

QSC8.3

MARINE PROPULSION ENGINES

RECREATIONAL APPLICATIONS

GENERAL SPECIFICATIONS

Configuration	In-line, 6-cylinder, 4-stroke diesel
Aspiration	Turbocharged / Aftercooled
Displacement	8.3 L [505 in ³]
Bore & Stroke	114 x 135 mm [4.49 x 5.31 in]
Rotation	Counterclockwise facing flywheel
Fuel System	High pressure common rail

PRODUCT DIMENSIONS AND WEIGHT

Overall Length	mm (in)	1422.0 (55.99)
Length of Block	mm (in)	856.0 (33.70)
Overall Width	mm (in)	977.5 (38.48)
Overall Height	mm (in)	981.6 (38.65)
Weight	kg (lb)	896 (1975)



POWER RATINGS

Engine Model	Output Power		Engine Speed RPM	Rating Definition	Fuel Consumption				Emissions			
	kW	MHP			Rated Speed L/hr (gal/hr)	ISO* L/hr (gal/hr)		IMO	EPA	EU	RCD	
Variable Speed												
QSC8.3	368	500	2600	High Output	96.0	25.4	66.0	17.4	2	3	—	2
QSC8.3	404	550	3000	High Output	113.0	29.9	76.0	20.1	2	3	—	2
QSC8.3	441	600	3000	High Output	122.7	32.4	80.9	21.4	2	3	—	2

*Average fuel consumption based on ISO 8178 E3 Standard Test Cycle (variable speed models) and ISO 8178 D2 Standard Cycle (fixed speed models).

FEATURES AND BENEFITS

Engine Design – Unmatched performance from industry-leading power density on this four-valve-per-cylinder engine. Maximise vessel performance and access comprehensive vessel diagnostic information via C Command Connect electronics. Peace of mind delivered by the Cummins Captain’s Briefing and global service network.

Fuel System – Improved fuel economy and sociability from Cummins high pressure common rail fuel system; handed spin-on engine mounted fuel filter.

Cooling System – Sea water heat exchanger cooling system.

Exhaust System – Cast water cooled exhaust manifold for lower surface temperatures, safety and improved performance.

Air System – Walker air filter significantly reduces noise.

Lubrication System – Handed spin-on engine mounted lube filter, cast aluminium oil pan.

Electronics – 12v and 24v Quantum System electronics feature a proven ECM to monitor operating parameters such as fuel consumption, duty cycle, engine load and speed, while providing diagnostics, prognostics and complete engine protection. Simplified electrical customer interface box for all vessel connections to reduce installation complexity.

Certifications – Complies with U.S. EPA Tier 3 emissions regulations without the use of aftertreatment. 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

- Engine Controls: Digital Throttle and Shift; Electronic Throttle and Shift (ETS) and optional potentiometer for mechanical controls
- Instrumentation: C Command Connect digital displays and/or analogue gauges provide data on engine speed, oil pressure, engine load and more
- Vessel System Integration: C Command Connect monitors fluid level, vessel range, depth, vessel speed, rudder position, temperatures and more



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