

## Coalescer Separator System

Minimac Coalescer separator system comes with this unique technology capable of removing heavy water contamination & solid contamination by a single system. As the Lube and hydraulic systems are prone to heavy water contamination due to cross-contamination of water from heat exchangers.

### Technology: Liquid-Liquid Coalescing

#### Water Contamination Phases



[Watch Video](#)

[Product Details](#)

[Read Article](#)

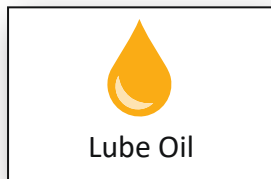
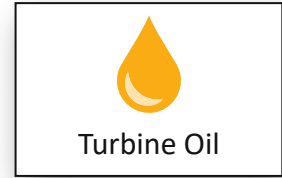
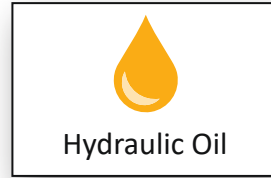
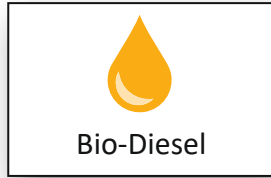
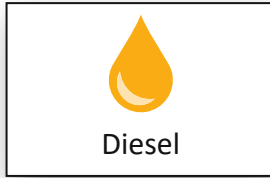


**Minimac Systems Pvt. Ltd.**  
GST No: 27AAICM4730E1ZL

☎ 1800 1209 003 ✉ enquiry@minimac.in  
🌐 www.minimacsystems.com

Gat No 448/15, Success Industrial Park Nighoje, Khed, Chakan, Pune, Maharashtra 410501

## Types of fluid which can be cleaned



## Benefits

- Smooth removal of weighted water contaminants
- Requires least maintenance
- Power consumption is lesser

## Nomenclature - Model No. FS -

**T1** **T2** **T3** **T4**

T1	Pump Flow Rate (LPM)	Filtration Capacity (LPM)	T3	Fluid Type
10 LPM	10 LPM	10 LPM	D	Diesel
20 LPM	20 LPM	20 LPM	BD	Bio-Diesel
40 LPM	40 LPM	40 LPM	H	Hydraulic Oil
60 LPM	60 LPM	60 LPM	T	Turbine Oil
80 LPM	80 LPM	80 LPM	L	Lube Oil
100 LPM	100 LPM	100 LPM		
120 LPM	120 LPM	120 LPM	<b>T4</b>	<b>Filter Clogging Indications</b>
160 LPM	160 LPM	160 LPM	V	1 Stage Filtration
180 LPM	180 LPM	180 LPM	E	Electrical Indicaition

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

## Comparison of Coalescer-Separator Technology against Centrifuge Technology

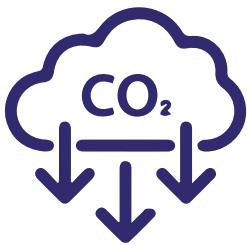
Centrifuging	Coalescer-Separator System
Must heat oil to 80°C for efficient removal of impurities & water.	Water is removed from oil without heating or else heater is required temperature will be below 55°C.
Heating oil depletes additives.	No additive depletion.
Required frequent Maintenance for bowl of centrifuge.	No Maintenance needed as if the mechanical filter will chock, you can wash it and reuse it.
Must be used off-line. All related machinery must be stopped to drain oil into barrels / tanks for cleaning.	Can be used on-line, and is therefore user-friendly.
Aerates oil, thus increasing net oxygen supply & depleting anti-oxidation additive.	No aeration. No additive depletion.
Cannot remove emulsified water. Gear pumps used in centrifuging increase emulsification.	Easy & total removal of free & emulsified water/ moisture.
Cannot remove low molecular weight oxidized oil fraction.	Removes low molecular weight oxidized oil fraction.
Cannot remove solid impurities below 10 micron, efficiently.	In conjunction with Mechanical Filtration System, removal efficiency is better than 3 micron.
High energy consumption.	Low energy consumption.
High Operational and maintenance cost.	Very low operational and maintenance cost.
Many high speed moving parts requiring frequent maintenance.	Only one pump. & slow moving parts so no need for frequent maintenance.
Only one mode is available that is water separator mode.	<b>Different mode of working operations:</b> 1. Polishing filter mode 2. Coalescer system mode 3. Primary filter mode 4. Strainer mode
	<b>Additional Premium Features:</b> 1. Automatic water discharge 2. Heater bypass system 3. Polishing filter bypass system 4. No consumables required

## Specifications

<b>Brief Description of the Equipment</b>	It incorporates a Portable, Trolley Mounted, Online Type System which can be used in Kidney –Loop circuit for various Lube Oil Systems, Hydraulic Systems, Diesel oil, Gasoline Systems. Super-cleaning, Solid Particle Free Removal up to ISO 16/14/12 (ISO 4406 Standard) and free Moisture/Water removal up to 100 ppm and below.
<b>Performance in Solid Particulate Removal</b>	Super-clean ISO 16/14/12 (ISO 4406 Standard) required under API – 614 (1999) – Chapter 3 Guarantee
<b>Separation Capacity Total Water</b>	<100 PPM free form of moisture
<b>Working Environment Compatibility</b>	Safe Zone. Normal Environment
<b>Technology Used</b>	Solid Particle Filtration: Multi Stage Mechanical Filtration Beta Rated & Coalescer Separator Technology
<b>Maximum Pressure of Filtration System</b>	12 Barg. In order to handle the back pressure of the 3 Filtration Stage.
<b>Fluid Temperature Compatibility</b>	0 – 80 degrees C
<b>Oil Viscosity Handled</b>	Up to 100 CST
<b>Oil Types Handled</b>	Diesel ,Hydraulic Oil,Turbine Oil,Gear Oil
<b>Oil Pumping System</b>	Suction Pump
<b>Pump Type</b>	Mechanical Gear Type
<b>Pump Rated Flow Rate</b>	As per flow rate
<b>Maximum Pump Pressure</b>	As per flow rate
<b>Electric Motor</b>	3 Phase Induction Motor, Power – suitable capacity as per flow rate
<b>Filter Clogging Indicator</b>	Mechanical Type
<b>Equipment Structure</b>	Trolley Mounted on 4 castor wheels for easy movement. Fabricated body (Mild Steel). Suitable hooks provided for hanging Electrical Cables and Hoses with minimum spillage of oil from hanging hoses.
<b>Input Power Supply</b>	415V, 50 Hz, 3 Phase

## Specifications

<b>Electrical Cable</b>	4 Core Copper Cable of suitable Current carrying capacity, Minimum Length – 10 meters
<b>Hose</b>	
Suction Hose	Rubber Flexible Hose of suitable size Minimum Length 3 m
Delivery Hose	Rubber Flexible Hose of suitable size Minimum Length 3 m
<b>Electrical Control Panel</b>	Automatic Type Electrical Control Panel with Indication Lamps and Switches for Control of Electrical Motor. Suitable Protections, Inter-locks and Indication Lamps for faults like Filter Clogging, Motor Overload, High Pressure, Pump Dry-run.
<b>Instruments</b>	Pressure Gauge, Pressure Switch, Suction Switch (Vacuum Type), Filter Clogging Indicator.
<b>Valves</b>	Suction Valve & NRV on Discharge, Sampling Valve
<b>Diagnostic Point</b>	Mini-mess Type Coupling Connection for Connection of Particle Counter
<b>Performance Provenness</b>	Particulate Content in Oil post filtration conforms to following : ISO 16/14/12 or better as per ISO 4406. SEPARATION CAPACITY FREE WATER <100 PPM



# REDUCE YOUR CARBON FOOTPRINT