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KRONOTERM 1976
HEAT PUMPS



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**DOMESTIC HOT WATER
HEAT PUMPS**

Efficient heating of DHW



ADVANTAGES OF HEATING DHW WITH A HEAT PUMP

Cost-effective DHW heating

In addition to heating spaces themselves, heating DHW is the biggest household expense. This DHW heat pump will cut your hot water expenses up to 4 times.

Comfortable and quick return on investment

Investing in a DHW heat pump is half the cost of solar panels. The investment has an extremely short return period – just 6 or 7 years. Without the boiler, which is an essential part of a heating system in any case, the return on investment period is even shorter. Your heat pump will keep working for more than 20 years.

A cold basement and hot water, all year round

Good DHW heat pumps ensure that hot water never runs out, year round. No extra work or additions. Not only do you get DHW, but it also cools your basement, pantry, or other small space for free. A special system for guiding captured and exhausted air makes the heat pump even more efficient.

Protect your loved ones

Your new DHW heat pump has a special anti-Legionella program, ensuring that you can heat your water above 60 °C, killing any Legionella bacteria in your system.

Simple installation and maintenance

Quick and easy installation mean your heat pump will be making DHW on the very first day. Maintenance is simple and undemanding.

Environmentally responsible

In addition to your comfort, our heat pumps also care for the environment. Heat pumps are in fact the most environmentally friendly method of heating – they reduce CO² emissions more than 62 %.



Confirmed by independent and accredited institutes, namely the Swiss WPZ and German TÜV Rheinland, the S^{MAX} DHW heat pumps are the best in Europe.*

CLOUD.KRONOTERM

The CLOUD.KRONOTERM connection makes your heat pump smart, so it learns what settings you find most comfortable, while still saving as much energy as possible. Control it with your phone anytime and anywhere, right from the palm of your hand. It gives you the ability to set various schedules to heat and cool your rooms and your domestic hot water, also giving you a display of operation statistics and metrics to optimize usage, along with remote service diagnostics.

Using the CLOUD.KRONOTERM app is completely free of charge for end users. You need only the built-in web module and an internet connection.



Find the CLOUD.KRONOTERM online app at:

<https://cloud.kronoterm.com/dhws/>

User name	demo
Password	demo



REMOTE DIAGNOSTICS SYSTEM - RASS™

The heat pump is equipped with a built-in remote diagnostics system called RASS™. With the help of this system, potential issues or operational disruptions can be quickly identified and resolved remotely. The system also allows for wireless software updates to ensure seamless operation of the heat pump. The advantage of such a system for you is that the device is always updated with the latest technologies, giving you complete peace of mind regarding its performance.

HEAT SOURCE

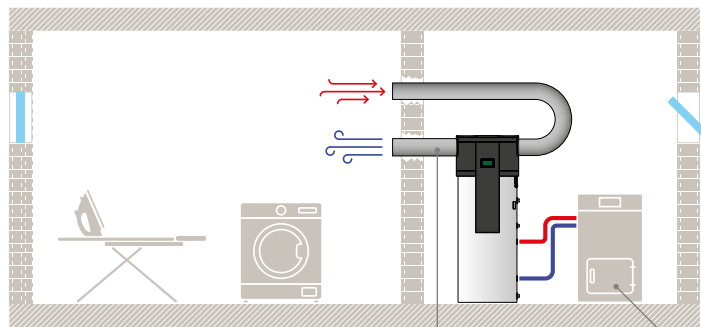
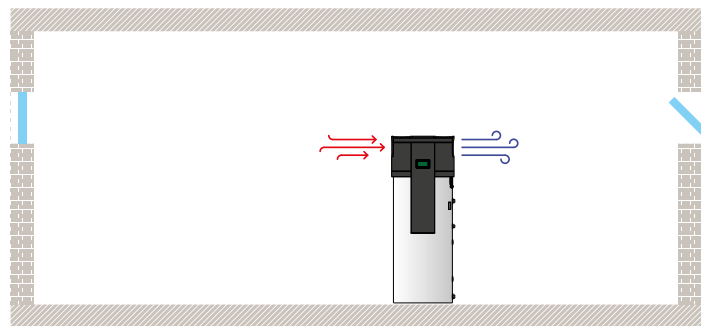
Since air is all around us and infinitely accessible, KRONOTERM heat pumps are the easiest and most affordable way to heat DHW. Simple design also means cheap and easy installation and maintenance. Modern DHW heat pumps can provide heat even when the temperature falls below freezing (even to -7°C), at the same time cooling the room they are in. They can also easily be combined with other heat sources. Carefully crafted, premium components result in additional savings and longer lifespans for the devices themselves.

CONSUMPTION MODEL FOR 4-MEMBER FAMILY

50 L WATER/DAY

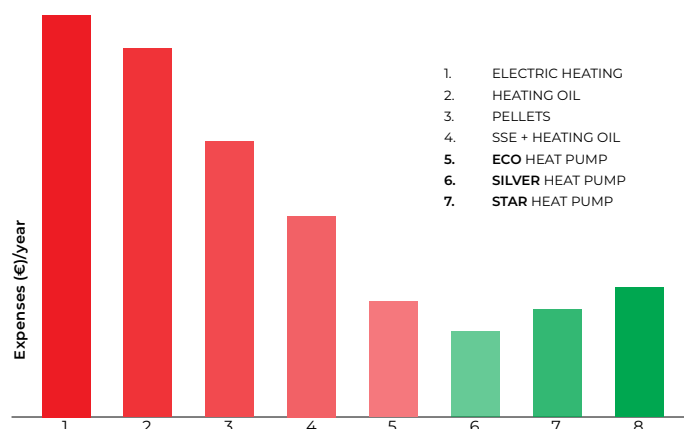
Costs of heating DHW for an average family with various heating systems (EUR/year); prices as at 1 August 2019

Display of air capture and exhaust, and combinations with other heat sources for DHW heat pumps



GUIDED AIR CAPTURE AND EXHAUST

ADDITIONAL HEAT SOURCES



1. ELECTRIC HEATING
2. HEATING OIL
3. PELLETS
4. SSE + HEATING OIL
5. ECO HEAT PUMP
6. SILVER HEAT PUMP
7. STAR HEAT PUMP

Heat pump specifications

	Unit	STAR		SILVER		ECO		S ^T		S ^{MAX}
Model		WP2 LF-202B	WP2 LF-302B	WP2 LF-202S	WP2 LF-302S	WP2 LF-202E	WP2 LF-302E	WP-F2-1* ³	WP-W2-1* ⁴	WP4 LF-502
Krono-flex		yes	yes	yes	yes	yes	yes	no	no	yes
Heating capacity under condition A 20 °C EN16147		1,65* ¹	1,60* ¹	1,83* ¹	1,81* ¹	1,91* ¹	1,89* ¹	/	/	3,65* ²
Electrical capacity	kW	0,44* ¹		0,44* ¹		0,44* ¹		0,48* ¹		0,98* ²
COP* heating number EN 16147		3,3		3,8		4,0		/	/	3,9
Range of operation	°C	10 – 35		5 – 35		-7 – 40		8 – 35		-7 – 35
Boiler volume	l	200	270	200	270	200	270	/	/	450
Amount of hot water at 40 °C	l	271	373	271	376	271	376	/	/	578
Area of the coil heat exchanger	m ²	0,91	1,2	0,91	1,2	0,91	1,2	/	/	1,76
Dimensions (height / height x depth x width)	mm	1700	2030	1700	2030	1700	2030	780 x 290 x 480 x	780 x 330 x 480 x	2070 x 794
Diameter	fi	635	635	635	635	635	635			750
Weight	kg	128	145	128	145	128	145	40	40	240
Energy efficiency grade		A*	A*	A*	A*	A*	A*	A*	A*	A*

* COP – heating number : signifies the relationship between gained heat energy and energy needed to run the heat pump (electricity); condition A2W10-55

*¹ the electrical and heating capacity is 1.5 kW higher with the heater on (or 1.2 kW for the WP-F2-1)

*² one additional heater of 2 kW can also be turned on, or two heaters, each at 2 kW heating capacity

*³ installation on a 180 mm flange on the existing boiler

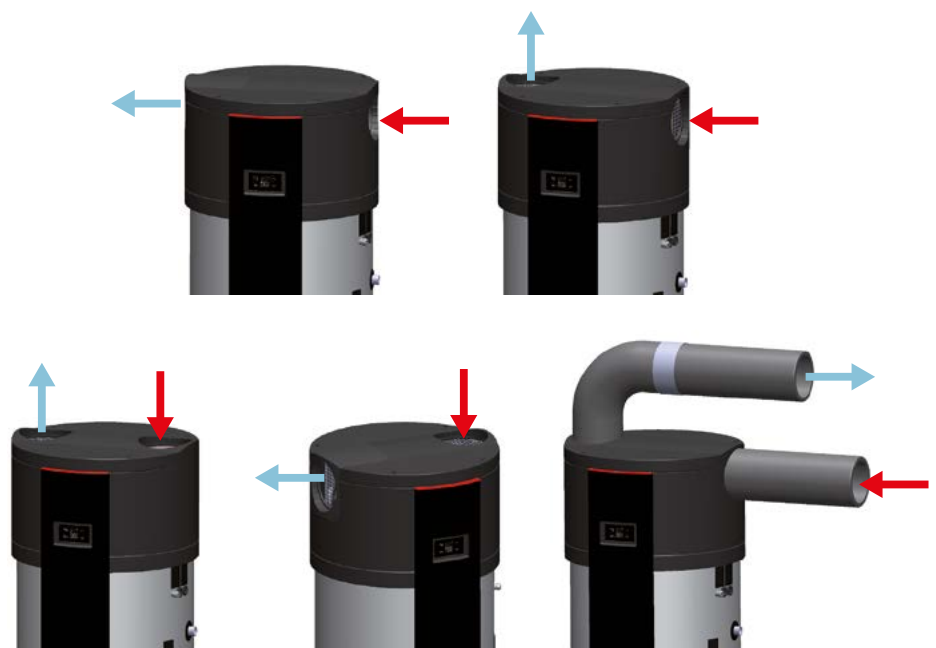
*⁴ installation on the wall with hydraulic connection to the existing boiler

KRONO-FLEX

The KRONO-FLEX system captures and exhausts air. Innovative construction helps adjust where air is captured and exhausted.

Within a room the heat pumps both capture and exhaust air back into the room in which it is positioned. The position allows that channels be set for optimum circulation of cold and warm air. It is adapted for use with no additional pipes to prevent the mixing of air on the heat pump's vacuum (capture) side and the pressure (exhaust) side.

The channel method of directing air makes it possible to exhaust air into a separate room – i.e. both capture and exhaust can be in a separate room, or capture in one and exhaust in another.



KRONO-FLEX System

KRONOTERM S2

A⁺

2 kW HEATING CAPACITY **200 ali 270 l** BOILER VOLUME

- The models come with an additional 1.5 kW electric heater and a photovoltaic outlet
- Simple usage
- The KRONO-FLEX system captures or exhausts air

KRONOTERM S^T WP-F2-1 IN WP-W2-1

A⁺

2 kW HEATING CAPACITY **200 ali 300 l** BOILER VOLUME



- The WP-F2-1 model can be installed on an existing boiler with a flange diameter 180 mm
- The WP-W2-1 can be installed on the wall, with a hydraulic connection to an existing boiler

STAR WP2 LF-202B, WP2 LF-302B



- Entry-level KRONOTERM model – simple usage/regulation
- A great solution with optimum price/performance balance
- Manual activation of additional electric heater
- Manual setting of anti-Legionella program
- Simple and user-friendly operation

KRONOTERM S^{MAX} WP4 LF-502

A⁺

4 kW HEATING CAPACITY **450 l** BOILER VOLUME



- Two additional electric heaters with 2 kW heating capacity (altogether 8 kW = 4 kW + 2x2 kW)
- **For large-scale hot water consumption: apartment buildings, row homes, schools**
- Guided air system
- Defrost function, operating range to -7 °C
- Simple and user-friendly operation through an LCD screen/app
- Best DHW heat pump in Europe* (*450 l; WPZ in TÜV Rheinland - COP 3,85 EN 16147:2017 (A20/W10-55, XXL size); COP 3,20 EN 16147:2017 (A7/W10-55, XXL size))

SILVER WP2 LF-202S, WP2 LF-302S



- Simple and user-friendly operation through an LCD screen
- Extraordinary balance between savings and initial investment
- Additional 1.5 kW electric heater with automatic anti-Legionella program
- Activation during reduced-rate electricity
- Photovoltaic outlet

LOTS OF HOT WATER FOR LOTS OF CONSUMPTION

The S^{MAX} DHW heat pump is meant for industrial use, with an impressive **720 L of hot water** (at 40 °C, or 576 L at 65 °C). **Anti-Legionella protection** – additional heating is possible with user-set schedules. The reservoir is constructed so that the **entire volume of water is heated to the set temperature**, in line with health recommendations. Several other existing heating appliances that the consumer may have available can be connected to the boiler as additional sources.

S^{MAX} lets you **connect two, three, or even more heat pumps in concert**, ensuring that hot water never runs out even in industrial applications.

ECO WP2 LF-202E, WP2 LF-302E



- Models with guided air come with a defrosting function, due to their range of operation to -7 °C
- Most efficient model
- Best solution for maximum savings
- Control settings through the Water. KRONOTERM app
- Simple, user-friendly management on an LCD screen/app: schedules, quick heating, etc.
- Photovoltaic outlet and circulation pump come standard

CONTINUING A TRADITION SINCE 1976

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



FAMILY, TRADITION, AND INSISTENCE ON QUALITY

The founder of this family company, Rudi Kronovšek, developed his first boiler heat pump in 1976. The 1990s saw his workshop transform into a proper company, which began developing and selling its first commercial heat pumps at the turn of the new millennium. Today it is making headway in 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.



IMPECCABLE – FROM START TO FINISH

All KRONOTERM products are world-class solutions, tested exhaustively at our labs. Their technical perfection ranges from operation (efficiency and reliability) to their long lifecycle (with well-designed housings to aid in day-to-day handling). Premium customer service is another part of the KRONOTERM experience.



Contractual retailer/installer

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Members:

