

PON-E[®]
INDIA

Pon OilCare

Taking Care of Industrial Machinery & Equipments



Pon OilCare System

We are Manufacturing Electrostatic Oil Cleaners and Vacuum Dehydration Machines.

Electrostatic Oil Cleaners

Impurities In Machine Oils & Fluids:

The oils and fluids used in machines pick up minute solid contaminants during working. Actually oil molecules and additives break down chemically due to aging, pressure, temperature, moisture etc., and get oxidised to form polar compounds. These compounds combine together to form an insoluble sediment which is termed as vanish/tar. Most machine malfunctions are due to this contaminants which stick on to the active surfaces of the machine, increasing abrasion and reducing lubrication.

Working Principle:

Our range of oil cleaning systems work on the principle of electrostatic. The oil is circulated through the special electrostatic cell provided in the machine. This cell induces electrostatic charge on suspended solid contaminants in oil/ fluids. These charged suspended particles moves under electric field and deposits on dielectric media provided in the cell.

Applications:

Pon OilCare cleaning machine can be used for hydraulic , lubricating oils and synthetic fluids which are non conductive and have less than 500PPM moisture.



Pon OilCare System - PON25



Pon OilCare System - PON50



Pon OilCare System - PON100

ADVANTAGES

- Reduce machine down time
- Machine Can be put on line
- Removes both polar, non-polar & neutral particles
- Filtration efficiency is down to 0.01 micron
- Reduce environmental liabilities
- Prevents sticking or friction of moving parts such as servo/directional valves
- Increases heat transfer efficiency in heat exchangers by reducing deposits
- No clogging & pressure losses as in mechanical filtration
- Increases oil life and reduces maintenance

SPECIAL FEATURES

Works on 230V single / 440V three phase

Maximum power consumption: 250W

Micro-controller based system with LCD display consisting of:

- Fault indication
- Oil temperature
- High voltage applied
- Current flow (mA)
- Running Hrs

TECHNICAL SPECIFICATIONS

| MODEL | DIMENSION (Approx.) | WEIGHT | PUMP FLOW RATE | POWER CONSUMPTION | INPUT POWER SUPPLY |
|--------|------------------------------|---------|----------------|-------------------|---|
| PON25 | 850(L) x 520(W) x 900(H) mm | 120 kg. | 3-5 LPM | 250 W | 3 Phase 440 V/ Single phase 220 V at 50 Hz. |
| PON50 | 850(L) x 520(W) x 950(H) mm | 140 kg. | 12 LPM | 250 W | 3 Phase 440 V/ Single phase 220 V at 50 Hz. |
| PON100 | 1050(L) x 600(W) x 950(H) mm | 200 kg. | 12 LPM | 550 W | 3 Phase 440 V/ Single phase 220 V at 50 Hz. |

END USERS

- Plastic Machinery
- Construction Machinery
- Hydraulic Press
- Aviation
- Mining Machinery
- Transmission Equipments
- Machine Tools
- Automobile Industry
- Power Press
- Steel Industries
- Sugar Mill
- Turbine Oil In Hydro Power Plants
- Instrumentation & Refrigeration
- Earth Moving Equipmetns
- Aluminum Extrusion Plant
- Plywood Hot Press
- Servo Valve Controlled Hydraulic System
- Leather Processing.

SELECTION GUIDELINES

Selection is based on Volume & Viscosity of Oil

| MODEL | Max. Volume in Litres | | | |
|---------|-----------------------|--------------|--------------|-------------|
| | Viscosity | | | |
| | 32 CST | 46 CST | 68 CST | 100 CST |
| PON 25 | 6200 Litres | 4500 Litres | 2900 Litres | 1600 Litres |
| PON 50 | 15000 Litres | 8600 Litres | 5800 Litres | 3200 Litres |
| PON 100 | 35000 Litres | 25000 Litres | 10500 Litres | 8000 Litres |

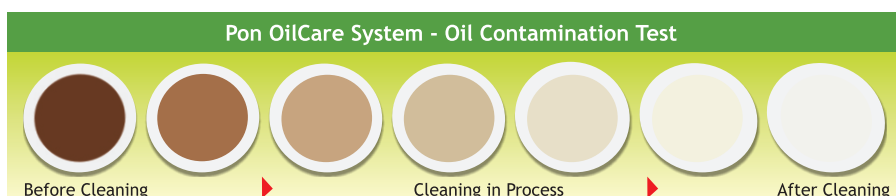
*This Selection is for general Hydraulic Machines, Actual Selection may vary according to specific applications



Pon OilCare Oil Filtration Service

Pon Oilcare engineers will come on-site and quickly get your oil back to normal operating levels and provide you with the most advanced on-site analysis report in the industry

Test Kit



Pon OilCare Vacuum Dehydration System



PODS 50

Fully automatic dehydration unit heats oil before injecting it into vacuum chambers. It extracts free and dissolved moisture, air and gases from the oil. Vacuum dehydration unit incorporates electrically operated vacuum pump, which is oil filled as well as double or single stage.

The dehydration unit is mobile trolley mounted, compact and user friendly. It is used for dehydrating hydraulic oil, lubricating oil, engine oil, transmission oil, engine flushing oil, gear box oil, etc.

TECHNICAL SPECIFICATIONS

| MODEL - PODS50 | |
|----------------|--|
| Dimension | 900(L) x 500(W) x 1550(H) mm |
| Weight | 150 kg. |
| Vacuum Pump | Vacuum pump with FAD 100 ltrs. /min. |
| Oil Flow(max) | 10-12 LPM under vacuum conditions |
| Performance | Oil down to self saturation limit(200-300 PPM) |

END USERS

- Diesel, hydel and thermal power plants
- Low & High pressure diecasting machines
- Injection & blow moulding machines
- Precision machines tools
- Hot and cold rolling mills
- Machine lubrication systems
- Heavy duty earth moving / mining equipments & power transmission systems

ADVANTAGES

- Avoids oxidation and extends oil change and Avoids wear of machine components due to poor lubrication of moisture adulterated oil
- Maintain load bearing capacity of oil by keeping it free from moisture, air and gases
- Removes traces of moisture, dissolved air and entrapped gasses from the oil
- Indirect and controlled heating of oil
- Unattended continuous operation after initial start-up till completion of process.
- Offline cleaning ensures uninterrupted manufacturing process

Note: Specifications are subject to change without prior notice due to continuous improvement in product research and development

PON-E®
INDIA

PON OILCARE INDUSTRIES

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