M673D Marine Diesel Generator

The smallest in the Northern Lights line-up of marine diesel generators, the M673D delivers the trusted confidence and uncompromised reliability of the proven Northern Lights name. The M673D is ideal — powerful enough to run many shipboard items and start sizable motors, yet small enough to fit into tight engine rooms.

Running at 1900 rpm (50 Hz) or 1500 rpm (60 Hz), the M673D's slower speed means quiet and smooth operation as well as minimal stress on the engine. In comparison to higher rpm generators, the M673D turns over 216 million times less, its pistons travel 43,327 fewer miles, and its cylinders withstand 108 million fewer detonations over the course of 2,000 hours of operation — adding up to longer-life dependability and outstanding fuel efficiency.

Four platform isolation mounts prohibit vibration from passing through the generator to the hull, eliminating 99% of vibration — so your on-board environment is as smooth as it is quiet. For more comfort and enjoyment, install an optional Northern Lights sound enclosure — the industry leader in noise attenuation technology.

The M673D responds with ease to today's demands on electrical systems. Auxiliary windings provide independent voltage regulator power to enable the quick pick-up of large loads such as air conditioners, refrigerators, and water makers without dips in power. And a technologically advanced main stator with skewed windings produces a symmetrical sine wave for sensitive electrical equipment.

Northern Lights' revolutionary DC Logic System continuously controls and monitors vital engine functions and makes troubleshooting quick and easy. Safety shutdowns for low oil pressure, high exhaust temperature, and high coolant temperature come standard.

Since the M673D's service points are all located on one side, maintenance is simple and convenient. To reduce troublesome gaskets and hoses, the M673D's cast-iron exhaust manifold, expansion tank, and heat exchanger housing are combined into a single component, freshwater cooling system.

STANDARD FEATURES

- **Engine Block**
  - Three-cylinder, liquid cooled, actually reconditioned, overhauled valve design. Swirl combustion chambers improve fuel efficiency and reduce exhaust smoke. Glow plugs for quick cold starting.

- **Cooling System**

- **Fuel System**

- **Intake and Exhaust**
  - Cylindrical dry-type air cleaner in cast aluminum, neoprene-attenuating intake manifold. Cast-iron wet exhaust elbow.

- **Lubrication System**
  - Full flow, spin-on oil filter with bypass. 5.1 quart, 5.5 liter oil capacity. Oil drain for quick, clean oil changes.

- **DC Electrical System**
  - DC Logic System. 12-volt starter motor and battery. Charging alternator with belt pulley. Remote mount 5-1/2 panel with hour meter, stop-start switch with run light, and pre-wire switch. 20-foot (6-meter) plug-in wire harness. Low oil pressure, high exhaust temperature, and high coolant temperature safety shutdowns.

- **AC Generator**
  - Rotor and stator 50 or 60 Hz direct coupled AC generator rated at 90° C (194° F) phase. 50 or 60 Hz AC power output. Skid-mounted and oversize (3.0) bearing. Voltage regulated to ±3% no load to full load. RVR circuit breaker overload protection.
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**KEY FEATURES**
- **5 kW** at 60 Hz / 1800 RPM
- **4.5 kW** at 50 Hz / 1500 RPM

**SPECIFICATIONS**
- **Type**: Vertical Inline Closed
- **Cylinders**: 6
- **Displacement**: 41.4 cu in (0.697 l)
- **Horsepower**: 52.5 hp @ 1800 rpm
- **1800 rpm / full load**: 0.83 gph (3.1 lph)
- **1800 rpm / part load**: 0.58 gph (2.1 lph)

**DIMENSIONAL DATA**
- **Height**: 19.5 in (496 mm)
- **Length**: 27.5 in (698 mm)
- **Width**: 17.5 in (444 mm)
- **Base Length**: 27.5 in (698 mm)
- **Base Width**: 17.5 in (444 mm)
- **Approx. Weight**: 356 lbs (161 kg)

**INSTALLATION DATA**
- **Water/Exhaust Outlet**: 1.5 in (38 mm) OD
- **Raw-Material Intake**: 2.6 in (66 mm) OD
- **Fuel-Inlet & Return**: 5/8 in (16 mm)

**ENGINEERED FOR SILENCE**

With a refined set up of sound enclosures, experience why Northern Lights continues to be a leader in marine industry standards. Dual sound-dampening barriers and an epoxy-coated, noise-reducing framework keep sound levels to a minimum. Easy-to-reach, atomic switches and quick-release, noise-reducing enclosures that complement any engine room.

For the quietest and most reliable power in the marine industry, choose Northern Lights.

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**WARRANTY & SUPPORT**

This generator is backed by an unmatched, transferable, lifetime warranty. Northern Lights' worldwide dealer network is more than 330 strong and Northern Lights' helpful dealers offer parts, accessories, and service in more than 40 countries. Visit our website at www.northern-lights.com to locate your dealer nearest you.