

Vacuum Drying Plant



**CEE DEE
VACUUM EQUIPMENT PVT. LTD.**
AN ISO 9001:2000 CERTIFIED COMPANY

W W W . c e e d e e v a c u u m . n e t



Vacuum Drying Plant

Air Circulation Fan / Blower :

FAN : The fan motors are CEE DEE design, fully enclosed, external seal, free water cooled, low maintenance unit. The RPM of the fan can also be control. Fans provided in the system can be interlocked with doors, temperature, control process and fix time period.

BLOWER : Numbers of blowers are decided or design by CEE DEE specialist. According to the Chamber size, they are mounted externally with ducting properly insulated. They are also interlock with temperatur, door etc. function / operate to its optimum level.



Vacuum System :

The Vacuum system is normally provided with roots rotary combination. Cascading with condenser / oil chilling system, water reserve tank and condenser in-between. Fully programable variable vacuum system can be added as an option to enable the vacuum system to increase and decrease the vacuum level at different point during drying process. The water reserve tank is constructed in stainless steel. The temperature of the same is controlled by thermostat providing the chilling system. On demand, chilling system can be provided with stand by compressed unit.



Oil Storage Tank :

Oil storage tank are divided in two parts.

1) R.O.S.T. (Raw Oil Storage Tank) :

R.O.S.T. is provided with oil indicator, level indicator, centrifugal pump, ball valve. The raw oil to the shop floor is stored before processing. The interconnection pipeline is made in between filter plant and R.O.S.T.

2) P.O.S.T. (Process oil storage tank) :

P.O.S.T. is provided with heating arrangement controlled by thyristor / thermostat. The electric heating is wired equally on three group with continuity to secure to phase failure. Heating systems help the process oil to maintain at particular temperature. Before use, The P.O.S.T. is also connected to vacuum system with condenser in-between. The degassing column provided on the P.O.S.T. helps to store oil free of gas. The pump provided with the P.O.S.T., help to circulate oil through the degassing column on the P.O.S.T.



Oil Filter Machine :

The oil treatment stations work on the principle of high vacuum low temperature . The system is provided with the roots rotary combination. The raw oil from the R.O.S.T. (Raw Oil Storage Tank) is treated / Purified through the system and store in P.O.S.T. (Process Oil Storage Tank)



“ The most essential equipment
for every transformer industry
Being highly essential process

Vacuum drying is the largest investment
and is required to be done precisely
as improper activity may lead to
insulation failure ”

Oil Filling System :

The oil filling in instrument transformer distribution, transformer, power transformer can be achieved under vacuum. Various sensors, oil totaliser can be provided as an accessories to fill oil under vacuum with majored quantity. The sight glass provided on the system help to monitor the status inside the chamber during process.



Control Panel :

"CEE DEE" provides dedicated control panel systems with an option of independent programmer and controller interface to a computer based monitoring package (SCADA). For ease of data input, curve profile generation (Graph), data analysis of curve profiles. Data logger, password protection on different levels (Manager level, Supervisor level, Worker level etc.). Controller can also be provided with web connectivity which help to transmit data to long distance PC, 6 pt. temperature recorder, vacuum recorder, process recorder etc. with colour inkjet print can also be provided on customer demand.



Internal Air Circulation :

The Internal hot air circulation for Drying plant chamber is calculated on internal volume of the system. This is achieved by utilising a tailored fan (blower) and scroll arrangement which directs the air into the heating ducts and over the heating tubes to ensure efficient heat transfer. The airflow is deflected around the internal wall face. To flow over the component to the center of the vessel into the eye of the fan. In a continuous cycle giving a repeatedly moving 3D controlled air flow.

Loading & Handling System :

Vacuum drying plant can be provided with rails fitting accommodate loading trolleys for movement of job. Trolley can be moved automatically / Manually depending on the load and the customer demand.

Heating System :

The electric heating can also be offered by way of thermostat / thyristor control elements arranged. The total heating banks are connected through three independent bus bars to ensure uniformity and continued operation in case of phase failure. The heater bank are mounted around / inside of the vessel placed between the air duct and the internal cladding and insulation. Heating system optionally provided as oil fired / gas fired oil heating systems. The tube is circulated inside the Drying plant equally through which the hot oil is passed. The temperature of hot oil is controlled 120° - 150° C.

Insulation :

The insulation is provided on the outer casing of the system with mineral fibre (glass wool) protection with a cladding of aluminum, galvanised / stainless steel depending on various aspects. such as aesthetic, cost, temperature, environmental condition etc.



Delivery And Installation.

In the main it is CEE DEE's policy to design, manufacture, supply, deliver and commission a "Turnkey" package, to limit third party involvement and therefore the possibility of situation beyond our control. Offering you, the customer the best technical solution and the least inconvenience. Typical vacuum drying plant installations take 4-5 weeks from delivery on site to handover. CEE DEE has its own in-house team of dedicated installation specialist.

Maintenance And Warranty.

The maintenance of our system is managed by Cee Dee Vacuum Equipment Pvt. Ltd., which is a wholly owned subsidiary of its employs an in-house team of expert to cover all aspects of vacuum drying plant service. Cee Dee Vacuum Equipment Pvt. Ltd. supply as standard a one year warranty and can offer, subject to terms and conditions warranties up to five year.

**WE CUSTOMISE, DESIGN & MANUFACTURE WIDE RANGE
OF VACUUM PRESSURE IMPREGNATION PLANT**

Cee Dee's range of product

- ▶ Transformer Oil filtration Plant
- ▶ Vacuum Impregnation Plant
 - Casting • Resin
- ▶ Resin Casting plant
- ▶ Electrostatic oil cleaner (CDOC)
- ▶ Drying Ovens
- ▶ Vacuum Ovens
- ▶ Uni - Vac Oil Dehydration Unit
- ▶ Capacitor Impregnation Plant
- ▶ S16 Gas Purification Plant



Authorised Representative

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