



## SPECIFICATIONS AND DIMENSIONS

### AC Output<sup>1</sup>

<b>38 KW</b>	60 Hz, 1800 RPM 120/240 V/158.3 A, 120 V/316.6 A
<b>32 KW</b>	50 Hz, 1500 RPM 220 V/145 A
Optional	Three phase with 0.8 PF
Voltage regulation	±1%

1. Based on SAE J1995 and ISO 3046.

### Weight and Height

Approximate dry weight	1450 lbs (657 kg)
Length	60.0 in (1524 mm)
Width	29.0 in (737 mm)
Height	30.5 in (775 mm)
Sound enclosure weight	140 lbs (64 kg)
Enclosure length	60.0 in (1524 mm)
Enclosure width	29.0 in (737 mm)
Enclosure height	32.0 in (813 mm)

### Engine Data

Type	Vertical inline 4 cylinder diesel
Displacement	203 in <sup>3</sup> (3.3 ltr)
Bore/Stroke	3.70/4.72 in (94/120 mm)
Aspiration	Turbocharged
HP @ RPM	60/1800 50/1500
Approximate fuel use <sup>2</sup> :	
1800 RPM @ full load	3.26 gph (12.34 lph)
1800 RPM @ half load	1.60 gph (6.05 lph)
1500 RPM @ full load	2.33 gph (8.82 lph)
1500 RPM @ half load	1.33 gph (5.03 lph)

2. Actual fuel consumption will vary depending on operating conditions.

### Installation Data

Wet exhaust elbow	3 inch (76 mm) OD
Raw water inlet	3/4 in (19 mm) OD
Fuel inlet and return	1/4 inch NPT



**M944T**

**38 kW (60 Hz, 1800 rpm, 3ph)  
32 kW (60 Hz, 1800 rpm, 1ph)**

## FEATURES AND BENEFITS

<b>Engine Block</b>	Four cycle, 4 cylinder, liquid cooled, turbo charged, overhead valve diesel. The induction hardened, forged carbon-steel crankshaft is stronger than cast iron while the cross flow head makes for efficient combustion. Helical cut gear train reduces noise.
<b>Cooling System</b>	Standard heat exchanger cooling with optional keel cooling. Copper-nickel, tube-type heat exchanger has removable end caps for easy cleaning. Electrolysis protection via zinc anode. The bronze and stainless steel seawater pump with rubber impeller is gear driven, eliminating a potential failure point.
<b>Fuel System</b>	The self-venting fuel system features an inline injection pump with 3-5% mechanical governor for close AC frequency control. The fuel lift pump is mechanical with a hand primer, eliminating electronic pump failures.
<b>Intake and Exhaust</b>	The M944T meets US EPA Tier II/IMO II emission standards. The wet exhaust elbow is stainless steel.
<b>Lubrication System</b>	The closed crankcase vent system traps oil vapor and keeps engine room clean. 10.5 qt (10 ltr) oil capacity for better lubrication and 250 hour oil change intervals. Oil drain hose with valve plumbed to base pan as standard.
<b>DC Electrical System</b>	The DC System features a 12 volt starter motor and battery charging alternator with belt guard. The set is equipped with a standard remote mount control panel, featuring an hour meter, stop-start switch, engine gauges, a preheat switch, and includes a 20 foot (6m) harness. The standard panel can be expanded to six panels, up to 110 feet from the set. Gauges include oil pressure, coolant temperature and DC Voltage. Low oil pressure, high coolant temperature and high exhaust temperature safety shutdowns standard.
<b>AC Generator</b>	The Northern Lights, direct coupled, four pole, twelve lead generator has Class "H" insulation, a pre-lubricated bearing and features a conservative heat rise rating of 95°C/50°C ambient. Our external automatic voltage regulator is powered by a dedicated AC winding for true 300% short circuit protection.

### Northern Lights, Inc.

4420 14th Ave NW, Seattle, WA 98107  
Tel: (206) 789-3880 | (800) 762-0165  
Fax: (206) 782-5455  
info@northern-lights.com

[www.northern-lights.com](http://www.northern-lights.com)

Northern Lights, Lugger and Technicold are registered trademarks of Northern Lights, Inc.

© 2017 All rights reserved. Litho USA. B153 6/17