Transformer Oil Filtration & Dehydration Plant

Single Stage

FLOW RATE OPTIONS
- 300 LPH
- 600 LPH
- 1200 LPH
- 1800 LPH
- 2400 LPH
- 3000 LPH
- 4500 LPH
- 6000 LPH

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

FEATURES:
- Low Operating Cost
- Easy & Minimum Maintenance
- Tailor maid machines as per Customer requirements

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
## Technical Data for Single Stage Plants

**AR ENGINEERING, SATARA**

**TOP: TECHNICAL DATA SHEET FOR SINGLE STAGE DEGASSING SYSTEM**

**WORKING VACUUM OF MACHINES: < 1 mbar**

<table>
<thead>
<tr>
<th>FLOW-RATE</th>
<th>300</th>
<th>600</th>
<th>1200</th>
<th>1800</th>
<th>2400</th>
<th>3000</th>
<th>4500</th>
<th>6000</th>
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<tbody>
<tr>
<td>MOTOR</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>INLET</td>
<td>kW</td>
<td>0.37</td>
<td>0.37</td>
<td>0.37</td>
<td>0.75</td>
<td>0.75</td>
<td>1.1</td>
<td>1.5</td>
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<tr>
<td>OUTLET</td>
<td>kW</td>
<td>0.37</td>
<td>0.37</td>
<td>0.75</td>
<td>0.75</td>
<td>0.75</td>
<td>2.2</td>
<td>3.7</td>
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<tr>
<td>VACUUM</td>
<td>kW</td>
<td>0.37</td>
<td>0.37</td>
<td>0.55</td>
<td>1.1</td>
<td>1.1</td>
<td>2.2</td>
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<tr>
<td>HEATER POWER</td>
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<tr>
<td>GROUP-1</td>
<td>kW</td>
<td>3</td>
<td>6</td>
<td>18</td>
<td>9</td>
<td>18</td>
<td>18</td>
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<td>GROUP-2</td>
<td>kW</td>
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<td>-</td>
<td>-</td>
<td>18</td>
<td>18</td>
<td>18</td>
<td>27</td>
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<td>GROUP-3</td>
<td>kW</td>
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<td>GROUP-4</td>
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<tr>
<td>GROUP-5</td>
<td>kW</td>
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<tr>
<td>TOTAL POWER</td>
<td>kW</td>
<td>4.11</td>
<td>7.11</td>
<td>19.67</td>
<td>29.6</td>
<td>38.6</td>
<td>50.5</td>
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<tr>
<td>FULL LOAD CURRENT</td>
<td>A</td>
<td>7.5</td>
<td>11.85</td>
<td>30.35</td>
<td>45.25</td>
<td>58.3</td>
<td>78.15</td>
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<tr>
<td>VACUUM PUMP CAPACITY</td>
<td>m³/hr</td>
<td>1.80 lpm</td>
<td>1.80 lpm</td>
<td>20</td>
<td>30</td>
<td>60-65</td>
<td>100</td>
<td>100</td>
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<tr>
<td>FILTER ELEMENTS: 1 micron</td>
<td>φ63 x 500L</td>
<td>0.5</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>4</td>
<td>7</td>
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</tbody>
</table>

**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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