# QSK19

## MARINE PROPULSION AND AUXILIARY ENGINES

## COMMERCIAL AND RECREATIONAL APPLICATIONS


### GENERAL SPECIFICATIONS

| | |
|---|---|
| **Configuration** | In-line, 6-cylinder, 4-stroke diesel |
| **Aspiration** | Turbocharged / Aftercooled |
| **Displacement** | 19 L [1150 $in^3$] |
| **Bore & Stroke** | 159 x 159 mm [6.25 x 6.25 in] |
| **Rotation** | Counterclockwise facing flywheel |
| **Fuel System** | Modular Common Rail System (MCRS) |

### PRODUCT DIMENSIONS AND WEIGHT

| | | |
|---|---|---|
| **Overall Length** | mm (in) | 2009 (79) |
| **Length of Block** | mm (in) | 1200.2 (47.25) |
| **Overall Width** | mm (in) | 963 (38) |
| **Overall Height** | mm (in) | 1880 (74) |
| **Weight** | kg (lb) | 2189 (4825) |

# POWER RATINGS

| Engine Model | Output Power | | Engine Speed RPM | Rating Definition | Fuel Consumption | | | | Emissions | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | kW | BHP | | | Rated Speed L/hr (gal/hr) | | ISO* L/hr (gal/hr) | | IMO | EPA | EU |
| **Variable Speed** | | | | | | | | | | | |
| QSK19-M | 373 | 500 | 1800 | Continuous | 95.3 | 25.2 | 68.8 | 18.2 | 2 | — | — |
| QSK19-M | 373 | 500 | 1800 | Continuous | 100.1 | 26.5 | 72.4 | 19.1 | 2 | 3 | — |
| QSK19-M | 447 | 600 | 1800 | Continuous | 114.8 | 30.3 | 77.7 | 20.5 | 2 | — | — |
| QSK19-M | 447 | 600 | 1800 | Continuous | 119.1 | 31.5 | 85.2 | 22.5 | 2 | 3 | — |
| QSK19-M | 492 | 660 | 1800 | Continuous | 126.3 | 33.3 | 94.9 | 25.1 | 2 | — | — |
| QSK19-M | 492 | 660 | 1800 | Continuous | 128.1 | 33.8 | 90.7 | 24.0 | 2 | 3 | — |
| QSK19-M | 560 | 750 | 1800 | Heavy Duty | 140.4 | 37.1 | 99.2 | 26.2 | 2 | — | — |
| QSK19-M | 560 | 750 | 1800 | Continuous | 147.5 | 39.0 | 104.5 | 26.7 | 2 | 3 | — |
| QSK19-M | 567 | 760 | 2100 | Heavy Duty | 148.7 | 39.3 | 104.0 | 27.5 | 2 | — | — |
| QSK19-M | 597** | 800 | 1800 | Heavy Duty | 156.2 | 41.3 | 109.9 | 29.0 | 2 | 3 | — |
| QSK19-M | 597** | 800 | 2100 | Heavy Duty | 166.9 | 44.1 | 114.8 | 30.3 | 2 | 3 | — |
| QSK19-M | 597 | 800 | 2100 | Med. Continuous | 158.8 | 41.9 | 109.7 | 29.0 | 2 | — | — |
| **Fixed Speed** | | | | | | | | | | | |
| QSK19-DM | 433 | 580 | 1500 | Prime | 111.1 | 29.3 | 57.9 | 15.3 | 2 | — | — |
| QSK19-DM | 526 | 705 | 1500 | Prime | 133.7 | 35.3 | 66.2 | 17.5 | 2 | — | — |
| QSK19-DM | 563 | 755 | 1800 | Prime | 142.3 | 37.6 | 72.4 | 18.8 | 2 | — | — |
| QSK19-DM | 563 | 755 | 1800 | Prime | 148.5 | 39.2 | 75.8 | 20.0 | 2 | 3 | — |
| QSK19-DM | 597** | 800 | 1800 | Prime | 158.1 | 41.8 | 81.9 | 21.6 | 2 | 3 | — |

*Average fuel consumption based on ISO 8178 E3 Standard Test Cycle (variable speed models) and ISO 8178 D2 Standard Cycle (fixed speed models).
** Contact your local Cummins distributor to discuss product details and availability. Also for a complete listing of available class approvals.

# FEATURES AND BENEFITS

**Engine Design –** Reliable base engine uses common components from the proven K19, K38 and K50 engines. A new cast-iron, ductile single-piece piston with nitride-coated rings and hardened cylinder liner provides excellent durability and long life.

**Fuel System –** MCRS features a simplified design which provides constant high injection pressure regardless of engine speed or load condition. Benefits include low noise and vibration for quiet operation, idle stability and low-end torque.

**Cooling System –** Singe-loop cooling eliminates the need for two keel coolers for reduced installation expense, and an engine mounted titanium plate heat exchanger provides superior durability.

**Exhaust System –** Water-cooled exhaust manifold cools engine surface temperatures with a cast single piece design that eliminates potential exhaust leakage.

**Air System –** Mounted or remote marine grade air cleaner with replaceable element reduces maintenance cost. Water-cooled turbocharger optimized for vessel operating conditions and safety.

**Lubrication System –** Standard capacity 60.6 L (16 U.S. gal) shallow oil pan or high capacity 72 L (19 U.S. gal) deep oil pan for installation flexibility. Cummins spin-on oil filters available on engine service side.

**Electronics –** User friendly 24v Quantum System electronics feature a proven CM850 ECM to monitor operating parameters, while providing diagnostics, prognostics and complete engine protection.

**Certifications –** Complies with IMO II & EPA 3 emission regulations and meets IACS and SOLAS requirements.

# OPTIONAL EQUIPMENT

- C Command panels
- Eliminator™ oil filtration system
- Premium coolant hose connections
- Duplex lube oil and fuel filtration
- Integral marine gear oil cooler
- SAE A or B auxiliary drive
- Front PTO adaptor
- Fully integrated, type-approved alarm and safety system
- CENTINEL™ oil management system

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