

# COMMONLY ASKED QUESTIONS

## COMMONLY ASKED QUESTIONS ON DETROIT 2-71 ENGINES AND GENERATORS

**Question: What is the fuel consumption of the Detroit 2-71 Generator set?**

Answer: The 2-71 Detroit Diesel Generator will use approximately ½ gallon of fuel per hour with no load. The unit will use approximately 1 ½ gallons per hour under full load.

**Question: Is there a difference from the fuel usage of a 12.5 KW generator to a 20 KW generator?**

Answer: Our testing shows no difference at no load and 5/10ths of a gallon increase per hour with the 20 KW generator over the 12.5 KW generator.

**Question: What type of configuration is the alternator end?**

Answer: The Delco and the EM alternator ends are the Wye style configuration in most instances. The main advantage to wye power is that the phase-to-neutral voltage is equal on all three legs.

**Question: Is this a three phase generator?**

Answer: The generator is a three phase unit. Each leg produces 120 volt power and together the three legs of the unit produces 230 volt three phase power at 60 Hz unit running at 1200 rpm.

**Question: Can I expect to use the generator's full output on single phase for my house or shop?**

Answer: The output capacity of the generator on 2 legs of single phase would be approximately 2/3's of the generator's output. If you review our wiring schematics found on our website you can wire for a balanced load using the third leg of the generator to a separate subpanel and connect this to a separate lighting or outlet system.

**Question: Can I get single phase 120 volt power from this generator?**

Answer: Yes, this unit produces 120 volt single phase power from each leg to neutral.

**Question: Will the 2-71 Detroit Diesel run Bio fuels or vegetable oil?**

Answer: Yes, the 2-71 Detroit Diesel engine will burn bio fuels and vegetable oil.

**Question: How many amps per leg will the Generator put out?**

Answer: The 12.5 KW is rated at 39 amp per leg. The 20 KW is rated at 63 amp per leg.

**Question: How do I adjust the speed of my 2-71Detroit Generator?**

Answer: The Detroit 2-71 generator speed is controlled via the mechanical governor. To adjust the speed one must add or remove shims from the governor high speed control spring assembly.

**Question: What is the weight of the Detroit 2-71 Genset?**

Answer: The base unit weight is approximately 2200 lbs.

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Question: Can this generator be set to run 50 Hz?

Answer: Slowing down the running speed of the engine to approximately 1000 RPM will give you approximately 50 HZ. Based on formula Generator Frequency (f) = Number of revolutions per minute of the engine (N) \* Number of magnetic poles (P) / 120 or  $1000 * 6 / 120 = 50$  Hz.

Question: What Injectors work in my 2-71 Detroit engine?

Answer: Unit originally used the HV6 style injector. More common now are the N60 Injectors.

Question: Can I replace my Compensator panel with an AVR?

Answer: Yes, The 2-71 Diesel Generator can use the AVR (Automatic Voltage regulator)

Question: What is the oil capacity of the Detroit 2-71 diesel engine?

Answer: Depending upon the oil pan style there can be three different oil levels

- 1) Oil capacity of the Industrial 2-71 with deep oil pan approximately 7-1/2" deep is: five (5) U.S. gallons
- 2) Oil capacity of the standard marine 2-71 with the 4-1/2" deep oil pan is: three (3) U.S. gallons
- 3) Oil capacity of the shallow pan 2-71 is: two and three quarters U.S. gallons