

VANGUARD®



UNWAVERING PORTABLE PERFORMANCE WORLDWIDE



Global Ambitions for Pavliš a Hartmann's New Flagship Fire Pump powered by Briggs & Stratton's Vanguard® BIG BLOCK™ engine

Pavliš a Hartmann, a premier Czech manufacturer with over three decades of expertise in firefighting equipment, has built a reputation on precision engineering and innovation. The company constantly seeks to enhance its portfolio using innovative engineering to boost safety and efficiency in complex fire and rescue scenarios. With distribution networks established across Europe, Africa, Asia, and South America, Pavliš a Hartmann serves fire departments, industrial facilities and emergency response organizations in some of the world's most challenging environments.

When Pavliš a Hartmann's engineering team initiated the development of the [BETA portable pump](#), they set ambitious objectives to meet. The new unit had to achieve full professional PFPN 10-1000 classification (delivering more than 1,000 litres per minute at 10 bar) yet remain light enough for manual positioning by a two-person team, suitable for narrow access points, uneven terrain, and remote locations.

After extensive evaluation of available power options, Pavliš a Hartmann selected Briggs & Stratton's Vanguard 29,9 kW¹ (40HP) V-Twin engine equipped with Electronic Fuel Injection (EFI) and Electronic Throttle Control (ETC). This decision reflected a sophisticated understanding that modern firefighting equipment requires intelligence, not just power.



¹ Power levels are stated gross kilowatts per SAE J1940 as rated by Briggs & Stratton.



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EFI/ETC PLATFORM WAS
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IN THE WORLD.**



Tomas Mika
Manager Regional Sales, CEE & Balkans
Briggs & Stratton

Tomas Mika, Manager Regional Sales for CEE & Balkans at Briggs & Stratton, explains: “Portable firefighting pumps demand high power density, reliability, and consistent performance in unpredictable environments. The Vanguard BIG BLOCK EFI/ETC platform was designed for applications like this, where equipment must deliver dependable performance anywhere in the world.”

These performance and portability requirements represented only the baseline specifications. The most complex challenge came from Pavliš a Hartmann's global market presence, where equipment must perform without compromise in extreme altitudes, variable fuel quality, severe temperatures, and sudden load changes.

The Vanguard EFI system replaces carburetor technology with an Electronic Control Unit (ECU) that continuously monitors air pressure, engine temperature, and speed. Working in conjunction with EFI, the Electronic Throttle Control (ETC) replaces traditional mechanical governors with electronic sensing, enabling near-instant response to sudden load changes—such as when firefighters open an attack line—while maintaining stable pressure. The system also ensures reliable starting in both extreme cold and tropical heat.

Beyond the adaptive intelligence of the EFI and ETC systems, the Vanguard engine incorporates additional features that enhance operational capability and system integration. The engine's horizontal shaft configuration enables direct coupling between engine and pump shafts, eliminating belts or gearboxes that typically waste 5–15% of power.

In addition, the engine is capable of CANbus. The CAN J1939 communication protocol transmits real-time data including engine speed, temperature, runtime hours, and fault codes. This enables integration with control panels, diagnostics, fleet monitoring, and automated date logging for simplified troubleshooting and routine maintenance.



**VANGUARD
V-TWIN EFI/ETC ENGINE
29,9 GROSS KW¹
(40,0 GROSS HP¹)**

ENGINE TYPE	V-Twin, 4-stroke, air cooled, OHV (Overhead Valve)
MODEL NUMBER	61G2
GROSS POWER KW (HP) @ 3 600 RPM:	29,9 ¹ (40,0 ¹)
DISPLACEMENT (CC)	993
CYLINDER	Cast iron sleeve
OIL CAPACITY (L / OZ)	2,3 / 78
DRY WEIGHT (KG / LBS)	56,7 / 125
DIMENSIONS L X W X H (MM / IN)	379 x 496 x 725 / 14.92 x 19.53 x 28.54
FEATURES	EFI/ETC, oil filter, cyclonic air cleaner, full pressure lubrication, oil cooler, oil pressure switch, CANJ1939 communications, OEM selectable speed
OPTIONAL	flywheel stub shaft, tach/hour meter with check engine light, alternators (20, 20-50 amp), high and mid mounted mufflers, flat panel air cleaner

¹ Power levels are stated gross kilowatts per SAE J1940 as rated by Briggs & Stratton.

² See operator's manual or dealer for complete warranty details.

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THE VANGUARD 3-YEAR GLOBAL WARRANTY WAS A KEY FACTOR IN OUR DECISION AS IN COMBINATION WITH THE WORLDWIDE SERVICE NETWORK IT PROVIDES VALUABLE PEACE OF MIND FOR OUR CUSTOMERS. ”

Pavel Pavliš
Head of Sales
Pavliš a Hartmann

The integration of the Vanguard engine into the BETA fire pump has delivered exceptional results. The pump achieves 1,020 liters / 269.5 gallons per minute at 10 bar / 145 psi (at 3-meter / 118-inch suction height), meeting and exceeding its PFPN 10-1000 classification requirements, with a maximum flow capacity of 1,432 liters / 378.3 gallons per minute. The unit demonstrates exceptional suction capability, priming from a depth of 8 meters / 315 inches in under 30 seconds, ensuring rapid water delivery when every second counts.

Pavel Pavliš, Head of Sales at Pavliš a Hartmann, emphasizes the strategic importance of the partnership: "We have very good experience with Briggs & Stratton engines, and the Vanguard 3-year global warranty was a key factor in our decision as in combination with the worldwide service network it provides valuable peace of mind for our customers."

For Pavliš a Hartmann, the engine has provided more than just power—it has provided a passport for global deployment. Powered by Vanguard, the BETA stands ready to serve emergency teams worldwide, delivering unwavering performance whenever and wherever it is needed.



LEARN MORE

about how our passion for power can benefit your equipment and your customers.



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ABOUT BRIGGS & STRATTON | VANGUARD

Briggs & Stratton, headquartered in Milwaukee, Wisconsin, provides innovative products and diverse power solutions to help people get work done. Briggs & Stratton is the world's largest producer of engines for lawn and garden, turf care and job site power equipment and is a leading designer, manufacturer and marketer of lithium-ion batteries, standby generators and energy storage systems through its Briggs & Stratton®, Vanguard®, Ferris®, Simplicity®, Snapper®, Billy Goat® and Branco® brands. Briggs & Stratton products are designed, manufactured, marketed and serviced in over 100 countries on six continents.

Vanguard helps professionals to get their work done by applying power to their unique commercial applications. For nearly 40 years, Vanguard has partnered with customers to conquer challenges and develop innovative products. As Vanguard doesn't simply provide components, it supports customers in applying commercial lithium-ion and petrol power throughout the entire integration process, from development to serial production to after sales and training support. www.vanguardpower.com

ABOUT PAVLIŠ A HARTMANN

Pavliš a Hartmann is a traditional Czech manufacturer and global supplier of complete firefighting solutions. The company specializes in equipping emergency responders with high-quality fire hoses, advanced pumping systems, and tactical fittings engineered for maximum durability. With a dedicated technical advisory team and rapid support across its European offices, Pavliš a Hartmann's equipment protects lives and infrastructure worldwide. www.firefighting-phhp.com

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