



# Onan Marine QD 9.5 – 13.5 kW

## Product Dimensions and Weight

<b>Overall Length</b>	mm (in)	1033	(40.7)	
<b>Overall Width</b>	mm (in)	566	(22.3)	
<b>Overall Height</b>	mm (in)	593	(23.4)	Housed
	kg (lb)	585	(23.0)	Unhoused
<b>Weight</b>	kg (lb)	315	(695.0)	Housed
	kg (lb)	290	(640.0)	Unhoused

Dimensions and weight may vary based on selected configuration.



## Power Ratings

Model	kWe	kVa*	Speed		Phase	Voltage	Amps	Fuel Consumption (L/hr (gal/hr))				Emissions
			Hz	RPM				1/4 Load	1/2 Load	3/4 Load	Full Load	
<b>KC- and HX-Cooled Ratings</b>												
MDKDM	9.5	9.5	50	1500	1	110   220 115   230 120   240	86.4   43.2 82.6   41.3 79.2   39.6	1.4 (0.4)	2.1 (0.6)	2.8 (0.7)	3.4 (0.9)	–
MDKDN	11	11	50	1500	1	110   220 115   230 120   240	100   50 95.7   47.8 91.7   46	1.5 (0.4)	2.2 (0.6)	3.0 (0.8)	4.0 (1.0)	–
MDKDM	11.5	11.5	60	1800	1	120 120   240	95.8 95.8   47.9	1.7 (0.4)	2.5 (0.7)	3.2 (0.8)	3.9 (1.0)	EPA Tier 3
MDKDN	13.5	13.5	60	1800	1	120 120   240	112.5 112   56.3	1.8 (0.5)	2.6 (0.7)	3.6 (1.0)	4.5 (1.2)	EPA Tier 3

Ratings below 130 kW are not subject to IMO emission regulations.

\* Single phase output at 1.0 power output; three phase output at .8 power factor

## Onan Marine QD

# 9.5–13.5 kW

### Engine Details

**Design** – 4-cylinder, 4-cycle, IDI water-cooled Kubota 1498 cm<sup>3</sup> (91.41 in<sup>3</sup>) marine diesel

**Fuel System** – Electric fuel transfer pump for priming and lift capability. Max fuel lift of 1.22 m (4 ft)

**Cooling System** – Freshwater cooling system with heat exchanger, expansion tank and coolant recovery system. Coolant overflow bottle to easily maintain coolant level. Coolant capacity of 5 L (5.3 qt). Coolant flow rate of 15.9 L/min (4.2 gal/min) for 50 Hz ratings and 18.9 L/min (5 gal/min) for 60 Hz ratings

**Lubrication System** – Marine grade oil pan with a capacity of 4.3 L (4.5 qt), plus an oil drain and hose extension for ease of maintenance

### Alternator Details

**Design** – Onan brushless, revolving field, 4-pole, rigidly coupled to engine and permanently aligned

**Voltage Regulator** – Solid state, circuit board encapsulated for corrosion protection

**Stator** – Skewed stator and 2/3 pitch windings minimize field heating and voltage harmonics; resin-coated for corrosion protection

**Exciter System** – Brushless with 8-pole stator mounted in endbell; rotating rectifier assemblies are encapsulated for protection from adverse environments

**Rotor** – Dynamically balanced assembly; direct-coupled to engine by flexible drive discs; supported by pre-lubricated, maintenance-free ball bearings

**Cooling** – Direct drive centrifugal blower

**Insulation System** – Class H per NEMA MG1-1-1.65 and BS 5000

### Generator Set Performance

**Frequency Regulation** – Isochronous

**Random Frequency Variation** – Will not exceed +/-0.5% of its mean value for constant loads from no load to full load

**Voltage Regulation** – No load to rated load +/-1.5%

**Random Voltage Variation** – Will not exceed +/- 1% of its mean value for constant loads from no load to full load

### Standards and Testing

- National Marine Manufacturers Association (NMMA) and American Boat and Yacht Council (ABYC) member
- This generator set was designed and manufactured in facilities certified to ISO 9001
- Lloyd's Register Type Approval for marine, offshore and industrial applications

### Warranty Policy

The Cummins express written limited warranty covers virtually everything except routine maintenance for the first two years you own your marine generator set, and covers parts and labor on major power train and generator set parts during the third through fifth years. Optional extended warranty available.



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