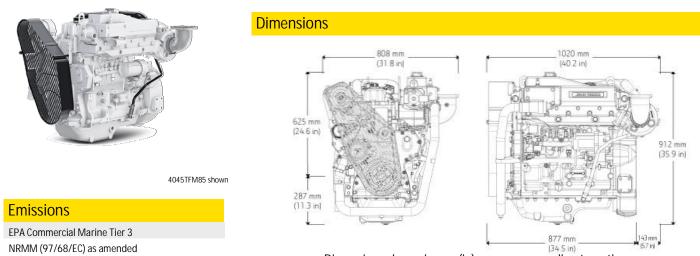
PowerTech[™] 4045TFM85 Diesel Engine



Marine Propulsion Engine Specifications



Dimensions shown in mm (in) may vary according to options selected. Contact your distributor for more information.

General Data (Based on Standard Option Configuration)				
Model	4045TFM85	Length maximum - mm (in)	1020 (40.2)	
Number of cylinders	4	Length to rear face of flywheel housing - mm (ir	n) 877 (34.5)	
Displacement - L (cu in)	4.5 (275)	Flywheel housing SAE	3	
Bore and Stroke mm (in)	106 x 127 (4.17 x 5.00)	Height - mm (in) 912 (35.90000000 06)		
Engine Type	In-line, 4- Cycle			
Aspiration	Turbocharged	Height, crankshaft centerline to top - mm (in)	625 (24.6)	
		Height, crankshaft centerline to bottom - mm (i	n) 287 (11.3)	
Classification Societies		Weight, dry - kg (lb)	507 (1118)	

CCS, DNV-GL

*SOLAS and other accessories available. Contact your distributor for details.

Engine Specifications				
kW (bhp) Rated Speed (rpm) Rated fuel consumption L/hr (gal/hr)				
0) 2400 21.5 (5.7)				
5) 2500 29.1 (7.7)				
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Metric hp = Brake hp x 1.01387

M rating	M1	M2
Typical load factor	> 65%	< =65%
Typical annual usage (hr)	Unrestricted	3,000-5,000 hr
Typical full-power operation (hr)	Uninterrupted	16 of each 24 hr

Ratings are based on ISO 8655 standard power rating and the SAE J1 228 crankshaft power rating. Flexibility of installation due to range of options. See your John Deere Power Systems engine distributor or marine dealer for more detailed performance information.

Features and Benefits

High Torque and Low Rated RPM

 High torque provides excellent vessel control and maneuverability. Lower rated propulsion RPM reduces vibration and noise for improved crew comfort.

High-pressure Common-rail (HPCR)

 The HPCR fuel system provides variable common-rail pressure, multiple injections, and higher injection pressures. It also controls fuel injection timing and provides precise control for the start, duration, and end of injection. Electronic transfer pump is self-priming for ease of maintenanc e. Provides high performance, excellent fuel economy, and low emissions.

Water-cooled Exhaust Manifold

 Integrated components eliminate external hoses and fittings that can leak or break. Wet exhaust manifold creates a cooler and quieter environment for passengers and crew.

Replaceable Cylinder Liners

- Replaceable wet-type cylinder liners are precision-machined and hardened for long life. Allows engine to be rebuilt to original specifications.

Electronic Engine Control Unit (ECU)

 Advanced fault code diagnostics and customizable engine protections ensure reliability and uptime. Provides highly customizable features and trim to integrate your vessel.

Integrated Heat Exchanger

 Integrated expansion tank, heat exchanger, and exhaust manifold reduce the chance of leaks. High-capacity heat exchanger provides reliable operation in adverse conditions.

Keel-cooled or Heat Exchanger

 Closed cooling system in keel-cooled engine option eliminates the need for a sea strainer, seawater pump, or anodes. Heat exchanger option offers a lighter, more compact, and simpler engine installation.

Internal Balancers

- Internal balancers reduce engine noise and vibration for crew comfort. NOTE: John Deere 4045 engines only.

Multiple Service Options

- Either-side oil fill/dipstick combinations and remote oil and fuel filter options are available for easier service access.

John Deere Power Systems

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45401 Fleury les Aubrais Cedex France Phone: 33.2.38.82.61.19 Fax: 33.2.38.82.60.00 All values at rated speed and power with standard options unless otherwise noted. Specifications and design subject to change without notice.