ACE Marine Diesel, Inc.

TECHNICAL DATA SHEETS

Cummins

Directory:

FOR MORE INFORMATION, CALL OR EMAIL US DIRECTLY USING THE INFORMATION BELOW:

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QSB6.7

MARINE PROPULSION AND AUXILIARY ENGINES

RECREATIONAL APPLICATIONS

GENERAL SPECIFICATIONS

Configuration	In-line, 6-cylinder, 4-stroke diesel
Aspiration	Turbocharged / Aftercooled
Displacement	6.7 L [408 in^3]
Bore & Stroke	107 x 124 mm [4.21 x 4.88 in]
Rotation	Counterclockwise facing flywheel
Fuel System	High pressure common rail

PRODUCT DIMENSIONS AND WEIGHT

Overall Length	mm (in)	1263.8 (49.76)
Length of Block	mm (in)	748 (29.45)
Overall Width	mm (in)	910.6 (35.85)
Overall Height	mm (in)	857 (33.74)
Weight	kg (lb)	658 (1450)

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												
QSB6.7	184	250	2600	High Output	46.9	12.4	33.0	8.7	2	3	—	2
QSB6.7	224	305	2600	High Output	55.7	14.7	39.2	10.4	2	3	—	2
QSB6.7**	261	355	2800	High Output	67.6	17.9	47.5	12.5	2	3	—	2
QSB6.7**	279	380	3000	High Output	73.9	19.5	50.4	13.3	2	3	—	2
QSB6.7**	312	425	3000	High Output	81.1	21.4	55.0	14.5	2	3	—	2
QSB6.7	353	480	3300	High Output	96.2	25.4	64.1	16.9	2	3	—	2
QSB6.7	405	550	3300	High Output	110.2	29.1	72.6	19.2	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).
**Available with SL option package; contact your local Cummins distributor for more information.

FEATURES AND BENEFITS

Engine Design – Unmatched performance driven through a perfectly matched turbocharger and a new 24-valve cylinder head that delivers industry-leading power density. 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 – High pressure common rail with hardened components to safely operate alternative fuels such as kerosene and JP8/JP5. Quiet operation, including an 80-percent reduction in noise at idle. Enhanced sociability virtually eliminates smoke and improves the whole boating experience.

Cooling System – Single loop, low temperature aftercooling eliminates the need for two keel coolers and lowers emissions. Tube and shell heat exchanger designed for superior durability and ease of service with minimal maintenance requirements. Fan drive available for radiator cooled configurations.

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

Air System – Walker air filter significantly reduces noise.

Lubrication System – Front-mounted filters. Oil service interval increased to 500 hours if using ULSD fuels.

Electronics – 224v 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
- Instrumentation
- Vessel System Integration
- SL Option Package

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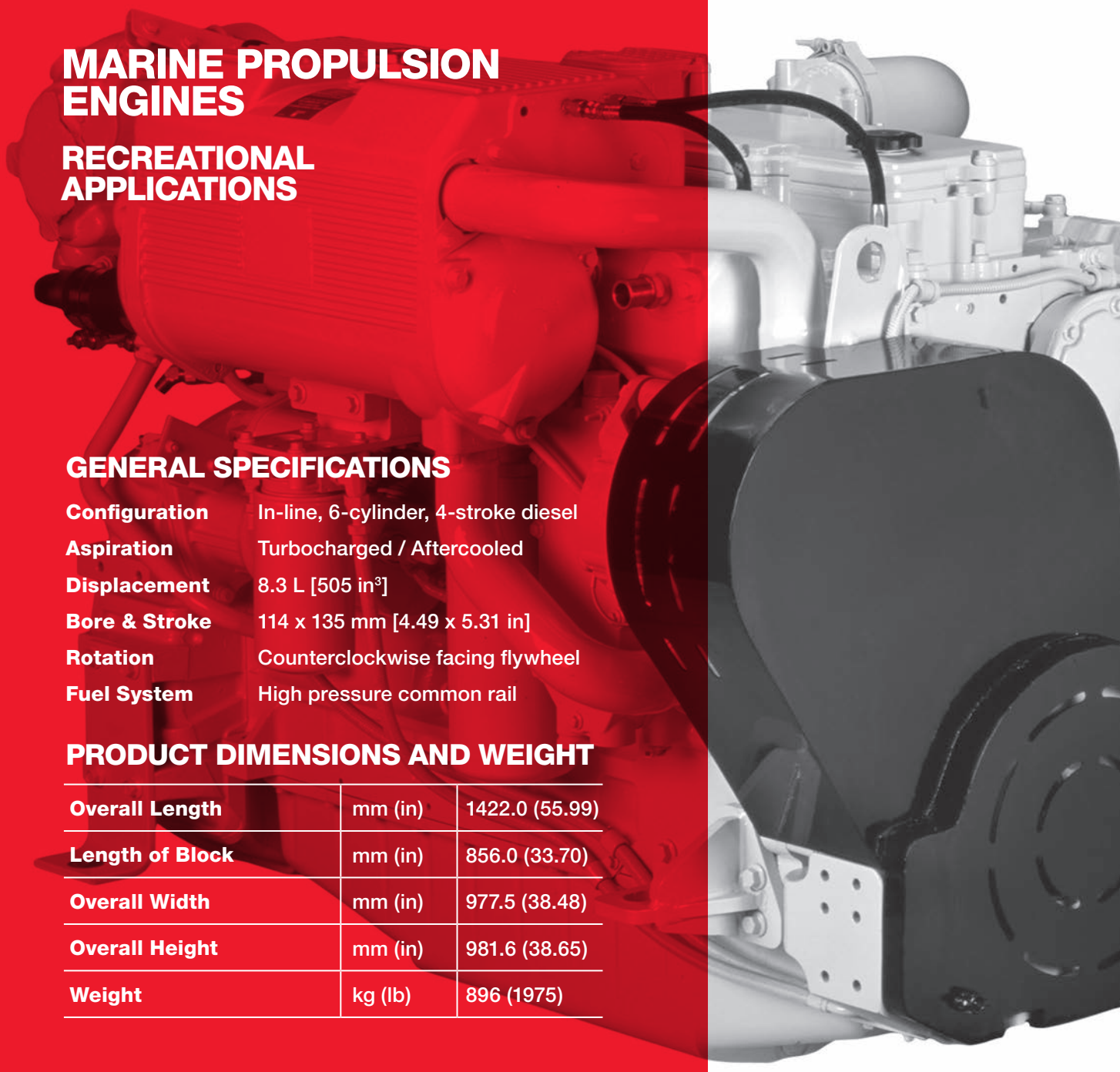
MARINE PROPULSION ENGINES

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. Maximize 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 aluminum 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 analog 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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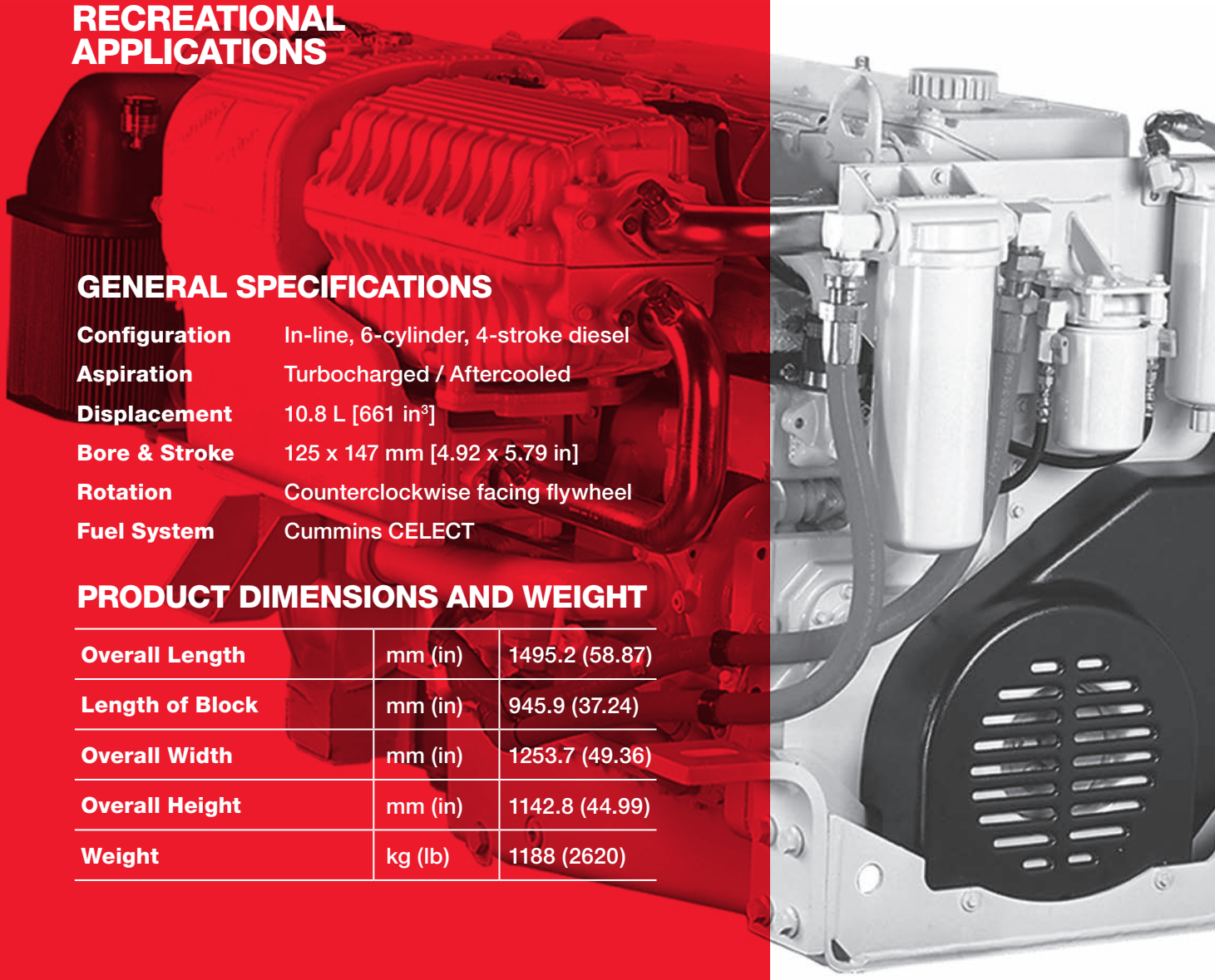
MARINE PROPULSION AND AUXILIARY ENGINES

RECREATIONAL APPLICATIONS



GENERAL SPECIFICATIONS

Configuration	In-line, 6-cylinder, 4-stroke diesel
Aspiration	Turbocharged / Aftercooled
Displacement	10.8 L [661 in^3]
Bore & Stroke	125 x 147 mm [4.92 x 5.79 in]
Rotation	Counterclockwise facing flywheel
Fuel System	Cummins CELECT

PRODUCT DIMENSIONS AND WEIGHT

Overall Length	mm (in)	1495.2 (58.87)
Length of Block	mm (in)	945.9 (37.24)
Overall Width	mm (in)	1253.7 (49.36)
Overall Height	mm (in)	1142.8 (44.99)
Weight	kg (lb)	1188 (2620)

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												
QSM11	220	300	1800	High Output	55.2	14.6	39.4	10.4	2	—	—	2
QSM11	261	355	1800	High Output	65.3	17.2	45.8	12.1	2	—	—	2
QSM11	298	405	2100	High Output	75.4	19.9	52.5	13.9	2	—	—	2
QSM11	336	455	2100	High Output	87.6	23.1	59.3	15.7	2	—	—	2
QSM11	449	610	2300	High Output	112.5	29.7	75.8	20.0	2	3	—	2
QSM11	493	670	2300	High Output	127.9	33.8	83.9	22.2	2	3	—	2
QSM11	526	715	2500	High Output	142.7	37.7	92.6	24.5	2	3	—	2
Fixed Speed												
QSM11-DM	265	355	1500	Prime	65.0	17.2	32.1	8.5	2	—	—	2
QSM11-DM	265	355	1800	Prime	65.4	17.3	33.7	8.9	2	—	—	2
QSM11-DM	265	355	1800	Prime	68.2	18.0	35.3	9.3	—	3	—	2
QSM11-DM	317	425	1800	Prime	78.6	20.8	39.2	10.4	2	—	—	2
QSM11-DM	317	425	1800	Prime	82.9	21.9	41.6	11.0	—	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 – Robust engine block designed for continuous duty operation and long life. Single cylinder head with four valves per cylinder enhances performance. Meets SOLAS requirements for surface temperatures.

Fuel System – Cummins CELECT, a full authority electronic unit injection fuel system optimizes combustion for increased engine performance and fuel efficient operation.

Cooling System – Low profile, heat exchanger configuration with standard closed crankcase ventilation system.

Exhaust System – SOLAS compliant, wet exhaust manifold maximizes fuel economy and improves performance.

Air System – Cummins Turbo Technologies turbocharger optimized for marine applications. Marine grade air filter. Large capacity sea water aftercooler.

Lubrication System – Cast aluminum oil pan designed to resist corrosion, spin-on Fleetguard oil filters.

Electronics – Quantum System electronics control engine performance by monitoring critical operating parameters. Benefits include complete engine protection, minimal smoke and optimized fuel consumption.

Certifications – Consult your local Cummins professional for a complete listing of available class approvals.

OPTIONAL EQUIPMENT

- Engine Controls: Digital Throttle and Shift (DTS) or Electronic Throttle and Shift (ETS) and optional potentiometer for mechanical controls
- Instrumentation: SmartCraft® digital displays (propulsion engine only) and/or C Command analog gauges provide data on engine speed, oil pressure, engine load and more
- Vessel System Integration: SmartCraft® monitors fluid level, vessel range, depth, vessel speed, rudder position, temperatures and more on propulsion engine only
- Accessory Drive Pulley: Belt or gear driven
- Hydraulic Pump Drive: SAE A or SAE B flange, wet and dry exhaust connections

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