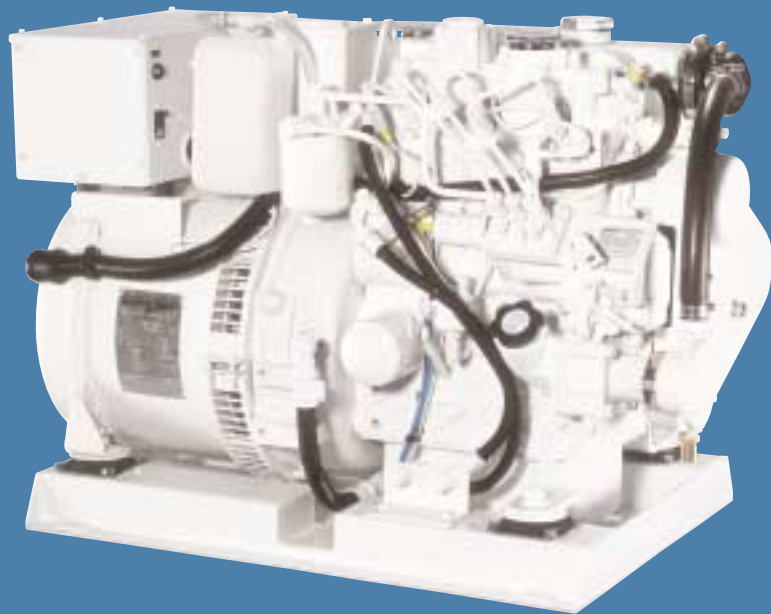


# NORTHERN LIGHTS



## M773LK Marine Diesel Generator

It's true that great things come in small packages. The impressive M773LK incorporates the best of nearly five decades of Northern Lights' marine technology expertise into one compact, versatile diesel generator. The M773LK offers Northern Lights' meticulous craftsmanship and dependable power for demanding marine applications.

The M773LK is driven by a high-torque Luger diesel engine. Engineered exclusively for marine use, this powerhouse is perfectly designed to deliver minimal stress to the engine as well as minimal emissions to the environment. Running at 1800 rpm (60 Hz) or 1500 rpm (50 Hz), the M773LK gives special attention to unyielding longevity, surprising fuel efficiency, and exceeding performance.

Superior engineering and technical precision ensure a quality product and lasting satisfaction. The M773LK's user-friendly, hassle-free DC Logic System and safety shutdowns are controlled by four replaceable relays, which allow multi-station control. This design provides unmatched reliability, protection, and easy, inexpensive service for technicians or crew. In addition, an automatic AC voltage regulator keeps voltage to  $\pm 1\%$  to protect your electrical equipment.

Handling continuously changing loads is simple for the M773LK, thanks to its powerful generator end. The hand-wound, skewed stator makes electricity with a symmetrical sine wave that today's electrical equipment demands. The M773LK's generator end also features corrosion-resistant epoxy coating, high copper content, and class H insulation – so whether you're ready to run the air conditioner, refrigerator, or water maker – no challenge is too tough.

Four platform isolation mounts minimize vibration from passing through the generator to the hull – on the M773LK, 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.

**9 kW**  
60 Hz / 1800 RPM

**7 kW**  
50 Hz / 1500 RPM

### STANDARD FEATURES

#### ■ Engine Block

Three-cylinder, liquid cooled, naturally aspirated, overhead valve diesel. Swirl combustion chambers improve fuel efficiency and reduce smoke. Glow plugs for quick cold starting.

#### ■ Cooling System

Freshwater cooling in heat exchanger or keel cooled configuration. One piece exhaust manifold, expansion tank, and heat exchanger housing. Cooling with cupro-nickel tube-type heat exchanger. Jabsco gear-driven raw water pump. Standard coolant recovery bottle.

#### ■ Fuel System

Self-venting fuel system. Bosch-type injection pump with 5% mechanical governor. Pintle injectors with replaceable tips. Reliable mechanical fuel lift pump with hand primer. Large spin-on fuel filter. Flexible fuel lines routed to base. Fuel shut-off solenoid.

#### ■ Intake and Exhaust

Cleanable dry-type air cleaner in cast aluminum, noise attenuating intake manifold. Cast-iron wet exhaust elbow.

#### ■ Lubrication System

Full flow, spin-on oil filter with bypass. 4.2 quart, 4.0 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 integrated regulator and belt guard. Remote mount S-1B panel with hourmeter, stop-start switch with run light, and preheat switch. 20-foot (6 meter) plug-in wire harness. Low oil pressure, high exhaust temperature, and high coolant temperature safety shutdowns.

#### ■ AC Generator

Reliable and robust brushless 50 or 60 Hz direct coupled AC generator rated at 90° C rise. 4 lead/1 phase, 50 or 60 Hz AC power output. Skewed stator, accessible diodes, and oversized bearing. Voltage regulated to  $\pm 1\%$  no load to full load. AVR circuit breaker overload protection.





# M773LK Marine Diesel Generator

**9 kW**  
60 Hz / 1800 RPM

**7 kW**  
50 Hz / 1500 RPM

## OPTIONS & ACCESSORIES

- Sound Enclosure
- Additional Control Panels
- Wire Harness Extensions
- Wet Exhaust Muffler
- Exhaust / Water Separator
- Dry Exhaust
- Onboard Parts Kits
- 24-Volt System
- Isolated Ground DC Electrical Systems
- Fuel Filter / Water Separators
- Fuel Line Kits for Inspected Vessels
- Shorepower Switches
- Overspeed Shutdowns

## WARRANTY & SUPPORT

This generator is backed by an unmatched, transferable global warranty. Northern Lights' worldwide dealer network is more than 300 strong, and Northern Lights' helpful dealers offer parts, accessories, and service in more than 40 countries. Visit our web site at [www.northern-lights.com](http://www.northern-lights.com) to locate the dealer nearest you.

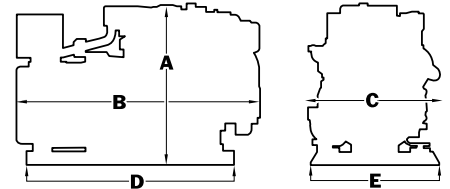
60 Hz / 1800 rpm <sup>1</sup>	<b>9 kW</b>
50 Hz / 1500 rpm <sup>1</sup>	<b>7 kW</b>
Phase	<b>1 standard (3 optional)</b>
Power Factor	<b>1.0 standard (0.8 @ 3 phase)</b>
Volts/Amps	<b>120-240V / 37.5A (60 Hz)</b> <b>120V / 75A (60 Hz)</b> <b>220V / 31.8A (50 Hz)</b>
Voltage Regulation	<b>±1%</b>

<b>ENGINE DATA</b>	
Type	<b>Vertical Inline Diesel</b>
Aspiration	<b>Natural</b>
Cylinders	<b>3</b>
Bore	<b>3.03 in (77 mm)</b>
Stroke	<b>3.19 in (81 mm)</b>
Displacement	<b>69 cid (1.13 ltr)</b>
Horsepower	<b>15 hp @ 1800 rpm</b> <b>10.1 hp @ 1500 rpm</b>

<b>APPROX. FUEL RATE</b>	
1800 rpm / full load <sup>2</sup>	<b>0.93 gph (3.52 lph)</b>
1800 rpm / half load <sup>2</sup>	<b>0.51 gph (1.93 lph)</b>
1500 rpm / full load <sup>2</sup>	<b>0.72 gph (2.72 lph)</b>
1500 rpm / half load <sup>2</sup>	<b>0.37 gph (1.40 lph)</b>

- NOTES:**
1. Based on SAE J1995 and ISO 3046.
  2. Actual fuel consumption varies depending on operating conditions.

<b>DIMENSIONAL DATA</b>	
A - Height	<b>23.3 in (591 mm)</b>
B - Length	<b>32.4 in (822 mm)</b>
C - Width	<b>19.1 in (486 mm)</b>
D - Base Length	<b>27.0 in (684 mm)</b>
E - Base Width	<b>19.1 in (486 mm)</b>
Approx. Wet Weight	<b>519 lbs (235 kg)</b>



<b>INSTALLATION DATA</b>	
Wet Exhaust Elbow	<b>2 in (51 mm) OD</b>
Raw Water Inlet	<b>3/4 in (20 mm) OD</b>
Fuel Inlet & Return	<b>1/4 in NPT</b>

**Standard Panel:**  
Remote mount S-1B includes hourmeter, stop-start switch with run light, and preheat switch.



**Sound Enclosure Dimensions – Length x Width x Height:**  
39.3 in x 25.7 in x 25.3 in (999 mm x 653 mm x 643 mm)

## ENGINEERED FOR SILENCE

With a newly refined line-up of sound enclosures, experience why Northern Lights continuously raises marine industry standards. Dual sound-dampening barriers ensure optimum sound absorption, and damper-sheet-coated internal air ductings keep your generator quiet and cool. Easy-to-use trigger latches allow quick access and easy maintenance. The construction features rigid, powder-coated aluminum for an extraordinarily robust, corrosion-resistant enclosure that compliments any engine room. For the quietest and most reliable power in the marine industry, choose Northern Lights.

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