



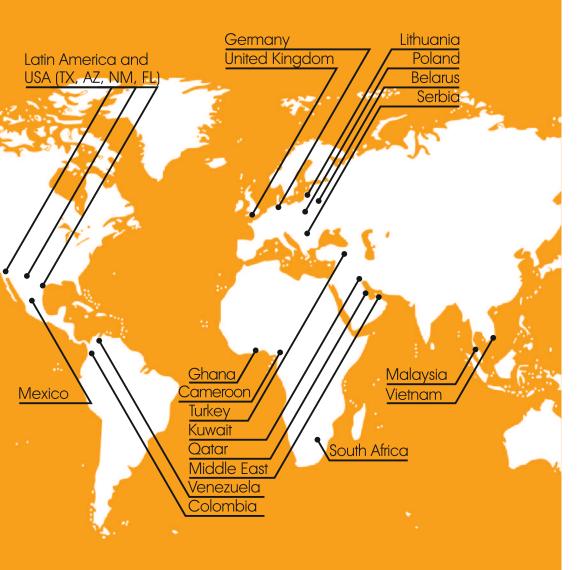
## Introduction:

Modern power transformers are an essential link in long-distance transmission of electricity. This is why servicing of transformers throughout their lifecycle (filling with oil, vacuumizing, purification and regeneration of oil, drying etc) must be performed professionally and to the highest standard.

GlobeCore manufactures a wide range of equipment to

maintain transformers during their entire service life.

## OUR REPRESENTATIVES AND DEALERS



## What GlobeCore Offers

Insulation (paper and oil) damage, contamination and moisture account for approximately 37% of power transformer failures.

The GlobeCore regeneration technologies allow complete restoration of transformer oil to bring its performance to the required quality specifications.

Timely regeneration guarantees reliable protection of paper insulation, extends transformer lifetime and saves on new oil purchases. Beside regeneration systems, this catalogue offers a choice of other equipment for power transformer servicing.















GlobeCore regeneration makes it possible to use transformer oil which previously required disposal, and use the same transformer oil throughout transformer service life without change.

In the regeneration process, the products of aging and acids are removed from the oil; the oil's color is improved, along with oxidation stability and gas solubility.





The UVR units are designed for regeneration and purification of oil and fuel.

The unique feature of the UVR is its capability to process any mineral oil or fuel.

With the GlobeCore UVR regeneration technology, the unit can be set to process any type of oil or fluid. Switching from one type of processed fluid to another does not require changing the design of the unit.

The UVR unit purifies and clarifies darkened diesel and furnace fuel, removing sulfur and sulfuric hydrogen compounds, easily clarifies gas condensate, removing tar and contamination, bringing the fuel to a high standard of purity and removing unpleasant odors, such as hydrogen sulfide etc.

After regeneration, purification and clarification, the processed oil products remain stable and do not darken.

The regeneration units successfully process transformer, turbine and industrial oil, furnace and diesel fuel at dozens of facilities around the world.

The unit can be operated at any location, does not require special placement, is easy to transport and virtually noiseless.

A special type of sorbent is used in the unit, combining low cost and high efficiency.

**UVR** 



restoration

Exclusive



any mineral oil





consumption



The unit is designed for reactivation of sorbent (Fuller's earth, bleaching clay), used in regeneration columns of oil reactivation systems.

After reactivation, the sorbent can be reused for oil regeneration.

Pe	Value	
Capacity, kg/20 hours	3	480
Sorbent reactivation ti	me, hours	20
Max power consump	18	
Total electric power co	70	
Power voltage	_	Customizable
	length	2800
Dimensions, mm	width	2150
_	height	2150
Weight, kg		2200

CMM-RP











The UVM unit is designed for removal of solved gases, free and solved water and particulate matter from oil, as well as for heating transformer oil before filling power transformers and other electrical systems.

The UVM units are used during installation and repairs of power transformers.

The UVM is a comprehensive solution for transformer manufacturers and servicing facilities.

	Parameter		Value	
			UVM -4/7	UVM -6/7
		Degassing mode, m³/hour	4	6
	Capacity	Heating and filtration mode, m³/hour	7	7
	Oil heater power, kW		50	100
	Max power consumpti	65	115	
	Power supply paramet	Fully customizable		
		Length without trailer /	2100	2100
		with trailer	3250	3250
	Dimensions,	Width without trailer /	1250	1250
	max, mm	with trailer	1840	1840
	•	Height without trailer /	1500	1500
		with trailer	1940	1940
	Weight, kg, without trailer /		800	900
	with trailer		1300	1400

protection maneuverability



degassing and dehydration



better rough road mobility



vacuumizing



protection

## Thermal and Vacuum Degassing Units



The secret of the high efficiency of GlobeCore units are activators which promote near-instant release of gases and evaporation of water from oil.

The UVM units are equipped with a special oil heater which prevents oil burning due to low mean surface power and prevents oil overheating after the machine is stopped.

Beside being highly reliable, the machines are compact and highly mobile.

Value Parameter UVM-10A UVM-15A Degassing mode, m³/hour 10 15 Heating and filtration mode, Capacity 15 15 m³/hour Oil heater power, kW 150 200 Max power consumption, kW 185 235 Power supply parameters Fully customizable Length without trailer / 2800 2800 with trailer 4365 4365 Width without trailer / 1495 1495 Dimensions, with trailer max, mm 1950 1950 Height without trailer / 1600 1600 with trailer 2300 2300 2100 2300 Weight, kg, without trailer / with trailer 3300 3500

protection



degassing and dehydration maneuverability



better rough road mobility



vacuumizing



protection

GlobeCore has offices in the USA, the UAE and the South African Republic. Customer support is offered by 17 dealer representatives around the world.

GlobeCore also manufactures equipment for operation on ships and maritime vessels, off-shore drilling rigs and wind farms.

GlobeCore has manufactured over 2500 units, now successfully operated the world.



# OIL FILTRATION TRAILER

## OIL FILTRATION TRAILER

This system includes all transformer servicing components:

- 1 Oil degassing;
- 2 Pumping, filtration, heating;
- 3 Pulling vacuum;
- 4 Transformer winding dehydration;
- 5 Low temperature condensation of water from a transformer;
- 6 Supply of hot air to a transformer.







Parameter		
Max oil degassing rate	e, l/h	11000
Max oil temperature, °	C	95
Nominal output pressure, bar		
Input oil heater power, kW		
Max power, kW		
Nominal vacuum system suction rate, m³/hour		
Power supply		
	length	16500
Dimensions, mm	width	2500
	height	4000



## Thermal and Vacuum Degassing Units







filtration



high maneuverability



high dielectric strength



oil overheating protection





CMM - 0,6

The CMM units are designed for removal of water and particulate matter from electrical insulation and lubrication oils.

The CMM units are used during installation and repairs of power transformers and for washing and filling of hydraulic systems.

The CMM units feature simple design, making them easy to

operate and service.

Beside being highly reliable, the units are compact and highly mobile.

		<u> </u>	Î Value			
	Parameter	CMM - 0,4/0,6		CMM-2D	CMM-4D	
Capacity in dehyd	ration mode, m³/hour	0,4/0,6	1	2	4	
Oil heater power, k	W	10	22	50	50	
Max power consun	nption, kW	12,5	25	57	57	
Moisture content, g	3/t (ppm)		1	0		
Dielectric strength o	after processing, kW		>	65		
Nominal filtration fineness, $\mu$ m 5 (optionally – 1		ally – $1 \mu$ m)				
Electric power supp	oly parameters		Fully cust	omizable		
	Length without trailer /	780	1250	2100	2100	
	with trailer		3450	3250	3250	
Dimensions,	Width without trailer /	570	1225	1250	1250	
max, mm	with trailer	3/0	1760	1840	1840	
	Height without trailer /	1510	1490	1500	1500	
	with trailer	1010	1865	1940	1940	
Weight, kg, without	t trailor / with trailor	205/210	750	800	800	
Weigill, kg, Willioui	nalier / will flaller	203/210	1400	1400	1400	
				· ·		





ZP - 260



dielectric

dielectric strength after processing



filtration



ration competit

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competitive
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Sorbent cartridges are used to dry oil with zeolite. The sorbent cartridge unit is equipped with hatches for rapid loading and unloading of the sorbent. The unit can be filled not only with zeolite, but also with other sorbents, such as Fuller's earth or silica gel. This allows the unit to be used for reduction of oil acidity and oil regeneration.

Parameter		Value	
Throughput, m³/hour		4	
Total volume of vesse	ls, liters	260	
ISO 4406 purity class		-/14/12	
Nominal filtration fineness, $\mu$ m		5 (optionally $-1~\mu$ m)	
Manada na nationa na alam		- parallel	
Vessel operation mod	jes	- consecutive	
Max input oil tempero	ature, °C	40	
	length	1100	
Dimensions, mm	width	1000	
	height	2190	
Weight, kg		570	







regeneration



better mobility maneuverability







The BRZ zeolite regeneration units restore performance of zeolite in sorbent cartridges, such as ZP-260.

With a stream of hot air, moisture is removed from the sorbent,

restoring its absorption properties.

BRPS is a modified version of the BRZ with a steam generator. The steam purges the sorbent and removes dust from zeolite.

The unit is designed for the power industry and any facility which uses zeolite to dry electrical insulation or lubrication oil.

Parameter		Value	
	raiameiei		BRPS
Oil heater power, kW		10	),8
Zeolite drying	Air blower capacity, m³/hour	14	40
mode parameters	Hot air temperature	250	
Vacuum mode	Evacuation rate, liter/sec	6,6	
parameters	Residual pressure, mbar	250	
Nominal power, kW		13,2 16,2	
Electric power supply	parameters	Fully customizable	
	length	1100	1100
Dimensions, mm	width	650	650
	height	1250	1250
Weight, kg		220	250

## **CFU Oil Filtration Units**





stability



high maneuverability





100 μm 40 μm  $25 \mu m$  $5 \mu m$ 



The CFU units are designed for filtration of lubrication and electrical insulation oils.

The units are used for filling and cleaning of gearboxes, hydraulic systems, transformers and in other areas where filtration is required. These units are equipped with universal filter casings. Required filtration fineness can be specified by the customer.

Parameter		Value			
. '	alameter	CFU-1	CFU-2	CFU-4	
Capacity, m <sup>3</sup> /hour		1	2	4	
Nominal filtration finen	ess, μm	5 (optionally $-1 \mu m$ )			
ISO 4406 purity class		-/14/12			
Power consumption, max, kW		0,75	1,1	1,5	
Oil output pressure, bo	ar		5		
Electric power supply p	parameters		Fully customizable		
	length		580		
Dimensions, mm	width	560			
	height	1115			
Weight, kg		70	80	90	

## UVD Vacuum Oil Filling Unit







dielectric strength after processing



high maneuverability



wheels for better mobility



transformer vacuumizing



The UVD vacuum oil filling unit is designed for preparation (degassing), storage, transportation and adding transformer oil into high voltage inputs of transformers and switches.

Parameter		Value
Amount of prepared of	oil, liters	30
Amount of oil in the ta	nk, liters	4
Residual pressure in degassing section, mbar		250
Oil supply pressure, bar		4
Max power consumption, kW		0,25
Max input oil tempero	nture, °C	Fully customizable
	length	900
Dimensions, mm	width	780
	height	1500
Weight, kg		80





PPM-70





application design





The PPM continuous oil heater is designed for heating of transformer oil during filling or change of the oil and drying of transformers. The unit can heat mineral, industrial, turbine and other oil types.

The unit can be used in transformer manufacturing and servicing facilities, power plants and oil processing facilities.

Parameter		Value			
·	I GITTETET	PPM-18	PPM-50	PPM-70	
Capacity with input line pressure 2 bar, m <sup>3</sup> /hour, max		2,2	4	4	
Output pressure, bar		6	4	2,5	
Max power consumption, kW		19,5	56	74	
Electric power supply	parameters	Fully customizable			
	length	800	1180	1220	
Dimensions, mm	width	660	800	820	
	height	1830	1870	1900	
Weight, kg		180	400	500	





BV-2000



vacuumizing



protection



consumption



quiet operation



winding dehydration

This GlobeCore vacuum unit is designed for pulling vacuum on transformers and other electrical systems.

The BV vacuum unit is a double stage vacuum system. The first stage creates preliminary vacuum up to 0.5 mbar. It is equipped with a rotary vane vacuum pump. The second stage brings vacuum to 0.01 mbar. This stage is equipped with a Roots vacuum blower.

Почточа			Value			
Paran	Parameter		BV-280	BV-500	BV-1000	BV-2000
Rate of evacuation, m	Rate of evacuation, m³/hour		280	500	1000	2000
Highest vacuum, mbar		0,01				
Power supply parameters		Fully customizable				
	length	950	950	1200	1400	1500
Dimensions, mm	width	660	660	890	955	1000
	height	1330	1330	1400	1400	1610
Weight, kg		300	300	650	750	1300



UVV







consumption



windings

The vacuum cold trap units are designed for vacuumizing and drying of transformer solid insulation.

Due to the unique design, these units can achieve temperatures as low as -70°C. With such temperatures, the moisture from transformer windings condenses in the unit, improving efficiency of transformer drying.

The machine is available is a separate unit (UH-70), which can be used with BV transformer vacuum units, or as a UVV unit with a built-in vacuum system.

Parameter		Value		
	raidifielei	UH-70	UVV	
Air evacuation rate, m	³/hour		2000	
Temperature of water v	vapor condensation surface, °C	-7	0	
Residual solid insulatio	n moisture content achieved, %	1,0		
Cold capacity, W		600		
Condensation surface	area, m²	6,1		
De-frosting system pov	sting system power consumption, kW 2,1		,1	
Nominal power, kW		3,5 21		
Electric power supply p	parameters	Fully customizable		
	length	1700	1550	
Dimensions, mm	width	1600	1350	
	height	1950	1850	
Weight, kg 650 1.		1500		

















The Mohave Heat is designed for purging of transformer tanks and electrical systems with hot dry air to prevent moisturizing of windings during transformer

servicing or assembly.

Air is dried by a synthetic sorbent. The Mohave Heat unit can regenerate the sorbent multiple times, eliminating the costs of unit maintenance and refills.

Parameter		, Value	
		Mohave Heat 0,7	Mohave Heat 4
Dry air capacity, m³/hour		100	150
Dry air dew point, °C		- 50	
Dry air pressure, bar		0,18	0,25
Max dry air temperature, °C		90±15	90±15
Adsorbent load, kg		190	
Number of adsorbent cartridges		1	2
Zeolite regeneration temperature, °C		430	
Air heater power, kW		24	
Power consumption, kW	Air drying (nominal operation)	1	5,5
	Regeneration of adsorbent in one cartridge	25	30
	Regeneration of adsorbent in two cartridges	-	55
Electric power supply parameters		Fully customizable	
Output air temperature for regeneration of adsorbent in external equipment, °C		430	
Dimensions, mm	length	1350	1500
	width	800	1200
	height	1700	2100
Weight, kg		550	1050





The UDM-1 oil filling unit is designed for pumping, storage, transportation and supplying transformer oil. Oil can be supplied from the unit by manually or electrically driven pumps the unit is equipped with.

P	Value	
Tank volume, liters	1000	
Electric pump capacit	1	
Manual pump capacity, m³/hour		1,8
Nominal power, kW	1,1	
Electric power supply parameters		Fully customizable
Dimensions, mm	length	3575
	width	1805
	height	1705
Weight, kg	850	

ODIVI



custom application design



large wheels for better rough road mobility



sbility

high maneuverability

# Options for the Oil Processing Units



Timely regeneration of transformer oil extends power transformer life by at least 20 years.

