

Vacuum Impregnation System

MODEL: VI-100



HINDHIVAC Vacuum Impregnation Systems are designed to impregnate electrical winding of transformers, motors & coils of various other electrical items for improving their insulation value and their quality. The Impregnation chamber is a vacuum sealed vessel made of mild steel with an internal dia of 500 mm and depth of 650 mm with both top and bottom as dished ends. The top dished end is detachable for loading and unloading of the components meant for impregnation. This has a viewing window, air admittance valve, vacuum dial gauges and a light port. The top lid can be moved in and swivelled out with the help of a Davit-arm. The chamber is jacketed filled with oil and inserted with oil immersion heaters of 1 KW each and are immersed in the oil for heating. Glass wool insulation for the oil heating chamber and cladding with sheet metal to minimize heat loss. The Impregnant Tank is also a mild steel fabricated chamber and is housed below the main chamber and is connected to the impregnation chamber with a vacuum tight pipeline. In another type Impregnation tank is kept to the side of the impregnation storage chamber and connected each other through a vacuum tight pipe line. The phosphor bronze ball valve with a stainless steel ball and Teflon seat is used for connecting both the vessel and for driving impregnant into the Impregnation chamber.

A specially designed control unit is located on the front panel of the structure where the main chamber is situated.. The frame designed and fabricated with angular iron structure provides ample space to accommodate accessories and gives large elbow room for easy service and maintenance. This plant is assured to give a vacuum of 0.01m.bar or better under clean empty and thoroughly degassed chamber conditions.

Salient Features:

- Helium Leak Tested
- Reliable Working
- Simple operation
- Efficient Impregnant vapour condensor to protect vacuum pump

TECHNICAL SPECIFICATIONS

Parameters	Model: VI-100
1. Configuration	Vertical
2. Impregnation Chamber Size	500 mm dia x 650 mm H
3. Resin Storage Chamber Size	500 mm dia x 650 mm H
4. Material	Mild steel
5. Heating system	Externally heated oil immersion type heater for impregnation chamber to heat upto 130°C
6. Rotary vacuum pump type & speed	ED-21, 350 Lit/Min.
7. Water cooled condenser	1" size (incorporated between impregnation chamber and vacuum pump)
8. Transfer lines & valves	1" size, manual ball valve (between impregnation chamber and storage chamber)
9. Pressurisation facility	To pressurise impregnate chamber to a pressure of 2.5 bar absolute for effective impregnation of components.
10. Vacuum measurement	Pirani gauge with sensor to read vacuum from .5 to .001 mbar. Bourdon type dial gauge to read 760 mmHg.to 0 mmHg.
11. Ultimate vacuum	1x10 ⁻² mbar in clean, cold, empty degassed chamber
12. Mounting	Two chambers mounted vertically one above the other (two chambers side by side arrangement available - optional
13. Utilities required	
a. Electrical	230V AC, 50Hz, single phase, peak power consumption_6KVA
b. Water	2-3 Lit/min at pressure of 1-2 Kg/cm ² -15 to 20°C

HIND HIGH VACUUM CO. PVT. LTD.

Site No.17, Phase 1, Peenya Industrial Area, Bangalore - 560 058, India. Ph: 080-8394518, 8394615, 8394617, 8394640. Fax: 080-8394874. E.Mail : info@hindhivac.com

SALES OFFICE

Baroda: Ph: 33178, 359039. Fax: 0265-331505. Calcutta: Ph: 4661462, 4649182. Fax: 033-4662830. Chennai: Ph: 4891061. Fax: 044-4891061. Hyderabad: Ph: 3235504, 3234609. Fax: 040-3235504. Mumbai: Ph: 5550003, 5587219. Fax: 022-5563724. New Delhi: Ph: 6282410, 6282411. Fax: 011-6282412. Pune: Ph: 5466095, 5442426. Fax: 020-5466095.