



## SPECIFICATIONS

as per IS 6034:1989

### 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

### AR ENGINEERING

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## Transformer Oil Filtration & Dehydration Plant

### Single Stage



### 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



# WE HELP TO CONSERVE OIL



## Technical Data for Single Stage Plants

### AR ENGINEERING, SATARA

TOFP: TECHNICAL DATA SHEET FOR SINGLE STAGE DEGASSING SYSTEM

WORKING VACUUM OF MACHINES: < 1 mbar

FLOW-RATE		LPH	300	600	1200	1800	2400	3000	4500	6000
MOTORS	INLET	kW	0.37	0.37	0.37	0.75	0.75	1.1	1.5	3.7
	OUTLET	kW	0.37	0.37	0.75	0.75	0.75	2.2	3.7	3.7
	VACUUM	kW	0.37	0.37	0.55	1.1	1.1	2.2	2.2	2.2
HEATER POWER	GROUP-1	kW	3	6	18	9	18	18	36	36
	GROUP-2	kW	-	-	-	18	18	27	36	24
	GROUP-3	kW	-	-	-	-	-	-	-	24
	GROUP-4	kW	-	-	-	-	-	-	-	-
	GROUP-5	kW	-	-	-	-	-	-	-	-
TOTAL POWER		kW	4.11	7.11	19.67	29.6	38.6	50.5	79.4	93.6
FULL LOAD CURRENT		A	7.5	11.85	30.35	45.25	58.3	78.15	121.1	143
VACUUM PUMP CAPACITY		m <sup>3</sup> /hr	180 lpm	180 lpm	20	30	30	60-65	100	100
FILTER ELEMENTS: 1 micron		φ63 x 500L	0.5	1	2	3	4	4	7	10

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)**

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### Other Products

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

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