

Accelerating Energy Transition



EnerTwin Pool Heating

Highly efficient
micro turbine
for environmentally
friendly pool heating





EnerTwin pool heating

The EnerTwin is a modern, highly efficient pool heating system which offers the perfect solution to heat up your private swimming pool during the entire year! Apart from producing 15,6 kW of heat, it also produces 3,2 kW of electricity at the same time, thus resulting in a valuable alternative for the condensing boiler or heat pump. Depending on your user profile, the accumulated cost savings can be up to 30.000 Euros over a ten-year period*. In addition, an annual reduction of CO₂-emissions of up to 6 tons will be achieved compared to classical heating systems such as a condensing boiler.

The core of the EnerTwin: a micro turbine

The EnerTwin generates heat and power in a unique manner by using micro turbine. Since the 1950s, gas turbines have proven their capabilities in aerospace, power plants and industry as reliable power generation equipment. The EnerTwin simultaneously generates both heat and electricity in an environmentally friendly way. The heat can be used for heating your house, your private swimming pool and/or spa while electricity can be used for lighting, TV and other domestic appliances or even for charging your electrical car.

Standard components from the automotive industry

The EnerTwin's micro turbine has been developed based on turbochargers from the automotive sector and is therefore very reliable and requires low maintenance. The integrated generator and turbine enable vibration-free and quiet operation as well as a very long life. MTT protected this unique technology by several patents.

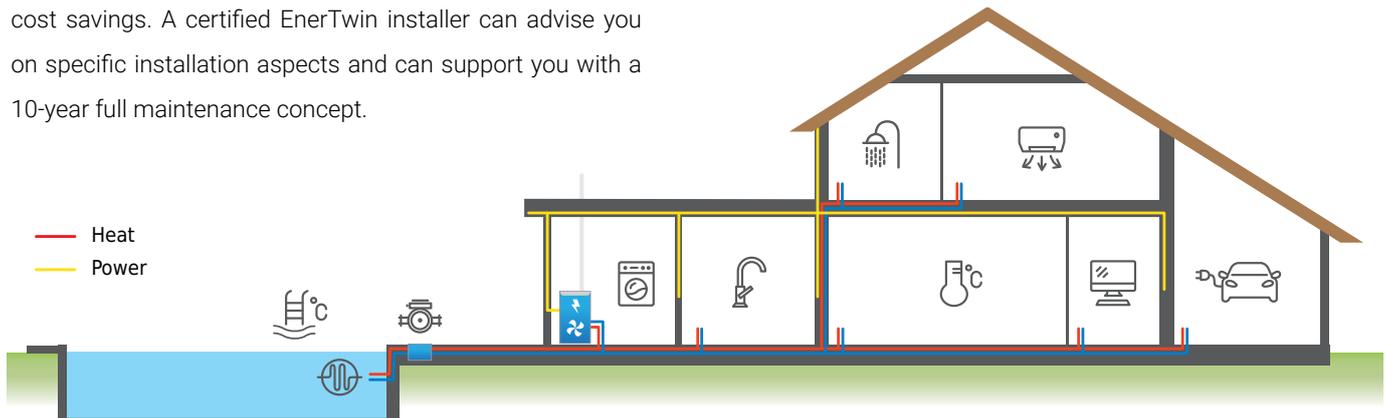
Cost savings

Compared to other solutions, up to 40% energy cost savings and up to 6 tonnes less CO₂ emission per year can be achieved. Actual cost savings depend on local energy prices as well as the price difference between gas and electricity.

* price level Germany 2019

Relief and comfort for the owner

Easy and quick installation, very low maintenance costs, high reliability and quiet operation contribute to high comfort for you as a user. This micro turbine can not only be used as a pool heater, but also as a heating system for your house. With this combined use of the EnerTwin you will achieve optimal cost savings. A certified EnerTwin installer can advise you on specific installation aspects and can support you with a 10-year full maintenance concept.



Reliability, long lifetime and low maintenance

- Easy installation (Plug & Play), no renovation needed.
- User-friendly, (Full-) service maintenance contract available.
- Reduction of energy costs by using self-produced electricity.
- Online monitoring and diagnostics.
- Silent operation, no vibrations.
- Fuels: natural gas, biomethane or natural gas mixed with 23% Hydrogen (H₂).
- Significant reduction of CO₂ emissions (up to 6 ton p.a.).
- Clean combustion and very low NO_x-emission.
- Short payback period (3-6 years).
- Relative low weight.

Certification

Since 2018, the EnerTwin CE and GAR certifications have been available inside and outside the EU, complying with all requirements for safe and reliable operation and connection to the power grid. Since March 2019, EnerTwin has also been SVGW-certified in Switzerland. All certificates can be found on the EnerTwin website: www.enertwin.com.

Heat demand ±70.000 kWh / year

System	Heat (kW)	Power (kW)	Total Costs of Ownership 10-year period
EnerTwin	Heat 15,6 kW	Power 3,2 kW	€
Condensing boiler	Heat 18,8 kW		€€
Heat pump	Heat 14,4 kW	Power 4 kW	€€€€
Heat pump + Condensing boiler	Winter (House) Heat 18,8 kW	Summer (Pool) Heat 14,4 kW	Power 4 kW
			€€€



Service and warranty

EnerTwin was developed by Micro Turbine Technology (MTT) in collaboration with various research institutes, industrial suppliers, companies from energy and installation sector. This collaboration resulted in a reliable product that meets all modern requirements for decentralized generation of heat and electricity. EnerTwin comes with a standard 2-year warranty, extendable to 4 years when under a full-service contract. In addition to product delivery, MTT also provides training for installation and maintenance to installers. In cooperation with certified installers, we also offer various maintenance concepts, including second-line support and 24/7 remote monitoring.



Available at

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