



Bosch offers energy-efficient 12V water-circulating pump for modern heating systems

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New water pump in a robust, compact design, ideal for hot-water circuits

- ▶ Very good electromagnetic compatibility thanks to 12-volt power supply
- ▶ Easy hose assembly for uncomplicated maintenance and replacement
- ▶ Compact design weighing only 550 grams

Karlsruhe, Germany – Modern heating systems with heat pumps and compact hot-water tanks take up significantly less space in the house than conventional heating systems. In addition, they are typically very energy efficient. Bosch has taken its automotive water pump, which has proven itself millions of times over, and modified it for use as a water-circulating pump. Instead of the usual 230 volts in European household electricity, this pump operates at 12 volts. With a compact design and weighing only 550 grams, the pump also saves space, since it is integrated into the internal hot-water circuit. For example, it can be installed between the heat exchanger and the water storage tank. In addition, the new Bosch water pump is designed for connection to flexible hoses. In a compact complete system, this facilitates assembly using hose clamps or clips instead of the usual pipe mounting.

Low noise, high energy efficiency

The Bosch water-circulating pump follows the trend in modern heating systems. Previously, such systems – most of which ran on oil or natural gas – were located in dark basement rooms, but modern heat-pump systems are found in brightly lit utility rooms. This places new demands on the design of today's heating systems: they should save as much space as possible while still being visually appealing. Bosch's compact 12-volt circulating pump is a good fit for such systems. The brushless pump, equipped with a robust ceramic shaft, is also impressively quiet in operation and includes a diagnostic and monitoring function that protects it from blocking, overheating, or dry running. With an energy

efficiency index less than 0.21, it is also suitable for solar and battery applications where energy consumption is a key criterion. Stable control of the pump via a pulse-width modulation (PWM) signal ensures the volume flow is regulated as required, even at low pump speeds.

Bosch at the SPS industrial trade fair in Nuremberg

An international industrial customer team of experienced Bosch engineers and technical experts will be on site at the SPS trade fair in Nuremberg. They will be available to answer questions and project inquiries from November 14 to 16 in hall 1, booth 430.

For more information about the product, click [here](#).

Press photograph: #cfda7770

Contact person for press inquiries

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About Bosch

The Bosch Group is a leading global supplier of technology and services. It employs roughly 421,000 associates worldwide (as of December 31, 2022). The company generated sales of 88.2 billion euros in 2022. Its operations are divided into four business sectors: Mobility, Industrial Technology, Consumer Goods, and Energy and Building Technology. As a leading IoT provider, Bosch offers innovative solutions for smart homes, Industry 4.0, and connected mobility. Bosch is pursuing a vision of mobility that is sustainable, safe, and exciting. It uses its expertise in sensor technology, software, and services, as well as its own IoT cloud, to offer its customers connected, cross-domain solutions from a single source. The Bosch Group's strategic objective is to facilitate connected living with products and solutions that either contain artificial intelligence (AI) or have been developed or manufactured with its help. Bosch improves quality of life worldwide with products and services that are innovative and spark enthusiasm. In short, Bosch creates technology that is "Invented for life." The Bosch Group comprises Robert Bosch GmbH and its roughly 470 subsidiary and regional companies in over 60 countries. Including sales and service partners, Bosch's global manufacturing, engineering, and sales network covers nearly every country in the world. The basis for the company's future growth is its innovative strength. At 136 locations across the globe, Bosch employs some 85,500 associates in research and development, of which nearly 44,000 are software engineers.

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