

PORTABLE & COMPACT DIESEL CLEANING FOR SMALL TANKS OR BOWSERS

Protect expensive equipment and plant from diesel contamination.

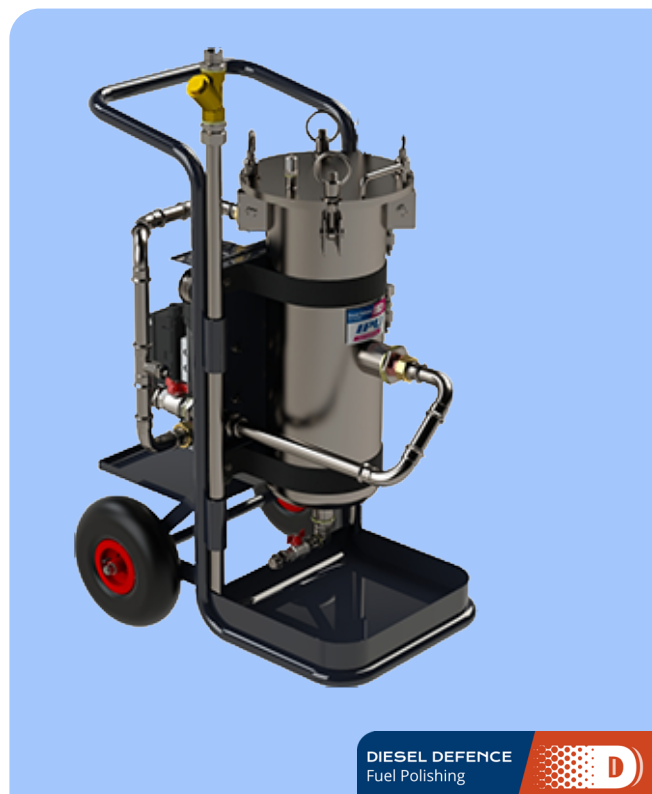
Mobile plant and machinery is especially vulnerable to fuel contamination. Construction, mining and manufacturing projects depend on expensive diesel-powered equipment to meet deadlines. To survive and thrive in such heavily contaminated environments, this equipment needs fuel polishing facilities.

The Diesel Defence DDM1 is a mobile polishing unit that excels in such environments. It can be wheeled between the tanks that feed your equipment or transported in a small van.

The DDM1 offers unrivalled versatility and guarantees exceptional cleanliness levels. It tackles all three of the main types of contamination:

- Water.
- Particulates.
- Microbial growth (the diesel bug).

The DDM1 is a vital component in making sure you meet your business targets.



DIESEL DEFENCE
Fuel Polishing

Flexible and compact

A range of filter elements allows the DDM1 to adapt to different challenges. One unit can tackle heavy contamination or final polishing.

Portable and economical

The DDM1 is easy to transport manually or in a small vehicle. One light, mobile unit protects your stored fuel and the equipment it powers.

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.



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

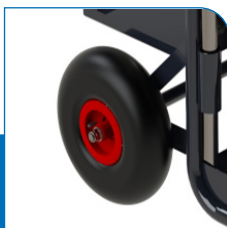
Engine manufacturers and fuel suppliers have tightened their approach to fuel contamination.

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

Portable & mobile



The DDM1 is lightweight, compact and portable. It is ideal for:

- Mobile equipment.
- Basement & rooftop tanks.
- Dispersed outdoor tanks.
- Tanks in confined access areas.

The design includes a rugged frame with a buggy handle, an integral drip tray and all-terrain castor wheels.

Powerful pump



The DDM1 uses an ultra-reliable self-priming vane pump that achieves high flow rates of up to 100lpm (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.

The pump boasts a suction lift height of up to 2 metres.

Exceptional filtration



The DDM1 uses IPU's standard filtration media so it can change from particulate to water removal as easily as changing one filter element for another.

When equipped with FiltaSolid media it can remove particulate contamination to well below the 18/16/13 standard mandated by ISO 4406.

If FiltaSorb media is used, the DDM1 can remove all free water and 99.9% of entrained water, comfortably meeting the 200ppm limit specified by EN 590.

Simple control



The DDM1 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.

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).

DDM2



The DDM2 retains the mobility of the DDM1 but uses a larger filter housing with greater dirt-holding capacity. This makes it ideal for tanks up to 10,000l.

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.

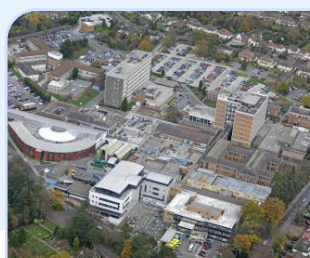
CASE STUDIES



Canary Wharf, London

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

www.ipu.co.uk/case1001



Good Hope Hospital

Fuel cleaning brought fuel into compliance with ISO 4406 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 ISO4406:2017.

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

Search our website (www.ipu.co.uk) for "ISO 4406" and "EN 590" for more details on fuel cleanliness standards.

SPECIFICATIONS

	DDM1
PERFORMANCE	
Flow rate ¹ (lpm)	Up to 100 lpm
Indicative tank size (l)	5,000
Filtration Efficiency (max.)	99.9%
Particulate Removal (min.) (µm)	1

BASIC SPECIFICATIONS	
Filter housing(s)	1
Filter size and type	Size 1
Control System	Push-Button
Pump Type	Self Priming Vane
Maximum system pressure (bar)	3
Remote Emergency Stop	No
Differential Pressure Indicator	Mechanical

Notes

- 1 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.

SPECIFICATIONS

	DDM1
ELECTRICAL	
Voltage (V)	110 / 230
Frequency (Hz)	60 / 50
ENVIRONMENTAL	
Noise Level (dBA @ 1m)	< 85
Operating Temperature (°C)	0 to 50°C
PHYSICAL	
Size (hwd) (mm)	1000 x 650 x 730
Dry weight (kg)	81



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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