

QSD4.2 QUANTUM SERIES ENGINE

Engine Overview

- Expect superior performance and quick response from this compact, robust design
- Enhanced fuel economy delivered by the full-authority electronic engine control
- Quiet, smooth performance and enhanced sociability produced from the proven High-Pressure Common-Rail fuel system
- Maximize vessel performance and access comprehensive vessel diagnostic information via SmartCraft® electronics

Power Ratings

| Rating | HO | HO | HO |
|-------------------|------|------|------|
| Metric hp | 270 | 320 | 350 |
| bhp | 266 | 315 | 345 |
| KW | 199 | 235 | 257 |
| Rated rpm | 3800 | 3800 | 3800 |
| Max Torque ft-lbs | 445 | 519 | 519 |
| Max Torque N-m | 603 | 703 | 704 |
| rpm @ max torque | 2700 | 2600 | 2600 |

Engine Specifications

| | |
|---------------|--------------------------------------|
| Configuration | In-line 6-cylinder, 4-stroke diesel |
| Bore & Stroke | 94 mm x 100 mm (3.70 in x 3.94 in) |
| Displacement | 4.2 L (254 in ³) |
| Aspiration | Turbocharged / Sea Water Aftercooled |
| Rotation | Counterclockwise facing flywheel |

Ratings and specifications subject to change without notice. Not responsible for typographical errors.

Features

Fuel System: Bosch Common-Rail (CRS 2.0); Integrated WIF sensor in secondary fuel filter

Lubrication System: Cast aluminum oil pan

Electrical System: 12-volt system

Cooling System: Sea Water Aftercooled; Heat Exchanger only

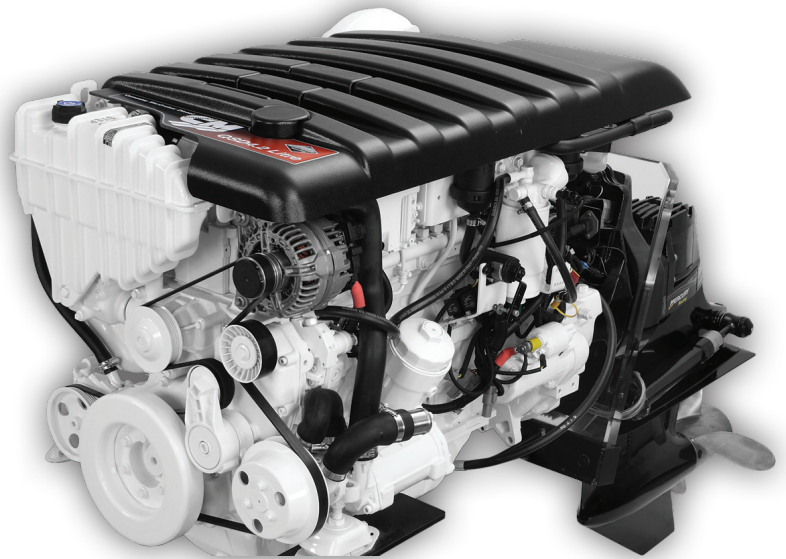
Emissions: EPA Tier 2, IMO, RCD certified, BSO/SAV (select ratings)

Tailor a propulsion package based on budget and needs:

QSD4.2 270 & 320 available with Bravo 1X, 2X, 3X & 3XR drives

QSD4.2 350 available with Bravo 1XR, Bravo 2XR and Bravo 3XR drives and optional Digital Throttle and Shift (DTS) for improved performance and smooth handling (Premium)

QSD4.2 270, 320 and 350 available for inboard applications with ZF63 A & ZF63 IV mechanical shift gears or DTS with optional trolling valve



1-800-DIESELS

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Fuel Consumption (Prop Curve)

| Rating | QSD4.2 - 270 HO | | | | QSD4.2 - 320 HO | | | | QSD4.2 - 350 HO | | | |
|--------|-----------------|------|------|------|-----------------|------|------|------|-----------------|------|------|------|
| | 3800 | 3600 | 3400 | 3200 | 3800 | 3600 | 3400 | 3200 | 3800 | 3600 | 3400 | 3200 |
| rpm | 3800 | 3600 | 3400 | 3200 | 3800 | 3600 | 3400 | 3200 | 3800 | 3600 | 3400 | 3200 |
| KW | 199 | 172 | 147 | 125 | 235 | 203 | 174 | 148 | 257 | 222 | 191 | 162 |
| l/hr | 60.6 | 48.1 | 41.3 | 33.7 | 71.9 | 56.7 | 48.1 | 39.0 | 34.1 | 26.6 | 6.1 | 41.9 |
| bhp | 266 | 230 | 197 | 167 | 315 | 273 | 234 | 198 | 148 | 129 | 111 | 217 |
| gal/hr | 16.0 | 12.7 | 10.9 | 8.9 | 19.0 | 15.0 | 12.7 | 10.3 | 9.0 | 7.0 | 6.1 | 11.1 |

Fuel consumption data represents performance along a 2.7 fixed pitch propeller curve. Fuel consumption is based on fuel of 35° API gravity at 16°C (60°F) having an LHV of 42, 780 KJ/KG (18,390 BTU/lb) when used at 29°C (85°F) and weighing 838.9 g/liter (7.001 lb/US gal). Observed horsepower is certified within ±5% of rated horsepower. Consult your local CMD professional for further information.

Engine Dimensions

| Length | | Width | | Height | | Weight (Dry)* | |
|--------|------|-------|----|--------|------|---------------|------|
| mm | in | mm | in | mm | in | kg | lb |
| 929 | 36.6 | 761 | 30 | 792 | 31.2 | 460 | 1014 |

*Weight is engine with heat exchanger system - average.
Overall width and height; length to rear face of flywheel housing.

Available Accessories

Engine Controls: Mechanical and Digital Throttle and Shift (DTS) options

Instrumentation: SmartCraft digital displays and / or analog style gauges provide data on engine speed, oil pressure, coolant temp, battery voltage, vessel speed, and drive trim position.

Vessel System Integration: New Vessel Interface Panel (VIP)



High Output (HO): Intended for infrequent use in variable load applications, where full power is limited to one hour out of every eight hours of operation. Reduced power must be at or below 400 rpm of the maximum rated rpm. For applications operating less than 500 hours per year. Engines with this rating are intended for powering recreational/pleasure use vessels only. Commercial use is defined as any work or employment related use of the product, or any use of the product which generates income, for any part of the warranty period, even if the product is only occasionally used for such purposes.

Rating Conditions: Declared power ratings are based upon ISO 15550 reference conditions/ air pressure of 100kPa (29.612 in Hg) air temperature of 25° C (77°F) and 30% relative humidity. Propeller Shaft Power represents the net power available after typical reverse/reduction gear losses and is 97% of rated power. Power rated in accordance with IMCI procedures.

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