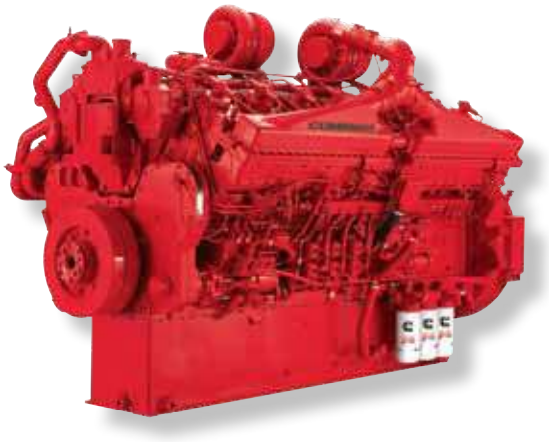
# QSK38 MCRS

## Marine Propulsion & Auxiliary Engines

## IMO Tier II and EU Stg IIIa certified

### Specifications

| | |
|---|---|
| **Configuration** | V-12 cylinder, 4 stroke diesel |
| **Bore & Stroke** | 159 mm X 159 mm (6.25 in X 6.25 in) |
| **Displacement** | 38 L (2300 $in^3$) |
| **Rotation** | Counterclockwise facing flywheel |
| **Aspiration** | Turbocharged/Aftercooled |
| **Emissions** | IMO Tier II and EU Stage IIIa |



### Dimensions

| | | |
|---|---|---|
| **Length** | 2688 mm | 106 in |
| **Width** | 1642 mm | 65 in |
| **Height** | 2108 mm | 83 in |
| **Weight** | 4640 kg | 10230 lb |

Dimensions and weight may vary based on selected engine configuration

### Ratings

| | Output Power | | | | Fuel Consumption | |
|---|---|---|---|---|---|---|
| **Engine Model** | **kW** | **HP** | **Engine Speed RPM** | **Rating Definition** | **Rated Speed L/hr (gal/hr)** | **ISO* L/hr (gal/hr)** |
| **Variable Speed** | | | | | | |
| QSK38-M | 895 | 1200 | 1800 | Continuous | 231.6 (61.2) | 164.2 (43.4) |
| QSK38-M | 970 | 1300 | 1800 | Continuous | 244.5 (64.6) | 176.8 (46.7) |
| QSK38-M | 1007 | 1350 | 1900 | Heavy Duty | 262.0 (69.2) | 188.0 (49.7) |
| QSK38-M | 1044 | 1400 | 1800 | Heavy Duty | 266.8 (70.5) | 188.0 (49.7) |
| **Fixed Speed** | | | | | | |
| QSK38-DM | 984 | 1320 | 1500 (50 Hz) | Prime | 247.0 (65.3) | 128.9 (34.0) |
| QSK38-DM | 1044 | 1400 | 1800 (60 Hz) | Prime | 266.5 (70.4) | 141.7 (37.4) |

* Average fuel consumption based on ISO 8178 E3 Standard Test Cycle (variable speed models) and ISO 8178 D2 Standard Test Cycle (fixed speed models)

# QSK38-M/DM MCRS

## IMO Tier II and EU Stg IIIa certified

### 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 - Modular Common Rail Fuel System 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 improved low-end torque

Cooling System - Two-pump, two-loop, low temperature aftercooling maximizes efficiency and improves performance. Engine-mounted titanium plate heat exchanger provides superior durability with minimal maintenance requirements

Exhaust System - Triple-wall water-cooled exhaust manifold features an air gap between exhaust gas and jacket water to maintain thermal efficiency while cooling engine surface temperatures. Design is a fabricated single piece construction that eliminates potential exhaust leakage. Single exhaust collector for reduced installation expense

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

Lubrication System - Standard capacity 114 L (30 gal) marine grade oil pan. Handed Cummins spin-on oil filters available for easy accessibility and servicing

Electronics - 24-volt Quantum System electronics feature a proven CM850 ECM to monitor operating parameters, while providing diagnostics, prognostics and complete engine protection. Simplified electrical customer interface box for all vessel connections to reduce installation complexity

Certifications - Complies with IMO Tier II and EU Stage IIIa emissions regulations. 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

- C Command panels
- ELIMINATOR™
- Premium coolant hose connections
- Duplex lube oil and fuel filtration
- SAE A or B (keel cooled only) accessory drives
- Direct mount front power take-off



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