



Powering Your Lifestyle

Passion or Profession? Bottom-line: you want reliable, innovative and proven engine propulsion for your boat. Cummins MerCruiser Diesel delivers a new wave of marine diesel power that brilliantly advances the science of marine diesel technology.

Astounding improvements in fuel efficiency translate into extended range and significant savings at the pump. Environmentally friendly and fully compliant with European and US emission requirements, these new engines are virtually smoke free. Low noise and vibration offer smooth, comfortable cruising. Improvements in compact

designs and power to weight ratios, means that Cummins MerCruiser Diesel Quantum Series engines are now a reality for a wider range of sport fishing boats and yachts.

Experience A New Wave

The Quantum Series engines encompass superior digital technology experienced at start up, felt piercing through the roughest waves, measured in extra miles between fill-ups, and relied upon to protect your engine from serious mechanical malfunctions.

Quantum Diesel Engines offer many advantages... Freedom to cruise farther... Low noise and Vibration... Virtually No Smoke... Impressive Acceleration, Power and Long Engine Life.

Cummins MerCruiser Diesel continues to assemble one of the most modern and responsive customer support teams the marine industry has ever seen. Worldwide, we've surpassed 1,500 distributors and dealers who maintain quality components and parts, enabling them to quickly respond to your needs.

Visionary Future

Cummins MerCruiser Diesel is a joint venture between two legendary leaders in marine propulsion—Cummins Incorporated and Mercury Marine. The combination of engineering and marketing expertise, exceptional range of products and an ever-growing worldwide service network is keeping CMD on course to become the industry's only "prop-to-helm" performance source for boaters the world over.



Cruise with Confidence

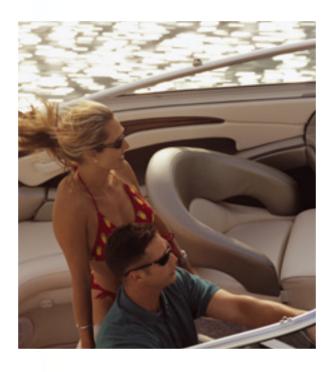


One call and help is on the way. Regardless of where you bought your boat, or where you dock it... Cummins MerCruiser Diesel has you covered.

When cruising far from your home port, you can rely upon the vast CMD service network to be there for you.

Cummins MerCruiser Diesel sponsors Certified Application Engineer training and Qualified Marine Technician training to provide accurate diagnostic and service applications. Worldwide, there are more than 1,500 distributors and dealers who also stock quality parts to respond quickly to customer needs.

For engine performance backed by superior coverage, see your Cummins MerCruiser Diesel distributor. For the nearest distributor, visit us at www.cmdmarine.com.



Quantum Warranty

The engine performance you expect and the protection plan to back it up... For recreational applications, our Quantum Engine Series includes an upgraded warranty package with base engine coverage of 24 months or 1000 hours. And with extended major components covered for an additional 48 months (6 years = base plus extended) or 2000 hours, you can cruise with confidence.

Quantum Encompass

CMD offers an optional extended service contract plan that will provide additional repair service for up to six years, including a one year Sea Tow® membership (where Sea Tow® operates).

Marine Technical Center

Validation begins at our one-of-a-kind Marine Technical Center, located in Charleston, South Carolina (USA) adjacent to the CMD main manufacturing facility. This 33,000 square foot highly advanced center

houses engine test cells and a coordinated team of the industry's most talented engineers from around the world who lead our design, new product development, electronics and vessel integration programs. When fishing, cruising or working on a commercial boat, you put a lot of trust in your engine. Cummins MerCruiser Diesel is the new wave in Diesel Marine Power.





Captain's Briefing

CMD offers a captain's briefing program to help new boat owners understand, operate and maintain their new engine. Hands-on training is provided by a CMD technician and includes the following:

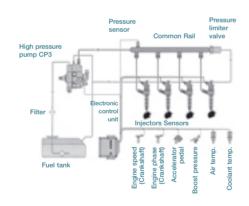
- General engine information
- Instruction on operation and maintenance
- Start-up operation
- Maintenance schedules



The Quantum Series Diesel Engine



- Improved Fuel Economy
- Instant Start Up In Cold Weather
- Virtually Smoke & Odor Free
- EPA Tier 2, IMO and RCD Compliant
- 80% Less Noise at Idle on QSB Series
- Lighter Weight / Increased Power



Common Rail Illustration

CMD has engineered more pleasure into your boating experience with Quantum Series Engines by virtually eliminating smoke, significantly reducing engine noise and simplifying vessel engine information management.

Quantum— derived from the Latin word "quantus" means how great. Precisely how you'll feel about this exceptional series of virtually smoke-free diesel engines. From quiet, effortless start-ups to heartthumping acceleration,



the Quantum Series engines are what you look for but rarely find in a diesel propulsion system. Central to the newest Quantum engines is the high-pressure common rail fuel system, which provides better power-to-weight ratios, cleaner starting, less noise and virtually eliminates smoke and odor commonly associated with diesel engines. Cummins MerCruiser Diesel is a leader in environmental protection, earning the first EPA Tier 2/IMO emission standards certification. All Quantum Engines already meet 2006 EPA standards. Field-tested for thousands of hours in a variety of boats in all types of environments, the full-authority electronic control continually monitors operating conditions and adjusts to provide optimized performance. Unsurpassed reliability and durability... Cummins MerCruiser Diesel has increased the warranty period for the Quantum Series. Now that's great confidence!

The Diesel Advantages

- Outstanding Fuel Economy and Range
- Durability for Longer Engine Life

The CMD Diesel Advantages

- Low Noise and Vibration for Smoother Operation
- State-of-the-art fuel Systems Including High Pressure Common Rail and Celect unit Injection for Maximum Engine Efficiency
- Compact Lightweight Designs for Improved Top Speeds and Performance
- Virtually No Smoke



QSM11 300-670 mhp

Confidence

Durability, diesel economy and dependable power are hallmarks of the Quantum Series. Quantum Series Engines take the worry out of going further and running longer.





The Quantum Series Diesel Engine 5.9 Litre



New for 2005... QSB5.9-425 mhp

All new Quantum
Series engines use the
SmartCraft multiplexing
digital control and
communication system.
Constantly monitoring
engine performance,



providing instant diagnostics, and inputs from many other boat systems, such as fuel tank levels, GPS and water depth in one easy to read color helm display, you'll always be in command and control of your vessel.



Features:

- Strengthened block for long life and reduced noise
- 24 valve cylinder head for better breathing and acceleration
- Corrosion-proof belt guard
- Easily accessed filters and maintenance items
- Gallery cooled pistons for long life
- Common rail fuel system
- EPA Tier 2, IMO and RCD compliant

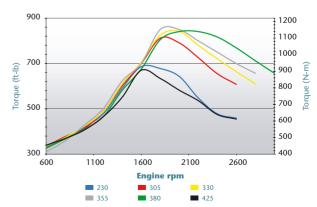
Better Range

The QSB5.9-425 offers excellent fuel economy and cruise power. Boats accelerate quickly from the combination of a perfectly matched turbocharger and a new 24 valve cylinder head which allows the engine to breathe easier.

Quiet Strength

An 80% reduction in noise at idle is one of the many benefits from the common rail fuel injection system and design modifications to the cylinder block. The cast iron block is scalloped, which further reduces noise by increasing the stiffness of the engine. Peak torque on the QSB5.9-380 increases nearly 20% without wastegating. In addition, peak torque occurs 200 RPM lower than previously on the Cummins 370B.

QSB Curve Data



New for 2005... QSC8.3-500 mhp

Cummins MerCruiser
Diesel has a vision to
provide boatbuilders
with a complete
integrated system for
vessel propulsion.
The combination



of engines,
services and expertise is
second to none in the
diesel marine
industry. Reliable.
Responsible. Propulsion
solution providers.



Features:

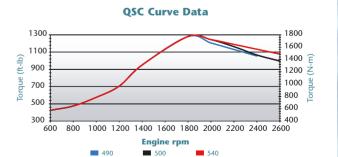
- SmartCraft enabled
- 24 valve cylinder head for better breathing and acceleration
- Corrosion proof belt guard
- Easily accessed filters and maintenance items
- Gallery cooled piston for long life
- Stainless steel sea water piping provides outstanding corrosion resistance
- EPA Tier 2, IMO and RCD compliant
- Common rail fuel system

Clean, Quiet Operation

Refining the benefits of common rail fuel systems further allows the QSC8.3 to reduce white smoke levels at start up without the aid of air heaters. The QSC8.3 is quiet at idle and virtually smoke free.

Advanced Engineering

Expectations of a long engine life are evident throughout the QSC8.3. Stainless steel piping improves the durability of the seawater cooling circuit. A new polymer belt guard prevents corrosion. Well-conceived placement of engine components is welcome news for installers and those who maintain your vessel. Inboard fuel and lube filters can be installed on either side of the engine for easy servicing. Front supports with multiple locations make for easier installation, while a raised turbocharger location reduces exhaust connection complexity.









The Quantum Series Diesel Engine 9 Litre



By constantly monitoring and integrating all of the information your vessel can provide, SmartCraft enables



you to maximize
your boating
experience! We've
mastered the
technology to link
your boat's systems
and controls...



Features:

- 24 valve cylinder head for better breathing and acceleration
- Corrosion-proof belt guard
- Easily accessed filters and maintenance items
- Articulated gallery cooled pistons for long life
- Common rail fuel system
- SmartCraft enabled
- EPA Tier 2, IMO and RCD emissions compliant

Clean, Quiet Operation

Refining the benefits of common rail fuel systems further allows the QSL9 to reduce white smoke levels at start up without the aid of air heaters. Extremely environmentally friendly, the QSL9 is quiet at idle and virtually smoke free.

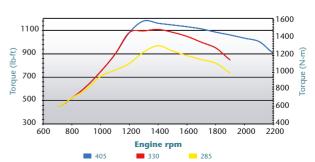
Advanced Engineering

Expectations of a long engine life are evident throughout the QSL9, including a new corrosion-proof belt guard. Well-designed placement of engine components is welcome news for installers and those who maintain your vessel. Handed fuel and lube filters can be installed on either side of the engine for easy servicing. Front supports with multiple mounting locations make for easier installation, while a raised turbocharger location reduces exhaust connection complexity.

Perfect for Trawlers

The engine's compact size promotes ease of installation and easy access for maintenance. With various new horsepower ratings, the QSL9 is ideal for trawlers and similar applications.

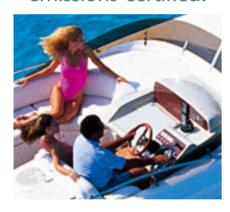






The Quantum Series Diesel Engine 11 Litre

Cummins MerCruiser
Diesel continues
developing
environmentally
responsible engines.
The QSM11 was the
first to be EPA Tier 2
emissions certified.



Cleaner for the seas
we enjoy and cleaner
for your boat...
a proven closed
crankcase ventilation
system provides a
cleaner engine room.



Features:

- Closed crankcase ventilation for cleaner engine room
- C-Cruise: Marine cruise control, engine synchronization
- Electronic engine sensors & diagnostics
- Quiet, fuel-efficient, virtually smoke free
- EPA Tier 2, IMO and RCD emissions compliant

More Horsepower-Extraordinary Fuel Efficiency

Now with added horsepower across the entire QSM11 range, these workhorses are already meeting 2006 worldwide emission standards. Proven performance whether you are backing down on a trophy fish or backing into a tight slip in your favorite port of call – the QSM11 consistently delivers in all climates.

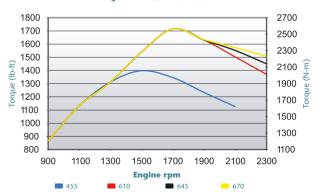
Marine Cruise Control

Focusing on enjoyment rather than work, the exciting C-Cruise feature provides marine cruise control. C-Cruise options include slow idle, engine synchronization for twin-engine applications and adjustable cruise speeds. Advanced interactive digital (LCD) engine displays, backup throttles, prognostics and diagnostics are available.

Perfect for Trawlers

The engine's compact size promotes ease of installation and easy access for maintenance. With a new 455 horsepower rating, the QSM11 is ideal for trawlers and similar applications.

QSM11 Curve Data





Complete Vessel Integration with SmartCraft®



By constantly monitoring and integrating all the information your vessel can provide, SmartCraft® enables you to maximize your vessel's performance! We've mastered the technology to link your vessel's systems and controls ...the results are intelligent recreational boaters and commercial vessel operators around the world!

Estimated range, fuel consumption, gear control, maintenance updates, engine temperature, it's all here.., it's all SmartCraft®. Clearly, there is more to performance than just power, it's putting all the pieces together and having one location to access and monitor all the vessel information. SmartCraft® gives you this incredible control and integration. Contact your local Cummins MerCruiser Diesel professional and discover the SmartCraft® difference! Visit the global directory on www.cmdmarine.com.

- Engine Information
- Fuel management
- Vessel information
- Generator information

- Trip information
- Maintenance monitor
- Throttle and gear control



If you want...

- to have instant access to the information on the performance of your vessel;
- to know when something is going wrong and how to respond;
- to know how far you can go on the fuel you have on board;
- one simple integrated system so you don't have to learn and monitor many systems;
- a system that is expandable so you don't have to replace it when future enhancements are available;
- a system that is proven and reliable and won't leave you stranded;
 ...you want SmartCraft®



and Electronic Throttle and Shift





ETS

At Cummins MerCruiser Diesel, our goal is to make your boating life simple, easy and enjoyable, supported by reliable, dynamic engines and electronic engine controls that compliment the package. This is why we are now introducing Electronic Throttle and Shift (ETS). With ETS, you can now count on CMD as your one source provider for the complete engine package.

System Description

- Engine Compatibility: QSB, QSC, QSM engines with SmartCraft® OEM harnesses and any solenoidshifted transmission
- Single or Dual Engine Applications: The ETS system may be used in applications with either 1 or 2 engines. The standard ETS Control Processor is suitable for single or twin engine applications and controls both engine throttle and transmission position.
- Single Lever Control: Single lever control permits gear and throttle control using a single control lever. The ETS processor protects the engines and transmissions during shifting and can be customized to each boat installation.
- Multiple Station Capability: The ETS system can be expanded to include up to 6 separate helm control stations. It should be noted that only one station can be in control at any one time.
- Two Button Station Transfer: An "ACTIVE" button is provided on the control station to allow the boat operator to take control at a different helm station. In order to prevent accidental transfer of propulsion system control from one station to another, and also permit the boat operator to change control stations while underway and maintain boat speed, the ETS control system has a "two-button" press process. One button press starts the transfer process, if the handles at the station taking control are in an appropriate position, a second button press completes the station transfer process.
- "Posi-lock" Gear Lockout: A dedicated "WARM" button is provided on the control head to lock the gear in the neutral position so that the engine can be "warmed up" at the dock. An indicating light provides a positive feedback to the boat operator that the engine may be safely throttled up in neutral while at the dock.
- Automatic Engine Synchronization: A button is provided on the control head to activate automatic engine synchronization. The boat operator can set the speed of the starboard engine and the ETS system will control the port engine speed to match the starboard.
- Gear Position Indicating Lights: The control head includes an indicator light to let the boat operator know when the transmission is in the neutral gear position.
- Easy Installation: The ETS system has been engineered to install easily with only a small harness running to each helm station. ETS also has two separate battery inputs for system redundancy.

The Quantum Engine Series Specifications

	QSB5.9-230	QSB5.9-305	QSB5.9-330	QSB5.9-355	QSB5.9-380	QSB5.9-425	QSC8.3-490	QSC8.3-500	QSC8.3-540	QSL9-285
Crankshaft mhp (kW)	230 (169)	305 (224)	330 (242)	355 (261)	380 (280)	425 (313)	490 (361)	500 (368)	540 (398)	285 (209)
Rating	НО	НО	НО	но						
Displacement (cu.in./liters)	359/5.9	359/5.9	359/5.9	359/5.9	359/5.9	359/5.9	505/8.3	505/8.3	505/8.3	542/8.9
Cylinders	6	6	6	6	6	6	6	6	6	6
Bore & Stroke in. (mm)	4.02x4.72 (102x120)	4.49x5.31 (114x135)	4.49x5.31 (114x135)	4.49x5.31 (114x135)	4.49x5.71 (114x145)					
Compression Ratio	17.2:1	17.2:1	17.2:1	17.2:1	17.2:1	16.7:1	16.3:1	16.3:1	16.3:1	16.6:1
Fuel System	Common Rail	Common Rail	Common Rail	Common Rail						
Rated rpm	2600	2600	2800	2800	3000	3000	2500	2600	2600	1800
Voltage	12 or 24 Volt	12 or 24 Volt	12 or 24 Volt	12 or 24 Volt						
Alternator Amp	Various	Various	Various	Various						
Remote Oil Filter	Optional	Optional	Optional	Optional						
Fuel Consumption (Rated)	2600 rpm @ 42.2 l/hr	2600 rpm @ 57.3 l/hr	2800 rpm @ 63.3 l/hr	2800 rpm @ 68.1 l/hr	3000 rpm @ 76.2 l/hr	3000 rpm @ 87.6 l/hr	2500 rpm @ 100.2 l/hr	2600 rpm @ 100.6 l/hr	2600 rpm @ 109.4 l/hr	1800 rpm @ 54.3 l/hr
Fuel Consumption (Rated)	2600 rpm @ 11.1 g/hr	2600 rpm @ 15.1 g/hr	2800 rpm @ 16.7 g/hr	2800 rpm @ 18.0 g/hr	3000 rpm @ 20.1 g/hr	3000 rpm @ 23.1 g/hr	2500 rpm @ 26.5 g/hr	2600 rpm @ 26.6 g/hr	2600 rpm @ 28.9 g/hr	1800 rpm @ 14.4 g/hr
Fuel Consumption (Cruise)	2400 rpm @ 35.7 l/hr	2400 rpm @ 47.0 l/hr	2600 rpm @ 50.8 l/hr	2600 rpm @ 55.2 l/hr	2800 rpm @ 60.6 l/hr	2800 rpm @ 68.1 l/hr	2200 rpm @ 68.8 l/hr	2400 rpm @ 76.7 l/hr	2400 rpm @ 85.4 l/hr	1600 rpm @ 37.9 l/hr
Fuel Consumption (Cruise)	2400 rpm @ 9.4 g/hr	2400 rpm @ 12.4 g/hr	2600 rpm @ 13.4 g/hr	2600 rpm @ 14.6 g/hr	2800 rpm @ 16.0 g/hr	2800 rpm @ 18.0 g/hr	2200 rpm @ 18.2 g/hr	2400 rpm @ 20.3 g/hr	2400 rpm @ 22.6 g/hr	1600 rpm @ 10.0 g/hr
Exhaust Risers	Optional	Optional	Optional	Optional						
Hot Water Heater Kit	Optional	Optional	Optional	Optional						
Length in. (mm)	40.8 (1036)	40.8 (1036)	40.8 (1036)	40.8 (1036)	40.8 (1036)	40.8 (1036)	46.2 (1174)	46.2 (1174)	46.2 (1174)	46.2 (1174)
Width in. (mm)	32.9 (836)	32.9 (836)	32.9 (836)	32.9 (836)	32.9 (836)	32.9 (836)	33.0 (839)	33.0 (839)	33.0 (839)	33.2 (842)
Height in. (mm)	34.8 (879)	34.8 (879)	34.8 (879)	34.8 (879)	34.8 (879)	34.8 (879)	38.7 (982)	38.7 (982)	38.7 (982)	42.9 (109)
Engine Weight lb. (kg)	1305 (592)	1305 (592)	1305 (592)	1305 (592)	1305 (592)	1350 (612)	1975 (896)	1975 (896)	1975 (896)	2000 (907)

Metric rating, crankshaft power rated according to SAEJ1228/ISO8665, ISO 3406-1 fuel stop power with 40°C (104°F) fuel. Crankshaft power rated according to SAEJ1228/ISO8665, at standard reference conditions.

Propshaft power for inboard engines is approximately 3 percent less than rated crankshaft power, which represents net power available after typical reverse/reduction gear losses and may vary depending on type of gear or propulsion system used.

Propshaft power for sterndrive engines is approximately 4.5 percent less than rated crankshaft power. See your local CMD professional for the latest technical information.

Length measurement is length to flywheel. ©2005 Cummins MerCruiser Diesel Marine, LLC. All rights reserved. Ratings subject to change without notice. Not responsible for typographical errors.



QSL9-330	QSL9-405	QSM11-300	QSM11-355	QSM11-405	QSM11-455	QSM11-455	QSM11-610	QSM11-645	QSM11-670
330 (243)	405 (298)	300 (220)	355 (261)	405 (298)	455 (336)	455 (336)	610 (448)	645 (474)	670 (492)
НО	НО	НО							
542/8.9	542/8.9	661/10.8	661/10.8	661/10.8	661/10.8	661/10.8	661/10.8	661/10.8	661/10.8
6	6	6	6	6	6	6	6	6	6
4.49x5.71 (114x145)	4.49x5.71 (114x145)	4.92x5.79 (125x147)	4.92x5.79 (125x147)	4.92x5.79 (125x147)					
16.6:1	16.6:1	15.9:1	15.9:1	15.9:1	15.9:1	15.9:1	16.3:1	15.9:1	16.3:1
Common Rail	Common Rail	Celect	Celect	Celect	Celect	Celect	Celect	Celect	Celect
1800	2100	1800	1800	2100	2100	2100	2300	2300	2300
12 or 24 Volt	12 or 24 Volt	12 or 24 Volt							
Various	Various	Various							
Optional	Optional	Optional							
1800 rpm @ 61.7 l/hr	2100 rpm @ 80.2 l/hr	1800 rpm @ 55.2 l/hr	1800 rpm @ 65.3 l/hr	2100 rpm @ 75.4 l/hr	2100 rpm @ 80.0 l/hr	2100 rpm @ 80.0 l/hr	2300 rpm @ 116.6 l/hr	2300 rpm @ 121.9 l/hr	2300 rpm @ 126.5 l/hr
1800 rpm @ 16.3 g/hr	2100 rpm @ 21.2 g/hr	1800 rpm @ 14.6 g/hr	1800 rpm @ 17.2 g/hr	2100 rpm @ 19.9 g/hr	2100 rpm @ 21.1 g/hr	2100 rpm @ 21.1 g/hr	2300 rpm @ 30.8 g/hr	2300 rpm @ 32.2 g/hr	2300 rpm @ 33.4 g/hr
1600 rpm @ 44.3 l/hr	1900 rpm @ 55.6 l/hr	1600 rpm @ 38.9 l/hr	1600 rpm @ 45.4 l/hr	1900 rpm @ 54.5 l/hr	1900 rpm @ 59.1 l/hr	1900 rpm @ 59.1 l/hr	2100 rpm @ 86.6 l/hr	2100 rpm @ 86.4 l/hr	2100 rpm @ 89.6 l/hr
1600 rpm @ 11.7 g/hr	1900 rpm @ 14.7 g/hr	1600 rpm @ 10.3 g/hr	1600 rpm @ 12.0 g/hr	1900 rpm @ 14.4 g/hr	1900 rpm @ 15.6 g/hr	1900 rpm @ 15.6 g/hr	2100 rpm @ 22.9 g/hr	2100 rpm @ 22.8 g/hr	2100 rpm @ 23.7 g/hr
Optional	Optional	Optional							
Optional	Optional	Optional							
46.2 (1174)	46.2 (1174)	53.5 (1360)	53.5 (1360)	53.5 (1360)	53.5 (1360)	53.5 (1360)	53.5 (1360)	53.5 (1360)	53.5 (1360)
33.2 (842)	33.2 (842)	42.7 (1085)	42.7 (1085)	42.7 (1085)	42.7 (1085)	42.7 (1085)	42.7 (1085)	42.7 (1085)	42.7 (1085)
42.9 (109)	42.9 (109)	39.7 (1009)	39.7 (1009)	39.7 (1009)	39.7 (1009)	39.7 (1009)	39.7 (1009)	39.7 (1009)	39.7 (1009)
2000 (907)	2000 (907)	2464 (1118)	2464 (1118)	2464 (1118)	2605 (1182)	2605 (1182)	2620 (1188)	2620 (1188)	2620 (1188)



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 (HO) Quantum Engines Only

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. Also, reduced power operations must be at or below 200 rpm of the maximum rated rpm. This is an ISO 3046 fuel stop power rating and is for applications that operate 500 hours per year or less.

Rating Conditions

Declared power ratings are based upon ISO 3046-1 reference conditions; air pressure of 100 kPa (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 reverses/reduction gear losses and is 97% of rated power. Fuel consumption is based on fuel of 35° API gravity at 16°C (60°F) having LHV of 42,780 k/kg (18,390 Btu/lb) and weighing 838.9 g/liter (7,001 lb/U.S. qal).

Pleasure Craft Rating (PC)

Intended for use in variable load applications where full power is limited to 1 hour out of every 12 hours of operation. Reduced power must be at or below 400 rpm of the maximum rated rpm. This rating is reserved for recreational planning craft used only and exclusively for pleasure and recreation.

Light Commercial Rating (LC)

Intended for use in variable load applications where full power is limited to 1 hour out of every 12 hours of operation. Reduced power must be at or below 400 rpm of the maximum rated rpm. This rating is for government, commercial or any revenue producing craft that operate less than 500 hours per year.

All information contained in this brochure is subject to change without notice. CMD is not responsible for typographical errors or incorrect data. See your local CMD professional for the latest technical information.





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Bulletin Number: 4081928 Rev 9/05/GB
©2005 Cummins MerCruiser Diesel

Part Number: 90-898013-06