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# Технические характеристики на установки для очистки турбинного масла TY-W, TY-R, TY-M, TY-EH, TYA-H, TY-A, TY компании **Zhongneng**

**Виды товаров:** вакуумные турбинные маслоочистители закрытого типа, защищенные от непогоды, системы регенерации вакуумного турбинного масла, мобильные установки для очистки турбинного масла, взрывозащищенные установки для очистки турбинного масла, системы фильтрации гидравлического масла.

# TY-W Enclosed Weather Proof Vacuum Turbine Oil Purifier

## Application:

TY-W is installed with weather-proof enclosure, it can be used for outside work and protect the machine from external contamination. This oil purification plant is used for treating the unqualified turbine oil, especially the seriously emulsified turbine oil. This product, which can rapidly and effectively remove the water, gas and impurities, aim at turbine oil's nature of high water content, easy emulsifiable and high impurity content, and make the oil recover the new oil's nature.



Model: TY-W-50  
Code: 8421299090

Brand: ZHONGNENG

Product Description
Technical Specification

- Features:**
- 1. Breaking emulsification thoroughly with high- molecule polymeric material, the value of breaking emulsification ≤15min (GB/F 7305).
  - 2. Dewatering very effectively with once and for two steps dehydrating method. It can thoroughly clear away the liquid water, free water and 80% dissolved water.
  - 3. With distinctive removing impurities technique filtering through double FH trapezoidal network and absorbing by high polymer material, this machine can make the β3 equal or surpass 200 and make the cleanness lower grade 6(NAS1638).
  - 4. With the trapezoidal, spiral, automatic back flushing system.
  - 5. With the advanced dielectric condensation devices.
  - 6. On-line oil purification can be carried out with turbine or water turbine automatically without any person.

**Advantages:**  
This machine breaks emulsification thoroughly, and the oil is very difficult to emulsify again after treatment. Its dehydration volume is large and it can absorb water on line. TY series, which prevent lubrication system from damage, can effectively extend the lifetime of oil and protect turbine and other machines.

Technical Specification										
Item		Unit	TY-10	TY-20	TY-30	TY-50	TY-100	TY-150	TY-200	TY-300
Flow rate		Liters/hour	600	1200	1800	3000	6000	9000	12000	24000
Working Vacuum Degree		MPa	-0.06 ∼-0.095							
Working Pressure		MPa	≤ 0.3							
Temperature Range		℃	20 ∼80							
Water content		PPM	≤50							
Impurity content		μm	≤5							
Gas content		%	≤0.1 %							
Cleanness		NAS	≤6 grade (NAS1638)							
Demulsification value		min	≤15 (GB/F 7305)							
Power Supply			3 Phase, 50 Hz, 380V (or as per requirement)							
Heating power		kW	12	15	18	24	45	60	72	84
Total power		kW	14	17	20	27	48	66	81	97
Inlet/outlet caliber		mm	25	25	25	32	42	50	50	60
Weight		kg	400	450	500	600	700	900	1050	1550
Dimension	Length	mm	1280	1350	1350	1400	1500	1500	1600	1800
	Width	mm	750	900	950	950	1000	1200	1350	1400
	Height	mm	1450	1450	1500	1600	1650	1800	1800	1850

Dimensions will be changed if any special type required

# TY-R Vacuum Turbine Oil Regeneration System

## Application:

TY-R series is used for treating the unqualified turbine oil, especially the seriously emulsified turbine oil. It can not only rapidly and effectively remove the water, gas and impurities, but can recover the color of waste turbine oil by chemical chamber.



Model:TY-R-50	Brand:ZHONGNENG	Code:8421299090
Product Description		
Technical Specification		

- Features:**
1. Breaking emulsification thoroughly with high- molecule polymeric material, the value of breaking emulsification  $\leq 15\text{min}$  (GB/F 7305).
  2. Dewatering very effectively with once and for two steps dehydrating method. It can thoroughly clear away the liquid water, free water and 80% dissolved water.
  3. With distinctive removing impurities technique filtering through double FH trapezoidal network and absorbing by high polymer material, this machine can make the  $\beta_3$  equal or surpass 200 and make the cleanliness lower grade 6(NAS1638).
  4. With the trapezoidal, spiral, automatic back flushing system.
  5. With the advanced dielectric condensation devices.
  6. On-line oil purification can be carried out with turbine or water turbine automatically without any person.

## Advantages:

This machine breaks emulsification thoroughly, and the oil is very difficult to emulsify again after treatment. Its dehydration volume is large and it can absorb water on line. TY series, which prevent lubrication system from damage, can effectively extend the lifetime of oil and protect turbine and other machines.

Technical Specification									
Item	Unit	TY-10	TY-20	TY-30	TY-50	TY-100	TY-150	TY-200	TY-300
Flow rate	Liters/hour	600	1200	1800	3000	6000	9000	12000	24000
Working Vacuum Degree	MPa	-0.06 ~-0.095							
Working Pressure	MPa	$\leq 0.3$							
Temperature Range	$^{\circ}\text{C}$	20 ~80							
Water content	PPM	$\leq 50$							
Impurity content	$\mu\text{m}$	$\leq 5$							
Gas content	%	$\leq 0.1\%$							
Cleanness	NAS	$\leq 6$ grade (NAS1638)							
Demulsification value	min	$\leq 15$ (GB/F 7305)							
Power Supply		3 Phase, 50 Hz, 380V (or as per requirement)							
Heating power	kW	12	15	18	24	45	60	72	84
Total power	kW	14	17	20	27	48	66	81	97
Inlet/outlet caliber	mm	25	25	25	32	42	50	50	60
Weight	kg	400	450	500	600	700	900	1050	1550
Dimension	Length	mm	1280	1350	1350	1400	1500	1500	1600
	Width	mm	750	900	950	950	1000	1200	1350
	Height	mm	1450	1450	1500	1600	1650	1800	1850

Dimensions will be changed if any special type required

# TY-M Enclosed Mobile Type Vacuum Turbine Oil Purification Plant

### Application:

TY-M is our mobile (trailer) type, completely closed structure, waterproof, dustproof, it can move long distance working in field. According to fieldwork requirement, it can be easy to move to any work point by traction. It is special suitable for purifying the transformer oil which locate in different fields. This oil purification plant is used for treating the unqualified turbine oil, especially the seriously emulsified turbine oil. This product, which can rapidly and effectively remove the water, gas and impurities, aim at turbine oil's nature of high water content, easy emulsifiable and high impurity content, and make the oil recover the new oil's nature.



Model: TY-EX-50

Brand: ZHONGNENG

Code: 8421299090

### Product Description

### Technical Specification

#### Features:

1. Breaking emulsification thoroughly with high- molecule polymeric material, the value of breaking emulsification  $\leq 15\text{min}$  (GB/F 7305).
2. Dewatering very effectively with once and for two steps dehydrating method. It can thoroughly clear away the liquid water, free water and 80% dissolved water.
3. With distinctive removing impurities technique filtering through double FH trapezoidal network and absorbing by high polymer material, this machine can make the  $\beta_3$  equal or surpass 200 and make the cleanliness lower grade 6 (NAS1638).
4. With the trapezoidal, spiral, automatic back flushing system.
5. With the advanced dielectric condensation devices.
6. On-line oil purification can be carried out with turbine or water turbine automatically without any person.

#### Advantages:

This machine breaks emulsification thoroughly, and the oil is very difficult to emulsify again after treatment. Its dehydration volume is large and it can absorb water on line. TY series, which prevent lubrication system from damage, can effectively extend the lifetime of oil and protect turbine and other machines.

### Technical Specification

Item		Unit	TY-10	TY-20	TY-30	TY-50	TY-100	TY-150	TY-200	TY-300
Flow rate		Liters/hour	600	1200	1800	3000	6000	9000	12000	24000
Working Vacuum Degree		MPa	-0.06 ~ -0.095							
Working Pressure		MPa	$\leq 0.3$							
Temperature Range		$^{\circ}\text{C}$	20 ~ 80							
Water content		PPM	$\leq 50$							
Impurity content		$\mu\text{m}$	$\leq 5$							
Gas content		%	$\leq 0.1\%$							
Cleanness		NAS	$\leq 6$ grade (NAS1638)							
Demulsification value		min	$\leq 15$ (GB/F 7305)							
Power Supply			3 Phase, 50 Hz, 380V (or as per requirement)							
Heating power		kW	12	15	18	24	45	60	72	84
Total power		kW	14	17	20	27	48	66	81	97
Inlet/outlet caliber		mm	25	25	25	32	42	50	50	60
Weight		kg	400	450	500	600	700	900	1050	1550
Dimension	Length	mm	1280	1350	1350	1400	1500	1500	1600	1800
	Width	mm	750	900	950	950	1000	1200	1350	1400
	Height	mm	1450	1450	1500	1600	1650	1800	1800	1850

Dimensions will be changed if any special type required

# TY-EX Explosion Proof Type Turbine Oil Purifier

TY-EX type is for equipment working in an explosion environment. CT Grade explosion-proof type and DT Grade explosion-proof type are available. It is widely suitable for online processing of steam turbine, the gas turbine, the hydraulic turbine's oil in electric power, chemical industry, papermaking, metallurgy and so on to guarantee the unit adjusting and the normal work of the lubrication system.It used physical method remove the water, impurities and gas(acetylene, hydrogen, methane, etc), it will not change the oil components and performance.



Model: TY-30	Brand: ZHONGNENG	Code: 8421299090
Product Description		
Technical Specification		

This oil purification plant is used for treating the unqualified turbine oil, especially the seriously emulsified turbine oil. This product, which can rapidly and effectively remove the water, gas and impurities, aim at turbine oil's nature of high water content, easy emulsifiable and high impurity content, and make the oil recover the new oil's nature.

- Features:**
1. Breaking emulsification thoroughly with high- molecule polymeric material, the value of breaking emulsification  $\leq 15\text{min}$  (GB/F 7305).
  2. Dewatering very effectively with once and for two steps dehydrating method. It can thoroughly clear away the liquid water, free water and 80% dissolved water.
  3. With distinctive removing impurities technique filtering through double FH trapezoidal network and absorbing by high polymer material, this machine can make the  $\beta_3$  equal or surpass 200 and make the cleanness lower grade 6(NAS1638).
  4. With the trapezoidal, spiral, automatic back flushing system.
  5. With the advanced dielectric condensation devices.
  6. On-line oil purification can be carried out with turbine or water turbine automatically without any person.

## Advantages:

This machine breaks emulsification thoroughly, and the oil is very difficult to emulsify again after treatment. Its dehydration volume is large and it can absorb water on line. TY series, which prevent lubrication system from damage, can effectively extend the lifetime of oil and protect turbine and other machines.

Technical Specification									
Item	Unit	TY-10	TY-20	TY-30	TY-50	TY-100	TY-150	TY-200	TY-300
Flow rate	Liters/hour	600	1200	1800	3000	6000	9000	12000	24000
Working Vacuum Degree	MPa	-0.06 ~ -0.095							
Working Pressure	MPa	$\leq 0.3$							
Temperature Range	$^{\circ}\text{C}$	20 ~ 80							
Water content	PPM	$\leq 50$							
Impurity content	$\mu\text{m}$	$\leq 5$							
Gas content	%	$\leq 0.1\%$							
Cleanness	NAS	$\leq 6$ grade (NAS1638)							
Demulsification value	min	$\leq 15$ (GB/F 7305)							
Power Supply		3 Phase, 50 Hz, 380V (or as per requirement)							
Heating power	kW	12	15	18	24	45	60	72	84
Total power	kW	14	17	20	27	48	66	81	97
Inlet/outlet caliber	mm	25	25	25	32	42	50	50	60
Weight	kg	400	450	500	600	700	900	1050	1550
Dimension	Length	mm	1280	1350	1350	1400	1500	1500	1800
	Width	mm	750	900	950	950	1000	1200	1400
	Height	mm	1450	1450	1500	1600	1650	1800	1850

Dimensions will be changed if any special type required

# TYA-H Hydraulic Oil Filtering System



Product Description

**Application:**  
Series TYA vacuum hydraulic oil filtering system mainly for purifying unqualified lubricating oil, hydraulic oil, compressor oil, refrigeration oil and other industrial oils, this machine can rapidly separate water, gas, particles and volatile matter (such as alcohol, gasoline, ammonia, etc.) from oil, restoring oil viscosity, flash point and performance. The treated oil can reuse again in various industrial equipments. It is widely applied in petroleum, chemical, mining, metallurgy, electric power, transportation, machinery manufacturing, railway etc.

- Features:**
- 1.Double primary-filter structure, large capacity for holding particles, Multi-stage filtration system to ensure high filtration precision.
  - 2. Special polymer materials as filter medium with the functions of broken emulsion, dewatering, removing particles
  - 3.Duplex-Stereo film evaporation technology, equips with unique and advanced dewatering, degassing components, can rapidly and effectively remove water, gas, particles and volatile matter (such as alcohol, gasoline, ammonia, etc.)
  - 4. Automatic backwashing system, improving working efficiency
  - 5. Advanced medium cooling system
  - 6. High quality filtering components, large capacity for holding particles, anti-corrosion, good mechanical performance, long lifetime.
  - 7. Efficient electric heating system, heating uniformity, less power consumption, safe, and reliable.
  - 8. Adopts interlocked protective system, which connect oil pump, heater and liquid level sensor, avoiding blank heating, blank pumping, oil leak and electricity leak. If there is any fault, machine will be power off automatically.
  - 11. Strong capability of breaking emulsification.

**Advantages:**  
Hydraulic lubricating oil treated by this machine contains so low emulsification value, few water content and impurities that it can be used repeatedly in the highly precise hydraulic lubricating equipment at home and abroad. This series can fast degas, dewater, and remove the impurity and the volatile matter (for example ethyl alcohol, gasoline, ammonia and so on). Enhances the oil quality, restores the lubricating oil viscosity, augments the flash point and improves the operational performance. Guaranteed the hydraulic system and the dynamic system, the lubrication system normal operation, so the machine is suit for many lines, such as the mine, metallurgy, electric power, transportation, manufactures and so on.

Item	Model	TYA-10	TYA-20	TYA-30	TYA-50	TYA-100	TYA-150	TYA-200	TYA-300
	Unit								
Flow rate	L/Hr	600	1200	1800	3000	6000	9000	12000	18000
Vacuum degree	Mpa	-0.06 ~ - 0.095							
Working Pressure	Mpa	≤0.4							
Temperature Degree	℃	0 ~ 100							
Power Supply		380V,3phase, 50HZ (or as required by customer)							
Working noise	DB (A)	≤75	≤75	≤75	≤78	≤78	≤78	≤80	≤82
Electric heating Power	KW	18	18	24	30	54	72	90	120
Total electric Power	KW	19.3	19.3	25.65	32	57.1	79	98	130
Inlet (outlet) Caliber	mm	Φ25	Φ25	Φ25	Φ32	Φ42	Φ50	Φ50	Φ60
Size	mm	1260x900x	1260x900x 1600	1500x1050x1650	1600x1150x	1750x1250x	1900x1600x	1900x1700x	2100x1700x
		1500			1700	1800	1950	2000	2100
Weight	Kg	450	550	600	750	850	1000	1200	1500
AFTER TREATMENT									
Moisture (water content)					≤ 50 PPM				
Gas Content					≤0.1%				
Impurities Degree (Filtration precision)					≤1 ~ 5 micron (no free carbon)				
Demulsification					New oils≤15min, running oils≤30mi				
Cleanliness					≤NAS 1638 Grade 6				

Dimensions will be changed if any special type required

# TY-A Automatic Vacuum Turbine Oil Treatment Machine



## Product Description

### Application:

This oil purification plant is used for treating the unqualified turbine oil, especially the seriously emulsified turbine oil. This product, which can rapidly and effectively remove the water, gas and impurities, aim at turbine oil's nature of high water content, easy emulsifiable and high impurity content, and make the oil recover the new oil's nature.

### Features:

1. Breaking emulsification thoroughly with high- molecule polymeric material, the value of breaking emulsification  $\leq 15\text{min}$  (GB/F 7305).
2. Dewatering very effectively with once and for two steps dehydrating method. It can thoroughly clear away the liquid water, free water and 80% dissolved water.
3. With distinctive removing impurities technique filtering through double FH trapezoidal network and absorbing by high polymer material, this machine can make the  $\text{NAS}$  equal or surpass 200 and make the cleanness lower grade 6(NAS1638).
4. With the trapezoidal, spiral, automatic back flushing system.
5. With the advanced dielectric condensation devices.
6. On-line oil purification can be carried out with turbine or water turbine automatically without any person.

### Advantages:

This machine breaks emulsification thoroughly, and the oil is very difficult to emulsify again after treatment. Its dehydration volume is large and it can absorb water on line. TY series, which prevent lubrication system from damage, can effectively extend the lifetime of oil and protect turbine and other machines.

Item		Unit	TY-10	TY-20	TY-30	TY-50	TY-100	TY-150	TY-200	TY-300
Flow rate		Liters/hour	600	1200	1800	3000	6000	9000	12000	24000
Working Vacuum Degree		MPa	-0.06 ~ -0.095							
Working Pressure		MPa	$\leq 0.3$							
Temperature Range		$^{\circ}\text{C}$	20 ~ 80							
Water content		PPM	$\leq 50$							
Impurity content		$\mu\text{m}$	$\leq 5$							
Gas content		%	$\leq 0.1\%$							
Cleanness		NAS	$\leq 6$ grade (NAS1638)							
Demulsification value		min	$\leq 15$ (GB/F 7305)							
Power Supply			3 Phase, 50 Hz, 380V (or as per requirement)							
Heating power		kW	12	15	18	24	45	60	72	84
Total power		kW	14	17	20	27	48	66	81	97
Inlet/outlet caliber		mm	25	25	25	32	42	50	50	60
Weight		kg	400	450	500	600	700	900	1050	1550
Dimension	Length	mm	1280	1350	1350	1400	1500	1500	1600	1800
	Width	mm	750	900	950	950	1000	1200	1350	1400
	Height	mm	1450	1450	1500	1600	1650	1800	1800	1850

Dimensions will be changed if any special type required

# TY Vacuum Turbine Oil Purifier Machine



## Product Description

### Application:

Series TY Vacuum Turbine Oil Purifier is used for treating the unqualified turbine oil, especially the seriously emulsified turbine oil. This series, which can rapidly and effectively remove the water, gas and impurities aiming at turbine oil’s nature of high water content, easily emulsified and high impurity content, make the oil reach new oil standard.

### Features:

- 1.Breaking emulsification thoroughly by means of polymeric material.
- 2.Dewatering high-effectively with once and for two steps dehydrator method, TY series can thoroughly remove the liquid water, free water and 80% of dissolved water.
- 3.With zhongneng’s distinctive removing impurities technique filtering through double FH trapezoidal network and absorbing by polymeric material, this machine can make the β3 surpass or equal to 200 and make the cleanness not surpass grade 6 (NAS1638).
- 4.With the trapezoidal, spiral, automatic back flushing system.
- 5.With the advanced dielectric condensation devices.
- 6.On-line oil purification can be carried out with turbine or water turbine automatically without any person.

### Advantages:

This machine breaks emulsification thoroughly, and the oil is very difficult to be emulsified again after treatment. Its dehydration volume is large and it can drain off the water on line. TY series, which prevent lubrication system from damage, can effectively extend the lifetime of oil and protect turbine and other machines.

Item		Unit	TY-10	TY-20	TY-30	TY-50	TY-100	TY-150	TY-200	TY-300
Flow rate		Liters/hour	600	1200	1800	3000	6000	9000	12000	24000
Working Vacuum Degree		MPa	-0.06 ~ -0.095							
Working Pressure		MPa	≤ 0.3							
Temperature Range		℃	20 ~ 80							
Water content		PPM	≤50							
Impurity content		μm	≤5							
Gas content		%	≤0.1 %							
Cleanness		NAS	≤6 grade (NAS1638)							
Demulsification value		min	≤15 (GB/F 7305)							
Power Supply			3 Phase, 50 Hz, 380V (or as per requirement)							
Heating power		kW	12	15	18	24	45	60	72	84
Total power		kW	14	17	20	27	48	66	81	97
Inlet/outlet caliber		mm	25	25	25	32	42	50	50	60
Weight		kg	400	450	500	600	700	900	1050	1550
Dimension	Length	mm	1280	1350	1350	1400	1500	1500	1600	1800
	Width	mm	750	900	950	950	1000	1200	1350	1400
	Height	mm	1450	1450	1500	1600	1650	1800	1800	1850



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