



The WP Max-AirMono air source heat pump

The whisper-quiet monoblock

WP Max-AirMono air source heat pump



The monoblock with natural propane refrigerant



Source:
-22 °C to
+40 °C



Flow:
20 °C to
75 °C

The Monoblock WP Max-AirMono developed by ratiotherm impresses with its high-quality workmanship and features. Thanks to its specially developed large evaporator, low-speed bionic owl wing fan, and highly insulated refrigeration circuit, this heat pump is extremely quiet in operation. It is highly efficient and, thanks to high flow temperatures, also ideal for renovation projects. This efficiency is achieved through the use of the environmentally friendly and innovative refrigerant propane (R290), which means that this generation of heat pumps protects our planet – it does not damage the ozone layer. Nowadays, it goes without saying that the WP Max-AirMono heat pump can be operated specifically with surplus PV electricity. The Monoblock offers



a variety of interfaces for communication with smart meters or energy management systems. The heat pump itself can be equipped with a specially designed plant tray to blend in even better with the building's outdoor facilities.

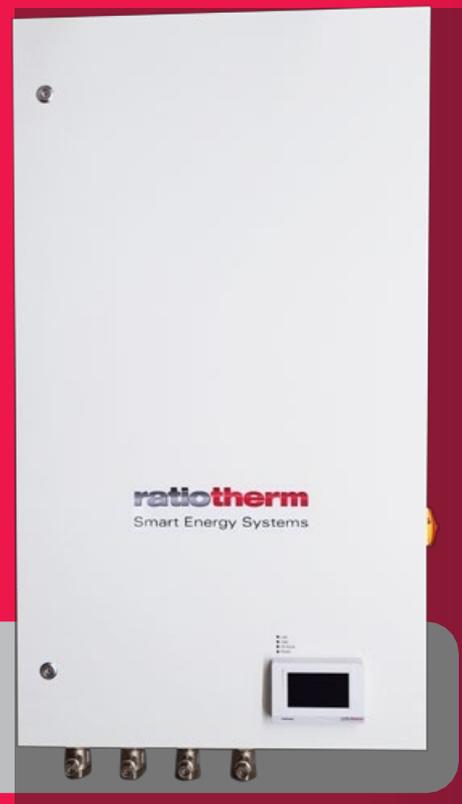
Technical data

WP Max-AirMono	F11	F17	
L 2/W35	A2/W35	A2/W35	
Heating capacity	1.9 to 11.3	2.5 to 17.6	kW
Power consumption	0.8 to 3.0	1.1 to 3.8	kW
COP at rated power	4.48	4.32	

Advantages:

- Natural propane refrigerant with GWP 3
- Whisper-quiet operation including night setback
- Ideal for renovation thanks to high flow temperatures of up to 75°C

The outdoor unit is connected to the wall-mounted indoor unit via frost-proof pipes filled with brine. The indoor unit can also accommodate an electric heating element.



LOW
NOISE



POWER
TO COOL



BI
VALENCE



CONNECT



PV



The advantages of such a system at a glance

- ▶ Extremely reduced external noise
- ▶ No low-frequency humming noises outdoors thanks to high-quality insulated housing
- ▶ No risk of frost damage to water pipes thanks to glycol mixture (frost protection) as intermediate circuit
- ▶ Extremely flexible in terms of installation location
- ▶ Low space requirements outdoors
- ▶ Low space requirements inside the building – more space for living space
- ▶ Active cooling via the heating circuits in summer

Additional features – the technology of the WP Max-AirMono in detail

Thanks to the close link between development and in-house production of the heat pumps – "made in Germany" – owners of an air source heat pump from ratiotherm can rely on a sophisticated, sustainable overall system.

Trust in high efficiency in heat generation. True to our motto "HIGH-QUALITY COMPONENTS FOR WELL-BEING AND SAFETY!"

Flex technology

Our heat pumps with the abbreviation F (= Flex) are equipped with speed control via inverter technology. The inverter opens up the following possibilities for using the heat pump:

- Runtime optimization (fewer starts/stops) and thus longer service life for the heat pump components
- PV overcurrent can be used in a targeted manner via speed-dependent operation (PV-ready)
- COP and thus the seasonal performance factor (SPF) required for government subsidies can be significantly improved through the use of inverters in combination with efficient control technology

Whisper technology

Specially shaped fan blades in the outdoor unit ensure one of the quietest operating noises in the field of air source heat pumps. The individual fan blades are bionically modeled after an owl's wing, which results in extremely quiet operation, even under full load. In addition, the WP Max-AirMono works with a large heat exchanger surface in the evaporator, which results in low air movement through the outdoor unit.

Cooling

In times of increasingly extreme environmental conditions, the topic of building cooling is becoming increasingly important. Active cooling can be operated with the Max-AirMono heat pump as an ideal supplement to regular heating operation. The refrigeration circuit is simply reversed and the outdoor unit serves as a cooling module, releasing the absorbed room heat into the environment. The advantage of this is that when photovoltaics are integrated into such a system, active cooling can be implemented in a completely cost-neutral and, above all, climate-neutral manner (power-to-cool).

The ratiotherm modular system

An Oskar® stratified storage tank in the WPS heat pump storage tank version is the ideal complement to the efficient and whisper-quiet WP Max-AirMono. This type of storage tank is specially designed for use with power-controlled generators and, thanks to its hydraulic design, allows the heat produced to be transferred directly to the heating circuit.

As a valuable addition, a ratiotherm central controller further supports the function and efficiency of the WP Max-AirMono. The components communicate intelligently with each other, providing only the heat that is actually needed at the temperature level that is really necessary.

Your advantages at a glance

For users

- High-quality, coordinated components ensure maximum efficiency in heat transfer and minimum energy consumption
- Easy to maintain thanks to online maintenance and fault monitoring at the customer's request
- Noise emissions are hardly an issue thanks to the sophisticated technical design of the outdoor unit.
- Smart grid/smart home/PV-ready

For tradespeople and installation companies

- Easy integration into the customer's existing heating system
- Perfectly suited for renovation in existing buildings
- Easy installation thanks to complete pre-assembly at the factory
- ratiotherm covers the entire portfolio of renewable heating technology
- Convenient commissioning by our service team on request
- Online monitoring and remote access to the entire system possible

For the environment and the energy transition

- CO₂reduction for progress in the heat transition
- Conservation of existing resources through significant energy savings
- Shifting of generation peaks towards heat (Power-2-Heat) possible

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