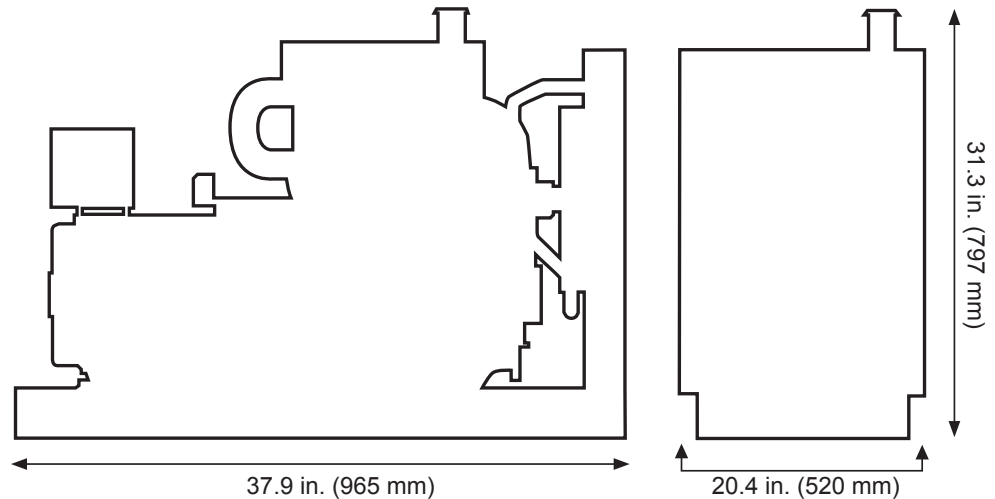


**Dimensional Drawing**
**NL773LW4 - 8 kW**

AC Output <sup>1</sup>	
<b>8 kW</b>	60 Hz, 1800 RPM, 1 Ph, 1.0 PF, 120-240 V/33.3A, 120 V/67A
Optional	Three Phase with 0.8 PF
Voltage regulation	±1%
Lugger L773L Engine	
Type	Vertical inline 3 cylinder diesel
Displacement	69 in <sup>3</sup> (1.13 ltr)
Bore/Stroke	3.03/3.19 in (77/81 mm)
HP @ RPM	15/1800 12/1500
Exhaust outlet	1.25 inch (31.75 mm) OD
Approx. fuel use	
1800 RPM @ full load <sup>2</sup>	0.93 gph (3.52 lph)
1800 RPM @ half load <sup>2</sup>	0.51 gph (1.93 lph)
1500 RPM @ full load <sup>2</sup>	0.72 gph (2.72 lph)
1500 RPM @ half load <sup>2</sup>	0.37 gph (1.4 lph)
Installation Data & Weight	
Fuel inlet and return	1/4 inch NPT
Exhaust Outlet	1 1/4 in (31.75 mm)
Approximate dry weight	551 lbs (250 kg)



**NL773LW4 Overall Dimensions L x W x H: 37.9 x 20.4 x 31.3 inch (965 x 520 x 797 mm)**  
 Dimensions given in inches (mm). Dimensions subject to change without notice.  
 Contact dealer or visit [www.northern-lights.com](http://www.northern-lights.com) for most current installation drawings.

- Based on SAE J1995 and ISO 3046.
- Actual fuel consumption will vary depending on operating conditions.

**NL773LW4 Features and Benefits**
**Engine Block**

- Four cycle, 3 cylinder, liquid cooled, naturally aspirated, overhead valve, industrial-duty diesel.
- Indirect injection with glow plugs for fast cold weather starts

**Cooling System**

- Liquid-cooled with radiator and pusher cooling fan. Steel radiator shroud and fan guard protects the radiator and operator.

**Fuel System**

- Fuel system is self venting.
- In-block inline pump.
- Stop solenoid controls the fuel rack - not throttle - to eliminate speed variance and linkage issues.
- Engine speed governed to 5% for close AC frequency control.
- Pintle fuel injectors with replaceable tips lower service cost.
- Large spin-on fuel filter.
- Flexible fuel lines routed to fuel manifold for easy tank connectivity.

**Lubrication System**

- Pressure lubricated. Gerotor oil pump.
- Full flow, spin-on oil filter with bypass.
- 5 qt. (4.9 ltr) oil capacity for better lubrication.

**Intake and Exhaust**

- Meets US EPA Tier IV emission requirements for cleaner air.
- Large, replaceable air filter protects engine in dusty environments.
- Unit mounted residential muffler.

**DC Electrical System**

- 12 volt system includes starter motor, battery charging alternator with solid state voltage regulator and DC circuit breaker.
- Standard, unit mount S-1B control panel has engine hour meter, start-stop switch with run light and preheat switch.
- Standard safety shutdowns for low oil pressure and high coolant temperature.
- Dual panel relays and quick disconnect harness plug-ins. With optional Y-harness and 10, 20 or 40 foot harness extensions, allows up to six remote control panels, up to 100 feet from the set.

**AC Generator**

- Northern Lights, direct coupled, brushless AC generator is maintenance free. 4 lead, 1 phase, 1.0 pf, 50 or 60 Hz output. 12 lead-3 phase is optional. Conservative heat rise rating: 95°C/50°C ambient.
- Automatic Voltage Regulator is powered by dedicated AC winding for true 300% short circuit capability. Quick ±1% RMS no load to full load voltage regulation. AVR has circuit breaker protection.
- Generator features high quality, Class "H" epoxy insulation, accessible diodes, over-sized bearing and junction box for wiring.
- High air flow from integral fan keeps generator running cool.

**Special Features**

- Welded steel frame provides rigid support and ease of installation.
- Enhanced fan guard for improved operator safety.
- Four centerbonded mounts isolate vibration.
- Long life, blue enamel paint finish.
- Full load testing at factory ensures trouble-free operation
- Operator's and parts manuals provided with each set.
- Custom shipping crate and carton.

**TIER  
4**
[www.northern-lights.com](http://www.northern-lights.com)
**Dealer**

Northern Lights, Inc. • 4420 14th Ave. NW., • Seattle WA 98107  
 Tel: 206-789-3880 • 1-800-762-0165 • Fax: 206-782-5455  
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