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KRONOTERM 1976
HEAT PUMPS



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ETERA
HEAT PUMP

Comfort for generations



ADVANTAGES

Long lifespan, durability

ETERA is synonymous with a long lifespan and safety. In fact, ETERA can last up to 30 years. **Can you imagine 30 years of complete safety?** The innovative LCL™ technical design of the heat pump enables upgrades and replacement of individual modules in line with future developments. The framework of the heat pump with its functioning components remains original and operates for decades. **Longevity** is not only an investment advantage but also an ecological one, as it contributes to less frequent replacement of the entire device and consequently reduces the extraction of limited materials.

Reliable heat source

The ETERA system utilizes the heat found in the ground or groundwater for both heating and cooling. This provides a **significant advantage**, as it ensures stability, high efficiency, environmental friendliness, and a longer system lifespan. The heat source of the ETERA system **becomes a part of the building**, increasing the property's market value, as more and more buyers are interested in energy-efficient and sustainable heating solutions. Investors and buyers appreciate **low operating costs**, reduced dependence on fossil fuels, and environmentally **friendly heating solutions**.

Quiet and compact

The nearly silent ETERA heat pump is designed to take up minimal floor space. All its components are housed within a compact indoor unit, occupying only 0.5 m². It's so quiet that you will easily forget that it is in the same room as you.



ETERA is one of the most efficient geothermal heat pumps in Europe compared to the May 2023 BAFA listing. The result has been certified by the independent institution TÜV Rheinland.

ETERA SYSTEM

- For **new** or **existing** buildings;
- For floor, radiator, or fan coil heating;
- Active (integrated)/passive (optional) **cooling**;
- Compact, modular, and quick installation system;
- Quieter than a refrigerator;
- Stable heat source for heating living spaces and domestic hot water throughout the year;
- Extremely reliable and durable system – for over 30 years;
- Provides heating in winter and cooling in summer.

* Seasonal capacity in heating mode according to EN 14825; cold climate zone.

1. WATER/WATER OR BRINE/WATER HEAT PUMP

The ETERA system consists of the ETERA heat pump, the HYDRO B module for domestic hot water, additional modules, and a heat source (either from the ground or groundwater). Geothermal heat pumps can provide a **significant amount of heat** while occupying **minimal space**.

2. HYDRO B DOMESTIC HOT WATER MODULE

Thanks to its thoughtful design, the HYDRO B domestic hot water module will occupy less than 0.5 m² of the building's floor space. It can produce up to 400 l of usable domestic hot water and provide thermal disinfection.

3. SIMPLE MANAGEMENT

The **elegant KT-2A wall-mounted controller** is the only link to the heat pump in the living spaces. It controls the heat pump and the heating system. In addition to displaying the room temperature, the smart controller offers you **a range of advanced functions** for efficient control of the appliance and heating system as well as total comfort. The heat pump can also intelligently control other heat generators, such as oil, natural gas or biomass boilers. The heat pump also smart-manages other heat generators such as oil, natural gas or biomass boilers.

A+++

8,48 SCOP SEASONAL PERFORMANCE*

2-18 kW HEATING CAPACITY



<1 m² SPACE TAKEN

400 l AVAILABLE HOT WATER

W: 600 H: 1515; D: 600 mm (ETERA) ; W: 600 H: 1515; D: 600 mm (HYDRO B)



W: 122, H: 80, D: 8,6 mm (KT-2A)

COMFORT/FUNCTIONALITY

Where in the house should the heat pump be installed? Who wants to sacrifice the already limited space in their boiler room? With increasingly efficient construction and space allocation, the **optimal use of space** and its appearance are crucial. Aware of these challenges, we designed a **modular heating system** with a geothermal heat pump that combines the entire "boiler room" in an elegant enclosure occupying **less than 1 m²**. The ETERA system is designed to cover all home's needs in the smallest possible space. Our heat pump will not only save you money on consumption, energy, and costs but will also save valuable space that can be utilized for other purposes. In fact, you won't even need a boiler room anymore.

EASY INSTALLATION AND MODULARITY

One of ETERA's significant advantages is its **modular BBS™ system**, which allows for easy, phased, and quick installation. The system is designed with the heat pump ETERA and the HYDRO B domestic hot water module compactly installed side-by-side. The innovative installation system enables **phased installation**, allowing for **high-quality and precise** installation in a very short time.

HEAT SOURCES

Water/water:

Groundwater, which is pumped and returned to the aquifer from wells near the building, is a great heat source for the heat pump due to its constant temperature of between 7° and 12° C.

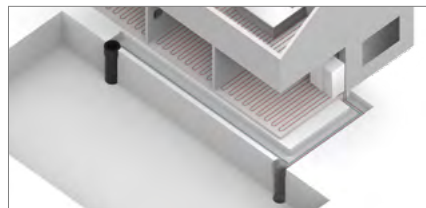
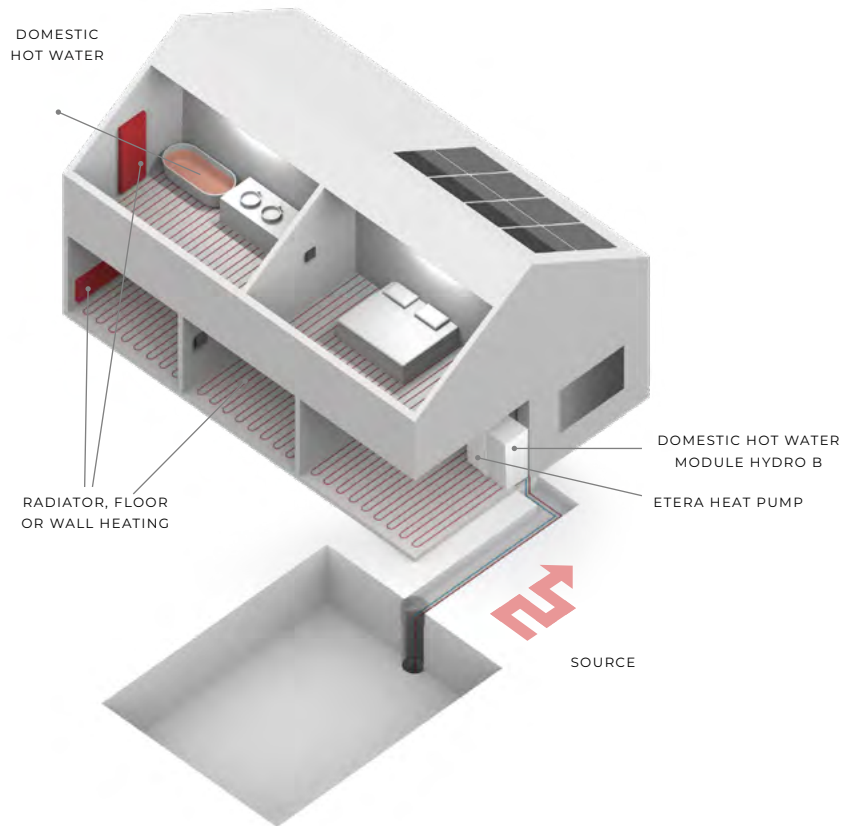
Brine/water - vertical ground collector

Brine/water heat pumps utilize the thermal energy stored in rocks or the ground. Energy from the ground is obtained through a pipe system inserted into deeper wells.

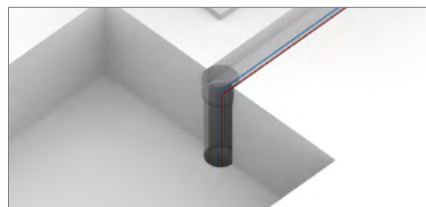
Brine/water - horizontal ground collector

The horizontal ground collector takes advantage of the naturally stable temperature of the soil, which remains roughly the same throughout the year. It consists of pipes buried horizontally in the ground, which absorb heat during winter and release it during summer.

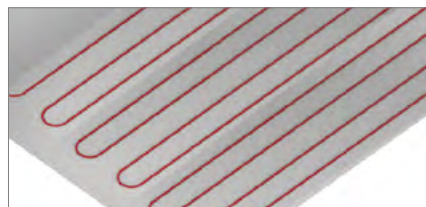
An example of an ETERA system:



WATER/WATER - USE OF GROUNDWATER



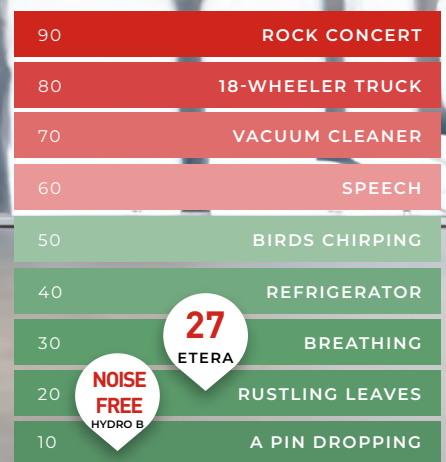
BRINE/WATER - VERTICAL GROUND COLLECTOR



BRINE/WATER - HORIZONTAL GROUND COLLECTOR



Sound level



The sound pressure at the distance of 1 m [dB(A)] ETERA; the declared sound power on the Ecolabel energy label.

TECHNOLOGY

The ETERA system is specifically designed to provide homes with the **highest degree of comfort** and energy efficiency. It features a **minimalist appearance** with clean lines and no distracting lights for a lasting aesthetic and a minimal change to the room's overall appearance.

ETERA heat pump's uniqueness lies in the **EBST™ system**, whose **modular design and standardized connections** make it a breeze to install and scale your heating system. It also allows for **easy updates** and component upgrades.

The **IAH™ intelligent heating control** system lets you **completely tailor your heat output** to the building's needs. This means the heat pump operates **moderately, quietly, and comfortably**. The goal of this system is to **achieve maximum energy savings** while ensuring high operational efficiency and a long lifespan.

You can place the device next to your bedroom or living room, as we have made sure that it is completely unobtrusive and **nearly silent**, thanks to the **NMST™ noise management** system.

The **MHW™ integrated hot water storage system** for heating the entire available volume of domestic water allows for a **significantly larger amount of available hot water** than other system solutions.

With the integrated **RCS™ system**, the ETERA system fills the hydraulic heating system with water at just the right working pressure. Unevenly heated floors and weird sounds from the radiators are a thing of the past.

Along with all the mentioned technologies, the ETERA system offers a **highly efficient and aesthetically refined solution** for heating and cooling homes.

CLOUD.KRONOTERM

When connected to the CLOUD.KRONOTERM web app or browser, your heat pump becomes a **smart and adaptable device**. It gives you complete control over your comfort and energy savings **anywhere and anytime** through your mobile devices. You can remotely set various heating and cooling schedules, including water heating, as well as check operation statistics, and optimize consumption. The connection further facilitates remote diagnostics. The web connection module is integrated as a **standard feature** in all heat pumps.



CLOUD.KRONOTERM could be found on: cloud.kronoterm.com



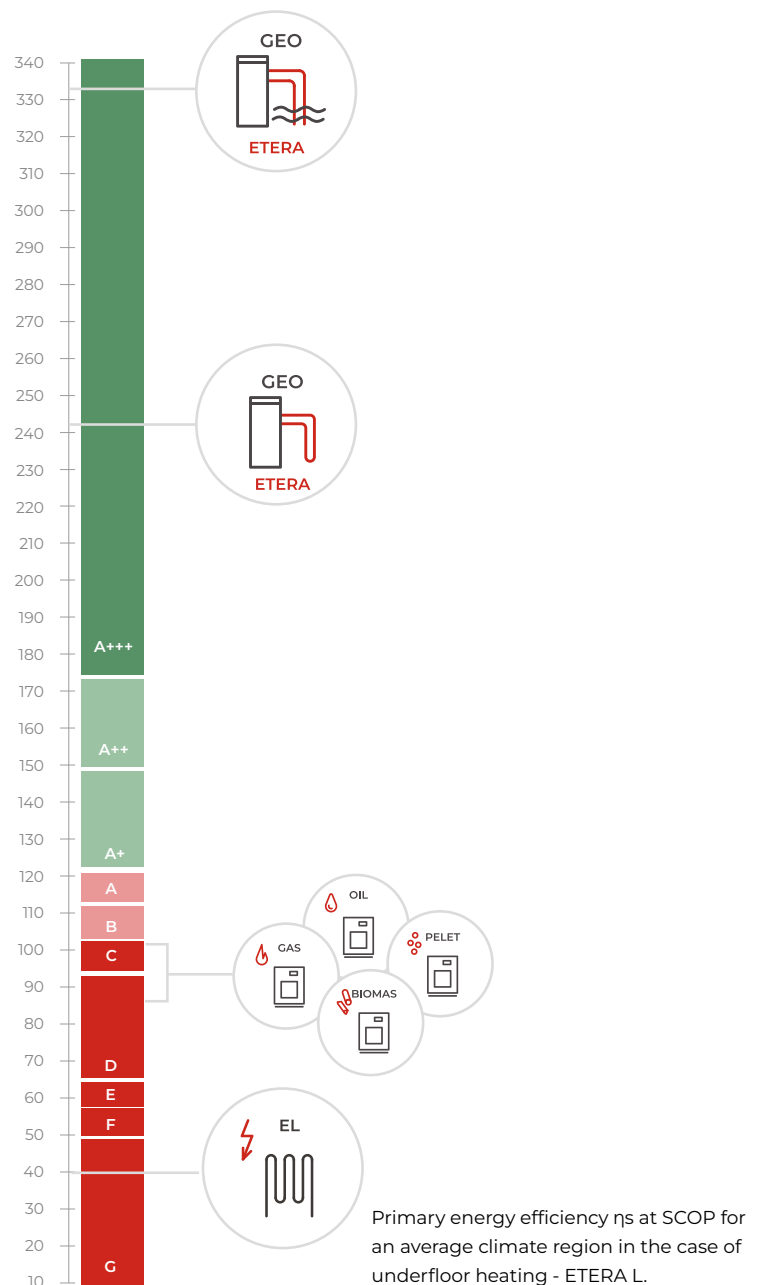
Type	water/water	brine/water
Username	demo	demo1
Password	demo	demo1

REMOTE DIAGNOSTICS SYSTEM

The heat pump is equipped with a **built-in** RASS™ remote diagnostics system. With this system, potential problems or malfunctions can be quickly identified and resolved remotely. The system also allows for wireless software updates to ensure the heat pump's seamless operation. The advantage of this system is that your device is always up-to-date with the latest technologies and you can be completely worry-free about its operation.

HIGH SAVINGS

The ETERA heat pump extracts free heat from the ground or water and converts it into heat suitable for heating your home through extremely efficient operation. Compared to other heating sources, the extremely high efficiency of the primary energy gives you low consumption and high heating savings.



TECHNICAL DATA OF THE SYSTEM	Unit	ETERA S		ETERA M		ETERA L	
		UF	UF	3F	3F		
CAPACITY ACCORDING TO STANDARD EN 14511							
BRINE/WATER							
Heating capacity, rated (B0/W35)	kW	4,5	6,1	6,1	9,1		
COP (B0/W35)		4,7	5,0	4,9	5,1		
Heating capacity, rated (B0/W55)	kW	6,0	8,1	8,1	11,9		
COP (B0/W55)		2,9	3,2	3,1	3,1		
Heating capacity, max (B0/W55)	kW	9,1	12,2	12,2	18,2		
COP (B0/W35)		4,5	4,8	4,8	4,7		
Heating capacity, max (B0/W55)	kW	9,0	12,1	12,1	18,1		
COP (B0/W55)		3,0	3,1	3,2	3,2		
Cooling capacity	kW	3-9	4-12	4-12	6-18		
WATER/WATER							
Heating capacity, rated (W10/W35)	kW	4,5	6,0	6,1	9,1		
COP (W10/W35)		6,4	6,4	6,7	6,7		
Heating capacity, rated (W10/W55)	kW	6,1	8,1	8,1	12,1		
COP (W10/W55)		3,8	3,9	3,9	3,9		
Heating capacity, max (W10/W55)	kW	9,1	12,1	12,2	18,1		
COP (W10/W35)		6,4	6,5	6,6	6,5		
Heating capacity, max (W10/W55)	kW	9,1	12,1	12,1	18,2		
COP (W10/W55)		8,0	4,1	4,0	4,0		
Cooling capacity	kW	3-9	4-12	4-12	6-18		
SEASONAL ENERGY EFFICIENCY COLD CLIMATE ZONE ACCORDING TO STANDARD EN 14825							
BRINE/WATER							
<small>* η_s of the set; heat pump with integrated controller</small>							
SCOP, 35 °C/55 °C		5,46/4,15	5,85/4,32	5,82/4,16	6,22/4,49		
η_s^* , 35 °C/55 °C	%	222/162	230/169	229/162	245/176		
Seasonal energy efficiency class 35 °C/55 °C		A+++	A+++	A+++	A+++		
WATER/WATER							
SCOP, 35 °C/55 °C		7,93/5,57	7,97/5,58	8,31/5,70	8,48/5,83		
η_s^* , 35 °C/55 °C	%	313/219	315/219	328/224	335/229		
Seasonal energy efficiency class 35 °C/55 °C		A+++	A+++	A+++	A+++		
SEASONAL ENERGY EFFICIENCY FOR HEATING ACCORDING TO DIRECTIVE (EU) 811/2013							
Rated heating capacity (P_{design}), 35 °C/55 °C brine/water	kW	9,1/9,1	12,1/12,1	12,1/12,0	18,1/18,1		
Rated heating capacity (P_{design}), 35 °C/55 °C water/water	kW	9,1/9,0	12,1/12,1	12,2/12,1	18,2/18,1		
SOUND ACCORDING TO EN 12102 AT THE CONDITION OF B10W35 – ECOLABEL ENERGY LABEL							
Sound power ETERA	dB(A)	32	34	35			
Sound power HYDRO B	dB(A)	almost noiseless	almost noiseless	almost noiseless			
DIMENSIONS AND MASS – NET							
HEAT PUMP ETERA							
Dimensions (W x H x D)	mm	600 x 1515 x 600	600 x 1515 x 600	600 x 1515 x 600			
Mass	kg	185	188	197	207		
MODULE HYDRO B							
Dimensions (W x H x D)	mm	600 x 1515 x 600	600 x 1515 x 600	600 x 1515 x 600			
Mass	kg	74	74	74			
Volume	l	200	200	200			
Quantity of sanitary hot water at 40 °C	l	295	295	295			
ELECTRICAL DATA							
ELECTRICAL DATA 1F							
Rated voltage	V, Hz	~ 230 V; 50 Hz	~ 230 V; 50 Hz	/	/		
Max. operational current	A	29,7	35,2	/	/		
Fuses	A	1 x 32	1 x 40	/	/		
ELECTRICAL DATA 3F							
Rated voltage	V, Hz	3N~400V; 50Hz	3N~400V; 50Hz	3N~400V; 50Hz	3N~400V; 50Hz		
Max. operational current	A	16,6	21,9	23,3	26,6		
Fuses	A	3 x 16	3 x 25	3 x 25	3 x 32		
CONNECTIVITY							
Remote control option, remote diagnostics option		✓	✓	✓	✓		

CONTINUING A TRADITION FROM 1976

This family-run company from Slovenia has spent the past 50 years developing its reputation among the world's few producers of state-of-the-art heat pumps. Today KRONOTERM is a name that is synonymous with excellence, dependability, and friendliness – both to customers and to the environment.



FAMILY, TRADITION, AND COMMITMENT TO EXCELLENCE

The founder of this family company, Rudi Kronovšek, developed his first domestic hot water heat pump in 1976. The 1990s saw this workshop transform into a proper company. It began developing and selling its first commercial heat pumps at the turn of the new millennium. Today it is making headway on the demanding markets of Austria, Italy, Germany, and Switzerland.



DEVELOPER AND MANUFACTURER IN ONE

KRONOTERM provides the very best in solutions, products, and technology for heating and cooling applications. In-house research, development, and production gives the company complete oversight. This lets it respond to all questions immediately – from planning and delivery all the way to installation and maintenance.



ALWAYS RESPONSIVE, OF COURSE

KRONOTERM supports its users at every step – from helping them make informed decisions and advanced plans to safe installation and years of worry-free operation. Our extensive support system gives us real-time information about how our products are working so we can correct errors immediately.



Contractual retailer/installer:

Members: 

ISO 9001
BUREAU VERITAS
Certification

N° SL21427Q

I FEEL SLOVENIA

GREEN.CREATIVE.SMILE

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