

HIGH VACUUM DEGASSIFIER CMM-10.0

Oil degassing, drying and filtration mode – 10000 L/H
Oil heating and filtration mode – 15000 L/H



Dehydration, degassing and filtration of oil
Drying of transformer with simultaneous treatment of the oil
Evacuation of transformer

APPLICATION

High vacuum systems serve for degassing, dehydration and filtration of transformer oils for removal of gases, free and soluble water and particulate matter. The system is applied while installation, repair and operating of oil-filled high voltage equipment up to 1150 kV (power transformers, high-voltage switches etc.).

Contamination of electrical transformers with solids, liquids and gases during manufacture and operation is unavoidable. Costs of disposal or changing of insulating oils are frequently very high and need a significant investment. Our equipment offers a practical, proven and economical method to purify the oil and use it again for high voltage equipment.

Thermally accelerated Vacuum Dehydration and Degassing of Transformer Oil has gained wide acceptance as the most economical method for the removal of dissolved water and gases. On-Site Transformer Oil Purification is the most profitable as not only does it purify the oil within the transformer, but it actively regenerates the Transformer by removing impurities which buildup within the transformer.

As option can be mounted on 2-axle trailer



TECHNICAL PARAMETERS

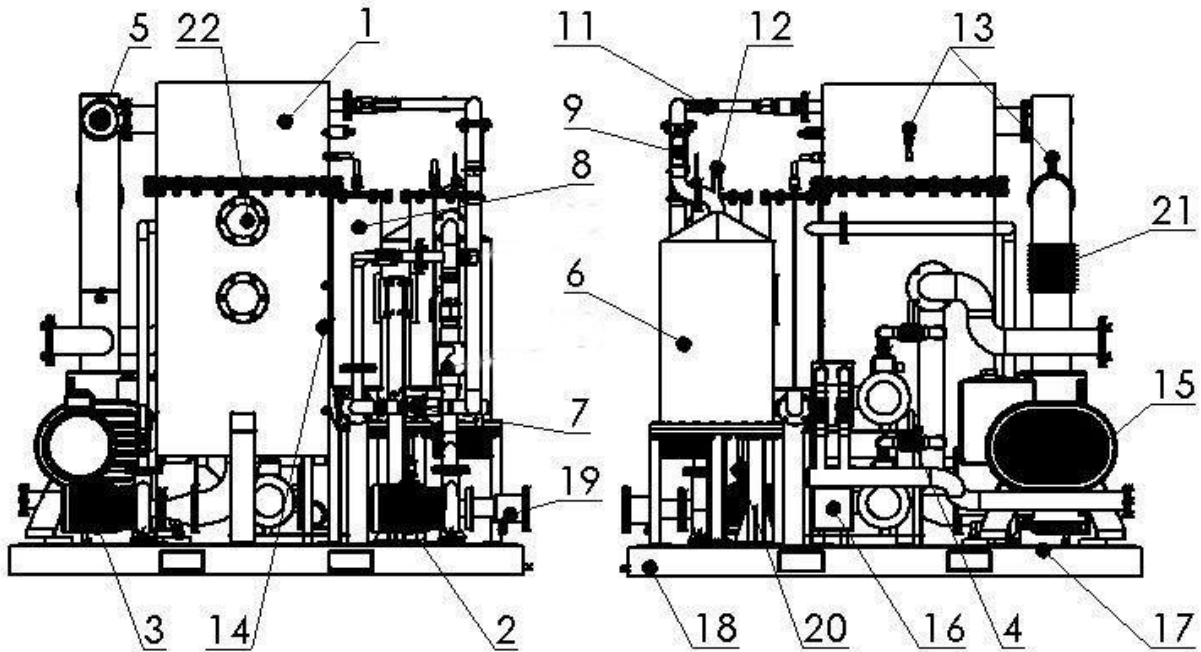
N ^o	ITEM	VALUE
1	Capacity , l/h - degasification, dehydration, and filtration mode - heating and filtration mode	10000 15000
2	Maximum oil temperature when heating and filtration, C ^o	90
3	Maximum oil temperature when drying and degassing, C ^o	65
4	Pressure of oil in the outlet, bar	3
5	Head of oil delivery related to outlet of the plant, m	35
6	Oil heater capacity, kW	150
7	Vacuum value in vacuum chamber when degassing, mbar	1
8	Set power consumption, kW	180
9*	Supply voltage, 3 phase, AC, 50 Hz, V	400
10	Dimensions, mm - length - width - height	2700 2150 2100
11	Weight, kg	2700

***Power supply parameter as per clients' requirement**

GUARANTEED OIL PARAMETERS ACHIEVED WITH THE PLANT AFTER 1 PASS

Oil parameter	Unit	Test method	Before treatment	After treatment
Dissolved Gas Content	%	ASTM D-2945-71	≥ 12%	≤ 0,1 %
Water content	ppm	ASTM D-1744-64	≥ 100	≤ 5
Dielectric strenght	kV	IEC 60156	≤ 20 kV	≥ 60 kV

MAIN COMPONENT PARTS



- 1** - Vacuum column
- 2** - Inlet pump
- 3** - Outlet pump
- 4** - Ball valve
- 5** - Vacuum valve
- 6** - Oil heater
- 7** - Return valve
- 8** - Pre-filter
- 9** - Flow relay
- 11** - Temperature measuring sensor
- 12** - Thermostat
- 13** - Vacuum gauge
- 14** - Level sensor
- 15** - Roots vacuum pump
- 16** - Fore vacuum pumps block
- 17** - Base frame
- 18** - Platform
- 19** - Mesh filter
- 20** - Drain valve
- 21** - Sylphon valve
- 22** - Sight glass

MODES OF OPERATION

The unit can be operated in the following modes:

- Oil pumping
- Oil heating and filtration
- Oil degassing and dehydration
- Transformer evacuation

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