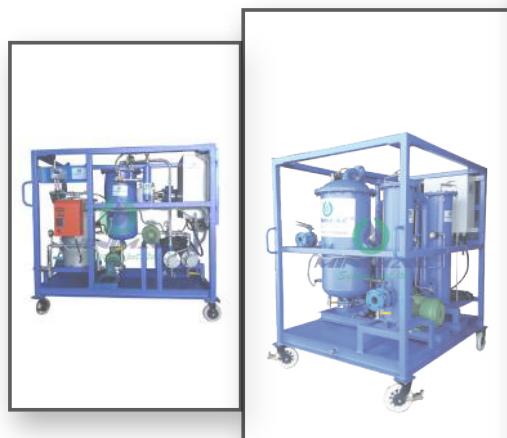
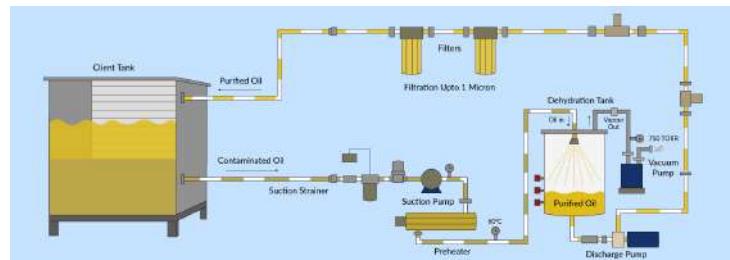
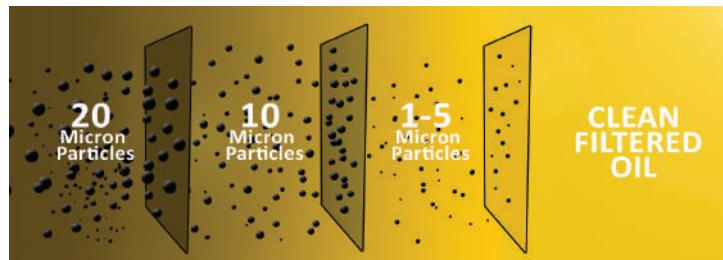


Oil Dehydration System

Minimac MLC-LVDH oil purification systems are high-end technology machines popularly used for filtration (fine solid particle removal) and dehydration (moisture removal) of lubricating and hydraulic oils. MLC-LVDH series machines are externally attached, independently operating by-pass oil purifying machines.

Technology: Stagewise Mechanical Filtration and low vacuum dehydration



MLC-LVDH-ELC



MLC-LVDH-100



MLC-LVDH-10-FP



MLC-LVDH-40-FRP

MLC-LVDH-10

[Watch Video](#)

[Product Details](#)

[Read Article](#)



Minimac Systems Pvt. Ltd.

GST No: 27AAICM4730E1ZL

📞 +91 70309 01267 📞 +91 70309 01266 📞 +91 90110 63946

✉ info@minimac.in 🌐 www.minimacsystems.com

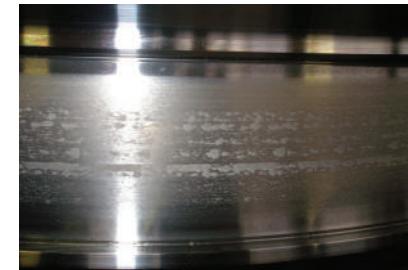
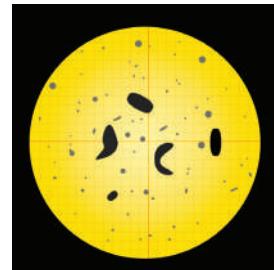
Gat No. : 448/15 Success Industrial Park Nighoje, Taluka - Khed Chakan Pune - 410501 Maharashtra, India

Why Oil Purification Important

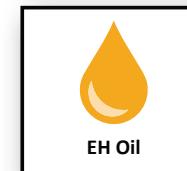
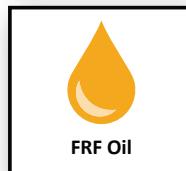
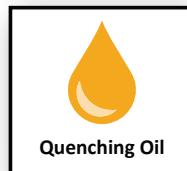
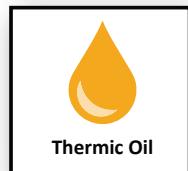
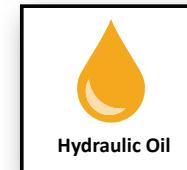
A lubrication system generates metallic wear particles (of < 5-micron size) during its operations.

Metallic wear particles are highly abrasive in nature. Increase of wear particles is highly damaging to machine components. Wear particles typically cause 50% of all failures. These multiply due to wear and tear on the surfaces of machine components. The most harmful particles are trapped in the dynamic tolerance, like bearings.

Another critical issue is the presence of free, emulsified, and dissolved water in lube oils which is detrimental to the overall performance of the lubricating system. This causes Oil oxidation and breakdown, Sludge formation, Seal Deterioration and leakages, Metal etching through Corrosion, etc.



Types of fluid which can be cleaned



Nomenclature - Model No. MLC LVDH

T1
T2
T3
T4

| T1 | Pump Flow Rate (LPM) | Filtration Capacity (LPM) |
|---------|----------------------|---------------------------|
| 10 LPM | 10 LPM | 10 LPM |
| 20 LPM | 20 LPM | 20 LPM |
| 40 LPM | 40 LPM | 40 LPM |
| 60 LPM | 60 LPM | 60 LPM |
| 80 LPM | 80 LPM | 80 LPM |
| 100 LPM | 100 LPM | 100 LPM |
| 150 LPM | 150 LPM | 150 LPM |
| 200 LPM | 200 LPM | 200 LPM |

| T3 | Fluid Type |
|-----|---|
| H | Hydraulic Oil & Lube Oil (upto 220 cSt) |
| G | Gear Oil (320 cSt & above) |
| FRF | Synthetic Fluid - FRF (Phosphate Ester) |

| T4 | Filter Clogging Indications |
|----|-----------------------------|
| V | 1 stage filtration |
| E | Electrical Indication |

| T2 | No. of Filtration Stages Present |
|----|----------------------------------|
| 1S | 1 stage filtration |
| 2S | 2 stage filtration |
| 3S | 3 stage filtration |

For customizations please contact Minimac® Sales Representative.

All specifications and configurations are indicative and should be verified with Minimac® Sales Office prior to ordering

Minimac Systems Pvt. Ltd.

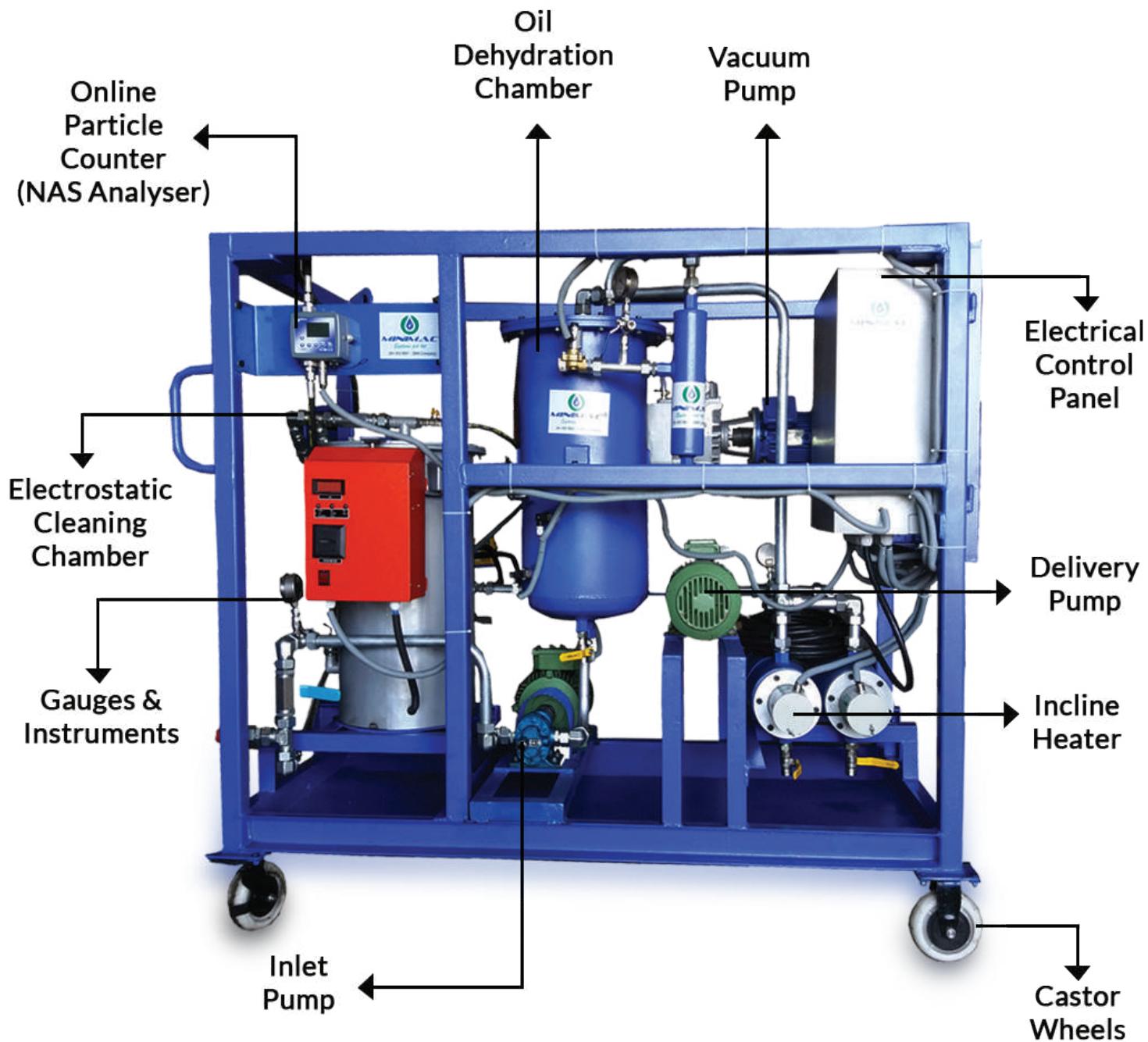
GST No: 27AAICM4730E1ZL

☎ +91 70309 01267 ☎ +91 70309 01266 ☎ +91 90110 63946

✉ info@minimac.in 🌐 www.minimacsystems.com

Gat No.: 448/15 Success Industrial Park Nighoje, Taluka - Khed Chakan Pune - 410501 Maharashtra, India

Features



Minimac Systems Pvt. Ltd.

GST No: 27AAICM4730E1ZL

📞 +91 70309 01267 📞 +91 70309 01266 📞 +91 90110 63946

✉️ info@minimac.in 🌐 www.minimacsystems.com

Gat No. : 448/15 Success Industrial Park Nighoje, Taluka - Khed Chakan Pune - 410501 Maharashtra, India

Specifications

| | |
|--|---|
| Installation Scheme | Trolley Mounted, Portable Machine |
| Working | Online / Offline. Fitted externally to oil reservoir as a by-pass oil purification system |
| Operational Principle | <p>Filtration Principle Moisture Removal Principle</p> <p>Stage Filtration of reducing microns Depth Type filters : The complete volume of the filter serves as a filtration media and provides efficient filtration of dust, metallic particles, sludge, soot etc. Thin Film Evaporation : Removes dissolved, emulsified and free moisture in oil. A very thin film of oil is allowed to spread evenly on fountain like evaporation plate, under a warm and un-saturated air chamber. Moisture in oil exposed to the vacuumized chamber gets converted to vapour form and escapes from the oil film. Low vacuum Dehydration : By creation vacuum pressure in air-tight chamber, the vapour conversion process is boosted in the in stage.</p> |
| Benefits | <p>Filtration Capacity Moisture Removal Capacity Moisture Separated Oil Viscosity handled Oil Types handled Prevents oil oxidation Ensures Higher Oil Life Prevents Valve Failures Prevent Pump Failures Increases bearing life</p> <p>NAS 5-6 Cleanliness Class < 100 PPM moisture level 100% Moisture removal from oil in Dissolved, Emulsified or Free form 0-460 CST; for higher viscosities customized model is to be ordered. Hydraulic, Turbine, Gear, Lube, FRF, EH-Oil By removal of solid particles and moisture in oil By retaining Viscosity, TBN, Flash Point, Additive level etc. Due to removal of sticky sludge Due to removal of micronic particles Due to moisture & sludge free oil</p> |
| Oil Flow Systems | <p>Oil in-take system Oil delivery System Moisture discharge system</p> <p>Gear Type Monobloc Pump Pressurized Diaphragm Type / Vane Type - Vacuum Pump</p> |
| Filters | <p>Suction line Strainer 1st Stage Filter 2nd Stage Filter</p> <p>149-micron mesh (Washable) It can be provided in 3 Stages of filtration in the range of 0 - 100 microns. Customized filtration can be provided as per oil and conditions within range. 10 micron (99.98% efficiency, Beta - 1000) 03 micron (99.98% efficiency, Beta - 1000)</p> |
| Vacuum Chamber Capacity | Customised Vacuum Chamber as per flow rate. |
| Oil & Air Drive Systems | |
| Inlet Pump Details | |
| Type Nominal Flow Rate Operating Pressure Motor Power | Mechanical Gear Pump Same as desired LPM model 0-10 Bar, Max – 10 Bar As per required capacity. |
| Discharge Pump Details | |
| Type Nominal Flow Rate Operating Pressure Motor Power | Mechanical Gear Pump Same as desired LPM model 0-10 Bar, Max – 10 Bar As per required capacity. |

Specifications

| | |
|--|--|
| Pre-heating of oil | Up to 50 LPM - 6 KW, Above 50 LPM - 12 KW, customized heating can also be provided. |
| Vacuum Pump | a. 20 to 60 LPM -215 LPM b. 60 and above 300LPM c. Drive: Direct Driven |
| Operating Vacuum | Up To 760 Mm Of Hg |
| Electrical Controls Dry Run Protection Pre-heater temp control Overload pump protection Supply Protections Anti Flood Protection | Yes Temperature Controller / Thermostat Yes RCCB / ELCB based Double safety, based on level float switch |
| Indications Oil Pressure Suction & Stage Filter Clog Oil Temperature Hour Meter Lamp Indications | 0 - 10 bar Compound Gauge & Differential Pressure Gauge (optional) Thermometer / Digital Display Analogue Phase, Pumps Operation, Heaters Operation, Over-flooding, Low Press. |
| Hose Pipes Suction Pipe Fine Filtration Delivery Pipe | 3 m rubber hose pipe 3 m rubber hose pipe |
| Electrical Cable | 10 M (4 core) |
| Fabrication Structure | MS (powder coated) structure frame Castor Wheels with swivel, bearing and pad brakes |
| Accessories | Online particle counters can be integrated with the machine for continuous condition monitoring of the oil. |

Credentials

| Clients | City | Country | Capacity |
|--|---------------------------|----------------------|------------------------|
| Abdulla Fouad Energy Company (AFESCO) | Dammam | Saudi Arabia | 20 LPM |
| Acron Plast Pvt Ltd : Unit 3 | Nashik | India | 20 LPM |
| Aditya Birla Nuvo Ltd - Unit Indian Rayon | Junagadh | India | 40 LPM |
| Amrit Cement Ltd | East Jaintia Hill | India | 20 LPM |
| Arpan Electricals & Enterprises | Nagpur | India | 150 LPM |
| Aryan Pumps & Enviro Solutions Pvt Ltd | Pune | India | 20 LPM |
| Bharat Petroleum Corporation Ltd - Mumbai Refinery | Mumbai | India | 15 LPM |
| Brahmaputra Cracker And Polymer Ltd | Dibrugarh | India | 40 LPM |
| Coastal Energen Pvt Ltd | Tuticotin | India | 20 LPM |
| Cona Industries | Haridwar | India | 20 LPM |
| Dana India | Pune | India | 100 LPM |
| Darlipali Super Thermal Power Station (NTPC) | Sundargarh | India | 20 LPM |
| DB Power Ltd | Champa | India | 40 LPM |
| Electro Clear Systems | Chennai | India | 50 LPM |
| Emami Paper Mills Ltd | 1)Balasore 2) Kolkata | India | 40 LPM |
| Essar Power Gujarat Ltd | Devbhoomi Dwarka | India | 20 LPM |
| Essar Power MP Ltd | Singrauli | India | 20 LPM |
| Galwaliya Ispat Udyog Pvt Ltd | Udham Singh Nagar | India | 40 LPM |
| GBC Packaging | Mumbai | India | 20 LPM |
| Gimatex Industries Pvt Ltd - Unit Wani | Wardha | India | 20 LPM |
| GKN Sinter Metals Pvt Ltd | Pune | India | 75 LPH |
| GSPC Pipavav Power Company Ltd | Gandhinagar | India | 40 LPM |
| Gujarat Sidhee Cement Ltd (GSCL) | Siddhigram | India | 10 LPM |
| GVK Alaknanda Hydro Power Company Ltd | Shrinagar | India | 40 LPM |
| GVK Power (Goindwal Sahib) Ltd | Tarn Taran | India | 40 LPM |
| Hindalco Industries Ltd - Hirakud FRP Plant | Sambalpur | India | 20 LPM |
| Hitech Plast Ltd - Unit Rohtak | Rohtak | India | 20 LPM |
| Hydratech ME FZCO | Dubai | United Arab Emirates | 100 LPM |
| IL&FS Tamil Nadu Power Company Ltd - Cuddalore Plant | Cuddalore | India | 40 LPM |
| Impulse Promotions Ltd | Nairobi | Kenya | 40 LPM |
| Industrial Energy Ltd | Jajpur | India | 20 LPM |
| International Oil Technologies Ltd | Ho Chi Minh City | Vietnam | 80 LPM |
| Jhabua Power Ltd | Seoni | India | 20 LPM |
| Jhajjar Power Ltd | Jhajjar | India | 20 LPM |
| Karnataka Power Corporation Ltd | Shivamoga | India | 40 LPM |
| Kawai Thermal Power Project | Baran | India | 100 LPM |
| KEPCO Plants Service and Engineering Co Ltd | 1)Mansa 2) Chittorgarh | India | 1)20 LPM 2) 100 LPM |
| KR Pulp & Papers Ltd | Shahjahanpur | India | 40 LPM |
| M/S New Maakali Enterprises | Kolkata | India | 100 LPM |
| Mahan Aluminium (Hindalco) | Singrauli | India | 40 LPM |

Credentials

| Clients | City | Country | Capacity |
|---|--------------|-----------|------------------------|
| Mahan Energen Ltd | Singurali | India | 50 LPM |
| Malana Power Company Ltd (MPCL) | Kullu | India | 20 LPM |
| Megha Engineering And Infrastructure Ltd | Anantapur | India | 10 LPM |
| Melwire Rolling Pvt Ltd | Colombo | Srilanka | 100 LPM |
| MSP Steel & Power Ltd | Raigarh | India | 20 LPM |
| Mundra Thermal Power Station | Mundra | India | 40 LPM |
| National Mineral Development Corporation Ltd (NMDC) | Bellary | India | 20 LPM |
| Nhava Sheva (India) Gateway Terminal Pvt Ltd | Mumbai | India | 40 LPM |
| Nuclear Power Corporation of India Ltd | Chittorgarh | India | 40 LPM |
| Odisha Power Generation Corporation Ltd (OPGC) | Bhubaneshwar | India | 20 LPM |
| Paradeep Phosphates Ltd | Paradeep | India | 100 LPM |
| Prayagraj Power Generation Company Ltd | Prayagraj | India | 30 LPM |
| Raigarh Energy Generation Ltd | Raigarh | India | 10 LPM |
| Raipur Energen Ltd | Raipur | India | 20 LPM |
| Chhabra Supercritical Thermal Power Project | Baran | India | 40 LPM |
| Sasan Power Ltd | Singrauli | India | 20 LPM |
| Sawalka Tools and Machines Pvt Ltd | Pune | India | 20 LPM |
| Shell India Markets Pvt Ltd - Chennai | Chennai | India | 100 LPM |
| Shree Trading Corporation | Jaipur | India | 20 LPM |
| Sipat Super Thermal Power Station (NTPC) | Bilaspur | India | 25 LPM |
| SKS Power Generation Chhattisgarh Ltd (SPGCL) | Raigarh | India | 1) 30 LPM 2) 20 LPM |
| Solapur Super Thermal Power Station (NTPC) | Solapur | India | 40 LPM |
| The West Bengal Power Development Corporation Ltd | Hooghly | India | 10 LPM |
| Tiroda Thermal Power Project | Gondia | India | 10 LPM |
| Tuffchem Environmental Services Pte Ltd | Loyang | Singapore | 20 LPM |
| Udupi Power Corporation Ltd | Udupi | India | 10 LPM |
| Vadinar Power Company Ltd | Jamnagar | India | 40 LPM |
| Venlon Enterprises Ltd | Mysore | India | 20 LPM |
| Vidarbha Industries Power Ltd | Nagpur | India | 10 LPM |
| Visa Steel Ltd | Jajpur | India | 100 LPM |
| Xicon International Ltd | Mumbai | India | 40 LPM |