

Green Energy from Nature: ThermoGenius™ Water



elringklinger
Engineered Plastics

Your energy source in the water: heat and cool with ThermoGenius™ Water heat exchangers

- For houseboats and buildings on or close to water
- High efficiency heating and cooling
- Renewable heat incentive tariffs available
- Space saving, environmentally friendly
- Fast installation
- Durable
- Closed loop system
- Heat output up to 22KW at a water temperature of 5°C

ThermoGenius™ Water M



State Grant

patent pending

Sustainable energy from the water. For houseboats and houses on water.

Unique innovation: ThermoGenius™ Water

Save on energy costs with surface water source aquathermal energy. Use the inexhaustible supply of energy from the water right on your doorstep to heat or cool your houseboat or building with ThermoGenius™ Water. An environmentally friendly, sustainable water heat exchanger system used in conjunction with modern heat pump technology. This highly efficient and economical solution generates geothermal energy for you from the water. Enjoy huge savings in the costs

of heating and cooling your houseboat or building. Instead of expensive fossil fuels, use your own renewable energy source and by avoiding CO₂ emissions, play your part in protecting the environment.

An attractive solution for owners, builders and operators of:

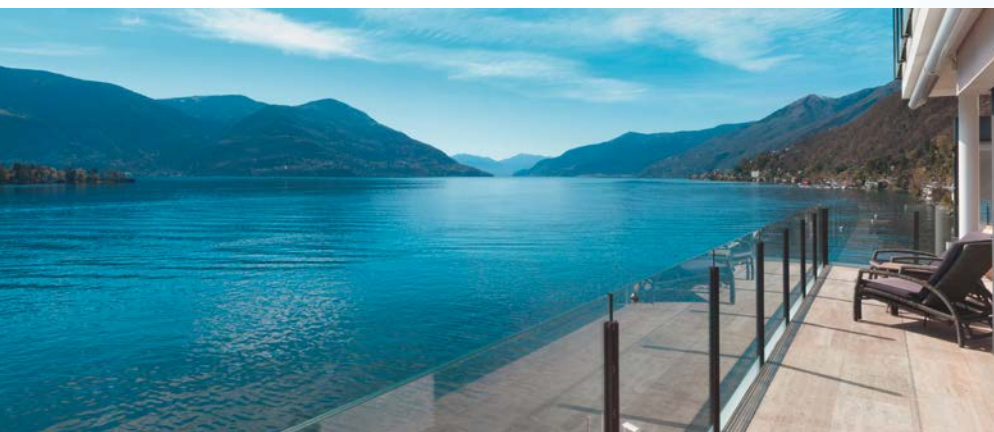
- Residential houses, apartment and vacation home complexes
- Single and multi-family houses
- Houseboats
- Restaurants, hotels, boarding houses

- Club houses, buildings of water sports clubs
- Marinas, harbor buildings
- Commercial buildings and public building

Integration into overall systems for e.g. water cities, water-related urban areas or district concepts.

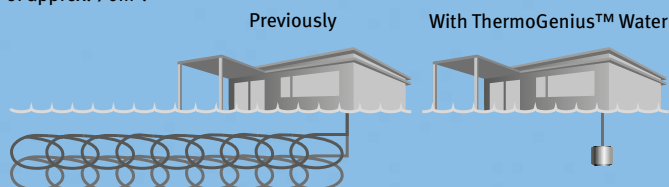
Save on cost and secure a government grant

Many national governments are offering installation grants or heat incentive tariffs for those who adopt renewable energy systems. Funding opportunities vary from country to country. Please contact your local authority for more information. In Germany, for example, the German Federal Office for Economic Affairs and Export Control (BAFA) is responsible.



ThermoGenius™ Water F

No more expensive, complex, elaborate or environmentally harmful solutions that involve long hoses or require approval. This is a more environmentally friendly solution requiring minimal installation space. Approx. 1m² instead of approx. 70m².





authority permissions may not be required. The absorbed energy is fed from the ThermoGenius™ Water unit via polyethylene pipes into the heat pump located in the building or houseboat. The heat or cold exchange takes place there via the evaporator, making low cost renewable energy from a natural environment.

Easy to anchor or install

The small and compact ThermoGenius™ Water heat exchanger is very easy to install in the water. For example, it can be fastened to piling, jetties, or quays—or alternatively, anchored on the bottom of the lake or river with a balancing weight. Its UV-impermeable housing provides excellent protection against vegetation growth.

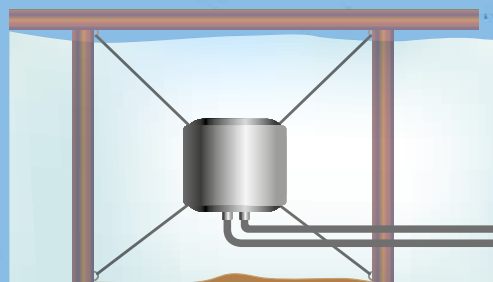
Water as an energy store—tap into it!

Lakes, rivers and other bodies of surface water store a large quantity of energy that can be extracted by ThermoGenius™ Water for heating and cooling. With ThermoGenius™ Water, the transfer of heat or cold is in a closed system and takes place directly in the water. Because no surface water is removed, local

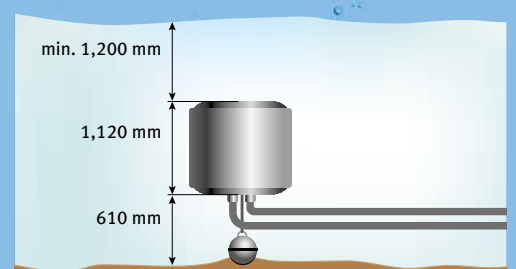


Installation examples ThermoGenius™ Water M

Installation on a jetty



Installation with a weight



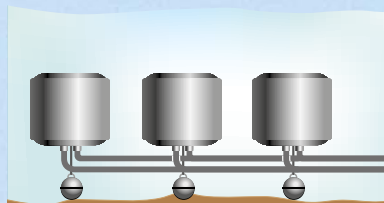
**Outstanding performance
for your comfort**

The output of the ThermoGenius™ Water depends on the operating conditions and ambient water temperature.

- The heat exchanger can provide heat extraction rates of up to 22 kW to meet your heating needs in winter.

Networkable for added power

To produce a higher output, several ThermoGenius™ Water modules can be linked together in parallel circuits via a distributor.



Speak to your energy adviser, installer, architect, and houseboat manufacturer. The experts will work out the optimal system set-up with all the necessary components.



	ThermoGenius™ Water F1	ThermoGenius™ Water M1	ThermoGenius™ Water M2	ThermoGenius™ Water M3
Dimensions <i>in mm</i>	2000 x 600 x 250	Ø 1220 x 605	Ø 1220 x 900	Ø 1220 x 1195
Material	PE-HD			
Operating temperature range <i>in °C</i>	-10 to +40			
Max. operating pressure at +20 °C <i>in bar</i>	4.4			
Exchange area <i>in m²</i>	10.4	13.6	27.1	40.7

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