



Kohler has continued to expand its range of mobile diesel generator sets with the launch of the 145REOZT4 and 175REOZT4 gen-sets that target both prime power and standby applications.

## KOHLER EXPANDS GEN-SET LINES

New mobile units powered by Deere Tier 4 final diesels; propane line extended and new light commercial unit unveiled

**K**ohler Power Systems, the division of Kohler Co. specializing in power generation products and technologies for residential, commercial/industrial, marine and emergency applications, has launched new generator products in several of its market segments.

The 145REOZT4 and 175REOZT4 generator sets are the newest models in the company's line of diesel-powered mobile generators and target both prime and standby operations. Kohler initially launched the first models of its new mobile gen-set line in 2014 and expects to complete the range this year. When complete, the line will span 11 diesel gen-sets from

28 to 544 kW and four liquid propane units from 24 to 100 kW.

"We're pleased to announce these additions to our diesel mobile generator line, which are ideal power solutions for a wide variety of markets, including the event rental, construction, commercial and water utility sectors," said Anne Feudner, product manager for Kohler Power Systems. "This extension reflects the strong industry response we've received to our existing mobile generators from those seeking ultimate dependability in combination with a high level of application flexibility."

The 145REOZT4 gen-set delivers ratings of 106 to 130 kW standby,

105.5 to 117 kW prime and 99 to 117 kW continuous, all at 60 Hz. Ratings for the 175REOZT4 are 106 to 154 kW standby, 106 to 139 kW prime and 106 to 137 continuous, again at 60 Hz.

Both of the new mobile units are powered by John Deere 6068HFG08 diesels. The inline six-cylinder engines have a bore and stroke of 106 x 127 mm for an overall displacement of 6.8 L and utilize variable geometry turbochargers and high-pressure common rail fuel injection.

The engines also incorporate Deere's Integrated Emissions Control system that combines cooled exhaust gas recirculation (EGR), an exhaust filter module with a diesel oxidation catalyst (DOC) and diesel particulate filter (DPF) in series and ends with a selective catalytic reduction (SCR) system. With the emissions control system, the engines provide uninterrupted operation with passive regeneration that does not impact power output, Kohler said.

The engines drive Kohler's own four-pole 4S12X (175REOZT4) or

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Kohler has also launched the 30REZGT propane powered gen-set, which was developed in cooperation with the Propane Education & Research Council (PERC). It targets rental, commercial, construction and utility applications.

4R13X (145REOZT4) rotating field alternators with brushless, rare-earth permanent magnet exciters through flexible disc couplings.

Both the 145REOZT4 and 175REOZT4 gen-sets are equipped with Kohler's Decision-Maker 3500 digital controller engineered to provide user-friendly displays and keypad functions along with advanced network communications for remote monitoring.

The parallel-capable system has a 4.3 in. LED-backlit color graphic LCD display for readability in all lighting conditions and incorporates fully potted circuitry for protection from vibration and debris, the company said.

The customer connection panel also includes a recessed emergency stop switch, an adjustable-trip main line circuit breaker, load lug connections and shore power connection points to the front of the junction box for block heaters, battery chargers and battery heaters.

Other control features include auto sensors on the selector switch setting, which Kohler said eliminates the need to program voltage changes; complete voltage, current, frequency and power monitoring; analog inputs, warnings and faults monitoring; and EPA-required emissions system monitoring.

Both of the diesel gen-sets incorporate 244 gal. sub-base fuel tanks that allow for 24-hour runtimes at full load at the prime rating. The fuel tanks include a fuel level gauge, fuel fill with lockable cap and vent and a two-way fuel valve designed to provide easy switchover from onboard to external fuel sources. An 11.4 gal. diesel exhaust fluid (DEF) tank supplies the SCR system, and there is 110% environmental containment for fuel, oil, coolant and DEF.

The gen-sets can be mounted on a dual-axle trailer with electric brakes or on a heavy-gauge skid with integrated drains and pull bars.

Kohler has also launched the 30REZGT generator, its fourth unit engineered to operate on propane. Like its predecessors, the 50REZGT, 70REZGT and 125kVA, the 30REZGT was developed in cooperation with the Propane Education & Research Council (PERC). It targets rental, commercial, construction and utility applications.

The 30REZGT is available in a standby rating of 28 kW, 25 kW prime. It is powered by a naturally aspirated, inline four-cylinder engine supplied by PSI. With a bore and stroke of 101.6 x 91.4 mm and an overall displacement of 3.0 L, the engine can operate on LP or natural gas, and it drives a Kohler 4P5X rotating field, brushless, rare earth permanent magnet alternator. Engine and generator operation is again through Kohler's Decision-Maker 3500 paralleling controller.

The 30REZGT incorporates an onboard LP tank that offers up to 24 hours of runtime when the generator is used at sites that don't have a dedicated propane supply. Operators can switch to an on-site propane supply when one is available, Kohler said.

On the lighter side, Kohler has also launched the Kohler 14/20, an air-cooled, three-phase generator specifically designed for businesses seeking a more economical, space-saving alternative to traditional liquid-cooled, three-phase units.

"An air-cooled, three-phase generator may be ideal for banks, restaurants, convenience stores and other commercial applications where 20,000 W or less are needed during power outages," said Melanie Tydrich, senior



smartphone using the OnCue Plus wireless generator management system, Kohler said. The engine, alternator and controls are packaged within a corrosion-resistant enclosure designed to blend with a building's exterior, while its operating sound level is similar to a central air conditioning unit, the company said. **dp**

**diesel Weblink**

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Kohler has also launched the Kohler 14/20, an air-cooled, three-phase generator specifically designed for small businesses seeking a more economical, space-saving alternative to traditional liquid-cooled, three-phase units.

channel manager, Residential/Light Commercial for Kohler. "Because the generator is air-cooled, you get all the performance and power of an equivalent liquid-cooled generator in a smaller, more economical package. It's specifically designed for smaller-sized businesses that want to stay up and running during a power outage."

The 14/20 kW generator can be operated on either natural gas or LP and offers standby ratings of 12 to 18 kW on natural gas and 14 to 20 kW on LP. The unit is powered by one of two Kohler commercial-grade V-twin engines, depending on the rating: either the CH740 or the CH1000. The CH740 has a bore and stroke of 83 x 67 mm for a 725 cc displacement, while the CH1000 has a 999 cc displacement on bore and stroke dimensions of 90 x 78.5 mm. The engines directly drive Kohler 14RESAL or 20RESAL two-pole rotating field alternators with digital voltage regulation.

Equipped with Kohler's DC2 controller and RXT transfer switch, the generator is designed to start within 10 seconds of an outage and can power major systems and appliances in a small business, such as HVAC, lights, security systems, computers, cash registers, coolers and more, Kohler said.

The generator can be remotely monitored from a computer, tablet or

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