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Comstock/Comstock/Getty Images Briggs and Stratton are a manufacturer of small engines for commercial and residential use in outdoor electrical equipment such as lawn mowers, tractors, chip cutters and log partings. Briggs and Stratton Corporation has produced a number of different engine series in different horsepower sizes and axle configurations. One of their most recent models, since 2010, is the Intek engine series, available in a variety of horsepower. The Intek series comes in horizontal and vertical oson engines - vertical axles are usually used for tractors on the lawn, while horizontal axles are often used for snow throwers or chipping shredders and other types of equipment. The maximum rated horsepower of the Briggs and Stratton engines of 8 horsepower is eight horsepower; however, the maximum recommended horsepower of this engine is only about 6.5 horsepower. This distinguishes between the way small motor horsepower is rated load-free in relation to the rating in working conditions and under load. The Briggs and Stratton Intek 8 horsepower engine has a maximum operated top rating per minute of 3600, so the engine cannot be over-revived or overrun by the operator as it is mechanically operated. Briggs and Stratton's 8-horsepower engine is a single cylinder, an L-head engine with a cast iron sleeve that line the aluminum cylinder area for maximum engine life. The engine has a bore of 3.12 inches and a stroke, or maximum piston movement, of 2.43 inches. The displacement of this engine is 18.6 cubic inches, or 305 cubic centimeters. It has an internal oil sump containing 28 ounces of motor oil. In addition to these specifications, the Intek 8 horsepower engine has an above-ground valve system for cooler operation and reduced emissions, as well as a two-year commercial warranty on all mechanical parts of the engine. Briggs and Stratton's 8-horsepower engine is available with a horizontal or vertical axle, and with standard mounting screw locations thrown at the base of the engine so that it can be mounted on a different power supply equipment that uses standard mounting holes. The body of the engine is cast aluminum, which makes it lightweight, but since the cylinder is coated with cast iron, it has a long service life. Two race endurance go-karts by Nicola Gavin of Fotolia.com Briggs & Stratton since 1908 produce high-quality mower engines, snow blowers and custom races and is currently the largest manufacturer of small petrol engines in the world. Since the raptor's introduction, Briggs & Stratton has offered 5-horsepower engines, which was the primary engine in the company's racing line until it was removed from production in 1999 to comply with new environmental regulations. Briggs & Stratton continues tradition The 5-horsepower model with its Animal, 206 and Word Formula racing engines. The Briggs & Stratton Raptor engine has a bore between 2.56125 and 2.5625 inches and a move of 2,438 inches. This corresponds to a total engine displacement of 12.48 cubic inches per engine cycle. The more modern Briggs & Stratton 5-horsepower engines have the same 12.48 cubic inches of engine displacement, but achieve this offset volume using a wider well and shorter stroke. The currently manufactured Animal, 206 and World Formula engines have a borehole between 2.6875 and 2.6885 inches and a stroke of 2.2 inches. The original Raptor engine series had a compression ratio -- the ratio of stroke length to combustion chamber length -- from 6.5 to 1. Despite shorter moves, modern Briggs & Stratton engines also have shorter combustion chambers and thus have higher compression ratios. The world formula has a compression ratio of 9.5 to 1, 206 has a compression ratio of 9 to 1, and animal has a compression ratio of 8.5 to 1. The factory determined optimal ignition time for the Raptor engine is 22 degrees before the top of the dead center (BTDC). The Animal, 206 and World Formula engines are factory designed during the 29-degree BTDC ignition. Many users change their Briggs & Stratton racing engines to improve or stretch engine performance limits. If you buy a used Briggs & Stratton engine, ask the seller about any modifications that have been made and how they may affect engine performance. published on October 16, 2018 Photo Source: CPSCBriggs & Stratton Corporation of Wauwatosa, Wis., recalls about 3,000 fuel tank replacement caps made by Kelch/Bemis.Replacement fuel tank plugs lack ventilation vents that allow pressure to accumulate in the fuel tank, posing a fire hazard. There were no injuries or injuries. This recall includes a model of B4363GS fuel tank replacement plugs made by Kelch/Bemis for Briggs & Stratton portable generators that use a plastic fuel tank without venting. Black caps for replacing the fuel tank lack an opening inside a clear lens covering the fuel meter. Fuel caps can be identified by visual inspection of the lenses for the ventilation opening towards the bottom of the gauge. The caps are about 2.5 inches in diameter and 1.25 inches wide. Two 5.5-inch metal rods extend from the bottom of the cap to support the float moving the needle in the fuel gauge. Fuel tank replacement caps have KELCH imprinted on the bottom of the stopper. U.S.-made fuel caps were sold at Briggs & Stratton dealers and retailers nationwide from February 2017 to February 2018 for about \$26.What to doConsumers should immediately stop using portable generators and return the recalled fuel tank replacement cap to Briggs & Stratton dealer for free replacement. Consumers Contact Briggs & Stratton at (800) 227-3798 from 8am.m to 5pm (CT) Monday.m to Friday or online at www.briggsandstratton.com and click Support at the top of the page to get to the company or dealer locations. Lifewire / Nick Jaynes We bought a Briggs & Stratton P2200 Portable Generator so that our expert reviewer could thoroughly test and evaluate it. Read on for our full product review. The market for portable generators from 2000 to 2800 watts is competitive. Each manufacturer puts its spin on the segment. Some are built in USB ports and smart hinges; others go for a more traditional design, but include thoughtful features of ease of use. Briggs and Stratton are no different. Its P2200 is located somewhere in the middle of the pack, with 2200 watts of peak power output but 1700 watts of reliable and sustainable power at 64 decibels of noise. At 25% power output, it can operate for 8 hours on one tank of one-gallon gasoline. These are all pretty impressive specifications, given the \$495 price tag. Briggs and Stratton P2200 attracted positive attention from both reviewers and customers, so we tested it under 18 hours of break-in and testing to see if that justified the hype. Lifewire / Nick Jaynes Two things immediately hit us by pulling Briggs and Stratton P2200 out of the box for the first time: first, how easy it is to grab, and secondly, how humble the chassis is. The grey plastic exterior is a welcome departure from the traditional color schemes of the portable generator market. Hondas are bright red, champions are bright yellow, and Westinghouses are royal blue or camouflage. But the P2200 is computer gray from the 1990s. It's not flashy, but it's a good thing in our eyes. Once it's completely out of the box, you'll notice that the top handle is H-shaped, making it super easy to capture and carry, regardless of angle or position. In addition, it is well weighted, so the load is not too clumsy to drag around. It's clever but modest touches like the ones that make the Briggs and Stratton P2200 a real pleasure to own and use. Study it further and you'll notice some other smart design features. The start/stop switch next to the pull cable also acts on the fuel switch so you'll never forget to turn off the fuel and you'll never spill the carburetor and spill the gas everywhere. It's clever but modest touches like the ones that make the Briggs and Stratton P2200 a real pleasure to own and use. That's why we gave him the 'best design' nod in our portable generators. Lifewire/ Nick Jaynes Thanks to a secured screwdriver, 30-weight oil bottle and angular funnel, starting briggs and Stratton P2200 for the first time is relatively easy. Unscree the two screws on the side that provide the access panel and it comes immediately. There you can easily access the oil filler, as well as and cleaner. The oil filling hole has a narrowed lower cup that expels excess oil from the housing. Funneled cone metal provides excess oil dripping out and away from the body unit, and guarantees oil changes will be less messy than with other similar size portable generators. Igniting the Briggs and Stratton P2200 for the first time requires several pulls of the starter cable. You may have to play around with suffocation for the first time. However, having broken in, even in cold conditions, the P2200 was pretty easy to start with every time. Lifewire / Nick Jaynes Some manufacturers give the best output power scenario and noise specifications. We'll talk about noise in a moment. But in terms of performance, Briggs and Stratton actually undersold the P2200. Briggs and Stratton rate the P2200 at 2200 watts of peak power output and at 1700 watts of peak normal labor power. We ran it right to the top, just above 1600 watts, for more than two hours under our most stressed testing cycle, and we found it was performed with admiration. In terms of performance, Briggs and Stratton actually subseate the P2200. At 450 to 800 watts of continuous load, it surpassed even the company's own ratings. Under these load conditions, we squeezed out six hours of work on one gas tank. Keep up the guess that we tested ours with non-ethanol gasoline as recommended by Briggs and Stratton. If you can't find it locally, the company sells cans online. Lifewire / Nick Jaynes On the front of briggs and Stratton P2200 users there will be a two-storey three-way socket, a cigarette lighter-style connector and a proprietary three-way parallel port. No, your two-way Honda parallel cables won't work with this generator. What's nice about a round 12-volt cigarette lighter-style connector is its versatility. You can use any accessories or gadgets designed to be attached to a dash of vehicle. For example, we turned on the power inverter, which offered us even more three-proxies. If you're not trying to like it too much, you can also plug in the intended adapter with two USB ports. We've never seen a portable generator turn on a USB adapter in a box before. We're giving hats to Briggs and Stratton for that thoughtful addition. Briggs and Stratton rate the P2200 at 59 decibels seven metres away. To put that in perspective, it's quieter than the average lawn mower by about 20 dB. Our iPhone app-based decibel meter found it slightly louder than the one at 64 decibels. That's not terribly loud, because some other portable generators can climb into the '70s on decibelo measure. Nevertheless, for a relatively small engine of 111 cubic centimeters and 2200 watts of peak surge power it was definitely on the loud side. MSRP for P2200 is \$729, but as of this writing it is available for \$495 on It was competitive at the suggested retail price, and if you really buy it anywhere below the \$650 mark, that's very good value. In and around its price point are Wen 56200i and Westinghouse iGen2500. Wen puts on 1600 watts and a peak of 2000 watts and retails on Amazon for \$430. Westinghouse peaks at 2500 watts, with a reliable 2200 watts output, and goes for \$679 on Amazon. If we could compare his MSRP to this, Briggs and Stratton could be a generator worth overlooking, but a discounted one that's a compelling option. As we consider prices, we put briggs and Stratton P2200 directly against westinghouse iGen2500, which, by our approximation, is one of its main competitors - both in price, design and performance. As for size, they are comparable, but the iGen2500 is significantly lighter at 48 pounds (compared to P2200 is 56). IGen2500 also stands out in terms of performance. It spews 2200 watts with a peak wave of 2500 watts, while the P2200 reaches peaks at 2200 watts with a standard output of 1700 watts. Its noise levels were rated by the manufacturer at 52 decibels. By comparison, Briggs and Stratton clock their P2200 at 59 decibels, and in reality generates closer to 64 decibels. The P2200 has the advantage in sockets, with a duplex, lighter port and parallel port, while the iGen2500 has only a duplex and USB port. While Westinghouse saved at points of sale, it added a smart gauge so users could easily track fuel levels and power. Westinghouse is a slightly superior generator, but this difference is also reflected in the price. Right now, the Briggs and Stratton P2200 can be purchased for significantly less than the Westinghouse iGen2500 (\$677 for Westinghouse on the P2200 is \$595), so it comes down to budget and taste. A final judgment is highly average. Briggs and Stratton P2200 look exactly as they are -- in the middle of the road. He's not the most powerful, the attier or the richest. However, it is a reliable and affordable candidate in the portable generator space. If you want a generator that has good results at a reasonable price, look no further than the Briggs and Stratton P2200. The P2200.

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