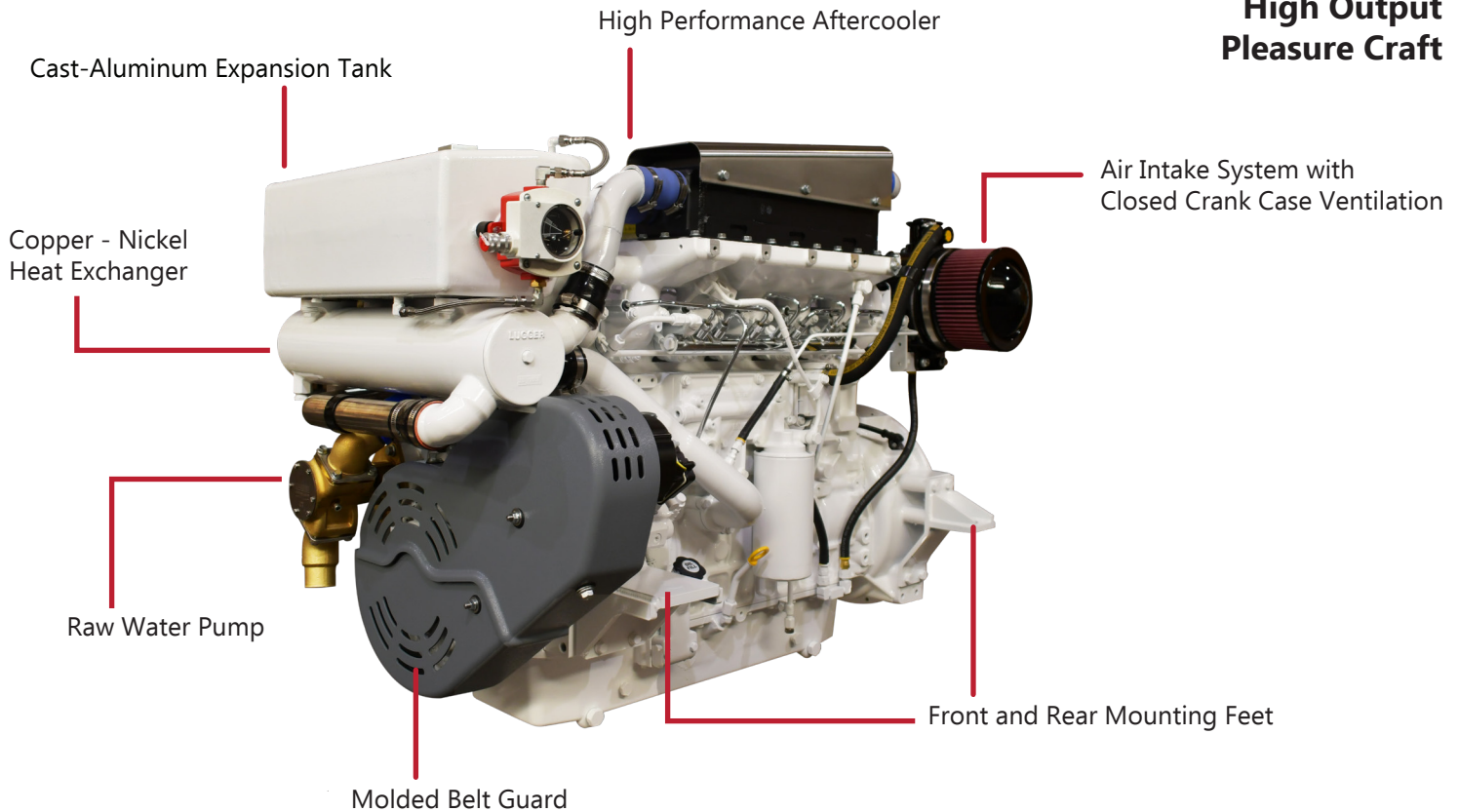




L4105A
Continuous Duty
Medium Duty

L4105H
High Output
Pleasure Craft



FEATURES & BENEFITS

Powered by LUGGER

- Designed for the smallest possible footprint without sacrificing serviceability
- Minimal belts and hoses for longer life
- Reliable cast-iron, gear-driven freshwater and silicon bronze raw water pump

ENGINE BLOCK

- Four cylinder, four cycle, inline, liquid cooled, overhead valve marine diesels with replaceable wet liners
- Forged crankshaft
- Individual cylinder heads for ease of service
- Heavy-duty, plate-type oil cooler
- Shaker pistons with oil gallery for improved cooling and performance

WORLD CLASS FEATURES

- Belt guard for operator safety
- Cast-iron thermostat housing for long life
- Closed loop crank case vent keeps oil vapor inside the engine
- Jacket-water cooled, cast iron exhaust manifold for operator safety and temperature control
- Jacket-water cooled turbocharger turbine housing for safety
- Copper-nickel heat exchanger with removable end covers for easy cleaning
- Sparkling white two-part polyurethane paint
- Operator and parts manual
- Optional stainless steel, wet exhaust elbow rotates for easy installation



L4105A / L4105H

Dimensions and Weight

| | |
|-------------------|------------|
| Length - in (mm) | 45 (1143) |
| Width - in (mm) | 37.6 (955) |
| Height - in (mm) | 40 (1014) |
| Weight - lbs (kg) | 1390 (630) |

Lugger Diesel Engine Data

| | | | | |
|--|--------------------------------|--|--|--|
| Inline Cylinder / Aspiration / Operating Cycle | I-4/Turbo-Aftercooled/4-Stroke | | | |
| Displacement - in ³ (ltr) | 293 (4.8) | | | |
| Bore / Stroke - in (mm) | 4.13 (105) / 5.39 (137) | | | |
| Flywheel Housing Size / Flywheel Size | SAE #3 / 11.5 | | | |

| | L4105A1 | L4105A2 | L4105H1 | L4105H2 |
|-------------------------|------------------|------------------|-----------------|-----------------|
| Duty Factor | Continuous Duty | Medium Duty | High Output | Pleasure Craft |
| Power - FWHP (KW) @ RPM | 174 (130) @ 2100 | 220 (164) @ 2250 | 270 (201) @2400 | 300 (224) @2500 |

Cooling System - Heat Exchanger Standard (Keel-Cooling Optional)

| | Jacket-Water | Jacket-Water | Raw Water | Raw Water |
|---|--------------|--------------|-------------|-------------|
| Aftercooling Type | Jacket-Water | Jacket-Water | Raw Water | Raw Water |
| Freshwater Pump Capacity - gpm (lpm) | 67 (255) | 71 (270) | 77 (290) | 77 (290) |
| Heat Exchanger Approx. Cooling Capacity - gal (ltr) | 9.77 (37) | 9.77 (37) | 9.11 (34.5) | 9.11 (34.5) |
| Engine Only Approx. Cooling Capacity - gal (ltr) | 8.3 (31.3) | 8.3 (31.3) | 7.6 (28.8) | 7.6 (28.8) |
| Raw Water Pump Capacity - gpm (lpm) | 56 (211) | 61 (231) | 62 (235) | 63 (238) |
| Max. Raw Water Pump Suction Head Lift - in (mm) | 39 (1000) | 39 (1000) | 39 (1000) | 39 (1000) |
| Raw Water Pump Inlet Hose ID - in (mm) | 2 (51) | 2 (51) | 2 (51) | 2 (51) |
| Min. Raw Water Inlet/ Discharge Thru-Hull - in (mm) | 2 (51) | 2 (51) | 2 (51) | 2 (51) |

DC Electrical

| | L4105A1 | L4105A2 | L4105H1 | L4105H2 |
|---|-----------|-----------|-----------|-----------|
| DC Starting Voltage Standard (Optional) | 12 (24) | 12 (24) | 12 (24) | 12 (24) |
| Min. Battery Capacity - amp hr | 90 | 90 | 90 | 90 |
| Min. Battery Size - CCA | 750 | 750 | 750 | 750 |
| Starter Rolling Amps - 12V (24V) | 420 (225) | 420 (225) | 420 (225) | 420 (225) |
| 12 Volt Battery Cable Size Up to 5ft (1.5m) - mm ² | 50 | 50 | 50 | 50 |

Air

| | L4105A1 | L4105A2 | L4105H1 | L4105H2 |
|--|-------------|-------------|-------------|-------------|
| Air Consumption - m ³ /m (cfm) | 11.3 (396) | 16 (564) | 15.5 (547) | 17.2 (609) |
| Approx. Heat Radiated to Air - BTU/min | 1131 | 1430 | 1755 | 1950 |
| Exhaust Gas Volume - kg/hr (lbs/min) | 787 (28.9) | 1076 (39.5) | 1053 (38.7) | 1185 (43.5) |
| Exhaust Gas Temp. - C°(F°) | 418° (784°) | 404° (759°) | 492° (918°) | 509° (948°) |
| Max. Exhaust Back Pressure - in H ² O (mm H ² O) | 30 (765) | 30 (765) | 30 (765) | 30 (765) |
| Wet Exhaust Elbow OD - in (mm) | 5 (127) | 5 (127) | 5 (127) | 5 (127) |
| Dry Exhaust Elbow - in (mm) | 4 (102) | 4 (102) | 4 (102) | 4 (102) |

Fuel

| | L4105A1 | L4105A2 | L4105H1 | L4105H2 |
|---|-------------------|-------------|-------------|-------------|
| Approx. Fuel Rate at Full Load - gph (lph) | 10.5 (39.7) | 13.5 (51.1) | 15.5 (56.7) | 17.6 (66.6) |
| Fuel Injection Pump Type and Control | Electronic (HPCR) | | | |
| Min. Suction Line Size - in (mm) | 0.375 (9.525) | | | |
| Min. Return Line Size - in (mm) | 0.375 (9.525) | | | |
| Max. Fuel Transfer Pump Suction Lift - ft (m) | 3.28 (1) | | | |
| Max. Fuel Flow to Transfer Pump - gph | C/F | | | |
| Max. Fuel Return Line - psi | 5 | | | |

Max Engine Operating Angle

| | |
|---------------------------|-------|
| Continuous - Fore/Aft | 10° |
| Continuous - Side to Side | 22.5° |

C/F : Consult Factory