Press Release
Thermotechnology

Saving energy according to the continuous flow principle
Preparing hot water the sustainable and comfortable way

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Every German household consumes an average of about 50 to 70 litres of hot water per day. Around twelve percent of a household's total energy consumption is used to heat water. In view of the increasingly scarce and expensive energy reserves and growing environmental pollution, it is well worth considering investing in more environmentally friendly methods of heating water. Heating water according to the continuous flow principle is a particularly sustainable and economical method. The different methods using fresh water stations or instantaneous waters heaters have one thing in common, namely that water is heated only when it is actually needed.

Fresh water stations are a solar thermal system's or heat pump's best friend

Fresh water stations heat water without storing it and only when needed, which is why they keep the system particularly clean and germ-free (no legionella). To do so, fresh water stations need an external heating system. The pipes of the heating system flow through a heat exchanger, through which the fresh water flows in its own pipe system. As soon as hot water is needed, the cold drinking water flows through the stainless steel heat exchanger where it is heated with the heating water from the heating system. Thanks to electronic regulation, the separated and cleanly treated water then runs out of the tap at a constant temperature in next to no time Fresh water stations can be operated with heating buffer storage tanks, with solar thermal systems or with heat pumps. The system is also ideally suited to complement a solid fuel boiler. Modern devices such as the Flow Fresh FF 20 from Bosch easily handle high draw-off rates of up to 27 litres per minute and even reduce power consumption in the process, as they do not require circulation pumps. What is more, the compact dimensions allow a wide range of installation options.

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Instantaneous water heaters: efficient and economical

Instantaneous water heaters are a basic form of continuous flow water heaters. When water is drawn off, it flows directly through the heating element in the device as soon as the tap is operated. Although heating up to the desired temperature in a continuous flow heater is very fast due to the operating principle and the energy is therefore required in a concentrated form very quickly, today's modern systems work very energy-efficiently and may also be combined with solar thermal systems. Electronic instantaneous water heaters such as the Tronic 5000 from Bosch (3.6 – 7.2 kW) are particularly efficient for average requirements, such as in single apartments and families of up to three or in holiday homes. This electrical solution saves up to 30 percent of energy and water compared to hydraulically controlled instantaneous water heaters.

Press photo 01

The compact Tronic 5000 instantaneous water heater from Bosch (3.6 – 7.2 kW) not only works efficiently and sustainably, but also cuts a fine figure in any home. (Source: Bosch)

Press photo 02

Thanks to the unique CLICKFIX plus® installation technology, the Tronic 5000 is installed effortlessly in just three steps. This saves time and money, not only in new installations, but also when replacing old devices. (Source: Bosch)

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Bosch bietet intuitiv-einfache Heiztechniklösungen – auch für das vernetzte Zuhause. Dazu gehören effiziente, ressourcenschonende und zukunftsorientierte Heizungs- und Warmwasserlösungen wie Gas- und Öl-Brennwert-Geräte, Solarthermie-Anlagen oder Wärmepumpen-Lösungen. Die Produkte überzeugen durch eine konsequente Einfachheit bei Planung, Installation und Betrieb sowie durch ein klares und einzigartiges Design.

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