

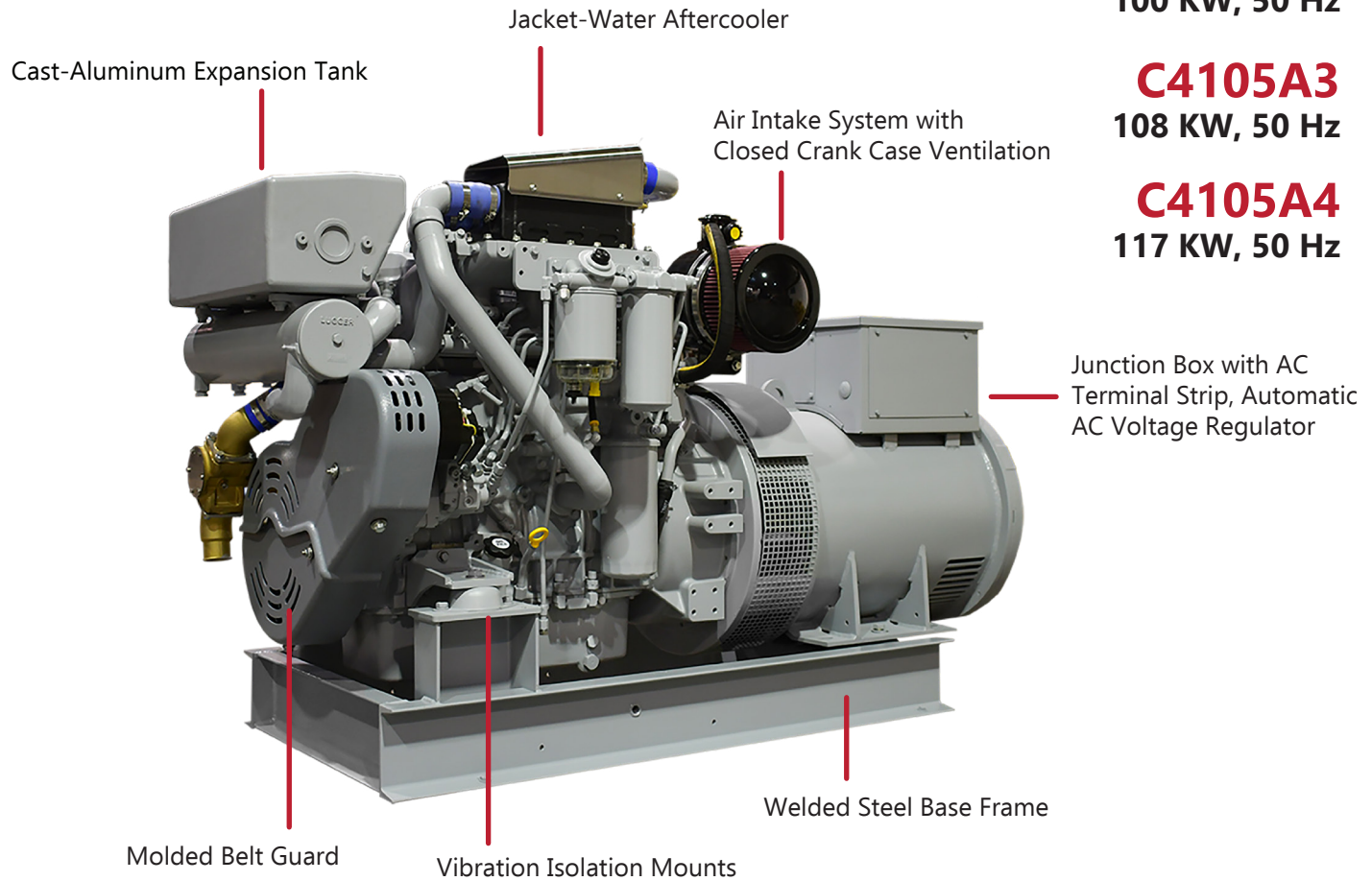


**C4105A1**  
85 KW, 50 Hz

**C4105A2**  
100 KW, 50 Hz

**C4105A3**  
108 KW, 50 Hz

**C4105A4**  
117 KW, 50 Hz



## 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
- Mass balancer improves vibration levels
- 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
- Configured for isochronous or droop speed control with integral electronic governor control supplied by ECU
- 300% short circuit protection with PMG - IP 23
- Welded steel base frame
- Operator and parts manual



	<b>C4105A1</b>	<b>C4105A2</b>	<b>C4105A3</b>	<b>C4105A4</b>
	85 KW, 50 Hz	100 KW, 50 Hz	108 KW, 50 Hz	117 KW, 50 Hz

**Dimensions and Weight**

Length - in (mm)	71.0 (1804)	71.0 (1804)	71.0 (1804)	71.0 (1804)
Width - in (mm)	38.12 (968)	38.12 (968)	38.12 (968)	38.12 (968)
Height - in (mm)	44.8 (1139)	44.8 (1139)	44.8 (1139)	44.8 (1139)
Weight - lbs (kg)	2400 (1090)	2400 (1090)	2400 (1090)	2478 (1126)

**Generator Data**

Voltage Regulation	+/-0.5%	+/-0.5%	+/-0.5%	+/-0.5%
Frequency Control	Isochronous/Droop	Isochronous/Droop	Isochronous/Droop	Isochronous/Droop
Phase and Power Factor - Standard	Three phase 0.8	Three phase 0.8	Three phase 0.8	Three phase 0.8
Generator Full Load Temp. Rise at 40°C Ambient	125°	125°	125°	125°

**Lugger Diesel Engine Data**

Inline Cylinder / Aspiration	I-4/Turbo-Aftercooled	I-4/Turbo-Aftercooled	I-4/Turbo-Aftercooled	I-4/Turbo-Aftercooled
Displacement - in <sup>3</sup> (ltr)	293 (4.8)	293 (4.8)	293 (4.8)	293 (4.8)
Bore / Stroke - in (mm)	4.13/5.39 (105/137)	4.13/5.39 (105/137)	4.13/5.39 (105/137)	4.13/5.39 (105/137)

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

Heat Rejection to Jacket-Water - BTU min	2343	2908	3090	C/F
Freshwater Pump Capacity - gpm (lpm)	50 (190)	50 (190)	50 (190)	50 (190)
Engine Only Approx. Cooling Capacity - gal (ltr)	9.7 (37)	9.7 (37)	9.7 (37)	9.7 (37)
Heat Exchanger Approx. Cooling Capacity - gal (ltr)	8.2 (31)	8.2 (31)	8.2 (31)	8.2 (31)
Raw Water Pump Capacity - gpm (lpm)	40 (151)	40(151)	40 (151)	40 (151)
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**

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 at 0°C - 12V (24V)	420 (225)	420 (225)	420 (225)	420 (225)
12 Volt Battery Cable Size Up to 5ft (1.5m) - mm <sup>2</sup>	50	50	50	50

**Air**

Air Consumption - m <sup>3</sup> /m (cfm)	4.1 (146)	4.4 (157)	4.6 (162)	4.8 (169.8)
Approx. Heat Radiated to Air; Engine & Gen. - BTU/min	1304	1529	1655	1799
Generator Cooling Air Flow 1&3Ø - m <sup>3</sup> /m (cfm)	72 (2542)	72 (2542)	72 (2542)	84 (2966)
Exhaust Gas Volume - kg/hr (lbs/min)	431 (15.8)	473 (17.4)	507 (18.6)	540 (19.8)
Exhaust Gas Temp. - C°(F°)	462° (834°)	482° (899°)	499° (930.2°)	524° (975.2°)
Max. Exhaust Back Pressure - in H <sup>2</sup> O (mm H <sup>2</sup> O)	30 (762)	30 (762)	30 (762)	30 (762)
Dry Exhaust Elbow - in (mm)	4 (102)	4 (102)	4 (102)	4 (102)
Wet Exhaust Elbow OD - in (mm)	5 (127)	5 (127)	5 (127)	5 (127)

**Fuel**

Fuel Injection Pump Type and Control	Electronic (HPCR)	Electronic (HPCR)	Electronic (HPCR)	Electronic (HPCR)
Min. Suction Line Size - in (mm)	0.375 (10)	0.375 (10)	0.375 (10)	0.375 (10)
Min. Return Line Size - in (mm)	0.375 (10)	0.375 (10)	0.375 (10)	0.375 (10)
Max. Fuel Transfer Pump Suction Lift - ft(m)	3.28 (1)	3.28 (1)	3.28 (1)	3.28 (1)
Max. Fuel Flow to Transfer Pump - gph	23.8	25.3	25.8	C/F
Max. Fuel Return Line - psi	5	5	5	5
Approx. Fuel Rate at Full Load - gph (lph)	7.49 (28.35)	8.73 (30.3)	9.62 (36.4)	12.69 (48)

**Max Engine Operating Angle**

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

C/F : Consult Factory