

IPU'S COST-EFFECTIVE FUEL POLISHER GUARANTEES MAXIMUM GENERATOR RELIABILITY

The versatile DDF-MFR offers 24/7 fuel protection for gensets with day tanks.

IPU's most economical fuel polishing unit, the DDF-MFR, is designed to protect day tanks as small as 1000 litres.

Hospitals, datacentres and financial institutions depend on diesel generators for their backup power. Genset OEMs have to supply generators that are 99.9% reliable. This is only possible with clean fuel. The DDF-MFR guarantees the cleanliness of that vital resource.

Small and compact, Medium Flow Rate (MFR) polishers reach 50 litres per minute (lpm), a level of performance that none of their closest competitors can match. Their design is almost totally flexible to suit the enclosures of a wide variety of gensets.

IPU's exceptional filtration media guarantees all common forms of contamination are removed. Particulates down to 1 micron (μm) are removed and 99.9% water is extracted.

Visit our factory in West Bromwich for a live demonstration of our fuel polishers in action.



Economical & Efficient

The DDF-MFR combines unbeatable pricing with great performance, reaching 50lpm and removing all forms of contamination.

ISO4406 & EN590 standards

High performance filter elements ensure your fuel meets or exceeds the internationally-mandated 18/16/13 and 200ppm limits.

Ideal for genset OEMs

The DDF-MFR boosts a genset's specification. It is a valuable differentiator. It represents an economical upgrade when ordered in quantity.

Let's talk

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BUILDING A BETTER BREED OF GENSET

Your end users depend on the reliability of your gensets. You can enhance that reliability and differentiate your range by offering the option of a DDF-MFR integrated fuel polisher.



Gain a competitive advantage

Genset OEMs are jostling for space in a crowded market. Meaningful differences in specification help prevent customer negotiations collapsing into a drive for discount.

Proposing an integral fuel polisher as an optional extra helps differentiate your gensets. It shows a commitment to reliability that goes beyond your competitors'. It makes your gensets robust enough to work dependably in harsh and contaminated environments such as building sites and quarries.

A bespoke specification for you

Each DDF-MFR project is developed in close collaboration with the genset OEM. Every model is different. They are designed to suit your genset, your enclosures and your customers' aspirations.

The design enhances the specification of your genset while minimising the changes to your manufacturing process. IPU designs bespoke brackets, piping and cabling so the polisher becomes a simple bolt-on part for your assembly line.

Competitive pricing

DDF-MFR polishers are keenly priced to maintain the attractiveness of the option.

Our low pricing depends on IPU being able to produce the units in bulk. DDF-MFR units have to be ordered in quantity.

An experienced and expert partner

IPU helps genset OEMs to meet their business objectives. With nearly 60 years' experience serving the power generation industry, we understand the technology, the market and the challenges it faces.

DDF-MFR integrated fuel polishers eradicate the contamination issues that can cripple the best gensets on the market.

They address a genuine customer need, they differentiate your gensets from your competitors' and they do both with the backup of IPU, the No. 1 choice for fuel polishing.

PRODUCT HIGHLIGHTS

Perfect flow rate



DDF-MFR units use ultra-reliable pumps with flow rates up to 50lpm. The capability is selected to match the tank. The units' capability is exceptional for the size of the unit. It offers numerous advantages:

- Outstanding cleanliness levels: the DDF-MFR exceeds ISO4406's cleanliness level of 18/16/13.
- Efficient cleaning: flow rates induce enough turbulence to drive contamination into the filter but not enough to damage the tank.

Simple control



The DDF-MFR's push-button control panel uses clear labels that any service engineer or technician can understand. No specialist expertise is required.

The control panel allows for software integration and includes alarm and status indicators to alert operators to the presence of water or blocked filters.

The unit can be rapidly reset, turned off and on or switched into manual mode.

Exceptional filtration



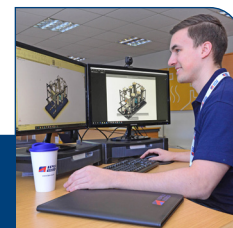
The DDF-MFR is equipped with a single filter cell housing that can be fitted with a selection of media to suit every clean-up application.

Advanced filter cells remove particulates down to 1µm at 99.9% efficiency, easily exceeding the 18/16/13 standard demanded by ISO4406.

The DDF-MFR is equally efficient at water removal, achieving levels of 200ppm or less.

Its effectiveness at removing contamination to such low levels helps guarantee generator reliability.

Bespoke design



DDF-MFR units are built to the customers' unique requirements. The technical expertise and professionalism of our sales and engineering teams ensure your needs are met.

We adjust the unit's dimensions, components, connections and arrangement to suit the genset it will protect.

By building them in bulk, we keep costs low.

All DDF-MFR units deliver clean fuel, whatever their configuration.

For more information

Please visit www.ipu.co.uk/fuel or call our friendly customer service team on 0121 511 0470.

RELATED PRODUCTS

FiltaSolid



FiltaSolid filter elements remove particulates from your fuel. The 800, 900 and 999 series offer 80.0%, 90.0% and 99.9% efficiency on particles between 1 and 800µm (microns).

FiltaSorb



FiltaSorb filter elements deliver unbeatable performance in water absorption. FiltaSorb cells also remove solid particulates down to 1µm (micron).

DDF1



With a flow rate of 50lpm, the Diesel Defence DDF1 is a fixed, on-tank unit that provides unattended fuel maintenance for tanks up to 5,000 litres.

DDM1



The DDM1 is the ideal entry-level solution for fuel contamination. Combining a powerful flow rate with portability and exceptional cleanliness capabilities, it keeps your fuel clean & dry.

DieselCheck



The DieselCheck portable diesel analyser quickly, accurately and economically checks a sample's water and particulate content and fuel density.

CASE STUDIES



Canary Wharf, London

Replaced high-maintenance, ineffective polishing unit; brought fuel into compliance with EN590.

www.ipu.co.uk/case1001



Good Hope Hospital

Fuel cleaning brought fuel into compliance with ISO4406 and EN590; no man-entry was required.

www.ipu.co.uk/case1002



IMPECCABLE DESIGN GENERATES SUPERIOR PERFORMANCE

IPU's high-performance fuel polishing units have evolved through years of real world use. Our impeccable design and manufacturing processes deliver superior results for our customers.

Integrated components

IPU's Diesel Defence range are integrated systems. Each component is designed or selected to work harmoniously with the rest of the unit.

Our pumps, for example, are selected to deliver a flow rate that produces optimum performance from our FiltaSorb and FiltaSolid filter elements.

Adhering to standards

Diesel Defence fuel polishers bring your stored fuel into specification with international standards.

Particulates are removed so fuel exceeds the 18/16/13 cleanliness standard specified by ISO4406.

Water is extracted from fuel to below the 200ppm (parts per million) level mandated by EN590.

Search our website (www.ipu.co.uk) for "ISO4406" and "EN590" for more details on fuel cleanliness standards.

SPECIFICATIONS

	DDF-MFR ¹
PERFORMANCE	
Flow rate ² (lpm)	Up to 50lpm
Indicative tank size (l)	1,000
Filtration Efficiency (max.)	99.9%
Particulate Removal (min) (µm)	1

BASIC SPECIFICATIONS	
Filter housing(s)	1
Filter size and type	Size 14
Enclosure	Mild Steel / Stainless Steel
Control System	Push-Button
Pump Type	Self-Priming Vane
Maximum system pressure (bar)	3
Remote Emergency Stop	With Enclosure Version
Differential Pressure Indicator	Yes
Float Switch	Optional

Notes

- 1 Specifications refer to a typical DDF-MFR unit. Exact capabilities and dimensions will vary according to the application.
- 2 Flow rates are maximum rates. Fuel cleanliness, fuel viscosity, distance and other conditions may affect actual performance in the field. Please contact IPU to ensure we offer the correct unit for your application.
- 3 Based on system specification.

SPECIFICATIONS

	DDF-MFR
ELECTRICAL	
Voltage (V)	230
Frequency (Hz)	50
ENVIRONMENTAL	
Noise Level (dBA @ 1m)	< 85
Operating Temperature (°C)	0 to 50°C
PHYSICAL	
Operating Size (hwd) (mm)	770 x 625 x 240
Dry weight (kg)	35
PIPEWORK & CONNECTIVITY	
Inlet Connections	1" BSP M Coned 60°
Outlet Connections	1" BSP M Coned 60°
BMS Output	Yes





THE COMPANY YOU WANT TO DO BUSINESS WITH

IPU helps businesses reach the profitability and efficiency they seek.

For nearly sixty years, we have delivered the expert assistance and customer service that lets our domestic and international customers excel in their industries.

We support businesses in sectors including power-generation, oil & gas, marine, IT & telecoms, manufacturing and government.

Our industry experience, competitive pricing and superb support let us evolve from a regular supplier to become the company our customers *want* to do business with.



For further details, please visit:
IPU.CO.UK/FUEL

For more information, please contact:
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