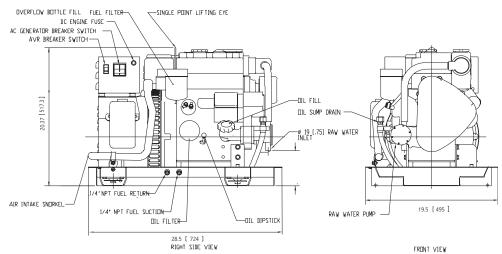


M673LD3 - 5 kW/4.5 kW

AC Output ¹		
5 kW	60 Hz, 1800 RPM, 1 Ph, 1.0 PF,	
	240 V/20.8 A, 120 V/41.6A	
4.5 kW	50 Hz, 1500 RPM, 1 Ph, 1.0 PF,	
		220 V/20.5 A
Voltage regulation		±5%
Lugger L673L Engine		
Туре	Vertical	inline 3 cylinder diesel
Displacement		46.4 in ³ (0.761 ltr)
Bore/Stroke	e/Stroke 2.64/2.83 in (67/72 mm)	
HP @ RPM		10.1/1800 8.4/1500
Approx. fuel use 1800 RPM @		0.59 gph (2.2 lph)
1800 RPM @ half load ²		0.32 gph (1.2 lph)
1500 RPM @ full load ²		0.50 gph (1.9 lph)
1500 RPM @ half load ² 0.28		0.28 gph (1.1 lph)
Installation Data & Weight		
Wet exhaust elbow		1.5 inch (38 mm) OD
Raw water inlet		3/4 inch (19 mm) OD
Fuel inlet and return		1/4 inch NPT
Approximate dry weight		377 lbs (171 kg)

^{1.} Based on SAE J1995 and ISO 3046. 2. Actual fuel consumption will vary depending on operating conditions.

Dimensional Drawing



M673LD3 Overall Dimensions L x W x H: $28.5 \times 19.5 \times 20.4$ inch (724 x 495 x 517 mm) Sound Enclosure Dimensions L x W x H: $28.5 \times 19.5 \times 20.8$ inch (724 x 495 x 528 mm) Sound Enclosure Weight: 44 lbs (20 kg)

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

M673LD3 Features and Benefits

Engine Block

- Four cycle, 3 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.
- · Heat exchanger or keel cooled.
- One-piece heat exchanger, expansion tank and liquid cooled exhaust manifold. Fewer troublesome hoses and gaskets. Cast iron to resist corrosion and electrolysis.
- Heat exchanger cooling is standard. Cupro-nickel, tube-type heat exchanger has removable ends for easy cleaning. Rubber impeller, seawater pump of bronze and stainless steel is gear driven; no belt.

Fuel System

- · Fuel system is self-venting.
- Injection pump with 5% mechanical governor for close AC frequency control.
- · Pintle injectors with replaceable tips.
- · Mechanical lift pump with hand primer. No electric pump to fail.
- · Large spin-on fuel filter.
- · Flexible fuel lines routed to fuel manifold.
- Stop solenoid acts directly on the fuel rack eliminating linkage problems.

Intake and Exhaust

- · Meets US EPA Tier III emission standards at date of manufacture.
- Washable air cleaner.
- Cast aluminum intake manifold with Sound Maze air intake reduces intake noise.
- Cast iron, wet exhaust elbow for safety.

Lubrication System

- · Full flow, spin-on oil filter with bypass.
- 3.1 qt (3 ltr) oil capacity for better lubrication and 200 hour oil change intervals.
- · Oil drain for quick, clean oil changes.
- Closed crankcase vent system traps oil vapor and keeps engine room clean

DC Electrical System

- DC system uses reliable relays instead of an unrepairable printed circuit board.
- · 12 volt starter motor and battery charging alternator with belt guard.
- Standard panel: Remote mount S-1B has hour meter, stop-start switch with run light and preheat switch.
- · Expandable to six panels up to 110 feet from the set.
- 20 foot (6m) plug-in panel harness lets you mount your panel anywhere onboard. Better than inaccessible unit mount panels that are prone to vibration problems.
- Low oil pressure, high coolant temp and high exhaust temp safety shutdowns standard.



AC Generator

- Northern Lights, direct coupled, four pole, revolving field, four lead reconnectable generator with Class "H" insulation and prelubricated bearing. Conservative heat rise rating: 95°C/50°C ambient.
- External automatic voltage regulator gives you ±5% voltage regulation. AVR powered by dedicated AC winding for improved motor starting. AVR circuit breaker.
- 30 amp mainline circuit breaker protects generator from AC overloads and shorts.

www.northern-lights.com



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