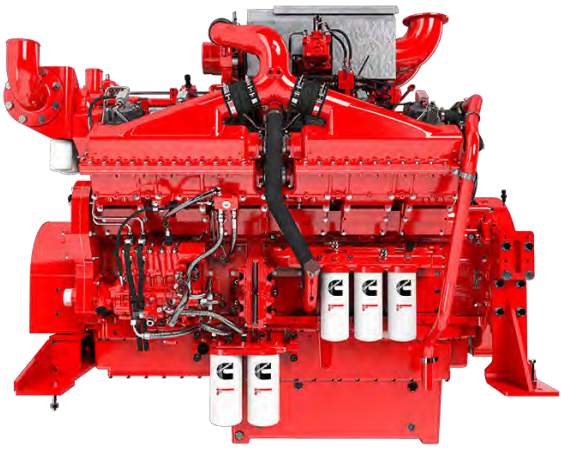
QSK38 EPA T4/IMO III

Marine propulsion and auxiliary engines for commercial and recreational applications

GENERAL SPECIFICATIONS

Configuration	V-12 cylinder, 4-stroke diesel
Aspiration	Turbocharged / Low Temp. Aftercooled
Displacement	37.7 L (2300 in^3)
Bore and stroke	159 X 159 mm (6.25 X 6.25 in)
Rotation	Counterclockwise facing flywheel
Fuel system	Modular Common Rail (MCRS)



PRODUCT DIMENSIONS AND WEIGHT

Overall length	2417 mm (95 in)
Overall width	1624 mm (64 in)
Overall height	2358 mm (93 in)
Weight	4850 kg (10692 lb)
Aftertreatment weight	420 kg (926 lb)

Dimensions and weight may vary based on selected engine configuration.

POWER RATINGS

Engine model	Output power		Engine speed RPM	Rating definition	Fuel consumption		Emissions	
	kW	BHP			Rated speed L/hr (gal/hr)	ISO* L/hr (gal/hr)	EPA	IMO
Variable speed								
QSK38-M2	746	1000	1800	Continuous	187.0 (49.4)	121.8 (32.2)	4	3
QSK38-M2	969	1300	1800	Continuous	244.0 (64.5)	154.6 (40.8)	4	3
QSK38-M2	1044	1400	1800	Continuous	266.0 (70.3)	167.1 (44.1)	4	3
QSK38-M2	1119	1500	1800	Continuous	283.5 (74.9)	176.9 (46.7)	4	3
QSK38-DM2	1044	1400	1800	VSDE	263.0 (69.5)	139.7 (36.9)	4	3
Fixed speed								
QSK38-DM2	1044	1400	1800	Prime	263.8 (69.7)	133.8 (35.4)	4	3

*Average fuel consumption based on ISO 8178 E3 Standard Test Cycle (continuous models), ISO 8178 C1 Standard Test Cycle (variable speed diesel electric or "VSDE" models), and ISO 8178 D2 Standard Test Cycle (fixed speed models).

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Features and benefits

Engine design – Reliable base engine uses common components from the proven K19, K38 and K50 engines. A new steel piston with PVD coating top ring along with nitride coated second ring and high boron liner provides the excellent durability and long life withstanding higher temperatures and meeting the stringent emission norms. No matter the vessel, Cummins will keep you always on.

Fuel system – Proven High Pressure Modular Common Rail Fuel System features an increased system pressure and optimized fueling. The pump is designed to give higher fuel pressure throughout the engine speed and load range. Benefits include low noise, low vibration for quiet operation, improved performance, idle stability and low-end torque while still delivering improved fuel economy.

Cooling system – Two-pump, two-loop, low temperature aftercooling maximizes efficiency and improves performance. Engine-mounted titanium plate heat exchanger provides superior durability with minimal maintenance requirements. SOLAS Heats shields meet Subchapter M requirements.

Exhaust system – Dry exhaust manifold and turbocharger deliver improved transient response. Vertical or horizontal exhaust connections available for installation flexibility. Compact SCR designed to meet the rigors of the marine environment. The system has been designed with integrated System Out NOx sensors, DEF dosing units, Internal Decomp tubes all working together to give the customer optimized DEF consumption. The Exhaust Throttle Valve integrated with the engine enables for an efficient SCR cleaning allowing the customer to operate transparently to previous non-SCR products.

Air system – Turbocharger is a standard Cummins offering working in tandem with an engine integrated wastegate that allows for precise air flow management and enhanced transient response. Mounted or remote marine grade air cleaner options are available. The air system design provides a significant increase in power for the continuous operating rating definition.

Lubrication system – Standard capacity 114 L (30 gal) and high capacity 166 L (44 gal) marine grade oil pan. Cummins spin-on oil filters available for easy accessibility and servicing. Optional “service free” integral breather system eliminates oil carryover for a clean bilge. Nanonet oil and fuel filter technology allow for improved fuel filter change intervals.

Electronics – 24v Quantum System electronics feature an ECM to monitor operating parameters, while providing diagnostics for complete engine protection. Simplified electrical customer interface box for all vessel connections to reduce installation complexity.

Certifications – Complies with IMO Tier III and EPA Tier 4 emissions regulations. Designed to meet the International Association of Classification Societies (IACS) and SOLAS requirements. Consult your local Cummins professional for a complete listing of available class approvals.

Optional equipment

- C Command panels
- No Drip Crankcase Breather
- ELIMINATOR™ oil filtration system
- Premium coolant hose connections
- Duplex lube oil and fuel filtration
- SAE A or B (keel cooled only) accessory drives
- Front PTO adapter
- Pre-lube with QuickEvac
- Air or electric starter
- Rigid or flexible mounting arrangements

Cummins is a pioneer in product improvement. Thus specifications may change without notice. Illustrations may include optional equipment.

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