



fluent[®]
Improve Efficiency & Uptime with Effective Oil Cleanliness.
Experience Reduction in Oil Consumption & Component Wear.

 Eco Friendly Filtration
& Separation Solution Provider

Effective Filtration Solutions for Petroleum Industry

1 Utility Oil Application in the Petroleum & Petrochemical Plant



Solution for Hydraulic & Lubricating Oil

- ✓ Compressor (for petroleum Gases / Air / O₂/ N₂/ CO₂ etc.)
Lube Oil Filtration (< 68 cst)
- ✓ Hydraulic oil filtration viscosity (< 68 cst)
- ✓ Gear box lube oil high viscosity (up to 320 cst)
- ✓ Any other specific application of any Viscosity, NAS/ ISO, Moisture, TAN, etc.

2 Utility Oil Application in the Power Plant (CCPP/ CPP)



Solution for Hydraulic, Lubricating, FRF, Utility water

- ✓ MOT- Lube Oil Filtration / Moisture control / Varnish Removal
- ✓ Coal Mill Gear Box –Gear Oil Filtration
- ✓ Fire Retardant Fluid – NAS/ Moisture/ TAN Reduction
- ✓ RO – Pre-filtration for SDI < 5



Flameproof Specification:

- ✓ Motor & Control Panel Enclosure: Confirms to type "Ex d"
- ✓ Motor & Control Panel compatible for Gas Zone: 1, 2 and Dust Zone: 20, 21, 22
- ✓ Motor & Control Panel for Group: 2A, 2B
- ✓ Motor & Control Panel Enclosure: Confirms to Temp Class: T4A, T5, T6

Fluent Pro-HL-FP

For High Accuracy Hydraulic / Lubricating Oil Applications. Recommended for Systems with Servo Hydraulics / Electro Hydraulics/ Critical Lube systems

Model Selection

Model No	Tank Capacity Lit
Pro 06HL-FP	1500
Pro 10HL-FP	2500
Pro 20HL-FP	5000
Pro 40HL-FP	10000
Pro 60HL-FP	15000
Pro 80HL-FP	20000

Quality Guarantee:

Particulate < NAS 4 (ISO 15/13/10) Note 3 & Moisture (Dissolved) < 200 ppm

Suggested to use dedicated for desired tank capacity for achieving almost "maintenance free" Hydraulic/ Lubricating Operation.

Key Features

- ✓ Flameproof Motor & Control panel Zone 2 XD
- ✓ Hydraulic oil up to 68 cst
- ✓ Highest quality
- ✓ No Heating to Oil / No static charge
- ✓ Lowest electrical consumption
- ✓ 10 times faster than nearest competition.
- ✓ Stainless Steel Housing
- ✓ Trolley Mounted
- ✓ With Smart Controller
- ✓ Suitable for Mineral, Synthetic, Water Glycol, Water Hydraulics, etc.

Note 1: Expected life of filters for dedicated use for maintain oil cleanliness is approximately one year.

Note 2: Moisture < 50 ppm option available

Note 3: Recommended Input quality < NAS 10, if not use coarse filter.

Fluent Pro-HL-HP-FP

For High Accuracy Hydraulic / Lubricating Oil Applications, with pressurised tanks, up to 10 kg/cm² pressure. Recommended for Systems with Pressurised Tank Hydraulics / Critical Lube systems

Model Selection

Model No	Tank Capacity Lit
Pro 06-HL-HP-FP	1500
Pro 10-HL-HP-FP	2500
Pro 20-HL-HP-FP	5000
Pro 40-HL-HP-FP	10000
Pro 60-HL-HP-FP	15000
Pro 80-HL-HP-FP	20000

Quality Guarantee:

Particulate < NAS 4 (ISO 15/13/10) Note 3 & Moisture (Dissolved) < 200 ppm

Suggested to use dedicated for desired tank capacity for achieving almost "maintenance free" Hydraulic Operation.

Key Features

- ✓ Flameproof Motor & Control panel compatible for Zone 2 EX D
- ✓ Hydraulic oil up to 68 cst
- ✓ Highest quality
- ✓ No Heating to Oil / No static charge
- ✓ Lowest electrical consumption
- ✓ 10 times faster than nearest competition.
- ✓ Stainless Steel Housing
- ✓ Trolley Mounted
- ✓ Smart Controller with enhanced safety features
- ✓ Suitable for Mineral, Synthetic, Water Glycol, Water Hydraulics, etc.

Note 1: Expected life of filters for dedicated use for maintain oil cleanliness is approximately one year.

Note 2: Moisture < 50 ppm option available

Note 3: Recommended Input quality < NAS 10, if not use coarse filter.



Fluent Pro G FP

For High End, Critical Lubricating Oil Applications of Gear boxes.

Model Selection

Model No	Tank Capacity Lit
Pro 6G-FP	750
Pro 10G-FP	1250
Pro 20G-FP	2500
Pro 40G-FP	5000
Pro 60 G-FP	7500

Quality Guarantee:

Particulate < NAS 7 (ISO 17/15/12) Note 3

Suggested to use dedicated for desired tank capacity for achieving almost "maintenance free" Gear Box Operation. Higher capacity models are available on request.

Key Features

- ✔ Lubricating Oil up to 320 cst
- ✔ Highest quality
- ✔ Faster than nearest competition.
- ✔ Stainless Steel Housing
- ✔ Trolley Mounted
- ✔ With Smart Controller
- ✔ Suitable for Mineral, Synthetic Oils, etc.
- ✔ Optional Heaters provision

Note 1 : Quality Testing Available with Particle counter for selected applications (Generally on patch or mg/lit)

Note 2: High Filter life with Vats Lucida G2D Filters

Note 3: Recommended Input quality < NAS 12, if not use coarse filter or change oil.

Fluent Power

For New Generation, Turbine Lubrication Oil

Model Selection

Model No	Tank Capacity Lit
Power 800	25000
Power 1200	40000
Power 1600	60000
Power 2400	90000

Quality Guarantee:

Particulate < NAS 4 (ISO 15/13/10) Note 3 & Moisture (Dissolved) < 200 ppm

Suggested to use dedicated for desired tank capacity for achieving consistent quality

Key Features

- ✔ Lubricating oil up to 46 cst
- ✔ Highest quality
- ✔ No Heating to Oil / No static charge
- ✔ Lowest electrical consumption
- ✔ 10 times faster than nearest competition.
- ✔ Stainless Steel Housing
- ✔ Trolley Mounted
- ✔ With Smart Controller (IOT enabled controller available)
- ✔ Suitable for Mineral, Synthetic, Water Glycol, FRF Fluids, Water Hydraulics etc.
- ✔ Add-on features like varnish removal / control
- ✔ Standard model with added capacity of effective moisture control for any emergency / maintenance duty.

Note 1: Expected life of filters for dedicated use for maintain oil cleanliness is approximately one year.

Note 2: Moisture < 100 ppm option available

Note 3: Recommended Input quality < NAS 10, if not use coarse filter.



Fluent TCF

An unique product for all requirements of Turbine Control Fluid / Fire Retardant Fluid management

Model Selection

Model No	Tank Capacity Lit
TCF 50	1500
TCF 100	3500
TCF 250	7500
TCF 500	15000

Quality Guarantee:

Particulate < NAS 4 (ISO 15/13/10) Note 3 &
Moisture (Dissolved) < 100 ppm (Note 10)
TAN Up to 0.1 mg KOH /lit (Note 12)

Suggested to use dedicated for desired tank capacity for achieving consistent quality

Key Features

- ✓ Oil up to 68 cst
- ✓ Stainless Steel Housing
- ✓ Trolley Mounted
- ✓ With Smart Controller
- ✓ Add-on features like varnish removal / control
- ✓ Installed with Vats G2D filters for filtration
- ✓ Vats specially design FRF HVDH for Moisture separation
- ✓ TAN reduction with state of the art specially designed ion control technology
- ✓ Additional Feature - Timer operated periodical operation, Online moisture sensor

Note 1: Expected life of filters for dedicated use for maintain oil cleanliness is approximately one year.

Note 2: Moisture < 50 ppm option available

Note 3: Recommended Input quality < NAS 10, if not use coarse filter.

Note 10: Moisture Separation with HVDH Technology, PI note that moisture removal is a function of equilibrium. Commitment is based on normal working condition without engrossment.

Note 12: TAN reduction is Polar process and depends upon various Process / Chemical factors. If done multifold times from higher value, reduces capacity of reduction restricted may be up to 0.3 mg KOH/lit only.

Fluent HVDH-H2



Fluent HVDH-H2

An unique product for all your requirement of most the low viscosity lubricating / hydraulic fluids

Model Selection

Model No
Fluent HVDH 500H2
Fluent HVDH 1000H2
Fluent HVDH 2000H2
Fluent HVDH 4000H2

Quality Guarantee:

Moisture (Dissolved) < 100 ppm (Note 15)

Key Features

- ✔ An unique product for all your requirement of most the low viscosity lubricating / hydraulic fluids up to 68 cst
- ✔ Effective for emergency conditions like emulsion separation
- ✔ Specially designed unique product with state of the art combination of thin film, high efficiency packing and high vacuum Technology.
- ✔ Trolley Mounted
- ✔ With Smart Controller
- ✔ Additional Feature - Timer operated periodical operation, Online moisture sensor

Note 2: Moisture < 50 ppm option available

Note 15: Moisture Separation with HVDH Technology, PI note that moisture removal is a function of equilibrium. Removal Rating is based on 2000 ppm. And Final quality is based on normal working condition without moisture addition.

Fluent HVDH-L2

An unique product for all requirements of High Viscosity lubricating oil moisture separation

Model Selection

Model No
Fluent HVDH 500L2
Fluent HVDH 1000L2
Fluent HVDH 2000L2
Fluent HVDH 4000L2

Quality Guarantee:

Moisture (Dissolved) < 500 ppm (Note 15)

Key Features

- ✔ An unique product for all your requirement of most the high viscosity lubricating oils up to 680 cst
- ✔ Specially designed unique product with state of the art combination of thin film, high efficiency packing and high vacuum Technology.
- ✔ Trolley Mounted
- ✔ With Smart Controller
- ✔ Additional Feature - Timer operated periodical operation, Online moisture sensor

Note 2: Moisture < 50 ppm option available

Note 15: Moisture Separation with HVDH Technology, PI note that moisture removal is a function of equilibrium. Removal Rating is based on 2000 ppm. And Final quality is based on normal working condition without moisture addition.

Fluent HVDH-H2



Fluent HVDH-HL2-FP

An unique product for all requirements of Low Viscosity lubricating oil and Hydraulic Oil moisture separation

Model Selection

Model No
Fluent HVDH 500HL2-FP
Fluent HVDH 1000HL2-FP

Quality Guarantee:

Moisture (Dissolved) < 100 ppm (Note 15)

Key Features

- ✔ An unique product for all your requirement of most the low viscosity lubricating / hydraulic fluids up to 68 cst
- ✔ Effective for emergency conditions like emulsion separation
- ✔ Specially designed unique product with state of the art combination of thin film, high efficiency packing and high vacuum Technology.
- ✔ Trolley Mounted
- ✔ With Smart Controller
- ✔ Additional Feature - Timer operated periodical operation, Online moisture sensor

Note 15: Moisture Separation with HVDH Technology, PI note that moisture removal is a function of equilibrium. Removal Rating is based on 2000 ppm. and Final quality is based on normal working condition without moisture addition.

Fluent HVDH-L2-FP

An unique product for all requirements of High Viscosity lubricating oil moisture separation

Model Selection

Model No
Fluent HVDH 500L2-FP
Fluent HVDH 1000L2-FP

Quality Guarantee:

Moisture (Dissolved) < 500 ppm (Note 15)

Key Features

- ✔ An unique product for all your requirement of most the low viscosity lubricating oils up to 680 cst
- ✔ Specially designed unique product with state of the art combination of thin film, high efficiency packing and high vacuum Technology.
- ✔ Trolley Mounted
- ✔ With Smart Controller
- ✔ Additional Feature - Timer operated periodical operation, Online moisture sensor

Note 15: Moisture Separation with HVDH Technology, PI note that moisture removal is a function of equilibrium. Removal Rating is based on 2000 ppm. and Final quality is based on normal working condition without moisture addition.

Fluent Flushing Skid FS

For Effective & Faster pipeline and system flushing with confirmation of NAS/ ISO fluid cleanliness during new commissioning and during maintenance activity.

Model Selection

Model No
FS -400
FS -800

Quality Guarantee:

Up to NAS 4, Moisture up to 200 ppm

An unique product for maintaining Hydraulic oil quality for mobile equipments.

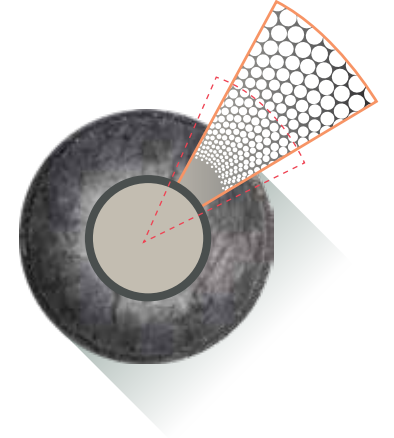
Key Features

- ✔ High Flow rate flushing
- ✔ Impulse generator for faster and effective flushing
- ✔ Flow control digital on control panel
- ✔ PLC control panel for integration

LUCIDA™

Filter media engineered to match best of industry standards.

- ✓ Graded Density Depth (G2D) Filters
- ✓ Rigid Filters - Consistent Quality, No Particle Unloading
- ✓ Wide Oil / Chemical Compatibility
- ✓ Withstand higher temperatures (upto 100°C)
- ✓ From 50 Micron to < 1 Micron Absolute





Make old to new illustration



Filtration Services:

Vats offer onsite services like –

- ✓ Oil Purification - case to case basis one time
- ✓ Oil Purification – Annual Contract lit per year basis
- ✓ Oil Purification – Annual Contract with dedicated equipment
24x365 quality commitment
- ✓ Oil Flushing – For new commissioned equipment for desired degree of cleanliness
- ✓ Ask our sales person for any more information

Retrofitting & Buyback

Vats is committed for lowest cost of operation with specially designed G2D filter elements. We offer retrofitting to your existing bypass filtration trolley with G2D elements. Also explore buyback possibility for your present bypass filtration with surface elements or Electrostatic Separation (ELC).

Ask our sales Executive for details.

Fluent Solutions for:



Cement Industry



Automobile/Engineering



Power Plants



Metal



Chemical/API Industry



AND MANY MORE

About Vats

Thank you very much for interacting with Vats Filtration Team.

We take this opportunity to introduce ourselves as specialist in “Filtration Technology”, providing micro filtration solution for various applications. We manufacture our own micron cartridges and also manufacture equipments, in India, with strong technical backbone with IIT technocrats.

Vats Filtration Technologies Pvt. Ltd. is a 20 years old company and has developed wide range of products used in various applications for delivering cost effective filtration at desired quality level. State of the art products are available Hydraulic oils, Liberating oils, Turbine oil, FRF, Water Hydraulics, Refrigeration and other Compressor oils, where oil is circulated in close loop systems.

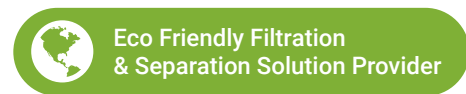
Along with this vats has developed other industrial applications which are in custom product division where many process applications like test rig, washing fluids, application rigs, etc. are filtered.

We at Vats are committed to deliver “Effective Solution” for your unique process with

- ➔ Quality Improvement at Present Cost
- ➔ Same Quality at Lower Cost
- ➔ Quality Improvement at Lower Cost

We do have our Application Laboratory where filtration problem is analyzed and effective filtration solution is suggested for our valued customers. Our filter media characterization facility is utilized for consistent quality media production.

Our Application Lab and a proactive technical support team is there to help you optimize your filtration cost and empower you to deliver best quality product.



Vats Contribution towards Green Environment

Vats’ is committed to provide cost effective filtration systems so that oil purification is cheaper than oil replacement. “Fluent”, will support you for re-utilisation of oil, resulting into conservation of Precious natural resource ‘OIL’.

We invite you to take a small step towards “Green Environment”. Let’s provide healthy environment to our future generations, together.

Business Associates: