

# TWO-STAGE DIESEL FUEL FILTRATION THAT IS ECONOMICAL, SIMPLE & MOBILE

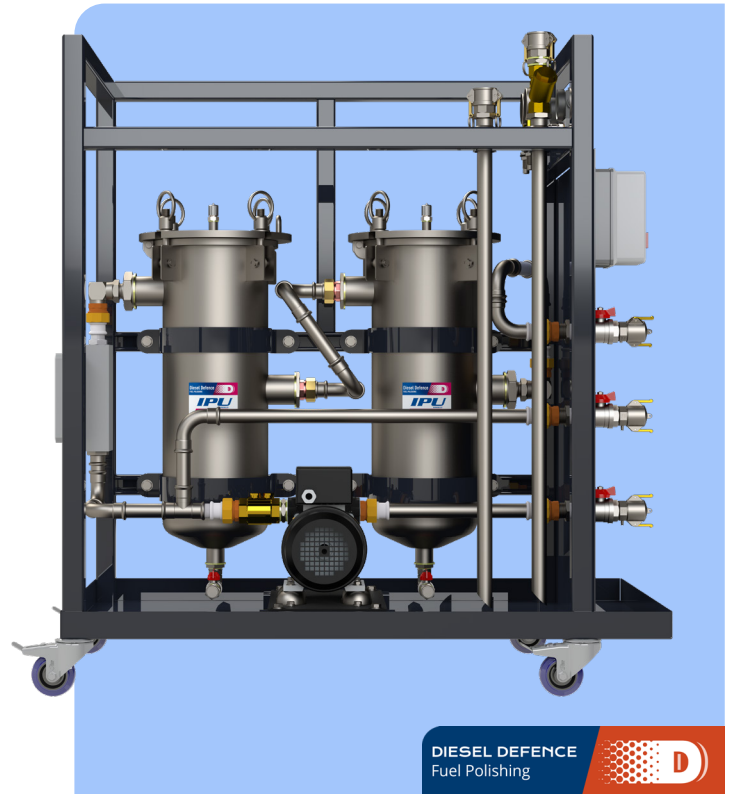
## A convenient & compact polisher with fast, two- stage fuel cleaning.

Diesel is the foundation which underpins the safe operation of our organisations and businesses. Hospitals, banks, data centres and regular companies rely on diesel-powered equipment. That diesel has to be clean.

The DDM3 is the first of our heavy-duty mobile polishers. It offers outstanding filtration efficiency and flow rates to ensure your equipment runs reliably. It can be fitted with an extensive range of filters to cater for the most complex clean-up operations.

The DDM3 can be moved between tanks to protect an entire building's diesel infrastructure. By circulating fuel aggressively, it prevents the build-up of harmful contaminants. It tackles the three main forms of contamination:

- Solid particulates.
- Water.
- Microbial growth.



### Exceptional flow rates

Flow rates of 150lpm and high capacity filter housings deliver the capacity to clean your fuel quickly and conveniently.

### Innovative filtration

The DDM3's filter housings work in series, generating a cumulative cleaning process for unparalleled water and particulate removal.

### ISO 4406 & EN 590 standards

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

Let's talk

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# CRITICAL POWER NEEDS CLEAN FUEL

A site's power generation infrastructure includes redundant hardware to reduce the chance of a critical failure. Most designs risk disaster by failing to treat their shared fuel stock as a single point of failure.



## The backup behind emergency power

Hospitals, banks, data centres, telecoms sites, retail outlets and government offices have to run 24/7. The country relies on their availability.

Emergency generators ensure they have electrical power even if grid power fails but emergency generators need clean fuel.

IPU safeguards that clean fuel.

## One less problem to fix

IPU helps you meet your business objectives. You do not want to be worried about contaminated fuel or unreliable power. Let IPU remove one weakness in your power infrastructure so you can concentrate on what makes your business a success.

## Professional service

IPU's services range from supplying an economical and standard fuel polishing system to manufacturing a bespoke unit to suit your site, staff and environment. These services can include:

- Site survey.
- Consultancy with site stake-holders.
- Physical, electrical and mechanical assessment.
- Detailed general assembly (GA) drawings.

## Fuel management professionals

IPU are a single-source provider for all aspects for fuel management and maintenance:

- On-site or lab-based fuel testing.
- Fuel cleaning or replenishment.
- Mobile and fixed fuel polishing units.
- Out-sourced fuel management service.

## Engine and fuel suppliers

Engine manufacturers and fuel suppliers have tightened their approach to fuel contamination.

Standard warranties on all major engine brands exclude damage caused by contaminated fuel. This damage can be deep within the engine on components such as fuel injectors. It is inevitably expensive to repair and cost falls on the operator - you.

Fuel suppliers advise any organisation storing fuel to employ appropriate measures to maintain the condition of their fuel. These measures include a fuel polishing system.

# PRODUCT HIGHLIGHTS

## Powerful pump



At IPU, we pride ourselves on the power of our fuel polishers and the speed with which they tackle their work.

The DDM3 uses an ultra-reliable self-priming centrifugal pump that achieves remarkably high flow rates of up to 150lpm (litres per minute).

A self-priming pump draws fuel from your storage tank even when the connecting pipes start empty. It eliminates the inconvenient and awkward process of 'wetting' the pump.

## Two-stage filtration



The DDM3's two filter housings give you great flexibility. They can both be dedicated to water removal or both to particulate removal or they can be split with one dedicated to each task.

The two filter housings both boast a high dirt-holding capacity which permits long, uninterrupted cleaning sessions.

An extensive range of filter elements cater for the most challenging clean-up applications.

## Simple control



The DDM3 is controlled through two simple start/stop buttons: green for 'on' and red for 'off'.

It is very clear for any engineer or technician to understand - no specialist expertise is required.

## Additional options

A full range of additional options are available on the DDM3, including:

- DieselCheck portable diesel analyser.
- Fluid sampling points.
- Water sensor.
- Flow meters.

## RELATED PRODUCTS

### FiltaSolid cells



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 cells



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

### DDM1



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

### DDM5



The DDM5 is a powerful filtration module that uses multi-stage filtration to protect your stored fuel. It offers flow rates of 250lpm and removes 100% free water.

### 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 10,000 litres.

### 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](http://www.ipu.co.uk/case1001)



**Good Hope Hospital**  
Fuel cleaning brought fuel into compliance with ISO 4406 and EN590; no man-entry was required.

[www.ipu.co.uk/case1002](http://www.ipu.co.uk/case1002)





# IMPECCABLE DESIGN GENERATES SUPERIOR PERFORMANCE

IPU's high-performance fuel polishing units have evolved through the 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 cells.

## 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 ISO4406:2017.

Water is extracted from fuel to below the 100ppm (parts per million) level mandated by EN590.

Search our website ([www.ipu.co.uk](http://www.ipu.co.uk)) for 'ISO 4406' and 'EN 590' for more details on fuel cleanliness standards.

# SPECIFICATIONS

	DDM3
<b>PERFORMANCE</b>	
Flow rate <sup>1</sup> (lpm)	Up to 150lpm
Indicative tank size (l)	30,000
Filtration Efficiency (max.)	99.9%
Particulate Removal (min) (µm)	1

<b>BASIC SPECIFICATIONS</b>	
Filter housing(s)	2
Filter size and type	Size 1
Control System	Push-Button
Pump Type	Gear pump or as specified
Maximum system pressure (bar)	3
Remote Emergency Stop	Optional
Differential Pressure Indicator	Dual Mechanical

## Notes

- 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.
- Based on system specification.

# SPECIFICATIONS

	DDM3
<strong>ELECTRICAL</strong>	
Voltage (V)	230
Frequency (Hz)	50
<strong>ENVIRONMENTAL</strong>	
Noise Level (dBA @ 1m)	< 85
Operating Temperature (°C)	0 to 50°C
Environmental Protection	IP66
<strong>PHYSICAL</strong>	
Size <sup>2</sup> (hwd) (mm)	1409 x 1348 x 720
Dry weight <sup>2</sup> (kg)	300



## 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](http://IPU.CO.UK/FUEL)

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