, mechanical stress which accelerates the reaction of oil oxidation. The byproduct of oil degradation is easy to combine and create long-chain molecules with higher molecular weight. These molecules will polymerize and get dissolved into lubricants. If left untreated, these polymers will continue to grow and precipitate to form sludge and varnish. Dry resin ion-exchange element is engineered to remove dissolved varnish molecule from your lubricating system and break the varnish formation cycle.





# WJJ Water Removal Unit



## Product Introduction

WJJ is developed for the lubricating fluids with large water content and serious emulsification. Combined with coalescence separation and balanced charge technology, it can quickly remove free/emulsified water, gas and impurities from the oil and restore contaminated oil to qualified use standards. Through continuous bypass filtration, WJJ can ensure critical production units a stable output and prolong the maintenance interval.

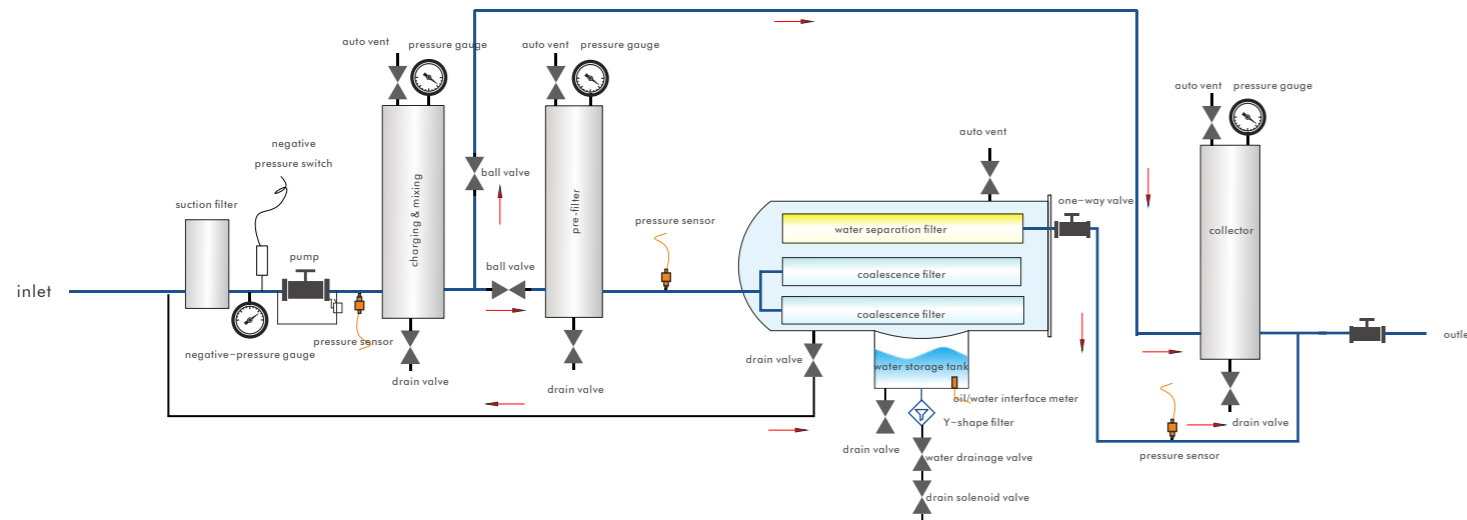
## Product Features

- Advanced coalescence separation enables dehydration fast and effective.
- Automatic water drainage saves manpower
- Low power consumption (Total power 1.1-7.5KW)
- No heating required, space-saving construction, it is easy for operator to use and maintenance.
- Balanced charge coalescence element provides NAS 5 cleanliness level by removing sludge/sub-micron particles and clean your lubricating system.

## Technical Indicators

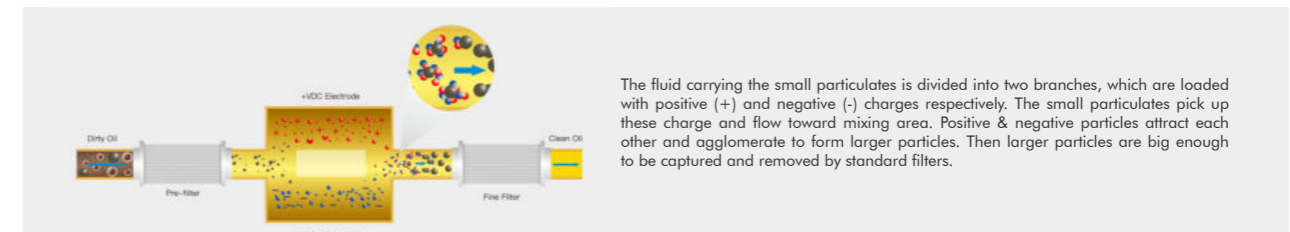
Specification	unit	WJJ-30	WJJ-50	WJJ-80	WJJ-100	WJJ-150	WJJ-200	WJJ-300
Flow Rate	L/H	1800	3000	4800	6000	9000	12000	18000
Operating Press	Mpa	0.05-0.4						
Operating Temperature	°C	≤80						
Water Content	PPM	≤10%						
Cleanliness Level	NAS	3-7						
Power	kW	0.9	1.6	2.3	3.1	4.1	5.6	7.6
Length	mm	1820	1855	1890	1890	2335	2335	2335
Width	mm	1000	1000	1000	1000	1180	1180	1200
Height	mm	1650	1650	1675	1675	1780	1780	1900
Weight	KG	350	560	680	750	850	1000	1150
Inlet Connector	---	1CB-36-16WD M36 ×2 connecting hose G1"×11 ball valve	1CB-45-20WD M45 ×2 connecting hose G1.1/4"×11 ball valve	1CB-52-24WD M52 ×2 connecting hose G1.1/2"×11 ball valve			---	
Outlet Connector	---							---

## Flow Chart

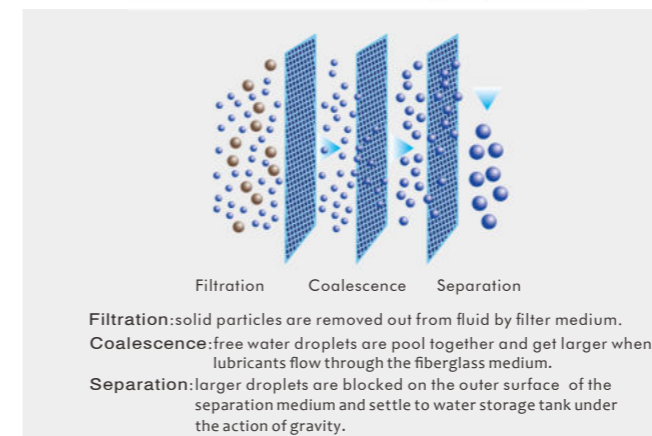


## Working Principle

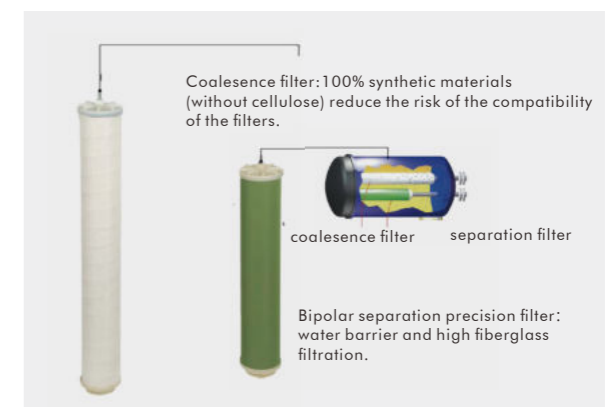
- Balanced charge coalescence removes suspended sludge/varnish



- Process of water coalescing separation



- Coalescing separation filters





# WJZ-K8™ EHC Filtration Unit

## Product Introduction

Phosphate ester-based hydraulic fluids are the most common fire-resistant EHC fluids in use today. It offers higher flash and fire points than mineral oils. The most importantly, it is less likely to spread flaming streams or burning pools of oil. But it is also with disadvantages of poor thermal/hydrolysis stability. So the deterioration of EHC oil is inevitable during operation, such as increased acid number/water content and decreased resistivity. To ensure the stable operation and prolong the lifetime of fire-resistant oil, it's extremely important to manage health EHC fluid. WJZ-K8 combines balanced charge coalescence and dry resin ion-exchange elements, which can effectively remove & prevent acid from EHC system. It improves fluid resistivity and reduces the contaminants and moisture content.

## Product Features

- New formulated DRIE element removes acid effectively and keep the acid number lower than 0.08. Its capacity of acid removal is 7 times higher than diatomite.
- Balanced charge coalescence technology removes insoluble varnish/sludge, keeping cleanliness under NAS 5.
- Increase resistivity of fire-resistant oil to avoid electrochemical corrosion.
- Rapid removal of metal ions (Ca, Mg, Na, Fe) from the use of diatomaceous earth filters.
- DRIE adopt uniformed microbean compound will not leak to EHC fluid.

## Technical Indicators

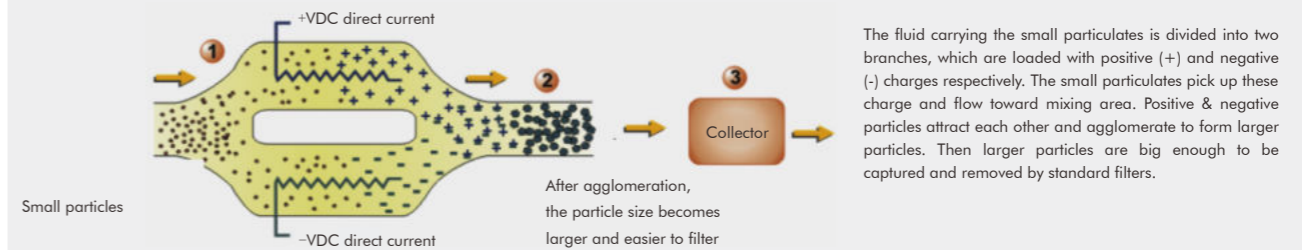
Name	Specification
Length	1210mm
Width	750mm
Height	1325mm
Weight	340KG
Power Supply	3 phase 4 wires AC380V 50HZ
Flow Rate	8L/min
Certification	Yes
Ingress Protection	IP55
Seal Material	Viton
Inlet/Outlet Pipeline	M26x1.5
Additional Filtration	5-µm front & 3µm post filter
Other Features	Sampling port, Sensors (industrial wheel and handle)
Machine Material	SUS 316
Inlet Connector	1CB-26-08WD M26x1.5 connecting hose G1/2" x 14 Ball valve
Outlet Connector	1CB-26-08WD M26x1.5 connecting hose G1/2" x 14 Ball valve



## Working Principle

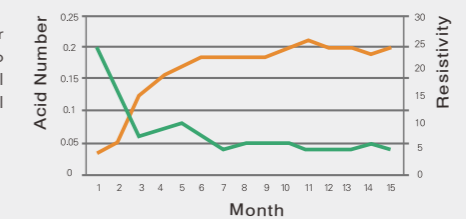
### Balanced charge coalescence-submicron filtration

Powered by balanced charge coalescence technology, WJZ can remove all insoluble contaminants from your system including submicron sludge and varnish. As the oil mixed with charged particles continues to circulate in the system, the contaminants adhere to the surface of the inside system and will be continuously absorbed and washed off, thus making the entire hydraulic system clean.



### Dry resin ion-exchange element

The new formulation of DRIE not only removes dissolved molecular varnish but also removes acid from fire-resistant fluid. Compared to other acid removal technologies, DRIE has higher acid removal capacity, long service life, and more efficiency. And DRIE element will not introduce water during its operation.

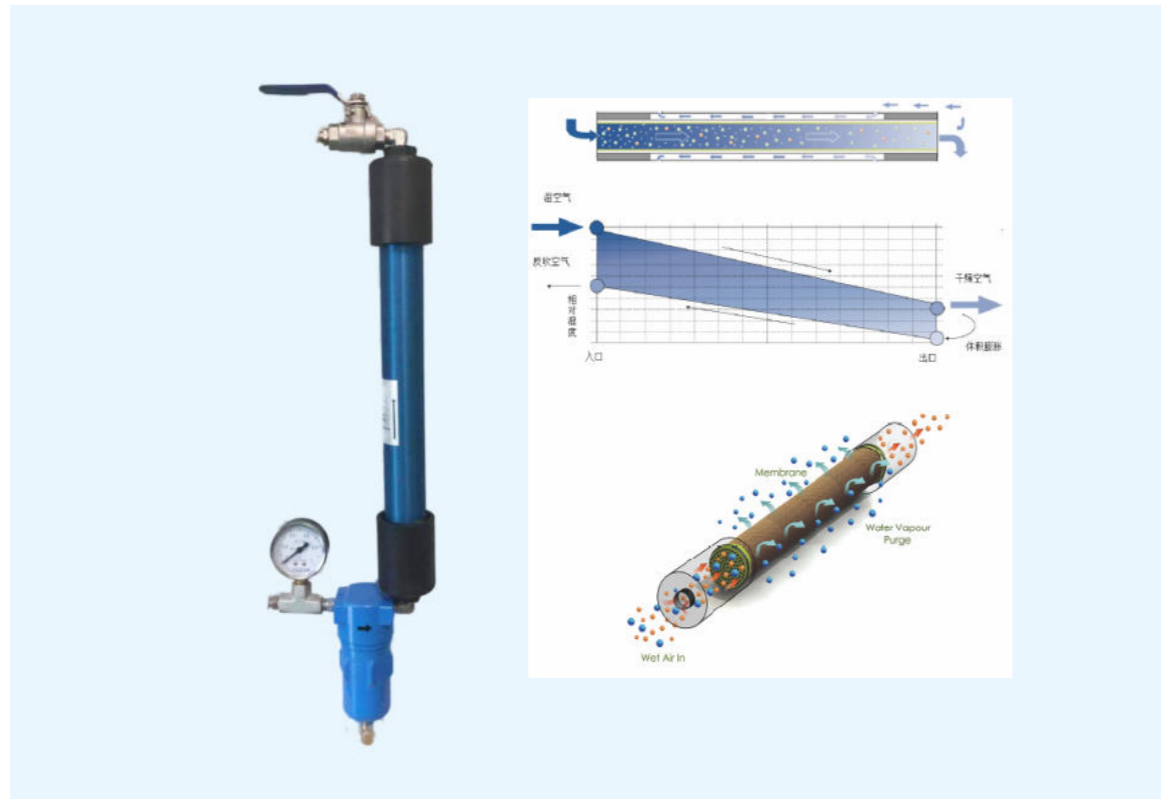


A new formulation of DRIE element has a great effect on optimizing acid number and resistivity of fire-resistant oil.





## WMR™ EHC Oil Online Water Contamination Control System



### Product Introduction

WMR™ EHC Oil Online Water Contamination Control System keeps moisture and particulates out of the tank. Ultra-dry clean air plays an important role in drying the tank head space and absorbing water from the fluid. The WMR™ is designed to be simple to use. Made with advanced membrane and aluminum housing. During the whole working process, the air flows through the precision membrane module, and then enters the oil tank from the pipeline of the equipment after dehumidification. The rated dew point temperature of Wisonda WMR™ is -40°C, and the dew point temperature of -40°C is very important for removing the EHC fluid. moisture is extremely important.

### Product Features

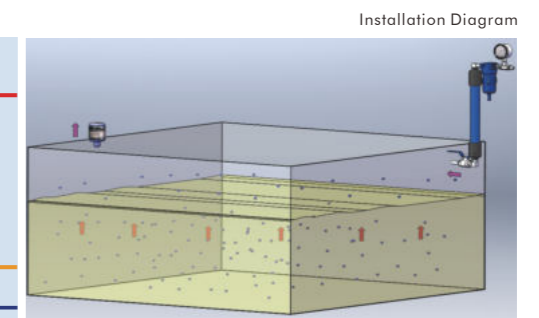
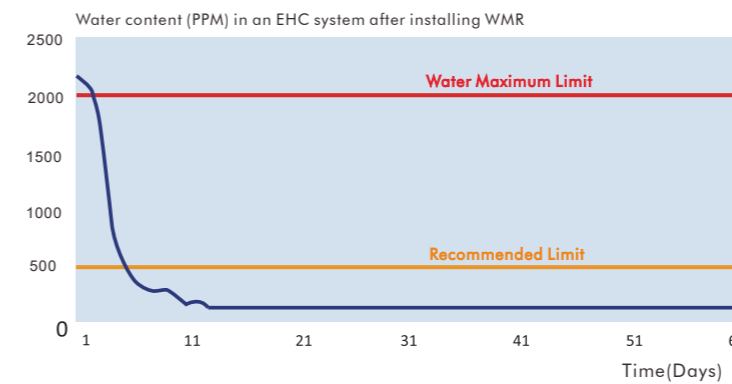
- Prevents contaminants from entering the oil tank through air.
- Removes moisture not only from the headspace of reservoir but also from the oil by dry air.
- Keeps the water content of fire-resistant oil below 150PPM.
- Improves the resistivity of fire-resistant oil and slow down the oil oxidation cycle.
- Prevents the formation of acids and reduces the needs of acid removal filters.
- Patented air drying membrane with a special tubing case to lower the gas dew point to -40°C.
- Less maintenance time and labor required.
- Low investment cost and high ROI.

### Technical Indicators

Specification	WMR-I™	WMR-II™
Reservoir Dimension	< 1200L	1200-3000L
Daily water Removal	100-300ppm	900ppm
Inlet/Outlet	1/4" Inlet	1/4" Outlet
Dimension(mm)	58X427	58X503
Air Requirement	(5.5-8.3kg/cm²)Clean air	
Inlet Flow Rate	51L/min	70L/min
Outlet Flow Rate	34L/min	50L/min

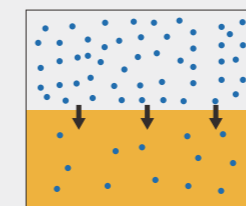
### Working Principle

#### Balanced charge coalescence-submicron filtration

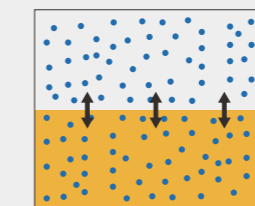


#### The diagram moisture movement in reservoir

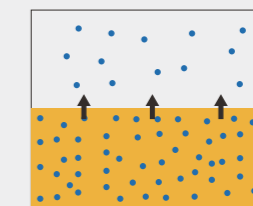
When the headspace of the oil tank is occupied by clean and dry air, the water molecules dissolved in the oil will gradually transfer from the saturated area to the dry area due to the principle of humidity difference. Therefore, the water in the oil will be removed by the clean and dry air that continuously enters.



Humid air and dry EHC oil  
Air humidity > Oil humidity  
Moisture enters into oil



Balance  
Air Humidity = Oil humidity  
Moisture keeps a stable movement



Dry air and humid EHC oil  
Air humidity < Oil humidity  
Moisture moves upward to headspace

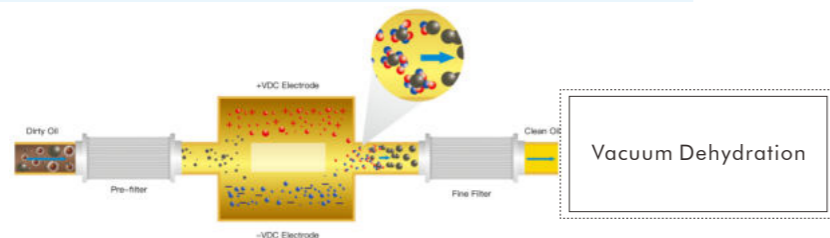


# WJZ Vacuum Dehydrator Plus



## Product Introduction

WJZ is a new product designed mainly for water and cleanliness-sensitive units. Using PLC control, it integrates balanced charge purification technology, vacuum dehydration technology, dual oil pump automatic balancing technology, automatic drainage technology, and automatic vacuum adjustment functions. WJZ can quickly improve the cleanliness of the oil and reduce the water content. As the oil mixed with charged particles to circulate in the system, the contaminants adhere to the surface of inside system will be continuously absorb and wash off, thus making the entire oil system clean and dry.

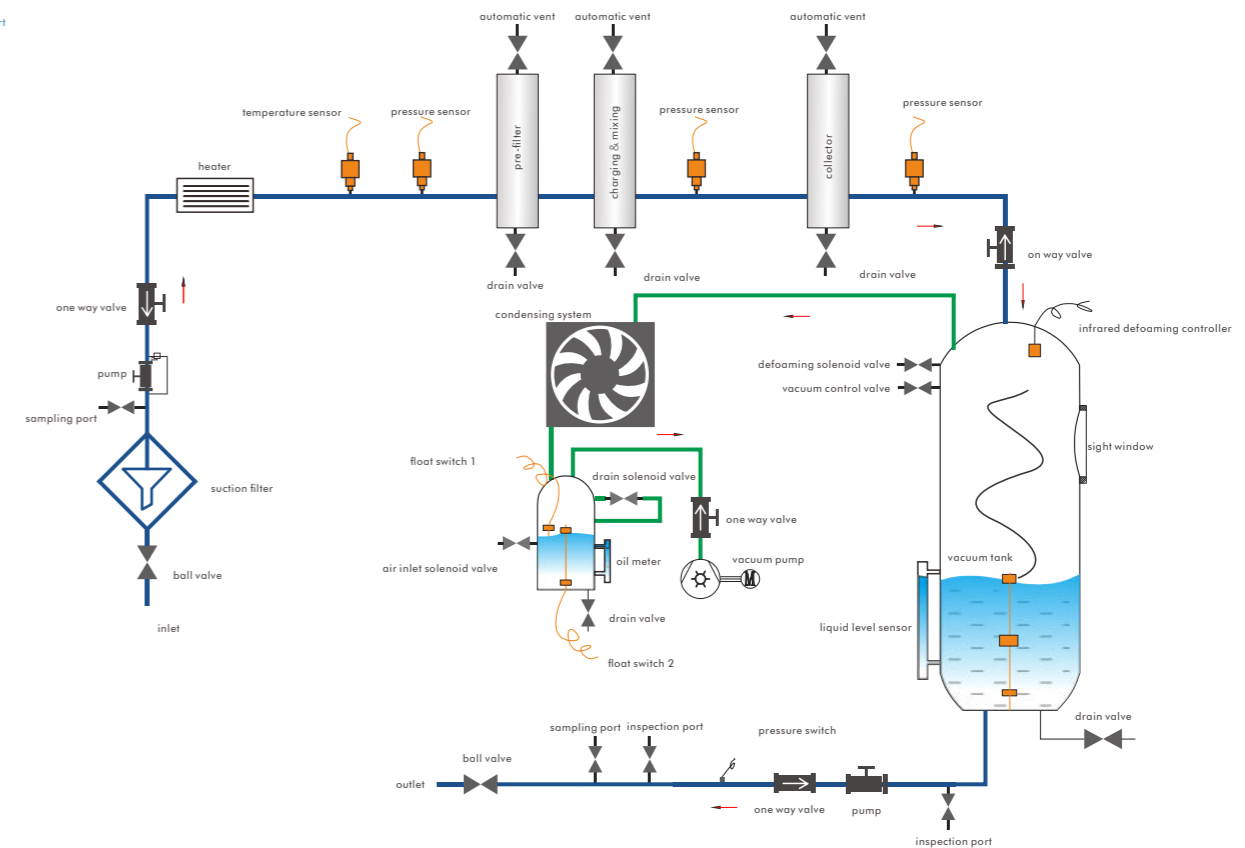


WJZ is a brand new product upgraded with balanced charge coalescence technology on the basis of vacuum dehydration.

## Product Features

Item	WJZ	Disadvantages of Competitors
Filtration Method	Balanced charge coalescence&vacuum dehydration	Ordinary vacuum oil purifiers can only remove larger particles and water, but can do nothing for the products of oil degradation named sludge/varnish which widely presents in aging hydraulic or lubricating fluid.  Untreated fine particles and sludge/varnish will accelerate the pace of fluid deterioration which has impact on the service life of fluid,machines.
Filtration Efficiency	0.1μm	
Cleanliness Improvement	fast(5 times faster than mechanical filters)	
Cleanliness After Purification	NAS 3-7	
Water Content After Purification	≤50ppm	
Operation Method	Automatic	
Applicability	Suitable for units with high requirements for water content and cleanliness	

Flow Chart



## Technical Indicators

Name	Unit	WJZ-30	WJZ-50	WJZ-100	WJZ-150	WJZ-200
Flow Rate	L/min	30	50	100	150	200
Working Pressure	Mpa	≤0.5				
Power	V	3 phase 4 wires AC380V 50HZ				
Total Power	kW	21.5	23	45	65	86
Inlet/Outlet Pipe Diameter	mm	DN25	DN32	DN40	DN50	DN60
Weight	KG	700	750	1265	1660	2100
Length	mm	1585	1585	1650	1700	1700
Width	mm	1630	1630	1680	1750	1750
Height	mm	1825	1825	1900	1900	2000
Heating Power	kW	18	18	36	54	72
Operating Temperature	°C	≤80 adjustable				
Vacuum Degree	MPa	-0.06-0.099				
Inlet Connector	---	1CB-45-20WD M45×2 connecting hose		1CB-52-24WD M52×2connecting hose		---
Outlet Connector	---	G1.1/4"×11 Ball valve		G1.1/2"×11 Ball valve		---





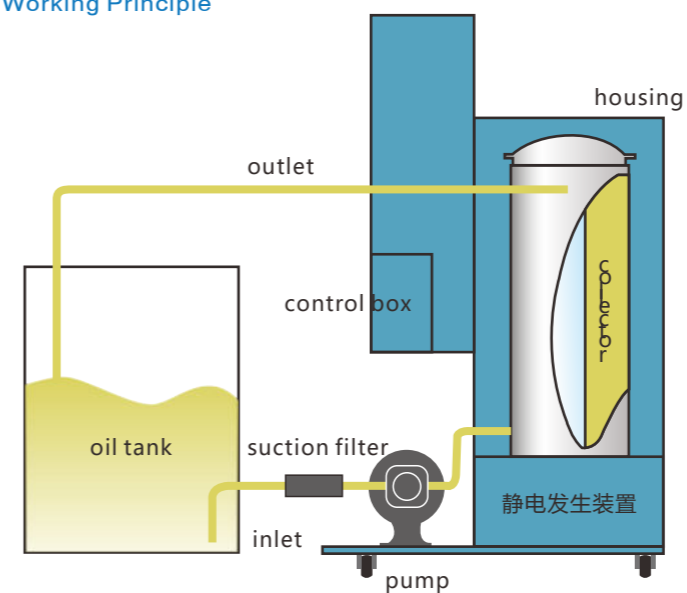
## WJD Electrostatic Adsorption Filtration Unit



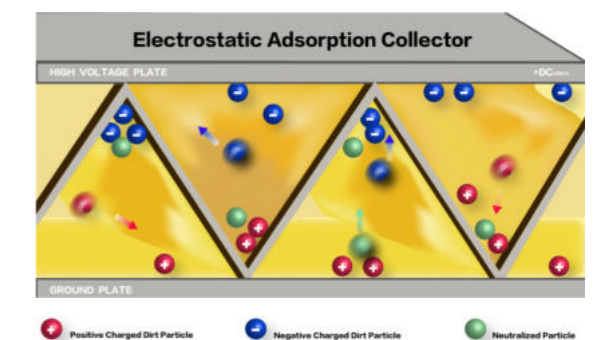
### Technical Indicators

Specification	Unit	WJD-15	WJD-30	WJD-50	WJD-100	WJD-150	WJD-200
Reservoir Volume	32#	12000	16000	24000	48000	96000	192000
	46#	8000	10500	16000	32000	64000	12800
	68#	5500	6500	11000	22000	44000	88000
	100#	3000	4500	6000	12000	24000	48000
Power Supply	V	AC 220V 50 HZ			3 phase 4 wires AC380V 50HZ		
Flow Rate	L/min	3.75	6.7	9	18	30	58
Power	kW	0.4	0.4	0.5	1	1.2	2
Weight	KG	85	110	140	210	350	420
Length	mm	1080			1450	1500	1850
Width	mm	535			530	810	820
Height	mm	1200			1200	1265	1265
Inlet Connector	---	1CB-26-08WD M26×1.5 connecting hose G1/2"×14 ball valve			1CB-30-12WD M30×2 connecting hose G3/4"×14 ball valve	1CB-36-16WD M36×2 connecting hose G1"×11 ball valve	1CB-45-20WD M45×2 connecting hose G1.1/4"×11 ball valve
Outlet Connector	---						

### Working Principle



### Diagram



### Product Introduction

WJD doesn't charge particles but instead using a vertical positioned electrode to generate a high potential electrostatic field inside a cylinder housing. As natural charged particles with oil pass upward through electrostatic adsorption collector, insoluble contaminants as small as sub-micron are forced by voltage against the pleated cellulose media and removed from oil.

### Product Features

- With high filtration efficiency, it removes sub-micron contaminants.
- Through the flow of electrostatic particles in the oil, all impurities such as sludge, varnish attached to the oil tank, pipe wall and components are washed and adsorbed and taken out.
- CE certification

### Applicability

- Suit for all types mineral oil except engine oil.
- Viscosity < 200cSt
- Oil temperature < 80°C
- Water content < 500ppm
- For systems has high requirements for oil cleanliness



# WJL Balanced Charge Coalescence Filtration Unit

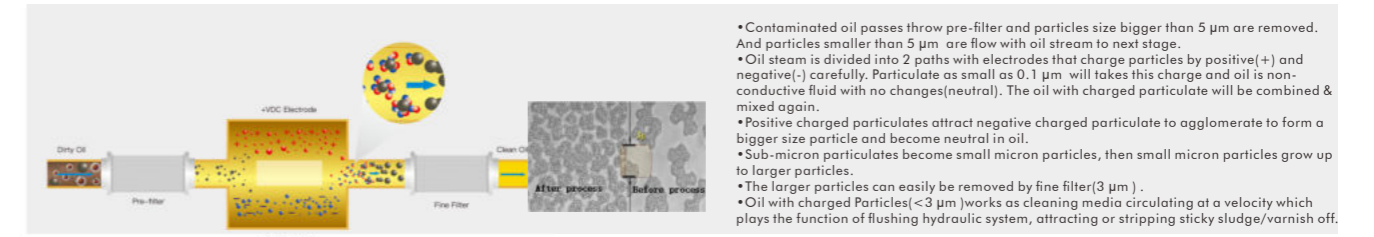


### Technical Indicators

Specification	Unit	WJL-20	WJL-30	WJL-50	WJL-75	WJL-100	WJL-150	WJL-200
Flow Rate	L/min	20	30	50	75	110	150	200
Operating Pressure	Mpa	≤0.5						
Power Supply	V	3 phase 4 wires AC380V 50HZ						
Total Power	kW	0.8	0.8	2.3	2.3	3.6	4.8	6.4
Inlet/Outlet Pipe Diameter	mm	DN20	DN25	DN32	DN40	DN40	DN50	Inlet DN65 Outlet DN50
Weight	KG	255	335	340	370	417	580	700
Length	mm	1040	1380	1405	1600	1700	2000	2500
Width	mm	530	570	570	820	820	900	900
Height	mm	1200	1215	1215	1400	1600	1630	1700
Inlet Connector	---	1CB-30-12WD M30×2connecting hose	1CB-36-16WD M36×2connecting hose	1CB-45-20WD M45×2connecting hose	1CB-52-24WD M52×2 connecting hose			---
Outlet Connector	---	G3/4"×14 ball valve	G1"×11ball Valve	G1.1/4"×11ball valve	G1.1/2"×11ball valve			---

### Working Principle

#### Balanced charge coalescence



### Product Introduction

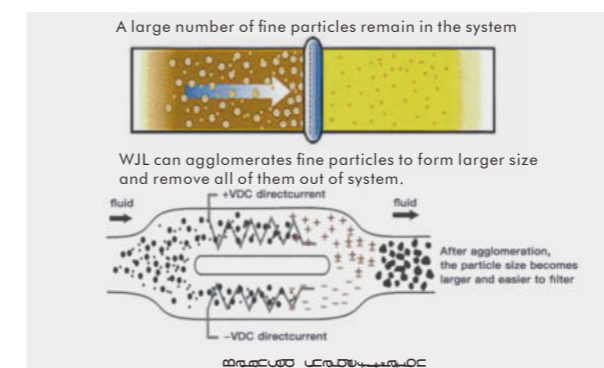
WJL uses the balanced charge technology to charge the small size contaminants by positive(+) & negative(-) electrodes. As fluid mixed again, oppositely charged contaminants attract to each other to agglomerate to form larger size that can be captured and removed by standard fine filters.

WJL can not only remove sub-micron contamination, but also completely remove polar sludge and varnish inside which greatly improve the cleanliness grade of your lubricating & hydraulic system.

### Product Features

- With high filtration rating 0.1 μm, WJL can remove sub-micron contaminants.
- WJL can quickly remove the suspended contaminants in the oil and strip off the sludge/varnish on the inner wall of the system playing the function of system cleaning.
- Dehydration filter element is optional for removing free water quickly and effectively.
- Suitable for the systems with large amount of fine particles and oil degradation products.

#### Comparison of WJL and conventional mechanical filter



#### Dehydration filter element

The hydrophobic materials combine with the water absorption filtration fiber to have a bimolecular surface structure, which is of hydrophilia and oleophobic property. The water in the oil is agglutinated after the modified fiber and removed due to its effectively absorbency so that the water content of the oil could be kept in a qualified range.

10441 ppm (1.04%)  
 267.00ppm (0.29%)  
 423.00ppm (0.04%)  
 200 ppm (0.02%)



## WZJC Vacuum Dehydrator

### Product Introduction

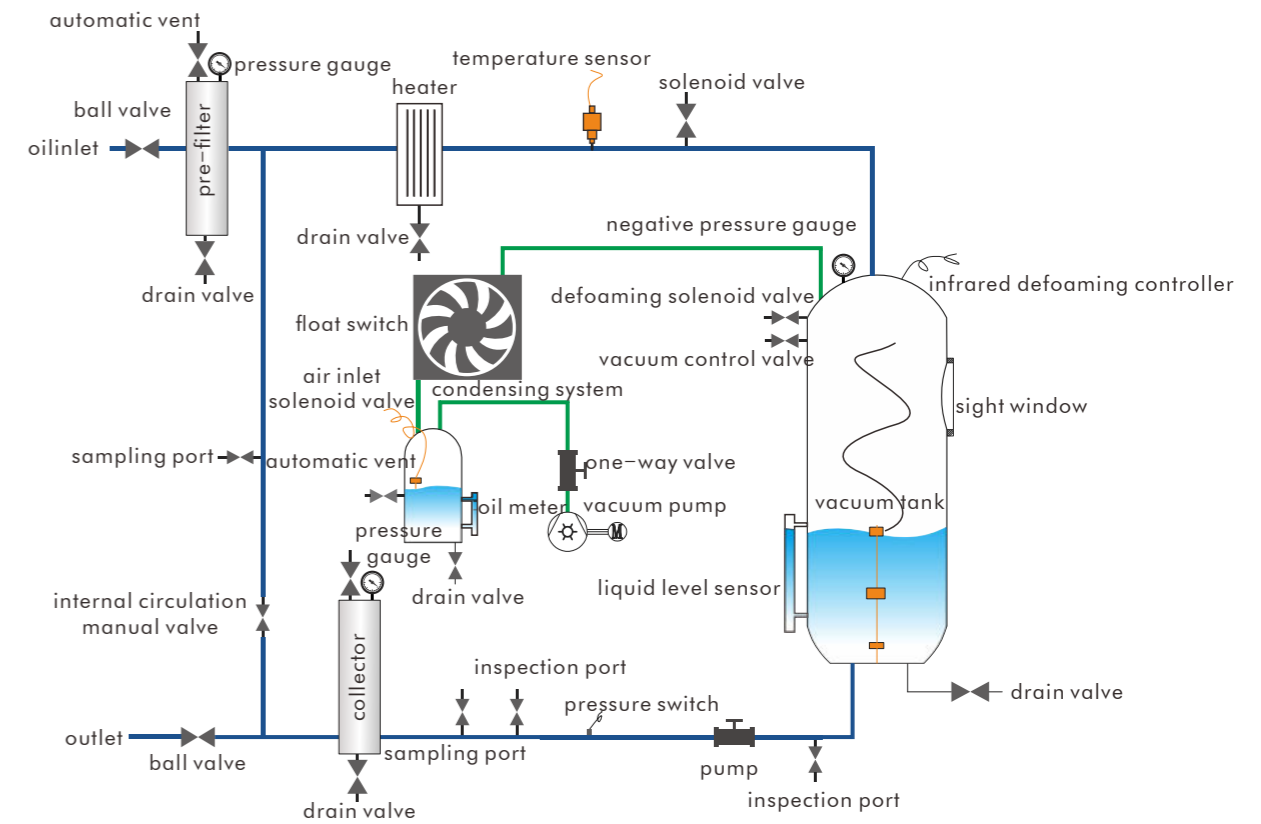
Taking advantage of the different boiling points of water and oil in a vacuum environment, Wisonda designed the WZJ low-temperature evaporation to remove free, emulsified and dissolved water in the oil. Using a vacuum pump to suck contaminated oil into a heater, where the fluid can be heated to the proper temperature. Then, diffusing the heated fluid in the vacuum tank to evaporate water into steam. The cooled steam is condensed into water and stored in a water tank for easy disposal. Remaining dry oil flows through filter element and goes back into hydraulic system.



### Product Features

- Unique degassing and dehydration system to quickly separate water and gas from oil.
- Optimized piping design ensures uniform heating and stable oil temperature.
- Automatic temperature control, liquid level control system, defoaming control system, and pressure protection to ensure WZJ to operate at high-performance.
- High-precision filter element has a large dirty holding capacity to remove harmful impurities in oil.
- Humanized design, low noise, easy operation, low energy consumption.
- Filter replacement automatic reminder function.
- Equipped with leakage, overload load shutdown device to protect the motor.
- Equipped with phase sequence, phase loss protection function, and sudden shutdown safety control.

### Flow Chart



### Technical Indicators

Specification	Unit	WZJC-2KY (BF,BY,KF)	WZJC-3.5KY (BF,BY,KF)	WZJC-6KY (BF,BY,KF)	WZJC-9KY (BF,BY,KF)	WZJC-12KY (BF,BY,KF)
Flow Rate	L/min	30	50	100	150	200
Heater Power	kW	18	18	36	54	72
Total Power	kW	20	21	40	60	80
Pipe Diameter	mm	DN25	DN32	DN40	DN50	DN50
Weight	KG	415	425	785	920	980
Length	mm	1130		1400	1630	1665
Width	mm	910		1320	1550	1650
Height	mm	1690		1970	2030	2500
Vacuum Degree	Mpa	-0.06-0.099				
Operating Pressure	Mpa	≤0.4				
Temperature Range	°C	≤80				
Operating Noise	Db	≤70				
Installation Type		KY(Open Mobile),BF(Enclosed placement),BY(enclose placement),KF(Open mobile)				
Filtration Type		Fine filtration cartridge/Frame filtration (Optional)				
Optional load items		filter, domestic oil pump, import oil pump, domestic vacuum pump, imported vacuum pump				
Inlet Connector	—	1CB-45-20WD M45×2connecting hose		1CB-52-24WD M52×2connecting hose	—	
Outlet Connector	—	G1.1/4"×11ball valve		G1.1/2"×11ball valve	—	



## WJYJ Oil Filtration Unit



### Product Introduction

The oil should be pre-filtered when fill to machines in operation that's the best way to control contaminations entering your lubricating system. WJYJ is an ideal products to meet such needs. It adopts durable gear pump and high-efficiency filter cartridge(3-stage filtration) protecting lubrication & hydraulic system away foreign contaminant.

### Applicability

- Petroleum or mineral based oil(Please contact us before doing filtration for other fluids).
- Recommended max viscosity 200cSt(Please contact us before applying to higher viscosity).
- New oil,in-service oil filtration,Fill reservoir with new oil.
- Remove the water in system.
- Enhance existing system filtration capability.

### Product Features

- Equipped with advanced critical components, the performance meets the requirement of extreme operation condition.
- Italian MP/Germany Argo filter element; 3µm β≥200 NAS10-11 new oil can reach NAS5-6 by single pass  
5µm β≥200 NAS10-11 new oil can reach NAS6-7 by single pass
- Dehydration filter element (remove free water) with water removal capacity 1300ml is optional.
- Portable oil contamination monitor is optional.

### Technical Indicators

Specification	Unit	WJYJ-10	WJYJ-18	WJYJ-30	WJYJ-50	WJYJ-100
Flow Rate	L/min	9	18	30	50	100
Motor Power	kW	0.6	0.6	0.8	1.6	3
Power Supply	V	380V 50Hz 4Wires				
Pipe Diameter	mm	DN20		DN25	DN32	DN40
Weight	KG	150		190	205	260
Length	mm	650		790	790	1125
Width	mm	670		755	755	800
Height	mm	1040		1040	1040	1605
Inlet Connector	---	1CB-30-12WD M30×2 connecting hose G3/4"×14ball valve		1CB-36-16WD M36×2connecting hose G1"×11ball valve	1CB-45-20WD M45×2connecting hose G1.1/4"×11ball valve	1CB-52-24WD M52×2 connecting hose G1.1/2"×11ball valve
Outlet Connector	---					

## WICM Online Oil Contamination Monitor

### Product Introduction

WICM automatically counts and displays the number of particles, moisture and temperature in fluid. WICM is designed for the applications where oil condition is required for continuously monitoring and analysis

### Product Features

- 8 channel contamination measurement & display.
- Measurement and report format against the following standards ISO4406,NAS1638,AS4059E,ISO11218
- The measurement of moisture & temperature depends on fluid.
- Data record with capacity of 4000 test results.
- Access to setting by manual,automatic or remote control.
- LED display, remote alarm signal is optional in R-model.
- Robust aluminum casting structure, max pressure reaches 400 bar
- Ingress prection grade:IP65/67



### Technical Indicators

Technology	Led based light extinction automatic optical contamination monitor
Particle Size	>4,6,14,21,25,38,50,70im(c),Standard ISO 4406
Analysis Range	ISO 4406 0 to 25, NAS 1638 Grade 00 to 12, AS4059 Rev.E. Table 1&2 size A-F: 000 to 12 ISO 11218 00-12 (lower limits are test time dependent)
Accuracy	±1/2 code for 4,6,14µm,(c) ; ± 1 code for larger sizes
Calibration	Each unit individually calibrated with ISO Medium Test Dust(MTD)
Flow Rate	20 - 400 ml/min
Viscosity Range	≤ 1000 cSt
Fluid Temperature	+25°C to +80°C
Max Pressure	400 bar pressure limit
Test Time	Adjustable10–3600sec. Default 120sec
Moisture Measure	% RH (Relative humidity) ±3%
Temperature Measurement	±3°C
Flow rate Measurement	Refer display screen
Data Storage	4000
Communiation Option	Standard RS485, RS232, MODBUS, CANBUS
Ambient Protection	-25°C ~ 80°C (Not model-K) - -25°C to 55°C( Model-K)
Ingress Protection	IP 65/67,IK04 impact protection
Weight	1.15 kg
Voltage	9-36V DC