

M40C3 - 40 kW
AC Output¹

40 kW	60 Hz, 1800 RPM
Amperage	120/208 VAC, 139 A
Phase/power factor	Std: 3/0.8 (Opt. 1/1.0)
Voltage regulation	±1%

Lugger L944T Engine

Type	Vertical inline 4 cylinder diesel
Displacement	202 in ³ (3.3 ltr)
Bore/Stroke	3.7/4.7 in (94/120 mm)
HP @ RPM	60 @ 1800
Approx. fuel use	
1800 RPM @ full load ²	3.4 gph (12.9 lph)
1800 RPM @ half load ²	1.8 gph (6.8 lph)

Keel Cooler Data³

Heat rejection to jacket water	2250 BTU/min
Cooling water flow	22 gpm (83 lpm)
Keel cooler circuit max. pressure drop	3 psi (200 mbar)
Max. engine outlet temperature	185°F (85°C)

Installation Data & Weight

Dry exhaust elbow	3 in (76 mm) OD
Raw water inlet ⁴	0.75 in (19 mm) OD
KC coolant inlet / outlet	1.65 / 1.5 inch OD
Fuel inlet	0.35 in (9 mm)
Fuel return	0.31 in (8 mm)
Approximate dry weight	1,332 lbs (604 kg)

1. Based on SAE J1995 and ISO 3046
2. Actual fuel consumption will vary depending on operating conditions
3. Consult factory for heat exchanger cooling specs
4. On units with heat exchanger cooling only

Cooling System

- Cast aluminum expansion tank with coolant recovery type filler cap.
- Thermostat for quick warm up and safety.
- Cast iron exhaust manifold has two pass jacket-water flow for even temperature control.

Fuel System

- Easy to service mechanical, direct injection fuel system.
- Spin on fuel filters with air bleed.
- Mechanical fuel transfer pump with manual priming plunger.

DC Electrical System

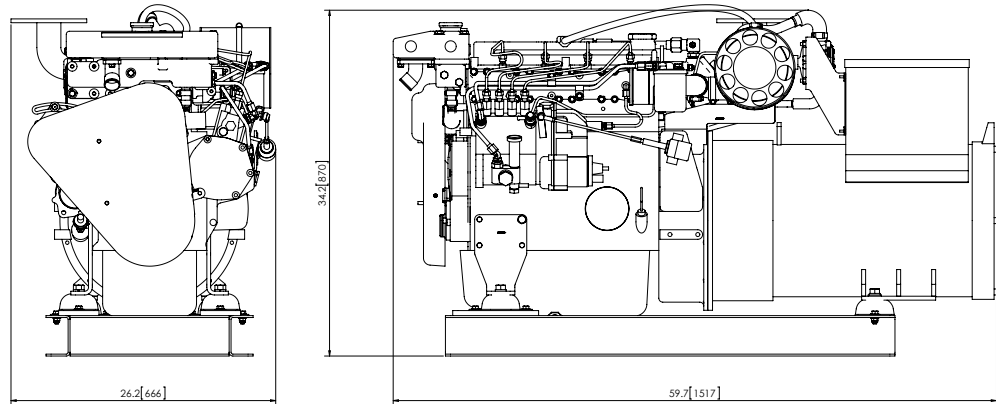
- DC system uses reliable relays instead of unrepairable printed circuit boards.
- 12 volt system includes circuit breaker, starter motor and alternator with integral regulator.
- Standard panel: Flush mount S-3C has hour meter, oil pressure gauge, coolant temperature gauge, DC voltmeter, stop-start switch and preheat switch.
- Expandable up to six panels, up 110 ft from set.
- Low oil pressure, and high coolant temperature shutdowns are standard.

Intake and Exhaust

- Fully compliant with US EPA Tier III marine emission requirements.
- Dry air filter silences intake noise.

Lubrication System

- Full flow, spin-on oil filter with bypass.
- 10.5 qt (10 ltr) center well oil pan.
- Closed Crankcase vent system keeps oil vapor inside engine for clean engine room.

Dimensional Drawing

M40C3 Overall Dimensions L x W x H: 59.7 x 26.2 x 34.2 inch (1517 x 666 x 870 mm)

Dimensions given in inches (mm). Dimensions subject to change without notice. Contact dealer or visit www.northern-lights.com for most current installation drawings

M40C3 Features and Benefits
Engine Block

- Lugger, four cycle, 4 cylinder, liquid cooled, turbocharged, overhead valve marine diesel based on a heavy-duty engine block.
- Integral oil cooler.

AC Generator

- Direct coupled, single bearing, 12 lead, reconnectable, brushless AC generator. Designed for maintenance-free operation.
- Conservative heat rise rating: 95°C/50°C ambient.
- Generators meet or exceed class society requirements, with Class "H" epoxy insulation, accessible diodes, oversized ball bearings and marine grade shafts.
- Engines and generators are torsionally matched for long life.
- Automatic Voltage Regulator (AVR) gives quick +/-1% RMS no load to full load voltage regulation. AVR has circuit breaker protection.

Special Equipment

- Rigid, welded steel base frame.
- Captive vibration isolation mounts.
- Belt guard protects operator.
- Tough grey enamel paint for long life finish.
- Parts and operator's manuals.

Accessories and Optional Equipment

- Front power take off with 12 or 24V electric clutch and SAE B spline. At the touch of a button you can take up to 48 HP for your vessel's hydraulic system.
- Control panels with DC and AC gauges.
- 24 volt standard ground DC system
- Heat exchanger cooling with 3 inch wet exhaust.
- Dry exhaust mufflers, 18" SS flex.
- Alarms and shutdowns for low oil level, low coolant level, raw water flow and overspeed.