KRONOTERM 1976

HEAT PUMPS

ADAPT^MAX
HEAT PUMP

Efficient, modular, and design perfected

ADVANTAGES

Efficiency

ADAPT^{MAX} boasts top heating and cooling efficiency, placing it at the forefront. As the only one in its category, it ranks in energy class A+++ in all climate areas for both underfloor and radiator heating, while achieving exceptional results in cooling. Its seasonal efficiency in heating is up to 45% higher than the average heat pump in the segment, and up to 22% more efficient in cooling than the average chiller. This brings significant savings.*

BEST IN BAFA LIST

*The BAFA list confirms that the ADAPT^{MAX} heat pump is the most efficient in its category

*with capacities from 20 kW to 1 MW for underfloor heating. BAFA is a German federal agency that maintains a list of energy-efficient devices - 1.8.2024

Modularality

ADAPT^{MAX} offers exceptional flexibility with a modular design that allows configurations based on the specific needs of the user and the building – as simple as stacking blocks. Modularity simplifies design and management, combining the advantages of small and large units, including easier installation, easier maintenance, customized setup, and the possibility of gradual system upgrades. Thanks to our in-house production, we ensure top quality and performance, enabling cost-effectiveness. Individual modules can be supplied pre-assembled, which significantly simplifies planning and installation.

Design

With its elegant and refined design, ADAPT^{MAX} upgrades the ADAPT heat pump line and sets new standards in aesthetics. Due to its award-winning design that perfectly fits modern architectural trends, there is no need to hide the device - on the contrary, ADAPT^{MAX} becomes an aesthetic element that harmoniously blends with the surroundings. Ideal for use in urban and modern residential, educational, and other public buildings, where it is not only functional but also visually appealing. The color and material of the housing can be individually customized, ensuring the perfect aesthetic completion of your project.

SYSTEM ADAPT^{MAX}

A+++ **5,82 SCOP** SEASONAL PERFORMANCE*

DO **75 °C** OUTLET WATER TEMPERATURE

1. OUTDOOR UNIT

The outdoor unit is a compact heat pump that transfers heat from the air to the heating system and effectively heats and cools the spaces. It operates quietly, which is important for a seamless work environment. Its modern design seamlessly blends with the surroundings, and the housing is weather-resistant, ensuring a long lifespan and reliable operation.

- W: 1575, H: 1575, D: 960 mm (ADAPT^{MAX} 10035)
- Mass: 500 kg

*seasonal performance in heating mode according to EN 14825 for ADAPT^{MAX} 10035

2. INDOOR UNIT

WR KSM 2 is a wall-mounted indoor unit with a built-in KSM controller and WEB module, allowing the connection of the heat pump to the CLOUD. KRONOTERM system and remote control via CMSTM.

SIMPLE USAGE

KT–2A

The elegant wall controller KT-2A is the only link to the heating system. You control the heat pump and the entire heating system with it. In addition to displaying room temperature, the smart controller offers a range of advanced functions for efficient device and heating system management, ensuring complete comfort throughout the building.

- W: 122, H: 80, D: 8,6 mm (KT–2A)

CLOUD.KRONOTERM

With a connection to the CLOUD. KRONOTERM web application, your heat pump transforms into an intelligent and adaptable solution. Efficiently manage comfort and energy in your building anytime, anywhere, directly from mobile devices. Remotely adjust various heating and cooling schedules and domestic hot water heating, monitor operational statistics, and optimize energy consumption. Additionally, the connection enables remote service diagnostics, ensuring smooth and reliable operation. The web connection module is serially integrated into all our heat pumps.

INNOVATIVE MODULAR DESIGN

Reliability

The modular design allows for exceptional system reliability, as in the event of a failure of an individual module, the remaining modules continue to operate smoothly, enabling uninterrupted cooling or heating until the fault is rectified. Performance is only reduced by one module in the event of a malfunction, while the system as a whole remains functional, as the other modules can compensate for the missing heating or cooling capacity and ensure uninterrupted comfort.

Simple design and installation

Despite the modular design, ADAPT^{MAX} is designed, installed, and operated as a single device. The system enables quick and simple installation with pre-set components, reducing the need for technical support and training for installations. Only two pipe connections, electrical connection, and communication cable are required for installation. The units are delivered pre-assembled with the selected number of modules, which facilitates planning and installation.

Safety

In the event of a malfunction that would cause gas leakage, it would only occur in one unit, which contains significantly less gas than a single larger device. This also eliminates the need for additional safety barriers required for larger refrigerant charges.

Continuous operation

Thanks to its innovative design, the system operates continuously and without interruptions in all circumstances. Even when one unit is undergoing maintenance or servicing, the remaining units continue to operate and ensure uninterrupted heating and cooling. The same applies to the defrosting process – when it is carried out on one unit, the other units ensure that the system continues to operate smoothly.

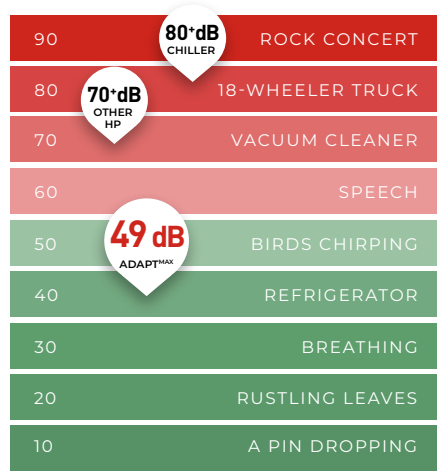
- W: 1575, H: 1575, D: 960 mm (ADAPT^{MAX} 10035)
- Mass: 500 kg

- W: 3375, H: 1683, D: 960 mm (ADAPT^{MAX} 10070)
- Mass: 1300 kg

- W: 5000, H: 1683, D: 960 mm (ADAPT^{MAX} 10105)
- Mass: 1900 kg

- W: 6625, H: 1683, D: 960 mm (ADAPT^{MAX} 10140)
- Mass: 2500 kg

Noise levels



*Heat pumps of comparable power sound pressure level dB(A) ADAPT^{MAX} 10035, at 1 m distance, standard EN ISO 12102 under condition A7W35.

QUIET OPERATION

Powerful yet exceptionally quiet. Our innovative modular design enables perfect synchronization of individual modules and thus optimal adaptability to the building's requirements. Thanks to the modularity and NMSTM technology, which uses advanced fan design and special sound insulation to reduce vibration transmission, we have managed to reduce noise to the lowest level in the segment. As a result, it is the ideal choice for environments where noise reduction is crucial (such as hospitals, schools, and residential areas).

APPLICATIONS

ADAPT^{MAX} is an extremely adaptable system, designed for larger objects, which is ideal for a wide range of applications.

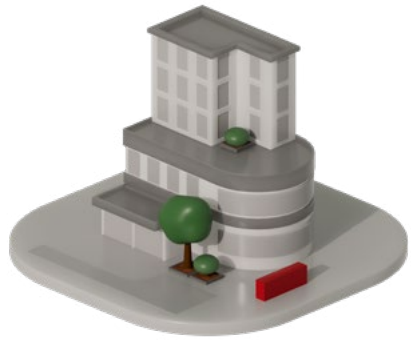
It is suitable for use in tourist facilities, where it ensures quiet operation and aesthetic harmony with the environment, as well as in industrial facilities, as it also enables efficient cooling, utilization of waste heat, and heating of high-temperature heating and sanitary water.

It is also an excellent choice for multi-residential buildings and commercial properties, where it offers energy-efficient centralized cooling and heating with minimal noise.

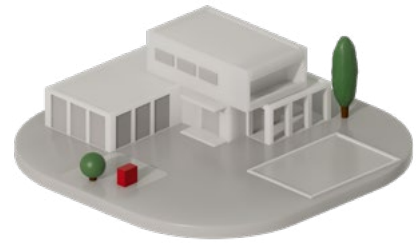
ADAPT^{MAX} ensures stable climate conditions with low operating costs in schools and public and healthcare institutions, contributing to comfort and uninterrupted operation.

Ways of usage

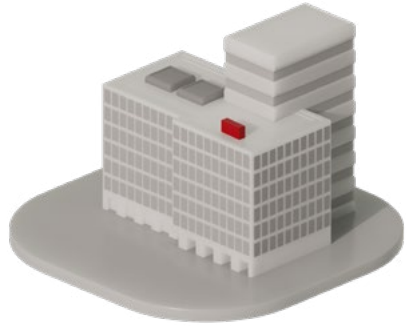
ADAPT^{MAX} allows three key modes of operation: heating, cooling, and heating of sanitary water. This integrated approach allows you to provide a comprehensive solution for all air conditioning and hot water supply needs in larger buildings with a single device. It is also suitable for processes in the industry that require high temperatures. In addition, ADAPT^{MAX} also enables simultaneous heating and cooling with the appropriate additional system solution, which is ideal for buildings with different temperature needs in different parts of the building.



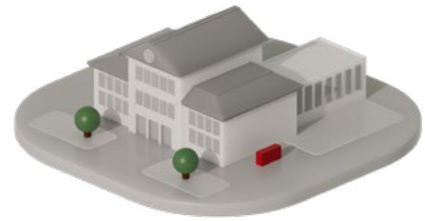
HOTELS



MODERN BUILDINGS



BUSINESS COMPLEXES



SCHOOLS AND KINDERGARTENS

FACTORIES AND MANUFACTURING PLANTS

MONUMENTALLY PROTECTED BUILDINGS

MULTI-RESIDENTIAL BUILDINGS

HIGH MOUNTAIN HOTELS

HOW IS ADAPT^{MAX} DIFFERENT?

Additional safety measures are not necessary

While a larger device would require additional safety requirements and measures due to high gas content, the modular design allows for smaller filling of each unit. This avoids the mandatory installation of safety elements and fences.

The heat pump blends in with the surroundings

Ordinary commercial solutions are visually disturbing. ADAPT^{MAX} features top-notch design that blends with modern architectural designs.

The heat pump is quiet

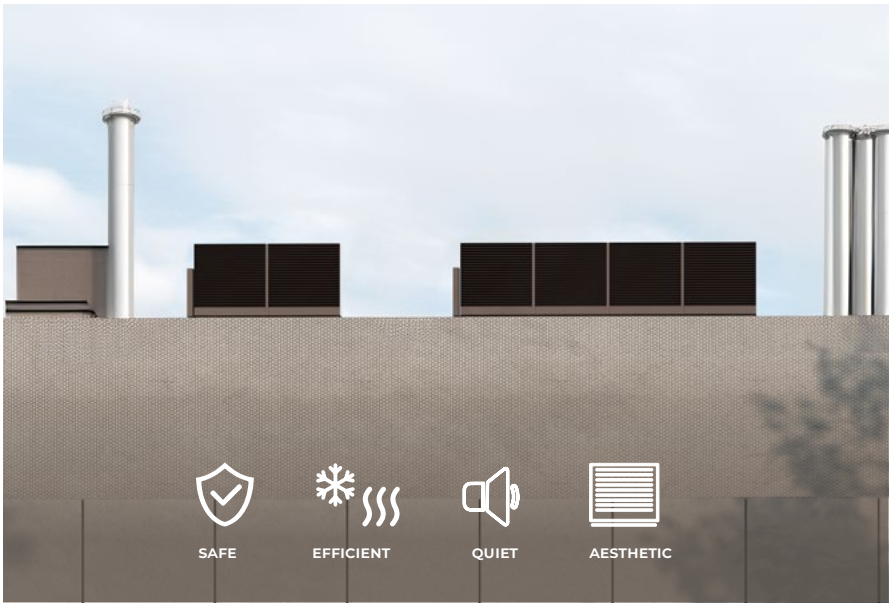
ADAPT^{MAX} is the quietest heat pump in its segment, allowing for peaceful and comfortable living space without disturbing the surroundings.

The heat pump also effectively cools

ADAPT^{MAX} achieves exceptional results in cooling and ensures high energy efficiency and optimal comfort in all weather conditions.

Installation is easy

Due to the prefabricated and pre-configured system, which only requires pipe and electrical connections, installation is easy, with minimal room for error - just like with smaller, domestic heat pumps.



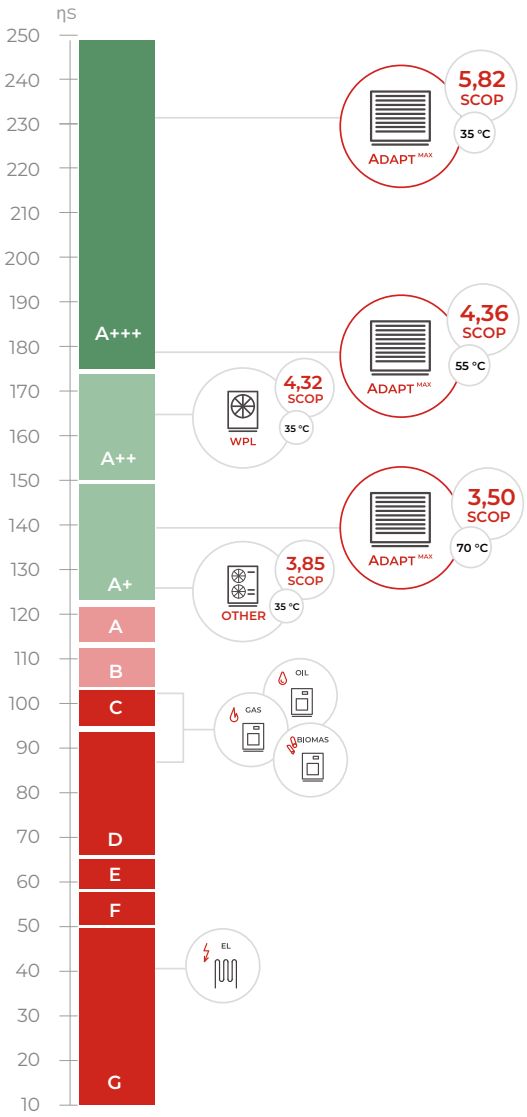
NATURAL REFRIGERANT

ADAPT^{MAX} uses environmentally friendly natural refrigerant R290, which has an extremely low global warming potential. In the new generation of heat pumps, the use of R290 results in a potential global warming 300,000 times lower than devices with comparable power that use fluorinated refrigerants. Due to the exceptional characteristics of R290, it is possible to achieve water temperatures in the heating circuit of up to 75 degrees Celsius, enabling efficient operation even at low outdoor temperatures.

Eco-Friendly Refrigerant:

Conventional synthetic refrigerants have a high global warming potential (GWP). If CO2 has a GWP value of 1, conventional refrigerants have a GWP of more than 1.000. This means that gas leakage from the heat pump can significantly contribute to global warming. R290 represents a more environmentally friendly alternative with an extremely low GWP of only 0.02, significantly reducing its potential impact on the environment.

Efficiency Comparison



SYSTEM IN SPECIFICATIONS	Unit	ADAPT^{MAX} 10035	ADAPT^{MAX} 10070	ADAPT^{MAX} 10105	ADAPT^{MAX} 10140
MAXIMUM POWER AND CAPACITIES ACCORDING TO STANDARD EN 14511					
HEATING		**Heating capacity / electrical power / COP**	**Heating capacity / electrical power / COP**	**Heating capacity / electrical power / COP**	**Heating capacity / electrical power / COP**
A7/W30-35	kW/kW/-	26,77 / 5,02 / 5,33	53,48 / 10,04 / 5,33	80,19 / 15,06 / 5,33	106,90 / 20,08 / 5,32
A7/W30-35	kW/kW/-	35,40 / 7,29 / 4,86	70,74 / 14,58 / 4,85	106,09 / 21,86 / 4,85	141,43 / 29,15 / 4,85
A-7/W30-35	kW/kW/-	30,83 / 10,50 / 2,94	61,60 / 20,99 / 2,93	92,36 / 31,49 / 2,93	123,13 / 41,99 / 2,93
A-10/W30-35	kW/kW/-	30,26 / 10,90 / 2,78	60,50 / 21,84 / 2,77	90,80 / 32,77 / 2,77	121,05 / 43,70/ 2,77
A7/W47-55	kW/kW/-	26,49 / 7,63 / 3,47	52,92 / 15,27 / 3,47	79,10 / 22,90/ 3,46	105,79 / 30,54 / 3,46
A7/W47-55	kW/kW/-	34,94 / 11,05 / 3,16	69,81 / 22,11 / 3,16	104,68 / 33,16 / 3,16	139,56 / 36,18 / 3,16
A-10/W47-55	kW/kW/-	31,12 / 15,12 / 2,06	62,22 / 30,35 / 2,05	93,30 / 45,51 / 2,05	124,40 / 60,68 / 2,05
COOLING		**Cooling capacity / electrical power / EER**	**Cooling capacity / electrical power / EER**	**Cooling capacity / electrical power / EER**	**Cooling capacity / electrical power / EER**
A35/W12-7	kW/kW/-	30,30 / 11,03 / 2,75	60,54 / 22,07 / 2,74	90,77 / 33,10 / 2,74	121,01 / 44,13 / 2,74
A35/W23-18	kW/kW/-	30,13 / 6,51 / 4,63	60,20 / 13,02 / 4,62	90,27 / 19,53 / 4,62	120,33 / 26,04 / 4,62
SEASONAL HEATING CAPACITIES ACCORDING TO STANDARD EN 14825					
SCOP, 35 °C/55 °C		5,82 / 4,36	5,81 / 4,35	5,80 / 4,34	5,80 / 4,34
SEASONAL ENERGY EFFICIENCY FOR HEATING DETERMINED IN AVERAGE CLIMATE ZONE ACCORDING TO DIRECTIVE (EU) 811/2013					
Rated heating capacity (Pdesign), 35 °C/55 °C	kW	27 / 27	53 / 53	80 / 80	106 / 106
ηs	%	230 / 171	229 / 171	229 / 171	229 / 171
Rate of seasonal energy efficiency		A+++ / A+++	A+++ / A+++	A+++ / A+++	A+++ / A+++
RANGE OF OPERATION					
Heating (air) – min./max. air temperature	°C	-25/40	-25/40	-25/40	-25/40
Cooling (water) – min./max. air temperature	°C	5/45	5/45	5/45	5/45
Heating (air) – min./max. water outlet temperature	°C	15/75	15/75	15/75	15/75
Cooling (water) – min./max. water outlet temperatur	°C	7/25	7/25	7/25	7/25
SOUND ACCORDING TO EN 12102 AT THE CONDITION OF A7W35					
Level of sound power	dB(A)	49	52	54	55
Sound pressure at 5 m away	dB(A)	27	30	32	33
ELECTRICAL DATA					
Rated voltage	V/Hz	3N~ 400; 50 Hz	3N~ 400; 50	3N~ 400; 50	3N~ 400; 50
Max. operational current	A	24,9	49,8	74,7	99,6
Fuses	A	3 x 25	3 x 50	3 x 80	3 x 100
COOLING SYSTEM					
Refrigerant - type		R290	R290	R290	R290
GWP (global warming potential) refrigerants		0,02	2 x 0,02	3 x 0,02	4 x 0,02
Refrigerant - quantity	kg	3,75	2 x 3,75	3 x 3,75	4 x 3,75
DIMENSIONS AND MASS - NET					
Dimensions (W x H x D)	m³/h	1575 x 1575 x 960	3375 x 1683 x 960	5000 x 1683x 960	6625 x 1683 x 960
Weight		500	1300	1900	2500

INDOOR WALL-MOUNTED CONTROL UNIT		WR KSM 2	WR KSM+	WR KSM C
Rated voltage	V/Hz	~ 230; 50	~ 230; 50	~ 230; 50
Max. operational current	A	2,2	2,2	2,2
Fuses	A	1 x C10	1 x C10	1 x C10
DIMENSIONS AND WEIGHT – NET				
Dimensions (W x H x D)	mm	400 X 350 X 90	200 X 350 X 90	200 X 350 X 90
Weight	A	4,3	2,3	2,6

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. In the nineties, the workshop evolved into a company. At the turn of the millennium, the company offered its first heat pumps, soon followed by deliveries to European markets. 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. 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 the user at every step – from informed decision-making and prudent planning to safe installation and long-term carefree use. A comprehensive support system enables quick access to information and timely resolution of any potential issues.

Contractual seller/installer

N° SL21427Q

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