

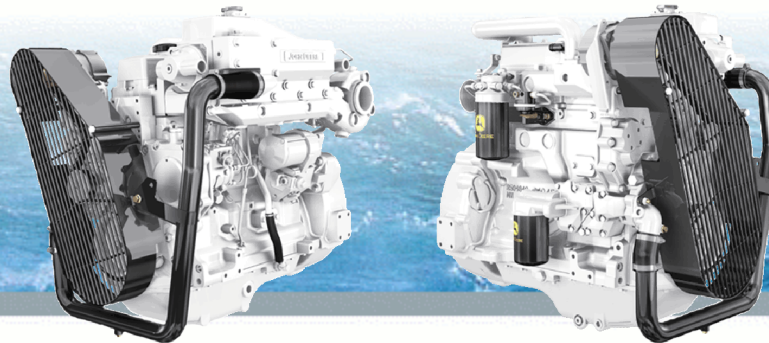


# JOHN DEERE

PowerTech™

## 4045TFM75 Marine Engine

### Auxiliary Specifications



shown

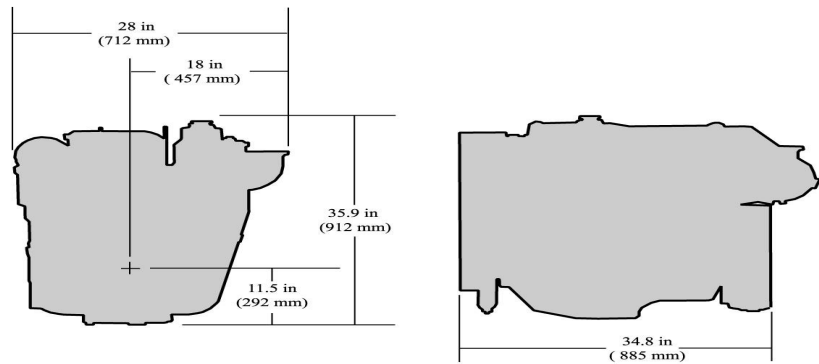
#### General Data

Model .....	4045TFM75	Length-- mm (in) .....	885 (34.8)
Number of cylinders .....	4	Width-- mm (in) .....	712 (28.0)
Displacement-- L (cu in) .....	4.5 (275)	Height, Centerline to Top-- mm. (in) .....	620 (24.4)
Bore and Stroke-- mm (in) .....	106.5 x 127 (4.19 x 5.00)	Height, Centerline to Bottom-- mm. (in) .....	292 (11.5)
Compression Ratio .....	17.6:1	Weight, dry-- kg (lb) .....	462 (1019)
Engine Type .....	In-line, 4- Cycle	maximum Installed Angle	
Aspiration .....	Turbocharged	Front Up - degrees .....	12
		Front Down - degrees .....	0

#### Certifications

- IMO MARPOL Annex VI
- EPA Tier 2
- China Classification Society
- Det Norske Veritas

#### Dimensions



#### Features and Benefits

##### Watercooled Turbocharger and Exhaust Manifold

- Cooler and quieter environment for vessel and crew
- Reduced external connections eliminates hoses and fittings that can leak or break

##### Replaceable Wet-type Cylinder Liners

- Excellent heat dissipation
- Hardened and precision machined for long life
- Rebuild to original specifications

##### Internal Balancers

- Low noise and vibration for crew comfort

##### Corrosion Resistant Components

- Provides engine protection from the effects of seawater

##### Either-side Service

- Oil fill and dipstick combinations
- Remote oil filter for easier service access
- Application and service flexibility to provide installation convenience plus fast and easy maintenance

##### Heat Exchanger or Keel Cooled

- High-capacity heat exchanger designed for reliable operation in adverse conditions
- Integrated expansion tank, heat exchanger and exhaust manifold reduce chances of leaks
- Keel cooler options provide application flexibility

##### High Torque and Low Rated RPM

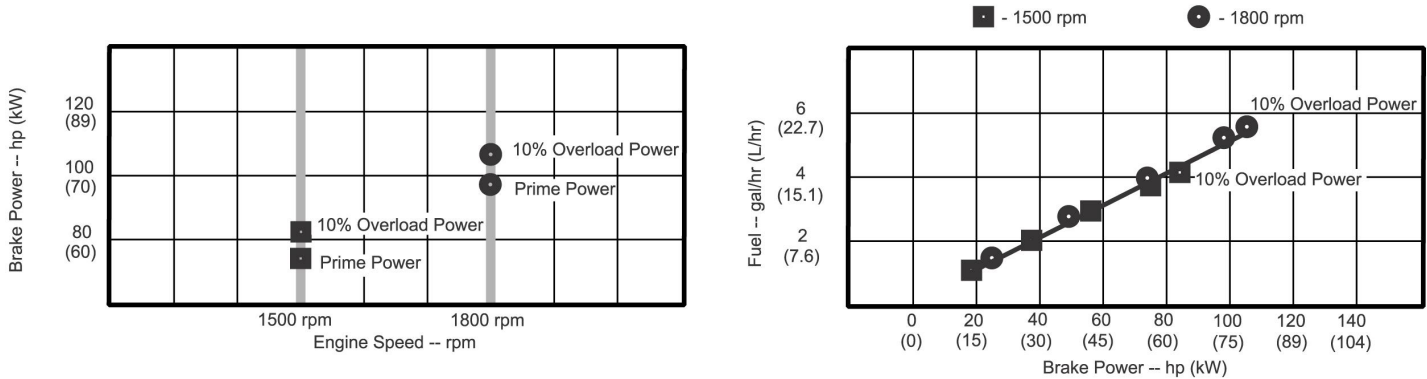
- Enables the engine to turn larger propellers at lower speed for best efficiency
- Excellent vessel control and maneuvering
- Lower rated rpm limits vibration and noise for better crew comfort

##### Fuel System

- Electronically controlled rotary fuel injection pump with variable timing resulting in excellent fuel economy and excellent performance
- Self diagnostics and protection
- Electronic instrument panel with plain text messaging

## Auxiliary Specifications

### Performance curve



### System Data

	1800 rpm	1500 rpm
<b>Air system</b>		
Engine air flow - m <sup>3</sup> /min (ft <sup>3</sup> /min)	5.2 (183.6)	3.5 (123.6)
<b>Exhaust system</b>		
Dry - mm (in)	65 (2.6)	65 (2.6)
Wet - mm (in)	75 (3.0)	75 (3.0)
<b>Cooling system</b>		
Coolant flow - L/min (gal/min)	125 (33.0)	116 (30.6)
<b>Sea water system</b>		
Pump flow - L/min (gal/min)	84 (22.2)	70 (18.5)
<b>Fuel system</b>		
Governor type	Electronic	Electronic
Governor regulation - %	0-5	0-5
Total fuel flow - L/hr (gal/hr)	113 (29.9)	109 (28.8)

### Performance data

	1800 rpm	1500 rpm
10% overload engine Power - kW (hp)	80 (107.3)	61 (81.8)
Prime engine power - kW (hp)	73 (97.9)	56 (75.1)
Low idle speed - rpm	1150	1150
BMEP - kPa (psi)	1071 (155)	980 (142)

### Performance data

Hz (rpm)	Generator Efficiency %	Keel Cooled (no fan)		Power Factor	Calculated Gen-Set Rating	
					kW	kVA
50 (1500)	88-92	--	--	0.8	48-51	60-64
60 (1800)	88-92	--	--	0.8	64-67	80-84



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