



PDSES

FUEL MAINTENANCE

Fuel Maintenance

Diesel fuel begins to degrade within three weeks from the time it leaves the refinery. The fuel degradation affects the caloric value, causing higher fuel consumption, and exposing the fuel to chemical changes. In addition the new formula of diesel fuel is very low in sulfur and is formulated to reduce emissions during the engine combustion process. Unfortunately, this lack of sulfur causes the diesel fuel to absorb water and fosters the development of algae and other biological growth as well as other elements that damage the fuel.

Furthermore, the engines, and especially their fuel systems, have improved. They are now so sensitive that any contaminants can cause immediate damage to the high pressure pump or the injectors, that are very costly components of the engines. Not to mention if the engine failure occurs during emergencies - at a time when the generator support for your electrical system is most critical - the damage caused and the high cost of parts are the least of your problems.

Most companies invest large sums in generators, synchronizing systems, controls, infrastructure and other elements of their backup systems. That large investment is made in order to cover relatively short periods of power outages. Fuel degradation and contamination, however, will cause premature failure of your engines, leaving you without the support you desperately need.

That is why it is so critical to maintain the quality of the fuel in your generators.

PDSES Power's founder began utilizing pro-active fuel maintenance programs in African mines in the early 2000s. That experience in Africa taught us how to adapt the successful use of the altered diesel fuel in the new machines. We spent years experimenting and gathering data about many different engines and the fuel's effect on them.

Today, PDSES Power uses this experience and knowledge to offer you a complete solution for your diesel fuel: a fully automated system that will keep your fuel pristine and ready to use, delivering the highest quality liquid energy to your engine.



800

Enclosed Automated Fuel Maintenance Systems



Benefits

- ✓ Prevents and removes any biological growth
- ✓ Removes water down to 50 ppm
- ✓ Removes solid particles down to 1 micron
- ✓ Advanced filter media
- ✓ Fully automated
- ✓ Fuel tanks will no longer require routine cleaning
- ✓ Easy to install and maintain
- ✓ Very low maintenance costs
- ✓ Keeps the fuel additives suspended in the fuel
- ✓ Keeps your diesel fuel clean and fresh for many years

PDSES Power 800 series is designed to support emergency diesel fuel tank up to 7,600 Liters (2,000 Gallons) Volume Or small private refuel stations. Can also use as mobile unit

ITEM	800
flow rate LPH/GPM	800/3.5
primary filter- pdses water separator	KB8514AA with auto drain
secondary filter pdses depth filter	KBSD X 1
PLC	PDSES Main programmed controller 7" touch screen to control all machine sensors and outage communications - Modbus , IP or GPRS (optional)
power pack	High quality monoblock gear pump
electric motor	FLP Electric Motor 0.75 KW, 1HP, 4 Pole, 1440 RPM, Foot cum Face Mounted (B34) 415 Volts, 50Hz, 3 Phase, Class F, IP 55 Frame Size: 80 FLP
plumbing	1/2" SS or metal hoses
main cabinet	Heavy duty outdoor cabinet (powder coated or stainless steel) with adjustable foot, and wall mount
internal cabinet	IP55 cabinet for all electronic devices, powder coated or stainless Steel
dimensions	Metric (mm) : W-850/H-1300/D-380 Inch : W-33.4"/H-51.2" / D-15"
weight	110 Kg 242 Lbs
particle removal capability	Down to 1 micron of solid or semi-solid particles
water removal capability	Down to 50 PPM of free and dissolved water

1200 Enclosed Automated Fuel Maintenance Systems



Benefits

- ✓ Prevents and removes any biological growth
- ✓ Removes water down to 50 ppm
- ✓ Removes solid particles down to 1 micron
- ✓ Advanced filter media
- ✓ Fully automated
- ✓ Fuel tanks will no longer require routine cleaning
- ✓ Easy to install and maintain
- ✓ Very low maintenance costs
- ✓ Keeps the fuel additives suspended in the fuel
- ✓ Keeps your diesel fuel clean and fresh for many years

PDSES Power 1200 series is designed to support emergency diesel fuel tank up to 10,600 liters (2,800 gallons) volume or small private refuel stations. Can also use as mobile unit.

ITEM	1200
flow rate LPH/GPM	1200/5.3
primary filter- pdses water separator	KB8514AA with auto drain
secondary filter- pdses depth filter	KBSD X 1
PLC	PDSES Main programed controller 7" Touch screen to control all machine sensors and outage communications - Modbus , IP or GPRS (optional)
power pack	High Quality monoblock gear pump
electric motor	FLP Electric Motor 0.75 KW, 1HP, 4 Pole, 1440 RPM, Foot cum Face Mounted (B34) 415 Volts, 50Hz, 3 Phase, Class F, IP 55 Frame Size: 80 FLP
plumbing	1/2" SS Or metal hoses
main cabinet	Heavy Duty Outdoor Cabinet Powder Coated Or Stainless Steel with Adjustable foot, and wall mount
internal cabinet	IP55 cabinet for all electronic devices, Powder coated or Stainless Steel
dimensions	Metric (mm) : W-850/H-1300/D-380 Inch : W-33.4"/H-51.2" / D-15"
weight	110 Kg 242 Lbs
particle removal capability	Down to 1 Micron of Solid or Sami-Solid particles
water removal capability	Down to 50 PPM of free and dissolved water

800A | 1200A

Enclosed Automated Fuel Maintenance Systems



Benefits

- ✓ Prevents and removes any biological growth
- ✓ Removes water down to 50 ppm
- ✓ Removes solid particles down to 1 micron
- ✓ Advanced filter media
- ✓ Fully automated
- ✓ Fuel tanks will no longer require routine cleaning
- ✓ Easy to install and maintain
- ✓ Very low maintenance costs
- ✓ Keeps the fuel additives suspended in the fuel
- ✓ Keeps your diesel fuel clean and fresh for many years

PDESE Power 800A series is designed to support emergency diesel fuel tank up to 7,600 liters (2,000 gallons) volume or small private refuel stations. Can also use as mobile unit.

PDESE Power 1200A series is designed to support emergency diesel fuel tank up to 10,600 liters (2,800 gallons) volume or small private refuel stations. Can also use as mobile unit.

ITEM	800A	1200A
flow rate LPH/GPM	800/3.5	1200/5.3
primary filter- pdses water separator		none
secondary filter pdses depth filter		KBSD X 1
PLC	PDESE Main programmed controller 7" touch screen to control all machine sensors and outage communications - Modbus , IP or GPRS (optional)	
power pack	High quality monoblock gear pump	
electric motor	FLP Electric Motor 0.75 KW, 1HP, 4 Pole, 1440 RPM, Foot cum Face Mounted (B34) 415 Volts, 50Hz, 3 Phase, Class F, IP 55 Frame Size: 80 FLP	
plumbing	1/2" SS or metal hoses	
main cabinet	Heavy duty outdoor cabinet powder coated or stainless steel with adjustable foot, and wall mount	
internal cabinet	IP55 cabinet for all electronic devices, powder coated or stainless Steel	
dimensions	Metric (mm) : W-850/H-1300/D-380 Inch : W-33.4"/H-51.2" / D-15"	
weight	98 Kg 216 Lbs	
particle removal capability	Down to 1 micron of solid or semi-solid particles	
water removal capability	Down to 50 PPM of free and dissolved water	

2100 Enclosed Automated Fuel Maintenance Systems



Benefits

- ✓ Prevents and removes any biological growth
- ✓ Removes water down to 50 ppm
- ✓ Removes solid particles down to 1 micron
- ✓ Advanced filter media
- ✓ Fully automated
- ✓ Fuel tanks will no longer require routine cleaning
- ✓ Easy to install and maintain
- ✓ Very low maintenance costs
- ✓ Keeps the fuel additives suspended in the fuel
- ✓ Keeps your diesel fuel clean and fresh for many years

PDSES Power 2100 series is designed to support emergency diesel fuel tank up to 50,000 liters (13,200 gallons) volume or small private refuel stations. Can also use as mobile unit.

ITEM	2100
flow rate LPH/GPM	2100/9.26
primary filter- pdses water separator	LS21532AA
secondary filter pdses depth filter	SDX2
PLC	PDSES Main programed controller 7" Touch screen to control all machine sensors and outage communications - Modbus , IP or GPRS (optional)
power pack	High Quality monoblock gear pump
electric motor	FLP Electric Motor (1.5KW, 2HP, 4 Pole, 1440 RPM, Foot cum Face Mounted (B34) 415 Volts, 50Hz, 3 Phase, Class F, IP 55 Frame Size: 90 FLP
plumbing	3/4" SS Or metal hoses
main cabinet	Heavy Duty Outdoor Cabinet Powder Coated Or Stainless Steel with Adjustable foot, and wall mount
internal cabinet	IP55 cabinet for all electronic devices, Powder coated or Stainless Steel
dimensions	Metric (mm) : W-1100/H-1500/D-380 Inch : W-43"/H-59" / D-15"
weight	132 Kg 291 Lbs
particle removal capability	Down to 1 Micron of Solid or Sami-Solid particles
water removal capability	Down to 50 PPM of free and dissolved water

3200

Enclosed Automated Fuel Maintenance Systems



Benefits

- ✓ Prevents and removes any biological growth
- ✓ Removes water down to 50 ppm
- ✓ Removes solid particles down to 1 micron
- ✓ Advanced filter media
- ✓ Fully automated
- ✓ Fuel tanks will no longer require routine cleaning
- ✓ Easy to install and maintain
- ✓ Very low maintenance costs
- ✓ Keeps the fuel additives suspended in the fuel
- ✓ Keeps your diesel fuel clean and fresh for many years

PDEES Power 3200 series is designed to support emergency diesel fuel tank up to 75,000 liters (19,750 gallons) volume or small private refuel stations. Can also use as mobile unit.

ITEM	3200
flow rate LPH/GPM	3200/14.1
primary filter- pdses water separator	KB37620AA with auto drain
secondary filter pdses depth filter	KBSD X 3
PLC	PDEES Main programed controller 7" Touch screen to control all machine sensors and outage communications - Modbus , IP or GPRS (optional)
power pack	High Quality monoblock gear pump
electric motor	FLP Electric Motor 1.5KW, 2HP, 4 Pole, 1440 RPM, Foot cum Face Mounted (B34) 415 Volts, 50Hz, 3 Phase, Class F, IP 55 Frame Size: 90 FLP
plumbing	3/4" SS Or metal hoses
main cabinet	Heavy Duty Outdoor Cabinet Powder Coated Or Stainless Steel with Adjustable foot, and wall mount
internal cabinet	IP55 cabinet for all electronic devices, Powder coated or Stainless Steel
dimensions	Metric (mm) : W-1100/H-1500/D-380 Inch : W-43"/H-59" / D-15"
weight	148 Kg 326 Lbs
particle removal capability	Down to 1 Micron of Solid or Sami-Solid particles
water removal capability	Down to 50 PPM of free and dissolved water

3200B

Enclosed Automated Fuel Maintenance Systems



Benefits

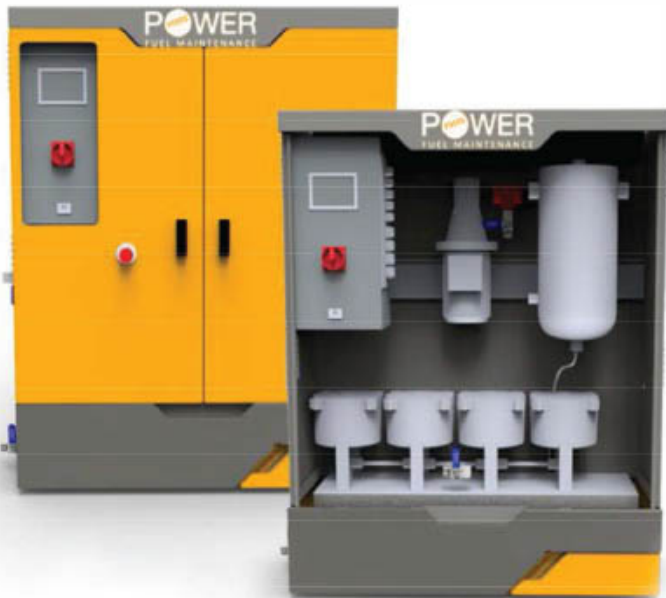
- ✓ Prevents and removes any biological growth
- ✓ Removes water down to 50 ppm
- ✓ Removes solid particles down to 1 micron
- ✓ Advanced filter media
- ✓ Fully automated
- ✓ Fuel tanks will no longer require routine cleaning
- ✓ Easy to install and maintain
- ✓ Very low maintenance costs
- ✓ Keeps the fuel additives suspended in the fuel
- ✓ Keeps your diesel fuel clean and fresh for many years

PDSES Power 3200B series is designed to support emergency diesel fuel tank up to 75,000 liters (19,750 gallons) volume or small private refuel stations. Can also use as mobile unit.

ITEM	3200B
flow rate LPH/GPM	3200/14.1
primary filter- pdses water separator	KB37620AA with auto drain
secondary filter pdses depth filter	none
PLC	PDSES Main programed controller 7" Touch screen to control all machine sensors and outage communications - Modbus , IP or GPRS (optional)
power pack	High Quality monoblock gear pump
electric motor	FLP Electric Motor 1.5KW, 2HP, 4 Pole, 1440 RPM, Foot cum Face Mounted (B34) 415 Volts, 50Hz, 3 Phase, Class F, IP 55 Frame Size: 90 FLP
plumbing	3/4" SS Or metal hoses
main cabinet	Heavy Duty Outdoor Cabinet Powder Coated Or Stainless Steel with Adjustable foot, and wall mount
internal cabinet	IP55 cabinet for all electronic devices, Powder coated or Stainless Steel
dimensions	Metric (mm) : W-1100/H-1500/D-380 Inch : W-43"/H-59" / D-15"
weight	126 Kg 278 Lbs
particle removal capability	Down to 1 Micron of Solid or Sami-Solid particles
water removal capability	Down to 50 PPM of free and dissolved water

4500

Enclosed Automated Fuel Maintenance Systems



Benefits

- ✓ Prevents and removes any biological growth
- ✓ Removes water down to 50 ppm
- ✓ Removes solid particles down to 1 micron
- ✓ Advanced filter media
- ✓ Fully automated
- ✓ Fuel tanks will no longer require routine cleaning
- ✓ Easy to install and maintain
- ✓ Very low maintenance costs
- ✓ Keeps the fuel additives suspended in the fuel
- ✓ Keeps your diesel fuel clean and fresh for many years

PDSES Power 4500 series is designed to support emergency diesel fuel tank up to 100,000 liters (26,300 gallons) volume or small private refuel stations. Can also use as mobile unit.

ITEM	4500
flow rate LPH/GPM	4500/19.8
primary filter- pdses water separator	KB37620AA with auto drain
secondary filter pdses depth filter	KBSD X 4
PLC	PDSES Main programed controller 7" Touch screen to control all machine sensors and outage communications - Modbus , IP or GPRS (optional)
power pack	High Quality monoblock gear pump
electric motor	FLP Electric Motor 2.2KW, 3HP, 4 Pole, 1440 RPM, Foot cum Face Mounted (B34) 415 Volts, 50Hz, 3 Phase, Class F, IP 55 Frame Size: 100 FLP
plumbing	3/4" SS Or metal hoses
main cabinet	Heavy Duty Outdoor Cabinet Powder Coated Or Stainless Steel with Adjustable foot, and wall mount
internal cabinet	IP55 cabinet for all electronic devices, Powder coated or Stainless Steel
dimensions	Metric (mm) : W-1100/H-1500/D-380 Inch : W-43"/H-59" / D-15"
weight	155 Kg 342 Lbs
particle removal capability	Down to 1 Micron of Solid or Sami-Solid particles
water removal capability	Down to 50 PPM of free and dissolved water

4500B

Enclosed Automated Fuel Maintenance Systems



Benefits

- ✓ Prevents and removes any biological growth
- ✓ Removes water down to 50 ppm
- ✓ Removes solid particles down to 1 micron
- ✓ Advanced filter media
- ✓ Fully automated
- ✓ Fuel tanks will no longer require routine cleaning
- ✓ Easy to install and maintain
- ✓ Very low maintenance costs
- ✓ Keeps the fuel additives suspended in the fuel
- ✓ Keeps your diesel fuel clean and fresh for many years

PDSES Power 4500B series is designed to support emergency diesel fuel tank up to 100,000 liters (26,300 gallons) volume or small private refuel stations. Can also use as mobile unit.

ITEM	4500B
flow rate LPH/GPM	4500/19.8
primary filter- pdses water separator	KB37620AA with auto drain
secondary filter pdses depth filter	none
PLC	PDSES Main programed controller 7" Touch screen to control all machine sensors and outage communications - Modbus , IP or GPRS (optional)
power pack	High Quality monoblock gear pump
electric motor	FLP Electric Motor 2.2KW, 3HP, 4 Pole, 1440 RPM, Foot cum Face Mounted (B34) 415 Volts, 50Hz, 3 Phase, Class F, IP 55 Frame Size: 100 FLP
plumbing	3/4" SS Or metal hoses
main cabinet	Heavy Duty Outdoor Cabinet Powder Coated Or Stainless Steel with Adjustable foot, and wall mount
internal cabinet	IP55 cabinet for all electronic devices, Powder coated or Stainless Steel
dimensions	Metric (mm) : W-1100/H-1500/D-380 Inch : W-43"/H-59" / D-15"
weight	126 Kg 278 Lbs
particle removal capability	Down to 1 Micron of Solid or Sami-Solid particles
water removal capability	Down to 50 PPM of free and dissolved water

PDSES

FUEL MAINTENANCE

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