ACORE FILTRATION CO., LTD

Products Introduction

Oil Filtration Systems For Every Demanding Application

Company Introduction

Acore 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, plastics, power generation, 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.

Acore'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.

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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	VTP-10	VTP-20	VTP-30	VTP-50	VTP-80	VTP-100	VTP-150	VTP-200	VTP-300
Capacity(L/min)	10	20	30	50	80	100	150	200	300
Vacuum level	-0.06～-0.095 Mpa								
Working pressure	≤ 0.4 Mpa								
Temperature range	20 ～ 80℃								
Breakdown voltage	≥ 60KV								
Water content	≤ 5ppm								
Gas content	≤ 0.1%								
Filtering rate	≤ 1 micron								
Continuous work	≥200 hr								

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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	90	108	130
Total power (kw)		16.8	16.8	26	33	52	66	100	120	148
Inlet/outlet(mm)		25	32	32	38	44	50	58	65	25
Weight (kg)		240	250	280	320	600	750	900	1050	1150
Dimension (mm)	L	1100	1130	1220	1300	1350	1420	1600	1650	1800
	W	760	800	820	900	1000	1000	1200	1250	1350
	H	1100	1220	1300	1310	1350	1750	1900	1920	2000

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.

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Technical Parameters

Model		DVTP-30	DVTP-50	DVTP-80	DVTP-100	DVTP-150	DVTP-200	DVTP-250	DVTP-300
Capacity(L/min)		30	50	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)		24	30	48	60	90	125	136	150
Total power (kw)		27	34	54	68	100	135	148	165
Inlet/outlet(mm)		32	32	44	44	50	55	60	65
Weight (kg)		600	700	800	900	1200	1800	1950	2300
Dimension (mm)	L	1300	1350	1500	1800	2000	2100	2150	2300
	W	1000	1000	1100	1150	1250	1300	1350	1400
	H	1500	1500	1600	2000	2150	2200	2250	2300

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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 ≤3-5 PPM By vacuum dehydration to remove free, emulsified and dissolved water.
5. Achieving soluble air and gas content of ≤0.1%
6. Achieve ≥60kV 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	MTP-20	MTP-30	MTP-50	MTP-80	MTP-100	MTP-150	MTP-200	MTP-250	MTP-300
Capacity(L/min)	20	30	50	80	100	150	200	250	300
Vacuum level	-0.06～-0.095 Mpa								
Working pressure	≤ 0.4 Mpa								
Temperature range	20 ～ 80℃								
Filtering precision	≤1 micron								
Breakdown voltage	≥ 60KV								
Water content	≤ 5ppm								
Gas content	≤ 0.1%								
Filtering particles	≥ 99.5%								
Power supply	380V, 50HZ, 3PH (or customized)								
Working noise	65 dB								

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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

VLF Lube Oil Purifier

Application

VLF-Series 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 wildly 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	VLF-10	VLF-20	VLF-30	VLF-50	VLF-100	VLF-150	VLF-200	VLF-300
Capacity(L/min)	10	20	30	50	100	150	200	300

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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
Dimension (mm) W	800	810	850	950	1000	1200	1250	1350
Dimension (mm) 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.

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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 ℃
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		TOP-10	TOP-20	TOP-30	TOP-50	TOP-100	TOP-150	TOP-200	TOP-300
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℃							
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

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VPS Vacuum Pump System For Transformer Drying

Application

We developed the Vacuum Pump System(VPS) for evacuating different gaseous media, which is wildly 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		VPS-30	VPS-70	VPS-150	VPS-300	VPS-600	VPS-1200
Capacity (L/s)		30	70	150	300	600	1200
Ultimate vacuum		5 Pa					
Stages		Single	Double stages				
Pumping speed of backing pump (L/s)		30	15	30	70	70	150
Pumping speed of roots pump (L/s)		—	70	150	300	600	1200
Power (kw)		2	4	6.5	9	11	18.5
Power supply		380V 3Ph 50Hz (or Customized)					
Weight (kg)		240	480	650	960	1250	1560
Dimension (mm)	L	700	1000	1100	1360	1500	1700
	W	500	600	650	900	1100	1150
	H	1200	1180	1350	1700	1850	1950

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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-filteration
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		DHP-40	DHP-80	DHP-120	DHP-200	DHP-300	DHP-400	DHP-500	DHP-600
Capacity (m^3/h)		40	80	120	200	300	400	500	600
Working pressure(MPa)		0.7～0.8							
Dew point (℃)		-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

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DST Insulating Oil Breakdown Voltage Tester/Dielectric Strength 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: ±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 :≤3%

9.Time of breakdown: ≤10ms

10.Operational environment: Temperature:0℃-40℃, Humidity: the most relative humidity85%

11. Storage environment : Temperature:-20℃-40℃, Humidity: the most relative humidity75%.

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

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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.

Technical specification

Model	TCF
Capacity (L/min)	15
Filtering precision	≤1 micrion
Liquid temperature	20～100℃
Working pressure	≤0.4 Mpa
Water content	≤20 ppm
Dielectric strength	≥50kV
Power	0.30
Power supply	380V 50Hz 3Ph(or Customized)
Inlet/Outlet	DN16
Weight	100
Dimension (mm)	500*600*800

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CSF Coalescence-separation Oil Purifier

Application:

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

Technical Specification

Model	CSF-10	CSF-20	CSF-30	CSF-50	CSF-100	CSF-150	CSF-200	CSF-300
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

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Weight (kg)		300	350	400	450	520	760	900	980
Dimension (mm)	L	1200	1300	1400	1500	1600	1650	1650	1750
	W	750	800	900	950	1000	1050	1100	1200
	H	1400	1500	1550	1600	1650	1700	1750	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 wildly 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:

1. 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	DCS-15	DCS-20	DCS-30	DCS-40	DCS-60	DCS-80	DCS-100
Capacity	L/hr	1500	2000	3000	4000	6000	8000	100000
Separating-factor	a/g	8000	8400	8800	9400	10000	10600	11200
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	16	20
Heater Power	kW	24	27	30	35	45	55	65

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Total Power		kW	28	33	38	43	57	71	85
Weight		Kgs	350	600	850	900	1000	1100	1200
Dimension	L	mm	950	1000	1100	1200	1300	1350	1400
	W	mm	700	750	800	900	950	1000	1100
	H	mm	1000	1100	1100	1200	1250	1300	1350

VCP Cooking Oil Purifier

Application

VCP 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 ≤ 50um, 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	VCF-10	VCF-20	VCF-30	VCF-50	VCF-100	VCF-150	VCF-200	VCF-300
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							

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Gas content		≤ 0.1%						
Acid Value		≤0.05 mKOH/g						
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

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. After treatment, the important index-resistivity up to ≥ 6 x 109.

6. Good appearance, compact structure and easy operation.

Technical Parameters:

Model		Unit	FRP-10	FRP-20	FRP-30	FRP-50	FRP-100
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 10^9 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		℃	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

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	PT-20	PT-30	PT-50	PT-80	PT-100	PT-125	PT-150	PT-200	PT-300
Capacity(L/min)	20	30	50	80	100	125	150	200	300
Work pressure	≤0.4 (Mpa)								
Filter precision	≤1micron								

Cleanness		≤6degree (NAS1638)								
Power (KW)		1.1	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)		20	25	32	38	44	48	50	58	65
Dimension (mm)	L	600	800	800	800	800	810	950	950	1000
	W	600	750	760	800	800	800	800	810	850
	H	900	950	980	1000	1000	1000	1000	1100	1150
Weight(kg)		100	130	160	195	220	240	250	300	330

PF Plate-press Oil Filtration Machine

Application:

PF-Series plate pressure oil purifier is 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.

Technical specification

Model		PF-30	PF-50	PF-100	PF-125	PF-150	PF-200	PF-300
Capacity(L/min)		30	50	100	125	150	200	300
Working pressure (Mpa)		0～0.4						
Filtering space (㎡)		0.48	0.6	1.57	1.88	2.35	3.14	4.08
Plate size (mm)		180×180		280×280				
Filter paper size (mm)		180×180		280×280				
Filtering precision		≤ 1 micron						
Pressure type		Manual type						
Filter ring quantity		6	8	10	12	15	20	26
Filter plate quantity		7	9	11	13	16	21	27
Motor	Power (KW)	1.1	1.5	2.2		3	4	5.5
	Speed (r/min)	1400	1400	1400		1400	1400	1400
Inlet caliber		1		1 1/4				2 1/2
Outlet caliber		3/4		1 1/4				2 1/2
Dimension (mm)	L	800		820		900	1150	1200
	W	300		410		410	430	450
	H	650		850		850	920	950
Weight		150	185	280	295	320	330	350

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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 the 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 USA semi-enclosed compressor, stable performance and service life is greatly extended.

3. Vacuum system uses Germany vane vacuum pump, fast vacuum pumping speed.

4. Purification system uses USA Neil filter with two-stage built-in electric heating and efficient absorption (without frequent replacement of adsorbent), greatly improving quality of SF6 gas

5. The latest patented SF6 special instruments and valves, more reliable instrument ball valve.

6. Interlocked protective system can avoid overload, over voltage, electricity leak and prevent any damages to equipments due to operating error or power failure.

8. 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℃ to 40℃
4. Ultimate vacuum ≤ 10 Pa (special requirements can be ≤ 5Pa)
5. Vacuum pumping speed: 14 to 200 m^3 / h (different model with different speed)
6. Gas filling: initial pressure <133Pa, final pressure ≤ 0.8M Pa, Inflating speed > 6m^3 / h
7. Gas recovery: initial pressure ≤ 0.8Mpa, final pressure: standard≤0.05MP or higher ≤10 × 133Pa, recovery speed ≥12m^3 / 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 ≤ 75dB sound pressure level
13. Continuously trouble-free operation> 1000 hours, cumulative trouble-free operation> 5000 hours

Model Specification:

Model	Storage capacity	Recovery speed	Vacuum pumping speed
GRT-30	30kg	4 m3/h	14 liters/s
GRT-50	50kg	4 m3/h	14 liters/s
GRT-100	100kg	12 m3/h	28 liters/s
GRT-150	150kg	12 m3/h	54 liters/s
GRT-200	200kg	12 m3/h	54 liters/s
GRT-250	250kg	24 m3/h	54 liters/s
GRT-300	300kg	24 m3/h	100 liters/s
GRT-500	500kg	24 m3/h	100 liters/s

EE36 Portable/On-line Moisture Transmitter

Description

Transmitter Series EE36 are specially designed for the measurement of water content in oil, it can be portable or online use. They are certified in accordance with the regulations of the "Germanischen Lloyd (GL)" and therefore can be utilized in the maritime field as well. EE36 is ideal for online monitoring of moisture in lubrication or insulation oil after installing on equipments, which is very important for the long-term performance and adaptive maintenance of plant and machinery. For instance, moisture affects dramatically the insulation characteristics of electrical transformer oil and therefore continuous monitoring is extremely important. The modular housing enables a user-friendly operation and a quick replacement of the sensor unit for service purposes. The construction of the transmitter makes field and local loop calibration an easy task.

Humidity measurement in oil

Similar to the humidity in the air, the water content in oil can be described by the absolute value in ppm or by the relative value aw: PPM (mass of water / mass of oil)
AW (actual water content as fraction of the water content in the saturated oil) aw = 0 corresponds to water-free oil, while aw = 1 describes fully saturated oil
aw measurement with EE36 transmitter series is based on the outstanding long term stability and resistance to pollution of the E+E capacitive sensor elements series HC.

Product Versions

The physical quantities measured are water activity aw and temperature T. With these quantities EE36

calculates the water content (ppm) in mineral transformer oils. Calculation of water content in non-mineral transformer oils and lubrication oils can be accomplished by downloading specific parameters of the oil.
The measured and the calculated values are available on two free scaleable and configurable analogue outputs. In addition, an optional relay output can be used for alarms and process control.

Technical Data

Power supply:	8-35V DC, 12-30AC. (Option: Built-in 100-240AV, 50/60HZ)
Output	0-5V, 0-10V, 4-20mA, 0-20mA
Measuring range	0...1 aw, 0～500 ppm (Option:0～ 1000/10000 ppm)
Temperature range	-40～ 180°C
Accuracy	± 0.013～± 0.015 aw, ± 0.005°C
Sensor Pressure Range	0.01～20bar