





MS2 Standard Oil & Diesel Filtration Systems

- Removes Particulate contamination to filter fineness of 1µm nom, 3µm absolute.
- Removes free & emulsified water from fluids
- Reduces Component wear
- Extends Oil Change Intervals
- Reduces Oil renewal and disposal costs





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MS2 Standard Twin Unit Oil & Diesel Filtration Systems

The Standard MS2 Oil & Diesel Filtration Systems are multi-function units able to provide filtration on various fluids, including lubrication oils, diesel fuel, coolants & glycols. The systems can be built in a wide range of configurations allowing these systems great flexibility and able to meet any filtration challenge. From high water counts, heavy particular contamination or need to remove ferrous debris, these units will remove contaminates and return fluids back to working order. The unit is built on a handled skid frame, with an integrated bund fitted with a float switch to prevent spills occurring. This unit was developed to work to provide offline filtration continuously on oil and diesel storage tanks, the system is suitable to provide filtration on water-based fluids, diesel fuel & light oils to 220 grade viscosity. They're the ideal addition to anybody wanting to increase fluids life, reduce renewal & disposal and protect components against harmful abrasive wear particles. *As standard all filter systems come supplied with 3m suction & return lines and fitted with a standard 1888H filter cartridge ready for use*

Key Features

- Can be supplied in 110v, 240, or Air Driven
- Study built unit build on skid frame with an integrated bund to prevent spills
- Fitted with twin KU85 Housings allowing the full 88 Range of filters
- Able to provide filtration on fuel & light oils lubrication oils to 220 grade viscosity
- Able to filter water-based fluids such as coolants & glycols when fitted with the 2088PP range of filters
- Suitable for storage tanks/drums up to 1500 Litres
- Can be fitted with Magnetic Filter
- Flow Rates of approx. 1100lph (based on diesel) to approx. 300lph on 220 grade oil
- Suitable for use as a transfer pump
- Can be built in compliance with A-Tex regulations



Selection of FA-ST MS2 Standard Filtration Systems

System Configuration

The Standard MS2 filtration systems are free standing units built on durable skid frames with handles with integrated bunds. The unit is for **Offline** filtration of various fluids or used as a transfer pump (just remove your filter cartridge). They are designed for ease of transportation around sites:

Frame: These units are built on a durable skid frames with integrated bunds 40mm deep, the unit size is approx H460mm x W540mm x L690mm. The bund is fitted with a safety float switch to prevent any potential leaks spilling on site. **Pump & Power Supply:** The units come in two main designs either electrically powered or Air Driven.

Electrical Systems: Come fitted with a **Haight 5U Gear Pump** (Heavy Duty units) or **Progressive Cavity Pumps** (Light Duty Units) either can be fitted with either a 110v, 240v or 3 Phase motor depending on requirements. **Air Driven:** This configuration comes fitted with the Tapflo TX 25 or TX 75 Air diaphragm operated pumps. The pumps are compliant with A-TEX regulations so are the perfect addition should these requirements need meeting.

Housings: The unit is fitted with as standard with a twin 9788/KU85 Filter Housing, A-Tex configuration the 9788UMZ. This housing allows use of the 88 Range of filter cartridges giving great flexibility when filtering or polishing fuels

Additional Filtration Options: These units can be fitted 5" Micro Mag Magnetic Pre-Filter. The Magnetic filter is ideal for removal of magnetic/ferrous particles (strongly recommended for anyone carrying out filtration on diesel fuel). Bag Filters can be fitted for fluids heavily contaminated with particulates adding additional filtration.

Safety Features: All configurations of these systems come fitted with Quick Release Couplings allowing for ease when replacing suction and return hoses. Pressure Gauges to monitor and provide for information on filter cartridge change intervals and safety leak detection float switches.

Air Driven Configuration Safety Features: Air driven configurations are also fitted with air control regulators to control air flow to the pump.

Electrical Configuration Safety Features: These units are also fitted with Isolator & On/Off switch with green running light, and also fitted with a pressure relief switch.

Filtration

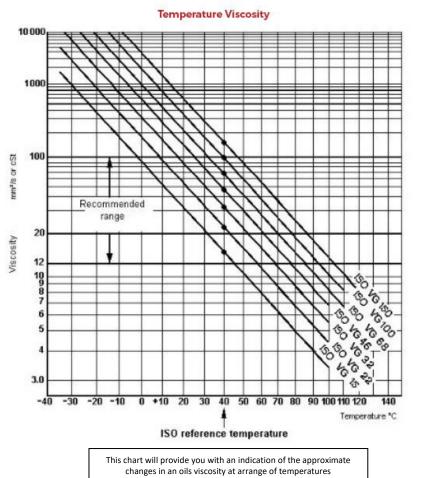
These units are fitted with the 9788/KU85 housings, they are able to fit the 88 Range of filter cartridges. This gives them the filtration capabilities to filter fineness of 1µm nom, 3µm absolute.

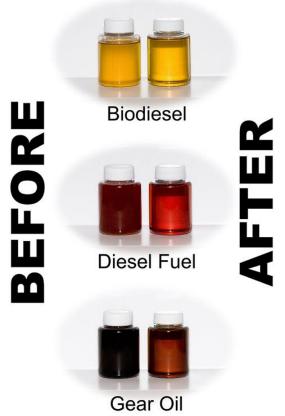
Before carrying out any filtration we always recommend having your fluid analysed at our laboratory to ensure that 1. Filtration is required and 2. Your target cleanliness levels are achievable with the selected system.

The MS2 Standard Filtration units are ideal for providing filtration on various fluids including Lubrication oils up to 220 grade viscosity, diesel fuel & water-based fluids such as coolants & glycols. Being fitted with the 9788-filter housing the systems are suitable for use with the FA-ST 88 Filter Cartridge range allowing for fluids to be both filtered and polished. The table below shows the best filter for each filtration job that the unit can be tasked with:

Fluid	Filter C	artridge	Approx. flow rates
	Filtering	Polishing	(litres per hour)
Lube Oil to 46 cSt	1888H	1888SPT	800-1100lph
Lube Oil to 46 – 220 cSt	1888H	1888SPT	300-800lph
(Heavy Duty Units Only)	10001	10003F1	300-800ipii
Diesel Fuel	1888H	1888SPT	1000-1200lph
Coolant & Glycol	2088PP	2088PP6	1000-1200lph

Important Note When filtering always remember temperature is a very important factor. The colder the temperature the lower the fluids viscosity i.e. at operational temp of 40°C the oil is 32 cSt, however on a cold morning if the temperature were 10°C then the oils viscosity could of increased to near 400 cSt





Filter Cartridges

The MS1 Hand Carry Units are able to be fitted with a range of filters to allow for various fluids to be filtered and polished. The filter elements provide fineness of 1 μ m nom, 3 μ m absolute. Temperature operating range 0-125°C, +/- 5°C.

Oil & Diesel Filter Cartridges				
	water from lub particles down in a system. Fo	diesel filter cartridges are ideal for removing e oils and diesel fuel. The tightly wound filter to 3 micron in size removing large amounts o r use with Engines with Sump Capacity of 18 g o 300 gallons/ 1360litres.	media in these cartridges trap f contamination that can build up	
	tightly wound f diesel fuels from	1888H : For filtering oils up to 220 grade and diesel fuel removing contamination. Made from tightly wound filter media and a 1-micron 2mm base layer and with handles. For light oils and diesel fuels from 2 to 46 viscosity at cold 0°C and ambient 23°C temperature and for warm/hot oils up to 220 viscosity and 125°C		
FA-ST 1888H & 1888SPT Standa. Filter Elements	rd Oil & Diesel oils and fuel pro layers separate For light oils an	888SPT filter cartridges are ideal for polishing eventing contamination build-up. Made from d by a 1-micorn 2mm spacer and a 1-micron 2 d diesel fuels from 2 to 46 viscosity at cold 0° not oils up to 220 viscosity and 125°C	tightly wound filter media in 2 2mmbase layer and with handles.	
	The dirt retention capacity for each filter is up to:			
Particulate Contamination: 2.5kg approx.			g approx.	
		Water Removal: 1 Litre approx.		
Filter	Application	Filtration of	Buy	
1888H	Filtering	Diesel & Oil to 120 grade	Buy Now	
1888SPT	Polishing	Diesel & Oil to 120 grade	<u>Buy Now</u>	



High Viscosity Oil Filter Cartridges

The high viscosity oil filter cartridges are especially designed to filter oils of a highergrade viscosity between 320 – 1000 cSt. The design of these cartridges will allow the higher-grade oils to be pushed through the filter media without creating a build-up of back pressure tripping out the filtration system. They can provide filtration on lower grade oils and diesel however the standard oil & diesel filters are far more cost effective. The high viscosity oil filters come in 2 special designs:

1888SH: For **filtering** high viscosity oils, allow an amount of oil to bypass preventing backpressure build up. This means more passes of the oil through the filter are required to remove the contaminates. Made from tightly wound filter media, a 1-micron 2mm base layer and a cardboard outer sleeve with handles. For light oils and diesel fuels from 2 to 46 viscosity at cold 0°C and ambient 23°C temperature and for warm/hot oils up to 460 viscosity and 125°C

2088CPS: These filters provide much finer filtration than the 1888SH and should be used as a **polishing** filter cartridge. Using these filters for the initial filtration is not cost effective as heavily contaminated oils will block these quickly. Split into halves with a layer made from tightly wound filter media separated by a 1-micorn 2mm spacer with a polypropylene layer below and a 1-micron 2mm base layer and with handles For light oils and diesel fuels from 2 to 46 viscosity at cold 0°C and ambient 23°C temperature and for warm/hot oils up to 460 viscosity and 125°C

The dirt retention capacity for each filter is up to:

- Particulate Contamination: 2.5kg approx.
 - Water Removal: 1 Litre approx.

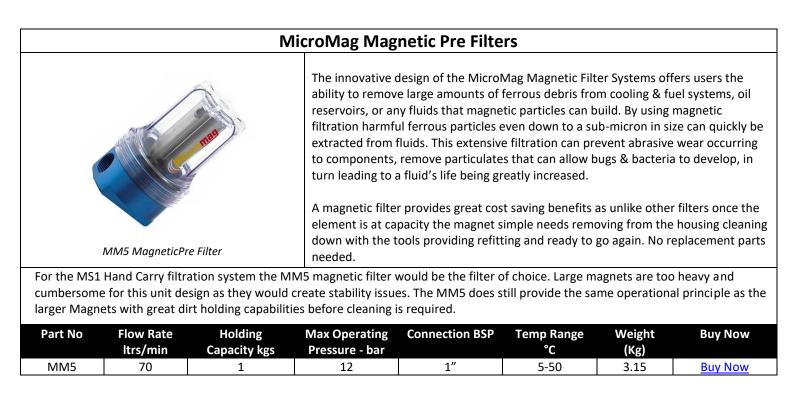
-			
Filter	Application	Filtration of	Buy
1888SH	Filtering	High Viscosity Oil 120 to 220 grade	Buy Now

2088CPS	Polishing	High Viscosity Oil 120 to 220 grade	Buy Now
	Coolant	& Glycol Filter Cartridges	
FA-ST 2088PP & 2088PP6 Coo Elements	conta let wi coola requi filtrat 2088 remo layer any v	A-ST coolant & glycol filter cartridges are ide mination from water-based fluids. These car ater pass through the filter while entrapping nts and glycols. These filters can be used with re the unit to be flushed of any oil or diesel for cion on water-based fluids. Used for tanks up PP : For filtering water-based fluids and remo ving water. Made from polypropylene filter r and with handles. For filtration of coolants, g vater-based fluid to removeparticulate conta	tridges are especially designed to particles making them ideal for h most filtration systems and onl or the units to be able to provide to 300 gallons/ 1360 litres. ving particulate without nedia and a 1-micron 2mm base glycols, flame retardant oils or
	•	ning and maintaining the condition of water-	
ntamination build-up. For p ntamination.	olisning of coolants, glycols,	flame retardant oils or any water-based fluid	a to removeparticulate

The dirt retention capacity for each filter is up to:

- Particulate Contamination: 2.5kg approx.
- Water Removal: N/A

Filter	Application	Filtration of	Buy
2088PP	Filtering	Coolant & Water Based Fluids	Buy Now
2088PP6	Polishing	Coolant & Water Based Fluids	Buy Now



Bag Filter Housings			
FA-ST Bag Filter Housing & Repl	acement Bag Filters	The FA-ST 12-inch Carbon Steel Bag Filter Housing i filtration systems, to remove additional contaminat diesel, and coolants. Adding a bag filter to your filtration system will incr extend the filter cartridge life span by removing add reaching the filter. By providing additional filtration before reaching the filter cartridge fitting a bag filte filter cartridge lifespans. FA-ST offer a range of felt with the bag filter housing. The housing is suitable	tion from extremely dirty oil, rease the filtration on fluids and ditional contamination before and removing contaminates er will also provide increased bag filters to work in conjunction
Part	Part No	Filtration of	Buy
12" Bag Filter Housing	BFH-12	Bag Filters fitted to filtration systems will be able	Buy Now

to filter the fluids that are compatible with the

other components in the system.

Buy Now

Buy Now

1 Micron Bag Filters

5 Micron Bag Filters

BF-1M-12

BF-5M-12

Oil & Fuel Sampling

With our wide range of sample bottles and containers our customers can take a wide range of samples including oils, diesel fuel, coolants, glycols and a selection of chemicals and other fluids. Supplying our customers with:

> Vacuum Sampling Pumps Sample Bottles Sample Tubing Complete Oil & Fuel Sampling Kits





Oil Analysis

FA-ST provide a comprehensive range of oil testing allowing you to determine the cleanliness, contamination, chemistry and identify wear particles in lubrication oils, diesel fuel, coolants, and greases etc. at our independent oil analysis laboratory.

With the support of the FA-ST oil analysis program you can consistently monitor the quality of the fluids used on your machinery & equipment, detect potential component failure, reduce maintenance costs and help decide the correct oil change intervals.



Oil Filtration

FA-ST have an extensive range of oil filtration equipment especially designed to remove particulate, water and magnetic particles from oils, diesel fuel, coolants & glycols. Working with some of the industries leading businesses we aim to bring you the finest filtration equipment on the market including:

> Oil, Diesel & Glycol Filtration Systems Filter Cartridges for a wide range of fluids Magnetic Pre-Filters Bypass Filter Systems



How Clean is your Oil?

For all your oil sampling, filtration & Analysis needs contact FA-ST:

Phone +(0)1246268900 Email: sales@fa-st.co.uk Visit: www.oilsampling.co.uk

