

Vacuum Pump Unit For Drying Transformers



Application:

VPS Double Stages Vacuum Pump System is widely used in various types of large-scale transformer installation and maintenance for high-efficiency vacuum drying and vacuum oiling. Quick air pumping, energy consumption, LCD display, mobile and flexible features. The leakage rate of the unit is less than 1%, the vacuum system is equipped with anti-oil-back device and phase sequence automatic commutation system to prevent the vacuum pump from reversing.

VPS Vacuum Pump Unit adopts air-cooled rotary vane vacuum pump and roots pump, working vacuum is 50Pa and max working vacuum up to 10 Pa in the running, the ultimate vacuum is 1-3Pa. It has features of quick start, high pumping speed, stable performance, easy to operate.

Features

1. Applying for vacuum drying and vacuum measurement of transformers, tap changers, auxiliary switches and other electrical equipment
2. Cooling type: natural air-cooled. The vacuum pump exhaust port is provided with device for condensing and collecting moisture.
3. The control system has the perfect protection and alarm functions with phase sequence, phase, overvoltage, under-voltage, leakage detection and protection of all faults are the corresponding warning light prompt.
4. Automatic control function, the roots pump automatically starts.
5. Vacuum pump with self-check valve, vacuum pump interlock, in the power outage or vacuum pump stop automatically closed when the check valve, in addition to insurance in the exhaust port is also equipped with a vacuum solenoid valve, the vacuum or vacuum pump stop solenoid valve closed , To prevent any situation when the reverse vacuum pump oil into the GIS chamber, theoretically put an end to a major accident.
6. Digital vacuum gauge are installed in the back of the total valve to facilitate the detection of the vacuum transformer.
7. Rotary vane pump and Roots pump separation of water vapor and light oil for cooling, collection and emissions, to protect the vacuum pump oil from pollution, enhance the pumping capacity of the vacuum pump to improve the working vacuum.



Technical Specification

Model	VPS-70	VPS-150	VPS-300	VPS-600	VPS-1200
Capacity (L/s)	70	150	300	600	1200
Ultimate vacuum	≤ 0.5 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