



THE APU WITH POWER, PERFORMANCE, AND RELIABILITY

MOST FREQUENTLY ASKED QUESTIONS ABOUT AUXILIARY POWER UNITS (APUs) and the GO GREEN APU

QUESTION 1: What does APU stand for?

ANSWER: An APU is an Auxiliary Power Unit. APU technology has been successfully used in many industrial applications for decades. From RV's to aircraft, APUs have been providing secondary power and heating/cooling without the expense of operating the main engines.

QUESTION 2: What is a GO GREEN APU for heavy trucking?

ANSWER: A Go Green APU delivers power, performance and reliability. The Go Green APU is an alternative to running the truck's main engine using a secondary auxiliary power source. This power source provides a driver with superior comfort and convenience thanks to its 26,000 BTU/hr of cooling/heating and 120 volt AC power. A client who runs on auxiliary power will reduce fuel consumption, downtime and harmful emissions, while extending the main engine's life by approximately 100,000 miles, thus increasing profit.

QUESTION 3: How does the GO GREEN APU work?

ANSWER: The Go Green APU system is manufactured with a KUBOTA 2-cyl which is compliant with Environmental Protection Agency (EPA) Final Tier IV emissions requirements. The KUBOTA engine provides mechanical power to operate the air conditioning compressor, 120 volt AC generator and a 12 volt DC alternator. This engine is sized to provide the necessary power for the needed functions without the cost, expense and overkill of operating the rig's main engine.

QUESTION 4: What is meant by generating 120 volt AC power?

ANSWER: The Go Green APU produces 120 volt AC power, allowing the use of standard electrically driven equipment without the need for expensive inverters or "shorepower" connections. This allows drivers to use microwaves, TV's, lights and tools wherever they stop.

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QUESTION 5: Why have a GO GREEN APU?

ANSWER: A Go Green APU helps truckers maintain profitability by saving money through reduced fuel consumption and extending the main engine's life. In cities and states that have adopted anti-idling laws, an auxiliary power unit is an accepted alternative to idling . . . reducing fuel consumption and emissions and avoiding unnecessary fines. Drivers using a Go Green APU are provided with heating and air conditioning plus all the 120 volt AC creature comfort amenities they need to maintain a high quality of life while on the road.

QUESTION 6: What makes the GO GREEN APU superior to its competitors?

ANSWER: The Go Green APU is superior to its competitors because it is the only APU that has all of the following characteristics:

- Professionally engineered aerospace design standards.
- Self-contained, one box solution.
- Configurable to meet the wide range of climatic and geographical requirements of long-haul trucking routes.
- 120 volt AC power generation to run appliances.
- 1 year complete warranty on the APU, backed by Go Green APU network of convenient service centers.
- 2 year/2,000 hour limited warranty on the engine, backed by KUBOTA.
- The Go Green APU has been designed to allow ease of access to and rapid exchange of key components.
- Readily available name-brand components can be removed and replaced within an hour.
- KUBOTA's engines are EPA Final TIER IV compliant.
- One of the easiest units to install.
- Most tested design, via computer simulation and on-road testing.
- Best in Class Heating, Ventilation, Air Conditioning (HVAC) output (26,000 BTU/hr) in all temperature conditions.
- Financing Available.

QUESTION 7: Where does an APU go on the rig?

ANSWER: The APU is mounted on a frame rail of the rig in an area with 30 in (76 cm) of free space. Specific location depends on the rig and the client's choice.

QUESTION 8: How much does it weigh?

ANSWER: The installed frame weight is 510 lbs (does not include the HVAC unit or the Power Distribution Module which combined is 38 lbs).

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QUESTION 9: How much noise does the APU create?

ANSWER: The Go Green APU meets the federally mandated National Park Service Standard (36 CFR 2.12: 60 DB at the A-WEIGHTED scale @ 50 ft) for RV generator noise, and is quiet enough that a conversation can be held right next to it. The sound level measures 59.5 dBA (with Go Green Quiet Comfort option).

QUESTION 10: How does the GO GREEN APU help with cold starts of the rig's main engine?

ANSWER: The APU provides 120 volt AC to power the main engine block heater and any aftermarket secondary heaters, such as those for tanks and fuel lines. This approach will maintain engine heat without creating potential truck warranty and failure concerns common with systems that tap into the main engine's coolant and oil systems.

QUESTION 11: Do small diesel engines meet EPA standards?

ANSWER: The Go Green APU uses a KUBOTA engine that is EPA Final Tier IV compliant.

QUESTION 12: Who installs the APU onto the rig?

ANSWER: Go Green APU prefers to complete installations at our facility in Altoona, Pa. However, other accommodations can be made based on your location and the number of units being purchased. Please call for details.

QUESTION 13: How much downtime will be required for the installation?

ANSWER: Installation time is specific to the condition of the rig. Average installation can be completed in a single day by a two-mechanic team, minimizing down time.

QUESTION 14: Where is the GO GREEN APU serviced and repaired?

ANSWER: At a Go Green APU authorized service center. A list of authorized service centers can be found at www.gogreenapu.com.

QUESTION 15: How often does the GO GREEN APU need to be serviced?

ANSWER: No more frequently than the oil change of the main engine. Our oil change interval is 500 hours – fully supported by the engine manufacturer's warranty.

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QUESTION 16: What do you mean by user-specific configurability?

ANSWER: The Go Green APU can be ordered to meet the fleet's or client's driving habits by providing options for:

- a) A 4.0 kW/4,000 watts, 30 Amp generator.
- b) A 5.2 kW/5,200 watts, 40 amp generator.
- c) Quiet Comfort™ package.
- d) Remote key start.

QUESTION 17: How can a GO GREEN APU save a client money?

ANSWER: A client using a Go Green APU, who turns off the main engine of a big rig during rest periods, loading, unloading and fueling, will immediately:

- a) Reduce fuel costs, saving money.
- b) Extend the engine's life, deferring major engine overhauls, allowing more hauls before service downtime and increasing resale value.

QUESTION 18: How quickly can a client see cost savings?

ANSWER: Immediately. Even if the unit is financed 100% (on approved credit), the monthly fuel savings should cover the monthly payment, assuming normal idling patterns.

The typical long-haul rig idles 2,500 hours per year and consumes approximately 1.2 gallons of fuel per hour idling under load. If fuel costs \$3.99 per gallon, the main engine's idling will cost the client **\$11,970** per year.

The 2-cyl Go Green APU will consume 0.2 gallons of fuel per hour under load. The same 2,500 hours of idling will cost only **\$1,995**, saving the owner **\$9,975** per year on fuel alone. The owner will also save on engine overhaul costs.

QUESTION 19: Does installing an APU onto your rig void the rig's warranty?

ANSWER: As long as the APU does not invade the rig's HVAC and coolant systems, it should not affect the rig's warranty. That is why we designed the Go Green APU to be independent of the main engine's systems.

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