### Transformer Oil Filtration & Dehydration Plant

#### Two Stage

<table>
<thead>
<tr>
<th>Flow Rate Options</th>
<th>LPH</th>
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</thead>
<tbody>
<tr>
<td>3000</td>
<td>4500</td>
<td>6000</td>
<td>8000</td>
<td>10000</td>
<td>12000</td>
<td>15000</td>
<td>18000</td>
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#### Standard Voltage

415V, 50 Hz, 3 Phase 4 Wire. Other voltage options available on request.

### System Performance

- **BDV:** From 20 to > 70 kV
- **Moisture Content:** 100 to < 5 ppm
- **Filtration:** Up to < 1 micron
- **Gas Content:** From 10% to < 0.05%
- **Neutralization Value:** 0.3 to < 0.05 mg of KOH/gm

### Introduction:

High-Vacuum Transformer Oil Filtration & Dehydration Plants are suitable for all types of electrical insulating oils. We have standard high-vacuum filtration and dehydration plants to remove moisture (free as well as dissolved), gases, dirt and oxidation products from mineral-based and synthetic, silicon oils and others. Systems are in flow rates from 300 LPH to 12000 LPH.

Custom built plants can be provided as per customer's specific requirement, such as more flow-rates. These plants work on low temperature, high vacuum principle. Plants mainly consist of heating, filtration and vacuum system. Heating system aids to the filtration and moisture removal. Filtration systems remove suspended particles down to 1 micron such as rust, dirt, scales, colloidal carbon etc. Vacuum Systems remove moisture (emulsified as well as dissolved) down to < 5 ppm depending on the working vacuum of the plant.

### Benefits:

- Lower temperature ensuring lesser running cost
- Space saving due to compact machine sizes
- Lesser transportation charges due to light weight machines

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Technical Data for Two Stage Plants

AR ENGINEERING, SATARA
TOP: TECHNICAL DATA SHEET FOR HIGH VACUUM DOUBLE STAGE DEGASSING SYSTEM WITH ROOTS + (ROOTS-ROTARY) COMBINATION
WORKING VACUUM OF MACHINES: < 0.2 mbar

FLOW-RATE | LPH | 800 | 600 | 1200 | 1800 | 2400 | 3000 | 4500 | 6000 | 8000 | 10000 | 12000
---|---|---|---|---|---|---|---|---|---|---|---|---
INLET kW | 0.37 | 0.37 | 0.37 | 0.75 | 0.75 | 1.1 | 1.5 | 3.7 | 3.7 | 5.5 | 5.5 | 5.5
OUTLET kW | 0.37 | 0.37 | 0.75 | 0.75 | 0.75 | 2.2 | 3.7 | 3.7 | 5.5 | 7.5 | 7.5 | 7.5
VACUUM-1 kW | 0.37 | 0.37 | 0.75 | 0.75 | 0.75 | 0.55 | 1.1 | 1.5 | 2.2 | 3.7 | 3.7 | 3.7
VACUUM-2 kW | 0.75 | 0.75 | 0.75 | 2.2 | 2.2 | 1.5 | 2.2 | 3.7 | 3.7 | 5.5 | 5.5 | 5.5
BOOSTER kW | - | - | - | - | - | - | - | - | - | - | - | -

HEATER POWER kW

GROUP-1 kW | 6 | 9 | 9 | 27 | 27 | 27 | 36 | 36 | 36 | 36 | 36 | 36
GROUP-2 kW | - | - | 18 | 18 | 27 | 24 | 36 | 36 | 36 | 36 | 36 | 36
GROUP-3 kW | - | - | - | - | - | - | 24 | 24 | 24 | 24 | 24 | 24
GROUP-4 kW | - | - | - | - | - | - | - | - | 24 | 24 | 24 | 24
GROUP-5 kW | - | - | - | - | - | - | - | - | - | 24 | 24 | 24
GROUP-6 kW | - | - | - | - | - | - | - | - | - | - | - | -
TOTAL POWER kW | 7.86 | 10.86 | 25.62 | 45.45 | 49.45 | 60.85 | 94 | 122.1 | 150.8 | 181.9 | 181.9 | 181.9

FULL LOAD CURRENT A

VACUUM PUMP-1 CAPACITY m³/hr 180 lpm 180 lpm 300 lpm 30 30 30 60 100 200
VACUUM PUMP-2 CAPACITY m³/hr 300 lpm 300 lpm 600 lpm 60 65 65 100 200 300
BOOSTER PUMP CAPACITY m³/hr - - - - - 250 500 500 1000 1500 1500

FILTER ELEMENTS: 1 micron ø63 x 50L

Note: Data subject to change due to continuous development.

Types of Machine

Open Portable (Castor Mounted)
Enclosed Portable (Castor Mounted)
Enclosed Mobile (Trailer Mounted)
Enclosed Stationery (Vehicle Mounted)

Other Products
- Industrial Oil Purification & Dehydration Unit
- Trickle Varnishing Machine
- Vacuum Pressure Impregnation Plant

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