



# QSD4.2 Quantum Engine Series

## POWER RATINGS

Rating	HO	HO	HO
Metric hp	350	320	270
bhp	345	315	266
kW	257	235	199
Rated rpm	3800	3800	3800
Max Torque ft-lbs	519	519	444
Max Torque N•m	704	703	603
rpm	2600	2600	2800

\*Preliminary data for all QSD4.2 ratings.

## 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 <sup>3</sup> )
Aspiration	Turbocharged/Sea Water Aftercooled
Rotation	Counterclockwise facing flywheel

## FEATURES AND BENEFITS

### Engine Design

Hydraulic lifters need no adjustment.  
Full-authority electronic engine control for reduced emissions and improved fuel economy.  
SmartCraft electronics for improved engine monitoring and diagnostics.

### 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

**Emissions:** EPA Tier 2, IMO and RCD compliant

**Cooling System:** Sea Water Aftercooled

## AVAILABLE ACCESSORIES

**Engine Controls:** Mechanical Throttle and Shift. DTS compatible - 2Q 2007

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

**Vessel System Integration:** New Vessel Interface Panel (VIP)



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## ENGINE DIMENSIONS

Length		Width		Height		Weight (Dry)	
mm	in	mm	in	mm	in	kg	lb
929	36.6	761	30.0	792	31.2	460	1014

\*Weight is engine with heat exchanger system - average.

Overall width and height; length to rear face of flywheel housing.

## FUEL CONSUMPTION (PROP CURVE)

Rating	QSD4.2-350 HO				QSD4.2-320 HO				QSD4.2-270 HO			
rpm	3800	3600	3400	3200	3800	3600	3400	3200	3800	3600	3400	3200
kW	257	222	191	162	235	203	174	148	199	172	147	125
l/hr	81.4	62.9	52.6	41.9	71.9	56.7	48.1	39	60.6	48.1	41.3	33.7
bhp	345	298	256	217	315	273	234	198	266	230	197	167
gal/hr	21.5	16.6	13.9	11.1	19.0	15	12.7	10.3	16.0	12.7	10.9	8.9

\* Preliminary data for all QSD4.2 ratings.

Data represents performance along a 2.7 fixed pitch propeller curve. Fuel consumption has a tolerance of +5% and 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). Cummins has always been a pioneer in product improvement. Thus, specifications may change without notice. Consult your local Cummins professional for further information.

### Rating Definitions

Ratings are based on ISO 8665 conditions of 100kPa (29.612 in Hg) and 25°C (77°F) and 30% relative humidity. Propeller shaft power represents the net power available after typical gear losses and is 97% of rated power. Power rated in accordance with IMCI procedures.

### High Output

Intended for use in variable load applications where full power is limited to one hour out of every eight hours of operation. This rating is for pleasure/non-revenue generating applications that operate less than 500 hours per year.



**Cummins MerCruiser Diesel**

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