



# The next generation of on-tank fuel polishing units

## DIESEL DEFENCE DD100

### On-tank fuel polishing

When diesel is bulk stored without treatment for extended periods it will become contaminated with water and particulates. This is harmful to an engine as it can clog filters, damage fuel injectors or cause total engine failure.

Diesel Defence on-tank fuel polishing systems offer a simple and reliable solution. Through a process of recirculation fuel is continually passed through a series of filters, removing the harmful contaminants and maintaining an optimum EN590 level of cleanliness.

With a flow rate of 100 litres per minute, the DD100 is recommended for tanks holding between 40,000 and 75,000 litres of fuel (dependent upon tank and fuel condition).

#### Removes water

Advanced water absorbing filters remove virtually all free and emulsified water which can damage engine injectors.

#### Removes bacteria and solid particulates

Single and multi-stage filtration removes solid and microbial contamination to 5 microns or less.

#### Reliable fuel quality

Fuel is maintained to surpass ISO 4406's 18/16/13 standard of cleanliness and EN590's 200ppm level of water content.



# Product Datasheet

## DIESEL DEFENCE DD100



- Long term protection for fuel
- Maintains the quality of stored diesel
- Improves the reliability of critical systems
- Treats the fuel before it reaches the engine or daytanks
- Circulates fuel to prevent build up of contamination in stagnant parts of the tank

## Specifications

### Performance and Features

Flow rate (litres per minute)	100
Suggested tank size (litres)	40,000 - 75,000
Voltage (volts)	110, 230 (nominal voltage)
Frequency (hertz)	50, 60 (nominal frequency)
Max. Variations	Voltage: +/- 5% Frequency: +/- 2% of nominal value
Nominal Motor Wattage	230V/50Hz = 800W 110V/50Hz = 830W 120V/60Hz = 1000W
Nominal Motor Current (Amp)	230V/50Hz = 3.8 110V/50Hz = 9 120V/60Hz = 9.1
7-day timer	Yes
IP Rating of enclosure	65 (internal) / 55 (external)
Filter change alarm	Yes
Water in fuel alarm	Yes
Fuel bund alarm	Yes
Low flow rate alarm	Yes
E-stop alarm	Yes
Particulate filter (µm)	1, 5, 10, 25
Finishing filter (µm)	1, 5, 10, 25
ISO particle counter	No
Alarm beacon	Optional
Touch screen controller	Yes
Dimensions	1700mm(h) x 1200mm(w) x 500mm(d)

### Standard Features

- Password-protected touch-screen controller
- Connection to Building Management System
- Particulate filter - 1, 5, 10 or 25 µm
- Finishing filter - as standard this is fitted with a water absorbing filter
- Fuel isolation solenoid valves
- Filter blocked/change alarm warning
- Water drain alarm warning
- Schneider controls

### Optional Features

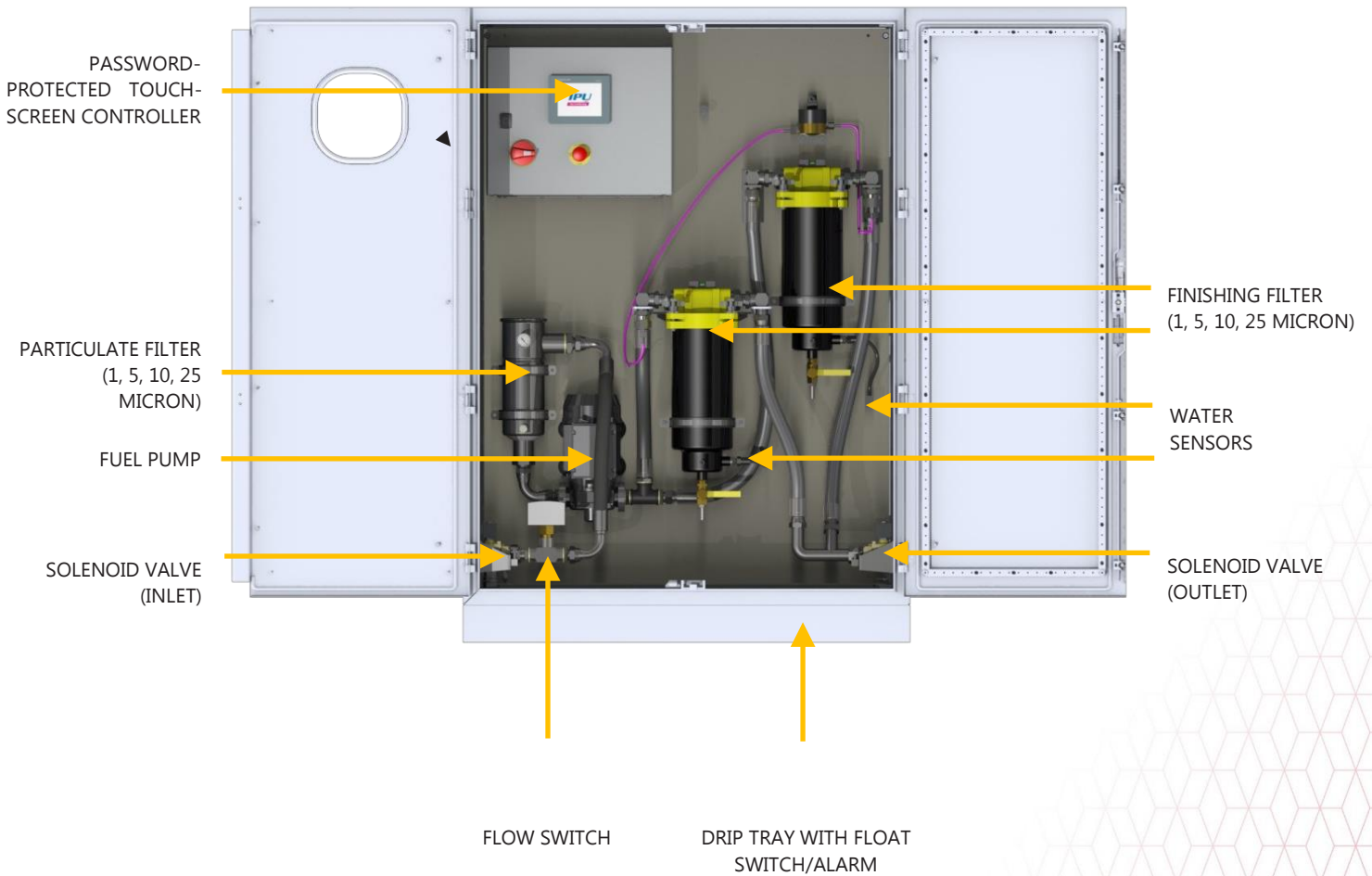
- Vented Enclosure (with extractor fan)
- External Alarm Beacon
- ISO Particle Counter
- Stainless steel enclosure
- Water coalescing filter (instead of standard water absorbing filter)

### Additional Services

- DieselCheck Fuel Testing
- ClearTank Fuel Cleaning
- ADV Fuel Stabilisation



# Layout





*Protect your engine*

DS Activity S.A.

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