



# DIESEL DEFENCE

## DDF-KOMPACT

### DIESEL DEFENCE KOMPACT SYSTEM

#### SMALL ENOUGH TO FIT, BIG ENOUGH TO PERFORM

The *Kompact* System is a high-performance fuel polishing system that continues the technology benefits from our previous ranges, protecting diesel fuel from harmful contaminants in storage tanks up to 1,000 litres capacity..

The system builds on IPU Group's extensive expertise in fuel management and provides a compact high-performance fuel polishing unit. This is custom designed to monitor and control fuel cleaning systems with a lower purchase and lifetime maintenance cost in mind. But this is achieved without compromising on performance. The Kompact System delivers an exceptional cleaning capability that is 87% higher than the industry standard, achieving a 13/11/18 level of Cleanliness..

**It's the perfect polisher to ensure your stored fuel remains in its best condition**

Controlling the system polishing system is a robust analogue input/output control module and enables remote control and continuous monitoring anytime

System flexibility is essential when operating in a diverse range of applications and so monitoring is highly adaptable, whether using the programmable time control function, manual control (fascia control) or expanded further to manage communication remotely via BMS input.



If the system senses a fault, the alarm becomes activated, and in standard operation, alerts to the cause of the shutdown. In addition, the control panel incorporates fused overload protection for pumps, and monitors feedback alerting the user to a pump fault which would prevent the fuel from being properly maintained.

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## FEATURES



### Dual stage filtering solution for particulate and water removal

- Stage 1 – 10µm Cim Tek Hydrosorb
- Stage 2 – 2µm Cim Tek Water Detect  
*(Factory standard supplied media)*

### High Capacity Cim Tek Filters

- Integrated pressure (clogging) sensors
- Rugged, space-optimized and reliable design

### Visual Alert to System Alarms

### Programmable Run Timer

### Integration into Building Management Systems

- Signal Inputs for control
- Volt-Free Outputs for feedback
- Modbus RTU over RS485



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### SYSTEM

Dimensions (H) x (W) x (D)	680mm x 645mm x 403mm
Weight	30Kg
Operating	-20°C - +60°C
Conditions	<90% RH
Environment	IP66
Connections	1" BSP Male Coned Inlet and Outlet

### FILTRATION

Fluid Compatibility	Diesel & mineral oils
Media	STAGE 1 FILTER – 10µm Absolute STAGE 2 FILTER – 2µm Absolute Water Detect

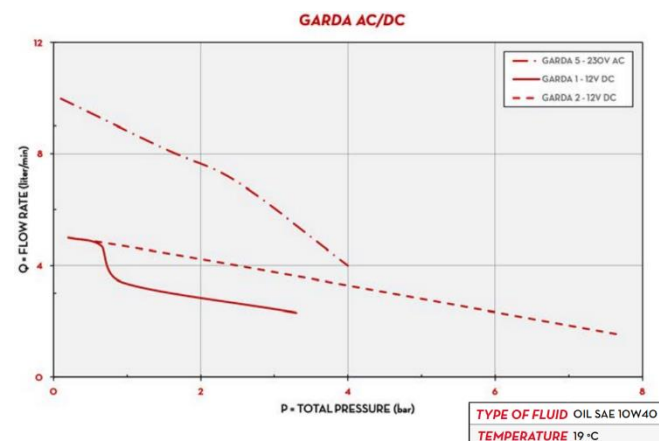
Filter Blocked	Electronic via Control Panel
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### ELECTRICAL

Voltage/Frequency	230V (±10%) / 50Hz, supplied with 3-Pin Blue Industrial Plug (3M Cable)
Motor Current	2A
Motor Protection	Monitored Fuse Protection

### PUMP

Flow	Max 10L/pm
Type	Self-priming Gear (Piusi Garda)
Duty Cycle	System managed
Noise Level	<85dB @ 1M



### ALARMS

Filter Clogged	2 off N/O switches
Flow Detection	1 off N/O switch
Motor Overload	1 off N/O switch, front panel resettable

### BMS CONNECTIVITY (Front Panel Screw Terminals)

Volt-Free Outputs	System Common Alarm System Running Alarm
Inputs	Remote Reset/Inhibit Remote Run

## TRUSTED KNOWLEDGE. TAILORED SOLUTIONS.

How well you understand a problem defines how well you solve it. Speak to an IPU technical specialist about fuel polishing and, after asking some astute questions, they'll provide a tailored solution you can trust - backed by years of industry experience and engine know-how.

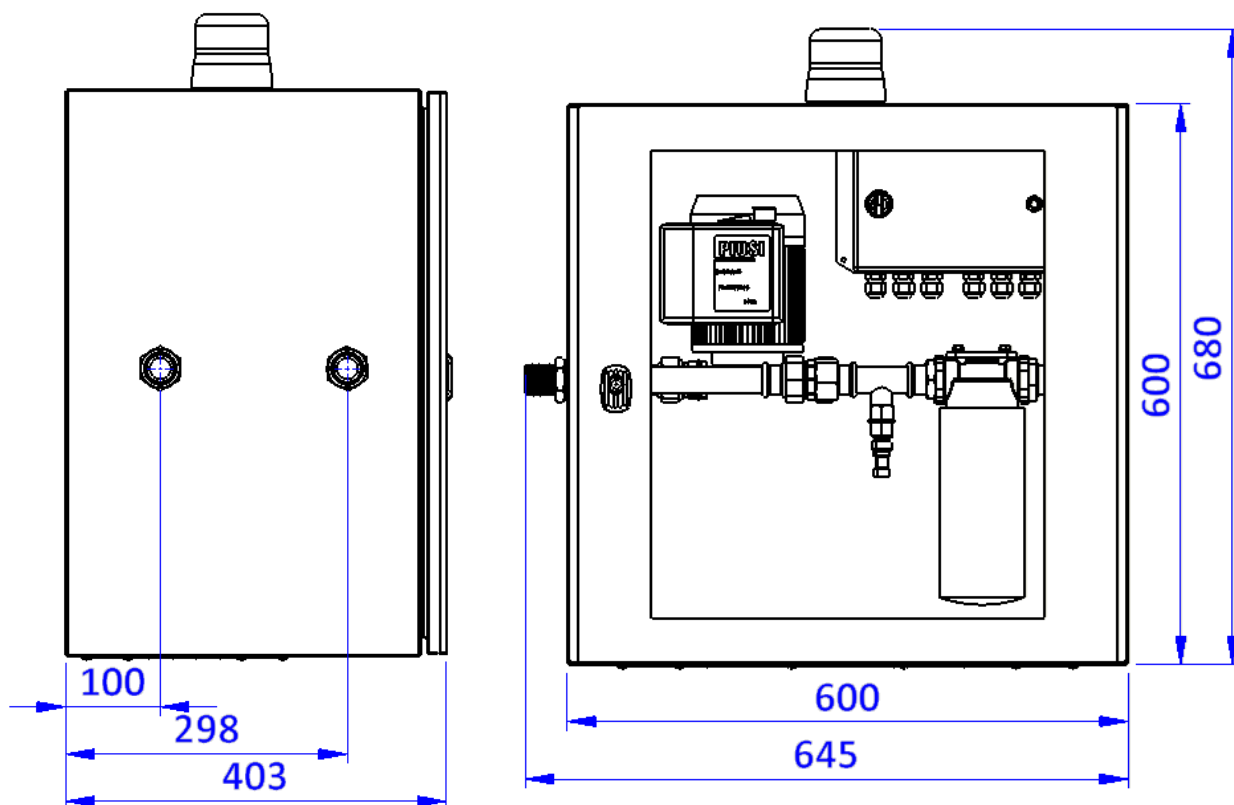


More details at [www.ipu.co.uk](http://www.ipu.co.uk)

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## LAYOUT DRAWINGS



## P & ID

