

JOHN DEERE 4045DFM50

> (40-48 kW) @ 1500-1800 RPM

- > Water cooled exhaust manifold
- > Low noise and vibrations



John Deere Auxiliary Engine

4045DFM50 is a classic and robust naturally aspirated engine. It has a mechanical fuel pump and can be supplied with keel cooling or heat exchanger. The exhaust manifold is water cooled, resulting in low surface temperatures and reliable operation. 12 or 24 volt electrical system, with Nogva Motor Computer Monitoring system.

| Rated power and fuel consumption | | | | |
|----------------------------------|------------------|-----------|------------------|-----------|
| <u>RPM / Hz</u> | <u>1500 / 50</u> | | <u>1800 / 60</u> | |
| Generator effect | 40 kW | | 48 kW | |
| Fuel Consumption 100% | 10,1 L/h | 215 g/kWh | 12,6 L/h | 223 g/kWh |
| Fuel Consumption 75% | 7,7 L/h | 218 g/kWh | 9,4 L/h | 222 g/kWh |
| Fuel Consumption 50% | 5,4 L/h | 230 g/kWh | 6,7 L/h | 237 g/kWh |
| Fuel Consumption 25% | 3,4 L/h | 289 g/kWh | 4,7 L/h | 333 g/kWh |

Standard equipment

- > Diesel automatics D1
- > Hassler fininstiller for RPM
- > 2-pole electrical system
- > Heat exchanger
- > Exhaust compensator
- > Silencer
- > Bilge pump for lub.oil
- > Engine brackets
- > Water cooled manifold
- > Vibration isolators
- > Base frame in steel
- > Heat elements in generator
- > With droop transformer for parallel operation
- > Closed crankcase ventilation with filter

Optional equipment

- > Electronic regulation
- > Box cooler / Keel cooler
- > Radiator cooling
- > Engine heater
- > Double wall fuel pipe
- > Nogva Motor Computer

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| General Data | | Exhaust System | | |
|--------------------------------------|-----------------------------------|-----------------------|-------------------------|-------------------------|
| Model | 4045DFM50 | <u>RPM / Power</u> | <u>1500 / 40 kW</u> | <u>1800 / 48 kW</u> |
| Number of cylinders | 4 | Exhaust temperature | 474 °C | 492 °C |
| Engine type | In-line, 4-cycle | Exhaust flow | 6,5m ³ /min | 8,2m ³ /min |
| Aspiration | Natural | Max. back pressure | 7,5 kPa | 7,5 kPa |
| Bore and stroke | 106 x 127 mm | Min. exhaust diameter | Dry 50mm Wet 63mm | Dry 50mm Wet 63mm |
| Displacement | 4500 cm ³ | Cooling System | | |
| Compression ratio | 17.2:1 | Heat rejected | 31 kW 1775 BTU/min | 41 kW 2325 BTU/min |
| Max installation angle | Front up – 12° Front down – 0° | Radiated heat | 5,1 kW 290 BTU/min | 6,3 kW 360 BTU/min |
| Weight, dry | 437 kg | Coolant flow | 116 L/min | 125 L/min |
| Combustion system | Direct injection | Sea water pump flow | 68 L/min | 83 L/min |
| Oil capacity | 14,8 L | Max. Suction lift | 3 m | 3 m |
| Fuel System | | Coolant capacity | 12 L | 12 L |
| Governor type | Mechanical | Air System | | |
| Max fuel transfer pump suction | 0,9 m | Min. ventilation area | 0,017 m ² | 0,022 m ² |
| Max fuel height above injection pump | 1,4 m | Engine air flow | 2,7 m ³ /min | 3,4 m ³ /min |

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Dimensions with Stamford UCM224D

