



Atlas Copco's new QAS 25 generator set is rated 20 kW/25 kVa prime and 22 kW/28 kVa standby and targets a broad range of power generation applications, including oil and gas, rental and construction. It is powered by a Tier 4 final Isuzu 4LE2T diesel engine.

The 4LE2T is a four-cylinder, liquid-cooled diesel with bore and stroke dimensions of 85 x 96 mm and a total displacement of 2.197 L.

The inline four-cylinder, overhead valve engine is water-cooled and incorporates an electronically controlled high pressure common rail fuel injection system, wastegate turbocharger and an exhaust gas recirculation (EGR) system that combines a high-efficiency plate-and-fin cooler with a variable control EGR valve. A lube oil cooler is also included to provide for longer oil change intervals and improved performance.

Engineered to provide a compact envelope (29.1 in. long, 30.4 in. wide, 30.4 in. high with a dry weight of 478 lb.) the 4LE2T engine is rated 66 hp at 1800 rpm. To meet the stringent Tier 4 final emissions requirements, it also incorporates a diesel oxidation catalyst (DOC) with a metallic substrate that is designed for durability and reliability.

"Probably the key factor with this engine was that it has a diesel oxidation catalyst and is a DOC-only solution," Siffing said. It doesn't have a diesel particulate filter and it doesn't have SCR and urea and that's a big reason why we went with Isuzu."

The engine drives a four-pole Leroy Somer LSA40M5 alternator. The heavy-duty marine-impregnated unit offers multivoltage (208/240/480) capability and the AREP (auxiliary winding regulation excitation principle) excitation system is designed to deliver high motor-starting capabilities,

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## MAKING TIER 4 POWER SIMPLER

Atlas Copco launches Tier 4 final QAS 25 generator powered by DOC-only Isuzu 4LE2T diesel

**A**tlas Copco Portable Energy, the division of Atlas Copco Construction Technique specializing in portable compressors, high pressure boosters, generators, light towers and portable dewatering pumps, has released the Tier 4 final version of its smallest generator set.

The new QAS 25 is rated 20 kW/25 kVa prime and 22 kW/28 kVa standby and targets a broad range of power generation applications, including oil and gas, rental and construction.

"It's the Tier 4 final version of our smallest unit," said Jim Siffing, prod-

uct manager, Generators, Atlas Copco Portable Energy, Commerce City, Colo. "It's the smallest physically and the smallest kVa node that we offer.

"It's also a little bit of a departure in that we've changed some things on it, including the engine. So while the model number is the same, it's a significantly different product from what we had at Tier 4 interim."

The new QAS 25 generator is driven by an Isuzu 4LE2T diesel, which is one of the new Tier 4 final engines launched by Isuzu earlier this year (see June 2014 *Diesel Progress*).

Along with a standard skid-mounting, the QAS 25 gen-set is also available with an optional single-axle trailer that incorporates tie-downs for transport and a standard single-point lifting eye in the enclosure.



with 300% over-current capabilities for demanding situations.

Engine and generator functions are controlled through a DeepSea 4510 controller. The unit has a backlit display indicating a range of critical machine functions and status, including remote start/stop, generator voltages, frequency, current (Amps), total load (kW, kVA), power factor, engine

speed, oil pressure, coolant temperature, battery voltage, runtime, engine maintenance schedule and fuel level. Warning and shutdown setpoints can be established by the user, and all of the information can be viewed through a Plexiglas panel in the door.

A voltage selector switch allows operators to adjust the machine's output between the three three-phase

voltage settings to 120/240 V single phase. Electrical connections on the QAS 25 generator include a pair of NEMA 5-20R receptacles as well as two 125/250 V 50 Amp receptacles.

The engine, generator and 72 gal. fuel tank are mounted within a powder-coated galvanneal steel enclosure that incorporates a 110% fluid containment base. The fuel tank allows 45 hours of continuous operation at 75% load, the company said, and external fuel connections are available as an option for extended run times. The enclosure also incorporates sound-attenuating material that, along with the vertical discharge of the radiator airflow and exhaust, helps provide a sound pressure level of 67 dB(A) at 23 ft. at 75% load.

In an effort to provide easy maintenance access, the QAS 25 gen-set utilizes large service doors with all maintenance points on one side, providing quick access to the alternator, engine and electrical components. Drains for water and oil are easy to reach, Atlas Copco said, and can be directed outside of the containment basin for simplified draining. Coupled with extended life filters, service intervals have been extended to 500 hours, the company said.

Along with the standard skid-mounted configuration, the QAS 25 gen-set is also available with an optional single axle trailer. Trailer-mounted units incorporate tie-downs for transport, while skid-mounted units integrate forklift pockets. All units also incorporate a standard single-point lifting eye in the enclosure for maneuvering with a crane.

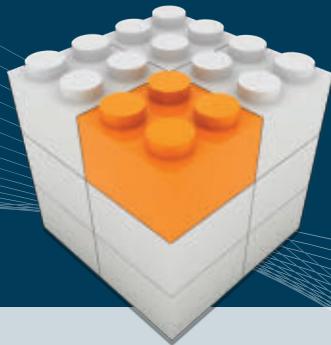
The skid-mounted version of the QAS 25 is 75 in. long, 34 in. wide and 54.5 in. high, with a wet weight of 2290 lb. With trailer, the package is 121.5 in. x 57 in. x 75.5 in. and weighs 2635 lb.

All of the machines are manufactured at Atlas Copco's Rock Hill, S.C., facility. **dp**

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