

FUF050 SERIES

Transfer and Filtration Portable Unit for Diesel

Designed for superior performance, it offers dual filtration to remove water and solid contaminants, ensuring your diesel remains clean and efficient.



TECHNICAL SPECIFICATION	
MAIN:	Flow Rate: 50 l/min Operating temperature: from -10 °C to +50°C
ELECTRIC:	Voltage: 230 V Frequency: 50 - 60 Hz Power consumption: 1,6 kW
FRAME:	Dimensions L, W, H[mm]: 490X645X1006
MATERIALS:	Base frame: Painted steel
ELEMENT	tested according to ISO 11170, 2941, 2942, 2943, 3724, 3968,16889, 16908, 23181
FILTER MEDIA:	Fiberglass: G01 - G03 - G06 - G10 - G25 G40 Water absorbent: GW40 - AW40
FLUID COMPATIBILITY:	Only Diesel Fuel

The unit is supplied complete with an Instruction and Maintenance Manual available on our website www.filtrec.com in the "Hydraulic Filter" section. The unit can be used by authorized operators who have read and understood all of its contents.

The FUF050 filtration unit is certified **(€**



WHY A CLEAN AND FREE OF WATER FUEL IS IMPORTANT

In the last 20 years the requirements of emissions regulations for internal combustion engines became every year more stringent.

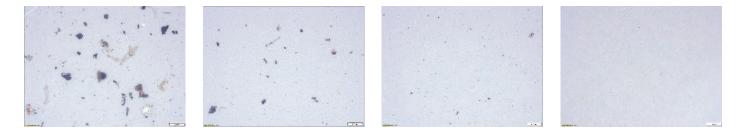
To achieve the emissions target, manufacturers use high pressure injection systems on their diesel engines. Today, almost all the diesel engines use a High Pressure Common Rail (HPCR) system to inject the fuel, with pressure up to 2500 bar.

Due to the high pressure and the tight tolerances of these systems, the cleanliness of the fuel and its water content is very important.

In fact, solid contamination leads to wear and erosion of the different components of the injection system, while water leads to corrosion, reduced fuel efficiency and injector damage.

For the above reasons, it is vital to use clean and dry fuel in your diesel engines.

Examples of solid contamination in diesel fuel – ISO 4406 cleanliness level



Cleanliness target for diesel fuel in last generation engine: between 16/14/12 and 13/11/9 according to ISO 4406

FILTREC FUF050 DIESEL FILTRATION UNIT

With Filtrec FUF050 Series Diesel Filtration Unit you can remove solid contamination and water from the fuel during the filling of the tank of your machines.

This unit features a 50 l/min vane pump and 2 different filters: one to stop the solid particle contamination and the other to absorb the water present in the fuel.

The particle removal filter has a high efficiency, glass fiber media, with a β ratio at 4 μ m(c) up to 10000 (G01 media). This filter is able to remove the particle contamination in a single-pass filtration.

The water removal filter element is specifically designed for the absorption of water from diesel fuel.

This water absorption technology configuration is an efficient method to remove water contamination.

The water absorbing filter media, embedded in the filter material, removes water by a physical-chemical reaction.

When absorbed, the water particles are locked physically by the gel formed and are not able to return to the fluid. This reaction is not reversible also with increased pressure.

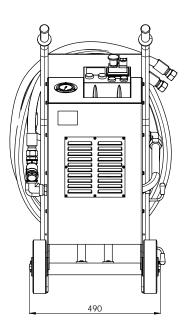
However, diesel fuel passes through this media without interference.

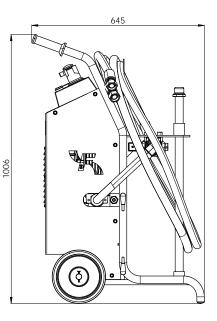
When the gel formation is complete, the media stops the water removal reaction.

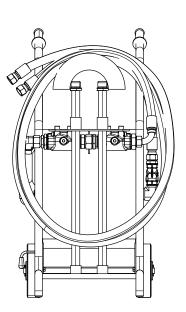
In this way you are sure to avoid any problems related to the solid contamination and water in the fuel.



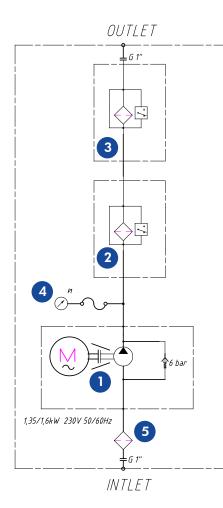
OVERALL DIMENSIONS







HYDRAULIC DIAGRAM



1	Vane Pump	1,6 kW	+	pressure	relief	valve	6	bar
-		.,		p. 0000.0			-	

- 2 Particle removal filter
- **3** Water absorbent filter
- 4 Pressure Gauge
- **5** Suction Filter "Y" 500 μ m



ORDERING INFORMATION FUF050

1.	2.	3.	4.	5.	6.	7.	8.	-
FUF	050	Μ	G	2	V	S	0	
1. FILTE	r unit si	ERIES		F	UF			
2. MOD	EL			0)50	flow rat	te 50 l/m	in
3. ELEC	TRIC MO	TOR			М	Single p	ohase ele	ectric motor, 230V 50-60Hz 1,6 kW
4. PUMI	P SIZE				G	Vane p valve 6	•	able for diesel fuel + pressure relief
5. FILTE	R / ELEMI	ent size			2	2 x A52	22/AB2	2 series
6. SEAL					V	FKM		
7. VERS	ION				S	standar	d frame	version
8. OPTI	ON				0	differe FA522 - supp - suctio - suctio - delive - 2P+1 - contr RELEAS ton - contr - SYST GED F *= it do	ntial visu 000V0Al ort frame on filter " on pipe I industri ol panel SE COIL ol panel EM OFF ILTER no. es not turn	ging indicator model VEXF2 al electric 2,7 bar for filter 32B60Z000S0 e with drip tray Y" 500mm DN32 + lance L=3m DN32 + lance L=3m al plug, L= 2m with ON/OFF switch WITH SAFETY and EMERGENCY interlock push but- with indicator lights for: SYSTEM ON - CLOGGED FILTER no.1* - CLOG- 2* off the system, filter no.1 for solid contami- ater absorbent



ORDERING INFORMATION SPARE ELEMENTS

						-
1.	2.	3.	4.	5.	6.	
A5	22	G01	V	0	/AB2	
1 50 755		VT SERIES	:			_
		NI JLNIL)	_	A5	
2. FILTER	R SIZE				22	
3. FILTER	R MEDIA			-	G01	
					G03	
				(G06	
				(G10	
				(G25	
				(G40	
				G	W40	
				A	W40	
4. SEAL					V	
5. BYPAS	SS VALVE				0	
6. ELEME	ent suf	FIX		/	/AB2	

FILTER ELEMENT - Preferred filter media - For the complete range of elements available, refer to the A522x series catalog.

USER TIPS

The filter element must be replaced when:

- 1. Either the clogging indicator of the particle removal filter or the water absorbent filter shows a clog, or if both clogging indicators show a clog, or if the pressure gauge reaches 5 bar.
- 2. A different filter medium is required. We recommend using a fine filtration medium for the particle removal filter and a water absorbent filter for water removal.

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