



—
KRONOTERM 1976
HEAT PUMPS



—
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 LCL™ heat pump's innovative technical design 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

ETERA's nearly silent HYDRO B unit is designed to occupy 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 pump in Europe compared to the May 2023 BAFA listing. Result confirmed by 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 a heat pump ETERA, 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**.

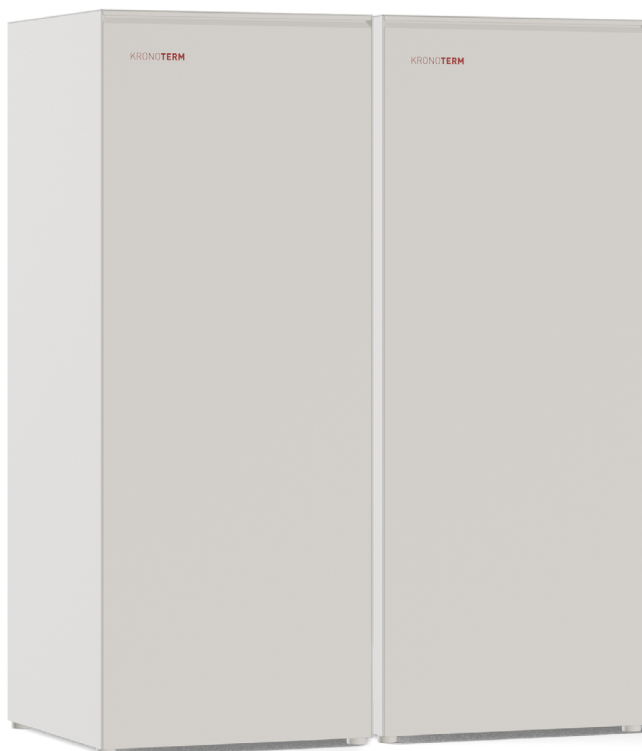
2. DOMESTIC HOT WATER MODULE HYDRO B

Thanks to its thoughtful design, the HYDRO B domestic hot water module only occupies less than 0.5 m² of the building's floor space. It is nearly silent and unobtrusive, as all lights have been removed. It can provide up to 400 liters of usable domestic hot water and supports thermal disinfection.

3. SIMPLE MANAGEMENT

Other than the feeling of warmth and comfort, the only sign of your heat pump is the elegant, wall-mounted **KT-2A** interface. Use it to **manage your heat pump and heating system**, without ever actually needing to touch the heat pump itself. The smart interface displays the ambient temperature and how it changes based on your preferences and the outside temperature, as well as a wide range of advanced functions for automatically regulating heating temperature and your domestic hot water. The heat pump also smart-manages other heat generators such as oil, natural gas or biomass boilers.

A++ **A+++** **8,48 SCOP** SEASONAL PERFORMANCE* **2-18 kW** HEATING CAPACITY



A++ **A+++** **>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)



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



Sound level

90	ROCK CONCERT
80	18-WHEELER TRUCK
70	VACUUM CLEANER
60	SPEECH
50	BIRDS CHIRPING
40	REFRIGERATOR
30	BREATHING
20	RUSTLING LEAVES
10	A PIN DROPPING

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's uniqueness heat pump 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 HYDRO B module next to your bedroom or living room, as we have made sure that it is completely unobtrusive and **nearly silent**, thanks to the NMS™ 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.

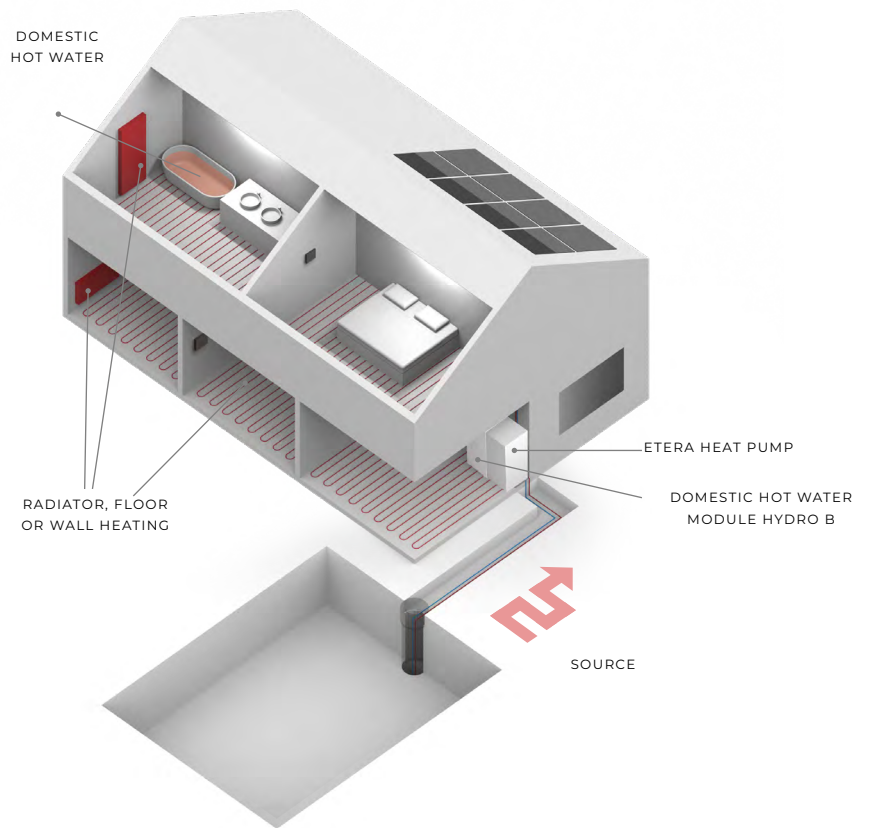
With the integrated RCS™ system, the ETERA system fills the hydraulic heating system with water at just the right working pressure. Unevenly heated floors and weird sounds from the radiators are a thing of the past.

Along with all the mentioned technologies, the ETERA system offers a **highly efficient and aesthetically refined solution** for heating and cooling homes, while allowing for easy installation, maintenance, and component upgrades.

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.

An example of an ETERA system:



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:

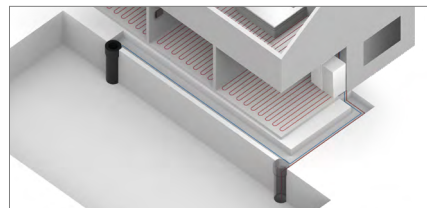
Groundwater, which is pumped and returned to the aquifer from wells near the building, is a great heat source for the heat pump due to its constant temperature of between 7° and 12° C.

Brine / water - vertical ground collector

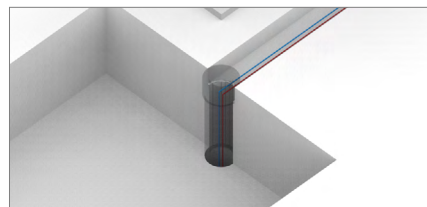
Brine/Water heat pumps utilize the thermal energy stored in rocks or the ground. Energy from the ground is obtained through a pipe system inserted into deeper wells.

Brine / water - horizontal ground collector

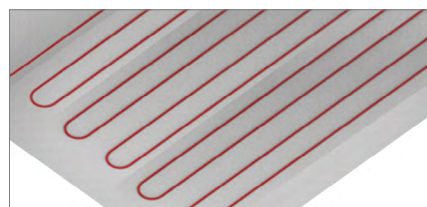
The horizontal ground collector utilizes the naturally stable temperature of the soil, which is slightly higher than the surface air temperature in winter and lower in summer. It consists of pipes buried horizontally in the ground, which absorb heat during winter and release it during summer.



WATER / WATER - USE OF GROUNDWATER



BRINE / WATER - VERTICAL GROUND COLLECTOR



BRINE / WATER - HORIZONTAL GROUND COLLECTOR

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 also 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

REMOTE DIAGNOSTICS SYSTEM

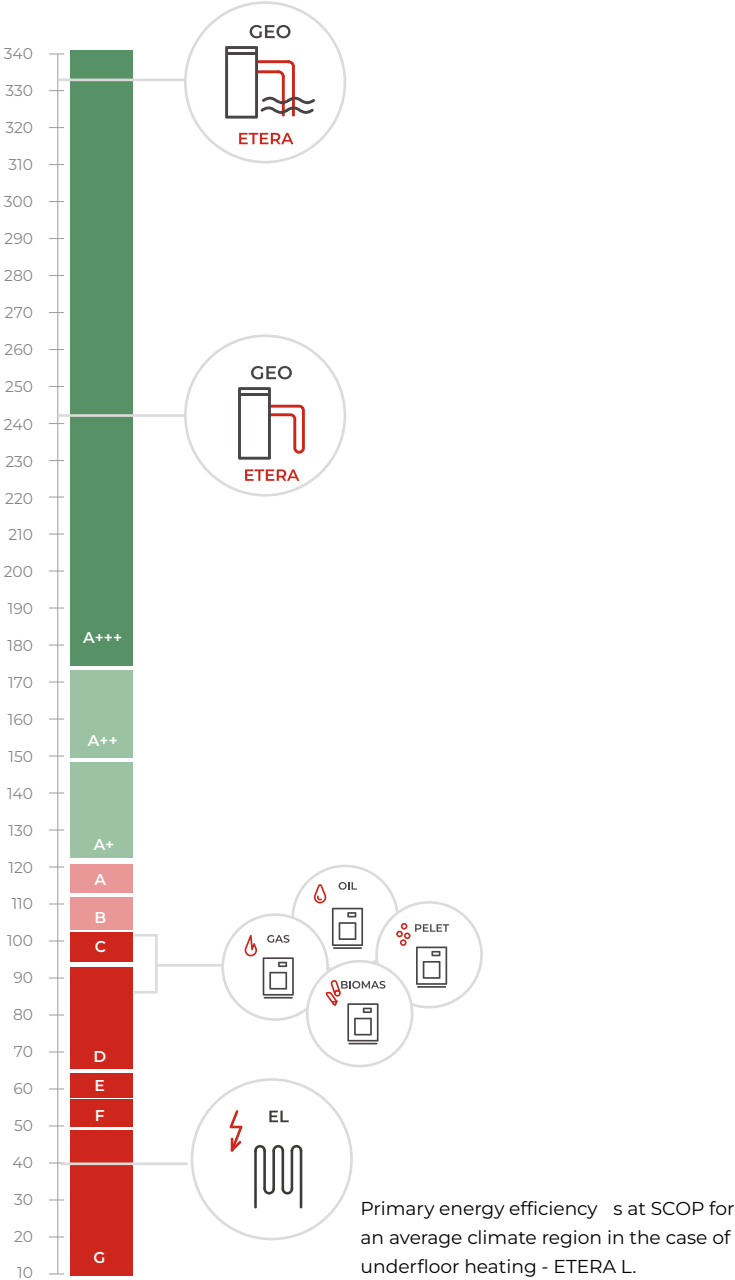
The heat pump is equipped with a **built-in RASS™** remote diagnostics system. With this system, potential issues or malfunctions can be quickly identified and resolved remotely. The system also allows for wireless software updates to ensure the heat pump's seamless operation. This system's advantage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



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

HIGH SAVINGS

Heating appliances use primary energy in different forms to operate, but vary considerably in terms of efficiency. Heat pump extracts free heat from the earth or water and converts it into heat to heat and cool your home. This means that the electricity consumption for operation is extremely low and the primary energy efficiency is extremely high, giving you high savings compared to other heating sources.



TECHNICAL DATA OF THE SYSTEM		Unit	ETERA S		ETERA M		ETERA L		
			UF		1F		UF		3F
CAPACITY ACCORDING TO STANDARD EN 14511									
BRINE / WATER									
Heating capacity min.	kW		2		3		3		5
Heating capacity max	kW		9		12		12		18
Heating capacity BOOST	kW		10		13		13		20
Cooling capacity min.	kW		2		3		3		5
Cooling capacity max.	kW		9		12		12		18
WATER / WATER									
Heating capacity min.	kW		2		3		3		5
Heating capacity max	kW		9		12		12		18
Heating capacity BOOST	kW		10		13		13		20
Cooling capacity min.	kW		2		3		3		5
Cooling capacity max.	kW		9		12		12		18
SEASONAL ENERGY EFFICIENCY COLD CLIMATE ZONE ACCORDING TO STANDARD EN 14511									
BRINE / WATER									
SCOP, 35 °C/55 °C			5,64 / 4,15		TBA		5,82 / 4,16		6,22 / 4,49
ηs*, 35 °C/55 °C	%		222 / 162		TBA		229 / 162		245 / 176
Seasonal energy efficiency class 35 °C/55 °C			A+++		A+++		A+++		A+++
WATER / WATER									
SCOP, 35 °C/55 °C			TBA		TBA		TBA		8,48/5,83
ηs*, 35 °C/55 °C	%		TBA		TBA		TBA		335/229
Seasonal energy efficiency class 35 °C/55 °C			A+++		A+++		A+++		A+++
* ηs of the set; heat pump with integrated controller									
SEASONAL ENERGY EFFICIENCY FOR HEATING ACCORDING TO DIRECTIVE (EU) 811/2013									
Rated heating capacity (P _{design}), 35 °C/55 °C	kW		9,1 / 9		11,1 / 10,4		12,2 / 12,1		18,2 / 18,1
Rated heating capacity (P _{design}), 35 °C/55 °C	kW		TBA		TBA		TBA		18,2 / 18,1
SOUND ACCORDING TO EN 12102 AT THE CONDITION OF B10W35 – ECOLABEL ENERGY LABEL									
Sound power ETERA	dB(A)		38		39				40
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		76		76				76
Volume	l		200		200				200
Quantity of sanitary hot water at 40 °C	l		295		295				295
ELECTRICAL DATA									
ELECTRICAL DATA 1F			UF		UF		3F		3F
Rated voltage	V, Hz		~ 230 V; 50 Hz		~ 230 V; 50 Hz		/		/
Max. operational current	A		32,5		37,1		/		/
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		17,4		22,0		23,3		26,6
Fuses	A		3 x 20		3 x 25		3 x 25		3 x 32
CONNECTIVITY									
Remote control option			✓		✓		✓		✓
Remote diagnostics option			✓		✓		✓		✓

Preliminary data. The right to correct or change the content at any time without notice is reserved. Heat pump ETERA is planned to be available in Fall 2023.

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



KRONOTERM d.o.o. | Trnava 5e, 3303 Gomilsko, SLO | info@kronoterm.com | www.kronoterm.com