



**ACORE FILTRATION CO., LTD**

***Products Introduction***

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### Company Introduction



AcCore Filtration Co.,Ltd is a one of leading custom engineering and manufacturing of oil filtration systems, we take responsibility from studying the client requirement, recommendation of solutions, design, implementing the solution and train personnel to maintain the systems. With special emphasis on providing oil purification systems for a wide variety of oils and applications, our products includes transformer oil purifier, lube oil purifier, turbine oil purifier, oil dehydrators, degasifiers and other industrial oil filtration systems. Meanwhile, combining measurement, diagnostic and analysis technology, we also supply oil testing equipment.

ACORE's oil filtration systems are manufactured using excellent quality components and spare parts that are procured from authentic suppliers around the world. All our oil purification systems are highly appreciated by customers for their brilliant performance, durability and sturdy construction. Our products serve many different industries, including aerospace, automotive, aviation, natural gas, oil refining, petroleum, pipelines, power generation, plastics, and much more.



Depending on experienced engineers, completely technical supports, advanced design, strict quality inspection line, fast and outstanding after-services. We have been in devoting our efforts to design and build the most effective, durable, and user-friendly equipments on the market today.

AcCore's policies of performance and protection cut maintenance costs, extend equipment life, keep equipment working at peak efficiency, prevent down time and meet today's ecological requirements.

## VTP Single Stage Vacuum Insulating Oil Purifier



### Application

VTP Series single stage vacuum transformer insulating oil purifier is designed for filtration, drying and degassing of insulating oil, this vacuum purification processing is a widely accepted and more economical method of treatment of insulation oil to increase and maintain insulating properties. Even new insulating oil is not enough clean to be used in high-voltage electric equipment, as it is often polluted during transportation tank and may absorb too much moisture and dust in contact with air. So new oil also needs purification processing before filling into transformers. The purification range of VTP vacuum insulating oil purifier is for dielectric insulating oil filled in transformers, circuit breakers, capacitor, cable, mutual inductor etc.

### Features

1. Horizontal vacuum separation technology, high efficient separation of vacuum degassing
2. Radiant heating system, enhance the contact area of the oil and oil heater, reduce the surface temperature of the heater, put an end to oil cracking aging.
3. Fault protection, Heater protection, prevent heater dry, pressure protection, discharge fault alarm and motor alarm.
4. Vacuum pump front cooler, reduce the water into the vacuum pump, and reduce the frequency of replace the vacuum pump oil
5. Patent holder degassing tank "foam protection structure + two-way foam electronic monitoring system", to prevent vacuum pump oil injection..

### Technical specification

Model	VTP10	VTP20	VTP30	VTP50	VTP80	VTP100
Capacity(L/min)	10	20	30	50	80	100
Vacuum level	-0.06~-0.095 Mpa					
Working pressure	≤ 0.4 Mpa					
Temperature range	20 ~ 80°C					
Breakdown voltage	≥ 60KV					
Water content	≤ 5ppm					
Gas content	≤ 0.1%					
Filtering rate	≤ 1 micron					
Continuous work	≥200 hr					

No failure running	≥5000 hr						
Power supply	380V, 50HZ, 3PH ( or Customized )						
Working noise	65 dB						
Heating power (kw)	15	15	24	30	48	60	
Total power (kw)	16.8	16.8	26	33	52	66	
Inlet/outlet(mm)	25	32	32	38	44	50	
Weight (kg)	240	250	280	320	600	750	
Dimension (mm)	L	1100	1130	1220	1300	1350	1420
	W	760	800	820	900	1000	1000
	H	1100	1220	1300	1310	1350	1750

### DVTP Double Stages Vacuum Transformer Oil Purifier



**Application:**

DVTP series double stages vacuum transformer oil purifier is special designed for processing insulating oil of high voltage electric equipments(especially for more than 500KV UHV insulating oil) in workshops or the field, storage tanks or drums, it adopts double stages vacuum source, double stages vacuum dehydration and degasification vessels, three stages precise filtration system, which can separate moisture, gas, particles and other harmful ingredients from oil much quickly and effectively to ensure the dry-level and dielectric strength improving greatly.

**Features:**

1. Horizontal double vacuum separation technology, doubling the evaporation area and degassing time
2. Double stages vacuum source and dehydration, degasification system, vacuum pump with roots pump
3. Multi-stage precise filtration system with gradually increasing precision
4. Automatic double-infrared liquid level controller, pressure protector
5. Fully automatic temperature controlling system and multi-stages electric oil heater adopts low-load design.
6. Automatic defoaming system with dual electronic monitoring system
7. Interlocked protective system connects 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.

**Technical Parameters**

Model	DVTP50	DVTP70	DVTP80	DVTP100	DVTP150	DVTP200	DVTP250	DVTP300	
Capacity(L/min)	50	70	80	100	150	200	250	300	
Vacuum level	-0.08~-0.099 Mpa								
Working pressure	≤ 0.4 Mpa								
Ultimate vacuum	≤ 5 Pa								
Temperature range	20-80℃								
Filtering rate	≤1 micron								
Breakdown voltage	≥ 70KV								
Water content	≤ 3ppm								
Gas content	≤ 0.1%								
Filtering particles	≥ 99.5%								
Continuous work	≥200 hr								
No failure running	≥5000 hr								
Power supply	380V, 50HZ, 3PH ( or Customized )								
Working noise	65 dB								
Heating power (kw)	30	50	60	60	90	125	136	150	
Total power (kw)	35	55	66	68	100	135	148	165	
Inlet/outlet(mm)	32	44	44	44	50	55	60	65	
Weight (kg)	650	800	900	1000	1200	1800	1950	2300	
Dimension (mm)	L	1600	1850	1850	1880	1900	1950	2000	2100
	W	1500	1600	1650	1700	1750	1800	1850	1900
	H	1600	1800	1800	1800	1850	1850	1900	1900

**MTP Mobile Transformer Oil Purifier Mounted on Trailer**



**Application:**

MTP Series Mobile Trailer High Vacuum Transformer Oil Purification System is developed for transformer oil degasification, dehydration filtration and de-acidification(option) onsite at outside. It adopts full enclosed structure with function of weather proof. MTP can be carried out on road and off road, the transformer oil purification systems mounted on mobile trailer can be our VTP vacuum oil filtration system or DVTP double stages vacuum oil filtration system according to user’s needs. Meanwhile, it also works with other electrical insulating oil such as cable, circuit breakers, capacitor etc. The Purification Process of MTP is

able to maintain complete cleanness and improve dielectric strength of insulating oil.

**Features**

1. Double axles or single axle trailer with functions of weather proof on road or off road.
2. Transformer Dry-Out and Filling capabilities
3. High efficiency three stage micro filter elements with capable of removing 99.5% particles as small as 1 micron.
4. Overall water content of  $\leq 3-5$  PPM By vacuum dehydration to remove free, emulsified and dissolved water.
5. Achieving soluble air and gas content of  $\leq 0.1\%$
6. Achieve  $\geq 60$ kV per ASTM 877 dielectric strength.
7. Online oil purification processing, vacuum drying and vacuum oil-filling for electric equipment.
8. Reducing overall operational and maintenance cost of power energy systems.

**Technical specification**

Model	MTP20	MTP30	MTP50	MTP80	MTP100	MTP150	MTP200	MTP250	MTP300
Capacity(L/min)	20	30	50	80	100	150	200	250	300
Vacuum level	-0.06~-0.095 Mpa								
Working pressure	$\leq 0.4$ Mpa								
Temperature range	20 ~ 80°C								
Filtering precision	$\leq 1$ micron								
Breakdown voltage	$\geq 60$ KV								
Water content	$\leq 5$ ppm								
Gas content	$\leq 0.1\%$								
Filtering particles	$\geq 99.5\%$								
Power supply	380V, 50HZ, 3PH (or customized )								

Working noise		65 dB								
Heating power (kw)		15	24	30	45	60	90	110	130	150
Total power (kw)		16.5	26	32	50	66	100	120	145	168
Inlet/outlet(mm)		32	32	38	44	50	55	60	65	70
Purifier Weight (kg)		300	500	650	800	900	1100	1500	1800	2000
Trailer Weight (kg)		200	250	300	350	500	550	650	800	900
Purifier Dimension (mm)	L	1100	1200	1300	1350	1400	1500	1600	1700	1800
	W	1000	1000	1000	1100	1150	1250	1300	1350	1400
	H	1200	1300	1300	1350	1750	1900	1950	2000	2000
Trailer Dimension (mm)	L	2500	2500	2500	2700	2800	2900	3000	3100	3200
	W	1000	1000	1000	1100	1150	1250	1300	1350	1400
	H	1200	1200	1200	1200	1200	1200	1200	1200	1200

### VDF Vacuum Dehydration Oil Purification System



ACORE designs and builds the most effective, reliable VDF Vacuum Dehydration Oil Purification System (Vacuum Oil Purifier), which maintains completely clean and dry of liquids by continuous removal of particles, free and emulsified water, gas and sludge. Vacuum dehydration is the most effective method of free and dissolved water removal at minimum cost, it can achieve overall content down to 10 PPM. Using high performance rated multi-stage micron filter elements to removes particles as small as 1 micron with 99% efficiency. Meanwhile, VDF Vacuum Oil Purifier also can remove free, entrained and dissolved gases by vacuum distillation. It is very effective, durable, and user-friendly high vacuum dehydration oil purification machine on the market today.

#### Features

1. High performance removal of water, gas and particulate
2. Low watt density oil heaters to prevent coking or burning of the oil
3. Remove 100% of free water and gases, and up to 80% of dissolved water and gases
4. Absolute rated particulate filters available in retention ratings from 1-100 microns
5. Dry-sealed rotary vane vacuum pump and positive displacement oil pumps
6. Phase reversing switch, dirty filter indication light and alarm condition lights for low oil level, high oil level, low flow, over-heat and over-load

**Technical specification**

Model	VDF10	VDF20	VDF30	VDF50	VDF80	VDF100	VDF150	VDF200	VDF250	VDF300	
Capacity(L/min)	10	20	30	50	80	100	150	200	250	300	
Working vacuum	-0.06~-0.095 Mpa										
Working pressure	≤ 0.4 Mpa										
Temperature range	20-80°C										
Water content	≤20 ppm										
Gas content	≤ 0.1%										
Demulsifying value	≤8 min(GB/F7035)										
Cleanness	NAS 4 grade										
Filtering precision	≤1 micron										
Continuous work	100 hr										
Power supply	380V, 50HZ, 3PH ( or Customized )										
Working noise	65 dB										
Heating power (kw)	24	24	30	35	40	60	90	120	140	150	
Total power (kw)	27	27	33	40	45	65	100	130	150	165	
Inlet/outlet(mm)	25	25	32	32	40	48	50	58	62	65	
Weight (kg)	300	350	400	500	650	800	1000	1200	1300	1350	
Dimension (mm)	L	1400	1400	1450	1500	1550	1600	1700	1800	1900	2000
	W	1300	1300	1350	1400	1450	1500	1500	1550	1600	1700
	H	1300	1350	1400	1450	1500	1600	1650	1800	1900	2000

**VLF Lube Oil Purifier**



**Application**

VLF Vacuum lube oil purifier is specially designed for maintaining absolute cleanliness of hydraulic and lubricant oils, the particulate and moisture contamination in oil will affect the performance and life of mechanical equipment, VLF machine can separate water, gas, particles rapidly and demulsify completely for recovery of oil's properties, such as viscosity, flash point, performance etc. And so as to greatly extend lifetime of machinery. This oil purifier also can be used for purification of turbine oil, gear oil, engine oil, compressor oil, refrigeration oil and other industrial oils, so it is widely applied in electric power, metallurgy, mining, chemicals, transportation, manufacturing, petroleum, railway etc.

**Feature**

1. Unique and high capacity dehydration, degasification and demulsifying system
2. Multi-stages high precision filters, large capacity for holding particles, anti-corrosion
3. An advanced fully automatic temperature controlling system

4. Fully Automatic liquid-level controlling system, defoaming controlling system, pressure protecting system.
5. Advanced medium cooling system
6. Interlocked protective system connects oil pump, heater and liquid level sensor, avoiding blank heating, blank pumping, oil leak and electricity leak

**Technical specification**

Model	VLF10	VLF20	VLF30	VLF50	VLF100	VLF150	VLF200	VLF300	
Capacity(L/min)	10	20	30	50	100	150	200	300	
Working vacuum	-0.06~-0.095 Mpa								
Working pressure	≤ 0.4 Mpa								
Temperature range	20-80℃								
Water content	≤20 ppm								
Gas content	≤ 0.1%								
Demulsifying value	≤8 min(GB/F7035)								
Cleanness	NAS 6 grade								
Filtering precision	≤1 micron								
Continuous work	100 hr								
No failure running	≥5000 hr								
Power supply	380V, 50HZ, 3PH ( or Customized )								
Working noise	65 dB								
Heating power (kw)	24	24	30	40	60	90	145	160	
Total power (kw)	27	27	33.5	44	65	97	157	178	
Inlet/outlet(mm)	25	25	32	32	48	50	58	65	
Weight (kg)	300	350	400	500	800	1000	1200	1350	
Dimension (mm)	L	1100	1230	1250	1500	1650	1750	1900	2000
	W	800	810	850	950	1000	1200	1250	1350
	H	1250	1260	1300	1400	1600	1750	1950	2100

## TOP Turbine Oil Purifier



### Application

Series TOP Turbine oil purifier is special designed for turbine oil, lubricating oil and cooling oil to removing a large amount of moisture and impurity. Such as power plants, power station steam turbine in the process of running, moisture, dust and impurities will be mixed in the turbine oil, will accelerate the oxidation of oil, and changed with foam, fouling and oil sludge, cause the oil emulsified serious, and lead to oil-water separation more difficult, reduce the oil performance of lubrication, speed, cooling etc. Meanwhile caused the metal parts of turbine steam to corrosion, bad for the safe operation of steam turbine.

### Features

1. The USA coalescence separation atomization technology, make the oil at best process in vacuum system;
2. Special polymer materials as filter medium with the functions of broken emulsion, dewatering, removing particles.
3. Fault protection, pressure protection, discharge fault alarm and motor alarm.
4. Constant temperature heating mode, the digital temperature controller within the range of 0-100°C
5. Heater adopt interlocked protective system, avoiding blank heating.
6. Automatic oil level control technology, to realization of man-machine separation
7. Adopt the France vacuum defoaming technology, avoid the oil leak.

### Technical Specification

Model	TOP10	TOP20	TOP30	TOP50	TOP100	TOP150	TOP200	TOP300
Capacity(L/min)	10	20	30	50	100	150	200	300
Working vacuum	-0.06~-0.095 Mpa							
Working pressure	≤ 0.4 Mpa							
Temperature range	0-100°C							
Water content	≤30 ppm							
Gas content	≤ 0.1%							
Demulsifying value	≤15min(GB/F7035)							
Cleanness	NAS 6 grade							
Filtering precision	≤1 micron							

Continuous work		100 hr							
No failure running		≥5000 hr							
Power supply		380V, 50HZ, 3PH ( or Customized )							
Working noise		65 dB							
Heating power (kw)		24	24	30	40	60	90	145	160
Total power (kw)		27	27	33.5	44	65	97	157	178
Inlet/outlet(mm)		25	25	32	32	48	50	58	65
Weight (kg)		300	350	400	500	800	1000	1200	1350
Dimension (mm)	L	1200	1250	1400	1500	1650	1750	1900	2000
	W	600	710	850	950	1100	1200	1250	1350
	H	1280	1300	1300	1400	1800	1850	1950	2100

### VHF Hydraulic Oil Purifier



VHF Hydraulic Oil Purifier from Acore Filtration Co.,Ltd is developed to improve liquid quality by continuous removal of particles, sludge free water, emulsified and dissolved moisture from hydraulic and lube oils. It can remove 100% of free and emulsified water, 90% of dissolved water and bring water content down to 80 ppm by coalescence technology and vacuum dehydration, and removal of 100% one micron particulate by high precision fiber filter elements. VHF Hydraulic Oil Purifier is ideal system for maintaining original property, ensuring optimal performance and extending service life of hydraulic and lube oils. It also help end-user reduce overall operational and maintenance cost of modern industrial lubrication systems.

#### Features

1. High-performance water, gas, and particulate removal
2. Minimizing fluid oxidation, maintaining lubricity properties and reducing aeration and acid build-up.
3. Low watt density oil heaters and digital temperature controller
4. High-quality filter elements with high dirt holding capacity, and filter elements can be cleaned or replaced.

- 5. Extension of fluid life, improved productivity, reduced time for fluid changes, minimized corrosion within fluid systems, increased equipment reliability.
- 6. Low maintenance requirements, minimal installation requirements and automatic operation

**Technical specification**

Model	VHF10	VHF20	VHF30	VHF50	VHF100	VHF150	VHF200	VHF250	VHF300	
Capacity(L/min)	10	20	30	50	100	150	200	250	300	
Working vacuum	-0.06~-0.095 Mpa									
Working pressure	≤ 0.4 Mpa									
Temperature range	20-80°C									
Water content	20-50 ppm									
Gas content	≤ 0.1%									
Demulsifying value	≤8 min(GB/F7035)									
Cleanness	NAS 4-6 grade									
Filtering precision	≤1 micron									
Power supply	380V, 50HZ, 3PH ( or Customized )									
Working noise	65 dB									
Heating power (kw)	24	24	30	35	60	90	120	140	150	
Total power (kw)	27	27	33	40	65	100	130	150	165	
Inlet/outlet(mm)	25	25	32	32	48	50	58	62	65	
Weight (kg)	300	350	400	500	800	1000	1200	1300	1350	
Dimension (mm)	L	1100	1150	1200	1300	1500	1600	1700	1900	2000
	W	800	800	850	950	1000	1150	1250	1300	1350
	H	1200	1250	1300	1350	1500	1600	1800	1900	2000

**VPS Vacuum Pump System For Transformer Drying**



**Application**

We developed the Vacuum Pump System(VPS) for evacuating different gaseous media, which is widely used for vacuum drying in electric industry, chemical industry, automotive industry, laboratory, food industries etc, especially for vacuum drying transformers. The vacuum pump units consist of one rotary vane vacuum pump or one vane vacuum pump combining with roots vacuum pump(booster pump), vane vacuum pump as backing pump and roots vacuum pump as fore-pump. This combination of the different types of pump depends on the nature of the media to be pumped off as well as the pump speed and the required operation and ultimate vacuum. These pumping units are of compact design and

mounted on skids base ready for use.

**Technical specification**

Model	VPS250	VPS500	VPS1000	VPS2000	VPS4000	
Capacity (L/s)	70	150	300	600	1200	
Ultimate vacuum	5 Pa					
Stages	Double stages					
Pumping speed of backing pump (L/s)	15	30	70	70	150	
Pumping speed of roots pump (L/s)	70	150	300	600	1200	
Power (kw)	4	6.5	9	11	18.5	
Power supply	380V 3Ph 50Hz (or Customized )					
Weight (kg)	480	650	960	1250	1560	
Dimension (mm)	L	1000	1100	1360	1500	1700
	W	600	650	900	1100	1150
	H	1180	1350	1700	1850	1950

**CSF Coalescer Fuel & Oil Purifier**



**Application:**

CSF Coalescer fuel & oil purifier removes free water and dissolved water from lube oils or diesel fuel, coalescing filter will make the free and dissolved water from small molecule to big drop, then separation filter remove the water drop by gravity, falling into the water tank. CSF diesel fuel oil purifier removes the particles by stages of filters and cleanness up to NAS grade. The oil purifier realizes online running with fuel filled, turbine oil filled and lubricating oil filled systems, especially good for water-leakage systems.

**Features:**

1. Rapidly removing large amount of water from oil and water content reach 100 PPM.
2. The coalesced oil takes the least restricted path to exit and rises or floats through the media to the top of the bulk liquid surface.

- The working conditions of all the parts are displayed clearly, monitoring, alarming, action control and safety stop enable the oil purifier to run online.
- CSF oil purifier can remove the impurities through coarse filter, protecting filter, and fine filter.

**Technical Specification**

Model	CSF10	CSF20	CSF30	CSF50	CSF100	CSF150	CSF200	CSF300
Capacity(L/min)	10	20	30	50	100	150	200	300
Working pressure	≤ 0.4 Mpa							
Filtering precision	≤1 micron							
Water content	≤100 ppm							
Cleanness level	NAS 6 grade							
Continuous work	≥200 hr							
No failure running	≥5000 hr							
Power supply	380V, 50HZ, 3PH ( or Customized )							
Working noise	65 dB							
Total power (kw)	1	1	1	2	2.5	3	4	5
Inlet/outlet(mm)	32	32	32	32	44	50	58	65
Weight (kg)	300	350	400	450	520	760	900	980
Dimension (mm)	L	1200	1300	1400	1500	1600	1650	1750
	W	750	800	900	950	1000	1050	1200
	H	1400	1500	1550	1600	1650	1700	1850

**DCS Disc-Centrifugal Oil Purifier**



**Application:**

DCS Series Disc-type Centrifugal Oil purifier is mainly used for separation of free water and impurities from oil, it is widely used for purification of ship fuel and turbine oil and plays a role in the clarification and purification, reduce operating costs and extend the life of the engine. Meanwhile, DCS Series Disc-type Centrifugal Oil Purifier also can be applied to heavy diesel oil, lubricating oil, hydraulic oil clarification and purification to slow wear of diesel engine or other types of machines, and extend the service life of the machine and oil. DCS Series Disc-type Centrifugal Oil Purifier can also be applied to other areas of non-homogeneous suspensions or emulsions separation.

**Features:**

- An ultra-high speed separator to the continuous separation of solid impurities and moisture from the pending

purification medium.

2. Automatic trash, continuous and efficient
3. Efficient new heating system, high efficiency, uniform heating.
4. Integrated multi-system, the operation is simple, safe and reliable.
5. Models of the design, manufacture and acceptance comply with the disc separator GB/T5745-2002 "marine"

**Technical specification**

Model	Unit	DCS1500	DCS2000	DCS3000	DCS4000	DCS6000	
Capacity	L/hr	1500	2000	3000	4000	6000	
Separating-factor	a/g	8000	8400	8800	9400	10000	
Running speed	r/min	8300					
Particles	μ	1					
Water content	ppm	≤100					
Pressure	MPa	≤0.2					
Temperature	℃	10-80					
Cleanness		NAS 6 grade					
Power Supply		380V, 50HZ, 3PH (Customerized)					
Sludge-discharge		Automatic					
Motor Power	kW	4	6	8	8	12	
Heater Power	kW	24	27	30	35	45	
Total Power	kW	28	33	38	43	57	
Weight	Kgs	350	600	850	900	1000	
Dimension	L	mm	950	1000	1100	1200	1300
	W	mm	700	750	800	900	950
	H	mm	1000	1100	1100	1200	1250

**PT Portable Oil Filtration Machine**



**Application:**

PT-Series Portable oil purifier is widely applied in filtration of various industrial oil, such as insulating oil, transformer oil, lubricating oil, hydraulic oil, turbine oil, mechanical oil, compressor oil, cooking oil, fuel oil etc. It mainly remove mechanical impurities and powder particles. PT can do precision filtration and generally equips three-stage filters, also can equip four or five stage filters as requirements. The machine is small size, light weight, stable performance, environmental protection, energy-saving and easy to replace filters. it can be used as oiling machine for long distance and high-lift oiling works, particularly suitable

for use in the Field.

**Technical specification**

Model	PT30	PT50	PT80	PT100	PT125	PT150	PT200	PT300	
Capacity(L/min)	30	50	80	100	125	150	200	300	
Work pressure	≤0.4 (Mpa)								
Filter precision	≤1micron								
Cleanness	≤6degree (NAS1638)								
Power (KW)	1.1	1.5	2.2	3	3	4	4	5.5	
Power supply	380V,50HZ,3Ph ( or customized)								
Head (m)	≥15 meter								
Inlet/outlet(mm)	25	32	38	44	48	50	58	65	
Dimension (mm)	L	800	800	800	800	810	950	950	1000
	W	750	760	800	800	800	800	810	850
	H	950	980	1000	1000	1000	1000	1100	1150
Weight(kg)	130	160	195	220	240	250	300	330	

**DR Transformer Oil Regeneration System**



DR Transformer Oil Regeneration System is the latest in design and provides many advantages over other methods of processing oils with attapulgus clay. It eliminates the high cost of throwaway cartridges, the labor involved in refillable canisters and bags and provides a modern approach to absorption. Its easy vacuum fill, its quick bottom dump and its better utilization of clay all indicate this is the approach the large user of clay should consider. The transformer oil regeneration system is the ideal system for the electrical industry and for the utility for processing insulating oils. The process not only corrects acidity but also removes dirt, dust, carbon, gums, resins, abrasives and oxidation products. It provides complete and dependable protection against costly oil contamination and gives increased operating efficiency to

produce better precision products.

The major role of DR Transformer Oil Regeneration System is that of an absorbent in the following applications:

1. Acid adsorption from insulating oil
2. Removing discoloration from oil.

**Technical information :**

Dielectric strength: KV ≥50

Flash point(close cup) °C: ≥135  
 Water-solubility: PH ≥5.4  
 Dielectric- factor loss: tgδ (90°C)% ≤0.005  
 Acid value: mgKOH/g ≤0.03

**PF Plate Frame Oil Press Filter**



**Application:**

PF oil press filter s designed for power plants, industrial and mining substations, lubricants warehouse, tractor station, petroleum, chemical, cement, metallurgy etc. It can purify transformer oil, turbine oil, hydraulic oils, gear oils, lubricating oil and remove water, mechanical impurities. PF plate pressure oil purifier is consisted of filter bed, plates, oil pump, motor and filtering papers. The filter bed and plates consist of a filter house, between the plates, the papers as filtering media. It also can purify fuel oil, cooking oil by using special materials and motor. PF series oil purifier has a

simple structure, convenient filter replacement, high filtration precision, easy operation, low cost.

**Specifications**

Model		PF30	PF50	PF70	PF100	PF125	PF150	PF200	PF300	
Capacity (L/min)		30	50	70	100	120	150	200	300	
Working pressure		0~0.4 Mpa								
Filtering precision		≤ 1 micron								
Pressure type		Manual type								
Plate size (mm)		200*200			280*280					
Filter paper size (mm)		200*200			280*280					
Filter ring quantity		10	12	12	15	15	20	26		
Filter plate quantity		11	13	13	16	16	21	27		
Motor	Power (KW)	0.9	1.2	1.5	1.8	2.0	2.5	1.1		
	Speed (r/min)	1100	1400	1450	1500	1600	1650	1800		
Inlet caliber		1			1 1/4				2 1/2	
Outlet caliber		3/4			1 1/4				2 1/2	
Dimension (mm)	L	800			900			1000	1000	
	W	300			400			420	450	
	H	600			800			900	950	
Weight (kg)		200		230	250	280	300	320	340	

**VCF Cooking Oil Purifier**

**Application**

VCF Cooking Oil Purifier is developed to improve life of cooking oil and reduce frying cost by removing water, impurities, odor, acidity, color etc, instead of simply replacing the oil. Using



vacuum dehydration technology with high precision different rate micro-glass filter element, it can help users stretch 20%–50% of oil usage, reduce your oil disposal needs, increase quality of your foods and provide better fried foods. VCP Cooking Oil Filtration system is ideal filtration systems for cleaning of deep fryers and full fryer management.

### Features

1. Advance vacuum dehydration system, pressure filters, oil water separator and high precision filters. The water content less than 5 ppm and filtering precision less than 1 micron
2. Stainless steel coarse filters, anti-corrosion and anti-corrupt. large capacity of holding particles, good mechanical performance, long lifetime.
3. Using the most advanced atomizing separation technology, oil atomization  $\leq 50\mu\text{m}$ , multiple opportunities to enhance the gas molecules and water molecules exposed to the vacuum system and extends the flowing distance in the vacuum system to ensure water and gas vaporized sufficient time to complete removal of moisture and gas
4. oil level control, pressure control, voltage protection, phase sequence protection etc. adopts automatic control, the full realization of unmanned control.

### Technical specification

Model	VCF10	VCF20	VCF30	VCF50	VCF100	VCF150	VCF200	VCF300	
Capacity(L/min)	10	20	30	50	100	150	200	300	
Working vacuum	-0.06~-0.095 Mpa								
Working pressure	$\leq 0.4$ Mpa								
Temperature range	20-80°C								
Water content	$\leq 20$ ppm								
Gas content	$\leq 0.1\%$								
Acid Value	$\leq 0.05$ mKOH/g								
Cleanness	NAS 6 grade								
Filtering precision	$\leq 1$ micron								
Continuous work	100 hr								
No failure running	$\geq 5000$ hr								
Power supply	380V, 50HZ, 3PH ( or Customized )								
Working noise	65 dB								
Heating power (kw)	24	24	30	40	60	90	145	160	
Total power (kw)	27	27	33.5	44	65	97	157	178	
Inlet/outlet(mm)	25	25	32	32	48	50	58	65	
Weight (kg)	300	350	400	500	800	1000	1200	1350	
Dimension (mm)	L	1100	1230	1250	1500	1650	1750	1900	2000
	W	800	810	850	950	1000	1200	1250	1350
	H	1250	1260	1300	1400	1600	1750	1950	2100

## FRP Phosphate ester Fire-Resistant Oil Purifier



### Application

Series FRP oil purifier is especially designed for phosphate ester fire-resistant oil with suitable material for vacuum dehydration, particles-removal and acid-reduction. This machine can treat and regenerate the degenerative fire-resistant oil, removing acid, pigment, gas, water and particles. FRP phosphate ester fire-resistant oil purifier adopts stainless steel materials which are compatible with fire-resistant oil, combined with technologies of vacuum dewatering, multi-stage filtration system and new adsorbent to ensure treated oil achieve new fire-resistant oil properties.

### Features:

1. The tank and pipelines where fire-resistant oil going through are all made of stainless steel.
2. Dehydrate by vacuum distillation, water content less than 100ppm.
3. Oil-input and oil-output keep balance by photoelectric switch which is sensitive and accurate to monitor oil level and stop inputting oil when level marked high and keep inputting oil when low.
4. We use filters which designed only for fire-resistant oil to remove particles. Cleanness up to NAS grade 6.
5. There is system with absorbent to solve acid problem.
6. Good appearance, compact structure and easy operation.

### Technical Parameters:

Model	Unit	FRP10	FRP20	FRP30	FRP50	FRP100
Capacity	L/H	600	1200	1800	3000	6000
Working vacuum	MPa	-0.06~-0.095				
Working pressure	MPa	≤0.3				
Demulsifying value	min	≤15/min(GB/F7035)+				
Water content	ppm	≤5				
Gas content	%	≤0.1%				
Acid value	mKOH/g	≤0.01				
Resistance value	Ω	≥6 x 10 <sup>9</sup> Ω				
Filtering accuracy	micron	≤1				
Cleanness		≥ NAS 6 grade				
Power supply		380V 50HZ(As per user's option)				
Working noise	dB(A)	≤65~80				
Temperature range	°C	40~60				
Heating power	Kw	9	10	16	20	30
Total power	Kw	12	14	20	25	35

Weight		Kg	350	400	450	500	600
Dimension	L	mm	1200	1200	1200	1600	1700
	W	mm	950	1000	1050	1200	1300
	H	mm	1600	1650	1700	1800	1900

**TCF Transformers Online On-load Tap Changer Oil Purifier**



**Application**

TCF Series on-line load tap changer oil purifier is designed and developed to meet the electric utility industry's need of reducing the overall operational and maintenance costs of load tap changers and increasing system reliability. TCF is installed on load tap changer for the continuous online removal of carbon, water and metallic particles, these contaminants are present in tap Changers due to arcing contacts during the transfer of loads from tap-to-tap in the tap changer compartments.

**Features**

1. Flow rates ranging from 0 to 15 liters per min with operating pressures up to 50 PSI
2. Positive displacement pump, two stages high precision filters and pressure monitoring
3. Automatic PLC controlling system combines with fault detection and diagnosis systems
4. Pressure switch turns the system off when the filters is plugged and automatic alarm.
5. Stainless steel 304 body and piping system, all ball valves are constructed of brass.

**DHP Transformer Dry Air Generator**



**Introduce:**

DHP Dry Air Generator adopts air compressing system, refrigerated air drying system, adsorption drying system, air filters and PLC controlling system, which can supply dry air quickly and effectively for industrial equipment, solve the troubles caused by air with vapor & dust. It uses low pressure oil-less compressed system and low-temperature condensation moisture removal technology, with the merits of small dimension, light weight, easy installation and operation, energy saving and high reliability.

**Features:**

1. Air supplying system composed by screw air compressor, dust filter, air cooler, air tank, vapor filter etc.
2. Refrigerated drying system: imported and enclosed hyperthermia compressor set, chiller, air heat exchanger

3. Regenerative desiccant drying system with imported quality desiccants
4. Pre-filter with automatic drain trap, results efficient pre-filtration
5. Fully automatic for operation, Low electric power consumption, Super dry air by low investment
6. Imported France Schneider electrics, Stable performance, safety and reliability

**Specifications:**

Model	DHP40	DHP80	DHP120	DHP200	DHP300	DHP400	DH500	DHP600	
Capacity (m³/h)	40	80	120	200	300	400	500	600	
Working pressure(MPa)	0.7~0.8								
Dew point (°C)	-55~-70								
Air pressure(MPa)	0.01~0.8 (adjustable)								
Compressor (kw)	0.65	0.8	1	1.2	1.6	1.9	2.2	2.6	
Total Power (KW)	8	11	15	22	30	45	50	55	
Coupling (mm)	32	35	38	40	40	50	50	58	
Weight (kg)	800	1000	1350	2100	2360	2850	3500	3780	
Dimension (mm)	L	1850	2000	2240	2300	2300	2350	2950	3150
	W	1540	1600	1690	1950	2000	2050	2100	2200
	H	2400	2400	2400	2400	2430	2450	2750	2800

**GRT Series SF6 Gas Recovery, Purification & Refilling Units**



**Application**

GRT Series Gas Recovery Unit is main used for manufacture, installation and maintenance of SF6 electrical equipment, such as circuit breakers, GIS(gas insulated switchgears), high-voltage transformers, high-voltage transmission lines, substations, etc. It is composed of vacuum system, compression systems, purification systems, storage system, condensing system and re-filling system. It is suitable for. The main advantage of GRT Units as following:

1. Recycled SF6 gas is directly stored into the container in the form of compressed liquid and does not need to be vented into the atmosphere.
2. Faster vacuum pumping speed, drying and filtration of SF6 gas, removing hazardous moisture and contaminants.
3. Refilling SF6 gas into electric element, reusing the existing SF6 gas minimizing requirement of purchasing new gas.

**Features**

1. The use of foreign companies advanced principles and technology, advanced design, functional and reasonable structure, the operation simple and clear.

2. Adopts imported semi-enclosed compressor, stable performance and service life is greatly extended.
3. Vacuum system uses Germany vane vacuum pump, fast vacuum pumping speed.
4. The latest patented SF6 special instruments and valves, more reliable instrument ball valve.
5. Interlocked protective system can avoid overload, over voltage, electricity leak and prevent any damages to equipment due to operating error or power failure.
6. The equipment uses air-cooler, can be used without external water conditions.

### Technical Specifications:

1. Type: Mobile trolley type
2. Power Supply: 380V, 50HZ, 3Phase (or Customized)
3. Ambient Temperature: -10°C to 40°C
4. Ultimate vacuum  $\leq 10$  Pa (special requirements can be  $\leq 5$ Pa)
5. Vacuum pumping speed: 14 to 200 m<sup>3</sup> / h (different model with different speed)
6. Gas filling: initial pressure  $<133$ Pa, final pressure  $\leq 0.8$ M Pa, Inflating speed  $> 6$ m<sup>3</sup> / h
7. Gas recovery: initial pressure  $\leq 0.8$ Mpa, final pressure: standard  $\leq 0.05$ MP or higher  $\leq 10 \times 133$ Pa, recovery speed  $\geq 12$ m<sup>3</sup> / h (different model with different speed), recovery rate: 99.5%
8. Maximum storage pressure 4.0M Pa
9. Annual Leakage Rate  $<1\%$
10. Storage tank capacity: 100-500 kg (different model with different capacity)
11. Storage type: liquid
12. Noise  $\leq 75$ dB sound pressure level
13. Continuously trouble-free operation  $> 1000$  hours, cumulative trouble-free operation  $> 5000$  hour

## SF6 Gas Evacuation & Refill Unit



### Application:

SF6 Gas Evacuation & Refill Unit is specially designed for vacuum pumping and gas refilling of SF6 electrical equipment, it is widely used for manufacturing, installation, maintenance of SF6 circuit breaker, transformers, power plant, substation, GIS and other SF6 electrical equipment. Meanwhile, it also can be used for gas evacuating and filling of other container.

### Features:

1. Quick vacuum evacuation of SF6 electrical equipment, good sealing, high vacuum stability
2. Phase sequence protection device, withstand voltage up to 500V, greatly improve reliability
3. The use of air-cooled, mobile, can be used in the absence of water sources
4. The mobile casters structure, compact and rugged to adapt to a variety of harsh environments
5. Interlocked protective system can avoid overload, over voltage, electricity leak and prevent any damages to equipment due to operating error or power failure.
6. Ball valve with the USA Swagelok technology, sealing components with automatic compensation performance and

ensure stable vacuum pressure.

7. The use of digital vacuum gauge, precise measurement and easy reading.

8. Automatic anti-oil system

9. The machine is user-friendly design, low noise and energy consumption to save operating costs.

**Technical Specification**

Model	GER10	GER20	GER25	GER40	GER65	GER100	GER252	GER540	GER1000	
Type	Portable			Mobile trolley						
Pumping speed (m <sup>3</sup> /hr)	10	20	25	40	65	100	252	540	1080	
Limited vacuum (Pa)	10									
Vacuum gauge	Spring or digital type (option)			Digital type						
Coupling	M27×1.5 two way			M27×1.5 four way						
Power supply	380V, 50HZ, 3Phase (or customized)									
Total power (KW)	1	1	1	1.5	2.2	3.8	5.2	6	8	
Weight (kg)	60	70	70	100	120	140	240	300	480	
Dimension (mm)	L	500	600	600	1000	1150	1200	1250	1300	1400
	W	500	600	600	600	650	650	750	750	900
	H	1200	1200	1200	1000	1000	1020	1200	1300	1400

**DST Dielectric Oil Breakdown Voltage Tester**

**Application:**

DST automatic oil tester (BDV tester) is developed especially for measurement of insulating oil's breakdown voltage, it is unique in the market due to its functionality and the excellent user benefits in comparison to costs. The ZJY oil tester provides delivers clear and reliable measurement results. It is no longer necessary to send samples to the laboratory. Environmental and transport influence on the samples are minimized. Due to its design, the tester is particularly handy, easy to operate and especially excellent to use under tough ambient conditions. By proper programming, DST has got functions of auto boosting, step down, stirring, display and print out.



**Technology and parameter data:**

- 1. Power supply: AC220V ±10%, 50 HZ
- 2. Voltage output: 0-80KV / 100K

3. Accuracy:  $\pm 2\%$
4. Capacity: 1.6KVA, 2.0KVA
5. Pressure increase rate : About 2 KVA/S
6. Pressure testing speed: 2%
7. Break down sensitivity :  $< 2KV$
8. Wave form distortion :  $\leq 3\%$
9. Time of breakdown:  $\leq 10ms$
10. Operational environment: Temperature:  $0^{\circ}C - 40^{\circ}C$ , Humidity: the most relative humidity 85%
11. Storage environment : Temperature:  $-20^{\circ}C - 40^{\circ}C$ , Humidity: the most relative humidity 75%.
12. Operational height:  $< 150m$  (can be specially designed if the height is over 1500m)
14. Electrodes: Stainless steel spherical 36 mm diameter/hemispherical 25 mm radius, 2.5 mm gap as per IEC-156.
15. Initial stand time of oil sample: 180 seconds  
Intermediate stand time of oil sample: 60 seconds  
String time of oil sample: 60 seconds  
Number of consecutive test: 6

## AFPT Automatic Flash Point Tester



### Application:

AFPT Automatic flash point tester is specially design for measurement of the flash point of petroleum products accurately. It is made as the standard of ASTM D93. This tester adopts international advanced technology, LCD touch screen for operation, Integrated software controller, modular structure etc. AFPT tester has the advantages of high integration, easy operation, convenient installation and maintenance, it is widely applied in It is widely applied in petroleum, metallurgy, electric power, transportation, railway etc. The customer can choose open cup method

or closed cup method.

### Feature:

1. Newly high rate digital type processing unit, reliable and high precision
2. One host control several testing units for measurement of several samples, saving testing time.
3. Fully automatic testing, open cover, fire, alarm, cooling and printing.
4. Platinum heating cord, gas ignition type.
5. Atmospheric pressure automatic detection, automatic correction of the test results
6. The newly developed high capacity and high-frequency heating technology, high heating efficiency, the adaptive PID control algorithm, automatically adjust the heating curve
7. Automatic temperature detection, stop and alarm
8. Thermal mini-printer makes printing more efficient and more beautiful, offline print function
9. Testing data record with time, can store up to 255 data.

10. With temperature compensation Centennial calendar clock, accurate time, automatically record the date and time of measurement, the power-down state can run more than 10 years

11. 320x240 Large screen graphic LCD display, Full-screen touch-screen buttons, easy and intuitive; Built-in multiple execution standards to choose from.

### ATS Automatic Tension Tester



Intermolecular forces will generate interface tension and surface tension of liquids. The value of tension reflects liquid sample's physics and chemical properties, which is one of the most important index for product quality. ATS automatic tension tester tests kinds of liquid surface tension and interface tension according to ring method which is simple and accurate. It is widely used in electric, petroleum, chemical medicine, food and teaching filed.

#### Features

1. Exclusive and quick response electromagnetic balance sensor is adopted, to improve the accuracy of the measurement and degree of linearity.
2. Only using one point calibration, to solve the problem of previous sensor which needs multi-point calibration. It is no need to use zero potentiometer and full scale potentiometer.
3. Real-time show equivalent tension value and current weight.
4. Integrated with temperature detection circuit, to compensate temperature automatically for test result.
5. 240\*128 dot matrix LCD screen. No logo button has function of screen protection.
6. Save up to 255 history records with time indicated.
7. Built in high speed thermal mini printer to print out quickly. It also has function of off -line print.

### AVT Automatic Acid Value Tester



AVT automatic acid value tester is designed and made as per the standard of GB/T264-83 and ASTM D445 Petroleum Products, it is used for acid value analysis of insulation oil, turbine oil and other samples. AVT adopts new and advanced microprocessors, electronics, optical, mechanical and chemical integration design, which realizes high degree of automation and computer control, completely replaces manual operation, raised the working efficiency, reduces the labor intensity of workers, it makes the measurement accuracy, high positioning accuracy, the titration end point accuracy, reproducible results accuracy. The operation is simple, easy to use, strong anti-interference ability, stable and reliable. AVT unit can be widely used in electric power, chemical industry, environmental protection and other fields.

#### Features:

1. Using 320 x240 graphic dot matrix liquid crystal display screen, full screen, touch keys, friendly man-machine interface
2. Using neutralization titration principle, use microcomputer to control automatically add liquid at room temperature, and titration, stirring, judge titration end point, LCD screen display and can print test results.
3. Color sensor coordinate titration end point detection, the judgment of end conditions is reliable.
5. Extract and neutralization liquid by a peristaltic pump control, high measuring accuracy.
6. History inquiry, instruments and automatic memory function, with the result of the experiment time automatic storage of record, and is not lost the data after power off, can be stored for more than 10 years, for later queries to print.
7. Calendar clock, temperature compensation, as accurate, record the date and time, determination in power to run more than 10 years;
8. The tester still can choose according to need only one sample or continuous measurement of 2-6 samples.

### VST Automatic Kinematic Viscosity Tester

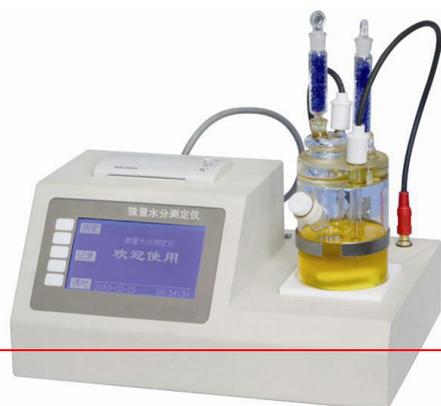


VST oil viscosity tester is designed and made as per the national standard of China GB/T265 Petroleum products-Determination of kinematic viscosity and calculation of dynamic viscosity, GB/T 11137 Black petroleum products-Determination of kinematic viscosity (reverse-flow method) and calculation of dynamic viscosity and GB/T 1995 Petroleum products-Calculation of viscosity index. It is used to determine the kinematic viscosity of liquid petroleum products (Newtonian liquids) and the kinematic viscosity of dark petroleum products. It can also be used to determine the viscosity index of lubricating oils.

#### Features

1. Multifunctional. It can determine the kinematic viscosity of liquid petroleum products (Newtonian liquids) and the kinematic viscosity of dark petroleum products. It can also be used to determine the viscosity index of lubricating oils.
2. Micro-processor control and colored LCD technology. Chinese-English bilingual menu. GUI touch screen. Easy to operate.
3. Advanced digital control and display. Automatic kinematic viscosity determination
4. It can test 2 samples at a time. The parameters such as temperature, time, coefficient of capillary viscometer tube can be inputted in or displayed on the screen.
5. New-type temperature sensor. The temperature resolution is 0.01 °C. Temperature control precision is  $\pm 0.05^{\circ}\text{C}$ .
6. It can save 99 coefficients of capillary viscometer.

### DMT Oil Moisture Content Tester



DMT Automatic and Digital Transformer Oil Moisture Content Tester is apply to test the insulating oil's dielectric strength, which is designed as per the requirement of IEC165 Testing Method of Insulation Oil Medium Strength, which via proper programming, has got functions of auto boosting, step down, stirring, display and

print out. After breakdown of oil medium, HV break off will operate within 10 seconds to enable an auto isolation of control system partly; this effectively safeguards the personnel security and equipment safety.

The automatic portable transformer oil tester adopts industrial SCM to control which is applied to integrate circuit, new model I/O connection, particular testing and anti-jamming technology which is largely improved the machine's capacity.

### Features

1. Simply operate: automatically (can be finished just press on key)
2. Menu controlled. Input data can clear
3. Can store 99 groups' oil testing data which is convenient to reading and print. The testing data can keep 100 years under the condition of power off.
4. System time can go on running under power off; (The system time just for reference can't be the standard of timing)
5. Can upgrade software through RS232
6. High capacity of anti-jamming and high precision of testing.
7. Small volume, light which operated in the open air very conveniently.

## DRT Transformer DC Winding Resistance Tester



### Application:

DRT Transformer DC Winding Resistance Tester is a must-test item for semi-finished products in finished transformer manufacturing, finished product testing, installation, overhaul, change of tap-changer, handover test and preventive test in the power sector. It is possible to check the welding quality of the winding joint and whether the winding has a turn-to-turn short circuit. It can detect whether the contact of each position of the voltage tap changer is good and whether the actual position of the tap changer matches the indicated position, whether the lead wire is broken or not, and the multi-strand wire is wound. Whether there are broken shares and so on. In order to meet the needs of rapid measurement of transformer DC resistance, our company developed the DC resistance fast tester. The instrument adopts new

power supply technology and features small size, light weight, large output current, good repeatability, strong anti-interference ability and perfect protection function. The whole machine is controlled by high-speed single-chip microcomputer, with high degree of automation and automatic discharge and discharge alarm function. The instrument has high test accuracy and easy operation, and can realize rapid measurement of the direct resistance of the transformer.

### Features:

1. The whole machine is controlled by high-speed single-chip microcomputer, with high automation and easy operation.
2. The instrument adopts new power supply technology, with many current gears and wide measuring range, suitable for DC resistance measurement of large and medium-sized transformers.

- 3, the protection function is perfect, can reliably protect the impact of the back EMF on the instrument, and the performance is more reliable.
4. with an audible discharge alarm, clear discharge indication, reduce misuse.
5. the response speed is fast, the on-load tap-changer can be directly converted in the measurement state, and the instrument automatically refreshes the data.
6. intelligent power management technology, the instrument works in the minimum power state, effectively saving energy and reducing heat.
7. the instrument comes with a perpetual calendar clock and power-down storage, can store 1000 group of test data, can be consulted at any time

## Transformer Oil Dissolved Gases Analysis Equipment



### Analysis of dissolved gases in insulating oil

Content determination of dissolved gases in insulating oil by gas chromatography is set, the power supply enterprise to judge the oil filled power equipment in the operation of the existence of latent heat, discharge fault, in order to ensure the effective operation of the power grid safety, but also oil filled electrical equipment manufacturers of the equipment of the factory inspection the necessary means of. GAT gas analyzer of transformer oil using three detector process standard recommend, a sampling can complete component of dissolved gas in insulation oil (including hydrogen, oxygen, methane, ethylene, ethane, acetylene, carbon monoxide and carbon dioxide) full content analysis.

### Determination of gas content in insulating oil

Insulating oil gas content is an important index of oiliness supervision. At present, according to the DL/T450-1991 method of making carbon dioxide elution method is suitable for determining not only acid gas containing oil, according to the DL/T423-91 method for vacuum pressure difference method for vacuum instrument is not easy and the existence of the limitations of the. GAT transformer oil gas analysis of process design of the system fully in line with the People's Republic of China electric power industry standard DL/T 703-1999< gas content in insulating oil by gas chromatography method in the chromatographic process design. The machine is equipped with the provisions. The thermal conductivity detector with high sensitivity and hydrogen flame ionization detector, and a nickel catalyst converter, can be dissolved in transformer oil nine gas components: hydrogen, oxygen, nitrogen, carbon monoxide, carbon dioxide, methane, ethane, ethylene, acetylene measuring. Its performance to meet the requirements of gas insulated DL/T 703-1999< chromatograph oil and gas content in gas chromatography ".

### Instrument performance

The first sampling, the sample volume is 1 mL, the minimum detection concentration of transformer oil (ul/L):

Component	H <sub>2</sub>	CO	CO <sub>2</sub>	CH <sub>4</sub>	C <sub>2</sub> H <sub>4</sub>	C <sub>2</sub> H <sub>6</sub>	C <sub>2</sub> H <sub>2</sub>
Minimum detectable concentration (ul/L)	2	1	5	0.1	0.1	0.1	0.1

## TTR Three Phase Transformer Turn Ratio Tester



In the semi-finished transformers and the finished the transformers production process, before the newly installed transformers being put into operation, and according to the preventive tests of the Ministry of Electric Power, the Turns and ratio of the transformers should be tested periodically. The traditional variable ratio electric bridge operating is cumbersome, and not intuitive for readings. It also needs to carry out the necessary conversion. The test results only for the information of one phase transformation ratio. This instrument overcome the traditional variable Bridge Test shortcomings. A big screen used lattice liquid crystal monitor, with Chinese menu suggested function. The operating is simple and intuitive. It can complete a three-phase variable

ratio testing .Fast testing speed and high accuracy rate.

### Characters

1. Test range wide, the highest can reach up to 10000.
2. Fast test speed, ten seconds of the completion of three-phase testing.
3. Measurement of single phase and three phase winding testing. Coupling any group(AB, BC, CA) and once completing the measurement of three-phase ratio, error and other parameters of coupling group.
4. Setting data, testing results are automatically saved and view the previous data.
5. Testing load transformers, turns ratio is only entered once.
6. Automatically cutting off the test power after one measurement.
7. Easy to carry, suitable for field work.

## **After-sales Services**

AcCore Filtration Co.Ltd guarantee the products supplied under this specification against defects in material and workmanship under normal operation and installation as outlined within the system's manual. The warranty period is based on a period of twenty-four (24) months after the system is delivered. The seller obligation under this warranty is to repair or furnish, without charge (FOB: EX Factory), a similar part to replace any part, which has proven to be defective within the warranty period. In cases where the defective part cannot be repaired/fixed by the customer, the seller is responsible for sending a technician (at no charge) to the customer's site to repair the components/system within the warranty period. The seller shall not in any event be held responsible for any indirect or consequential damages. The ACORE System's performance guarantee will be within limitations as detailed within this quotation.