

ROTEX gas hybrid heat pump

a member of **DAIKIN** group

ROTEX



A strong team.

The new ROTEX HPU hybrid **gas hybrid heat pump** always selects the most favourable heating mode automatically.





“For a long time the general opinion was that a heat pump was not an economical option for our house. But the ROTEX hybrid heat pump proved to be the perfect way for us to use renewables. We were able to fully integrate all existing radiators and the intelligent control system always selects the most favourable operating mode. Now we can be sure that we are well set up for the future – irrespective of rising energy prices.”

Stefanie and Jochen Sinner, home renovators

Modernising the smart way: All set for the future with a gas hybrid heat pump.

The new hybrid combination from ROTEX – efficient, convenient and reliable.

The use of a heat pump in existing buildings is often restricted by the need for high flow temperatures. When modernising buildings with an existing gas heating system, therefore, the question frequently arises as to whether a heat pump can perform this task. The new ROTEX HPU hybrid combines an air source heat pump utilising renewables with energy efficient gas condensing technology. The indoor unit, consisting of the gas condensing boiler and the internal part of the heat pump, does not usually take up any more space than a conventional gas boiler. With flow temperatures of 25 °C to 80 °C, the ROTEX HPU hybrid is suitable for any kind of building. The new ROTEX hybrid unit is impressively reliable, flexible, extremely convenient and uses renewables.

Fast and straightforward installation.

Featuring components that are perfectly matched to each other prior to delivery, the ROTEX HPU hybrid system opens up undreamt-of possibilities for modernisation. The system can be integrated into existing heating systems when replacing an old gas boiler. All existing radiators or underfloor heating systems can be retained; the work takes place almost exclusively in the boiler room. Additional effort is only required for the installation of the outdoor unit of the heat pump. The effort required to select the correct components and install the system is minimal and this process is extremely quick and easy.



Powerful performance – on the smallest footprint.

The indoor unit of the ROTEX HPU hybrid requires no more space than a conventional gas boiler, whilst the compact outdoor unit – with its space saving design – can be flexibly installed outside the building.



DHW heating that's up to 30 % more efficient.

The special 2-in-1 heat exchanger of the ROTEX HPU hybrid gas hybrid heat pump is used for DHW and central heating. Because it heats the domestic hot water directly, employing the hygienic instantaneous water heating principle, the appliance still works within the condensing range for DHW heating. This leads to increased efficiency of up to 30 % compared with conventional gas condensing boilers.

Maximum energy utilisation Minimum footprint.

Outstanding efficiency – at all times and all temperatures.

The ROTEX gas hybrid heat pump achieves optimum energy efficiency thanks to its dual-mode parallel and alternative operation. Current electricity and gas prices are entered into the control unit. This device then selects the most favourable heat generator in every operating mode. The heat pump is activated for as long as possible, or both appliances work in parallel, resulting in cost benefits. The gas boiler is only used when it is really needed, i.e. when high temperatures are required. The ROTEX gas hybrid heat pump therefore ensures maximum efficiency at all times in any operating mode.

Maximum DHW hygiene delivered with maximum convenience.

For domestic hot water heating, you can choose between the hygienic instantaneous water heater principle or a combination with a convenient ROTEX thermal store.

Perfect climate: Heating in the winter – cooling in the summer.

The HPU hybrid can not only provide heating but can optional also cool if required in rooms with underfloor heating. Your feel-good climate in every season.

Your benefits at a glance.

Outstanding efficiency

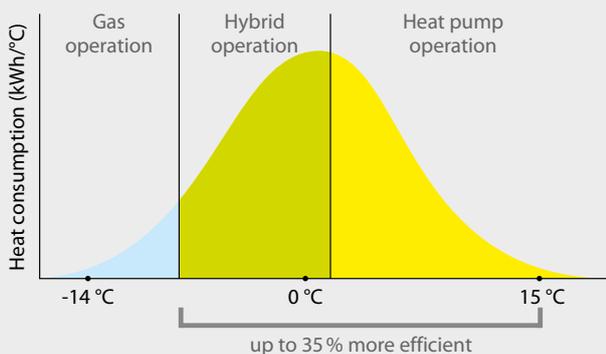
- Optimum use of free, renewable, environmentally responsible energy from the sun and air in combination with a gas condensing system
- Up to 30% more efficient DHW heating than with standard gas condensing boilers

Innovative technology

- The most efficient mode for every outside temperature. The ROTEX hybrid logic controller always selects the most favourable operating mode based on current electricity and gas prices
- All components are perfectly matched to each other prior to delivery

Meets your needs

- High output and high temperatures guarantee heat at any time
- Easy integration into existing heating systems
- Economical and quiet to run
- Compact dimensions, easy installation – on a very small footprint
- Optional cooling



Heat intelligently and reliably all year round.

The ROTEX HPU hybrid heat pump optimises parallel operation with the heat pump. This results in the gas boiler starting to cover the heat demand of the building on its own much later than would otherwise be the case. This system is up to 35% more efficient than a gas condensing boiler on its own. This means that, over the course of a year, 60 to 70% of the energy for central heating is supplied by the heat pump.

Future provision that's straightforward and reliable.



All at the touch of a button.

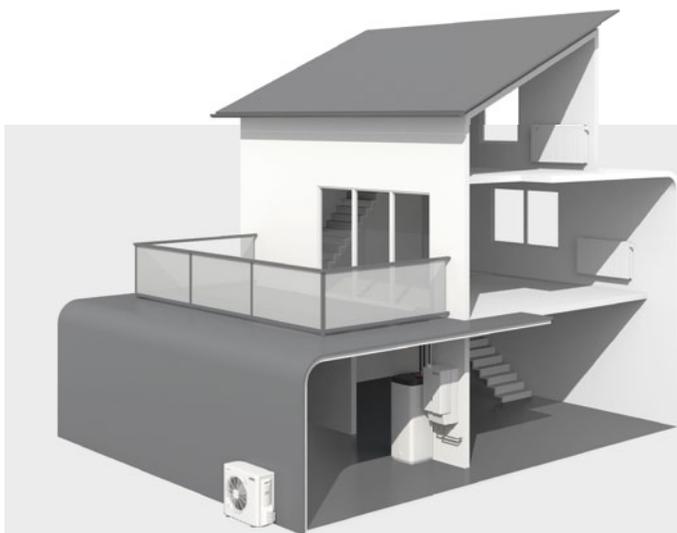
Current electricity and gas prices are easily entered into the controller of the ROTEX gas hybrid heat pump. This device then automatically selects the most favourable heat generator in every operating mode. This allows you to maintain control over your heating bills. Alternatively, you can choose an operating mode with ecological bias. The controller will then always select the energy source with the least environmental impact (highest primary energy efficiency).

Ready for anything!

The principle behind the HPU hybrid heat pump.

The outdoor and indoor units of the ROTEX HPU hybrid regulate the refrigerant, gas and water circuits for central heating intelligently and with maximum efficiency. Existing radiators and/or underfloor heating systems can be easily

integrated, or the ROTEX HPU hybrid can be combined with a thermal store for DHW heating. Even alternative, future heating systems that use renewables can be flexibly integrated into the system.



Anything goes.

With the ROTEX HPU hybrid, all existing radiators and/or underfloor heating systems and DHW cylinders can be easily integrated into the system.

Specification.

1)



2)



HPU hybrid indoor unit		Gas condensing boiler	Heat pump	
		HPU hybrid	HPU hybrid 5 kW	HPU hybrid 8 kW
Rated heating output	kW	7.6 – 27.0		
Rated heating output (A7/W35)	kW	–	4.4	7.4
COP (A7/W35)		–	5.0	4.5
Heating system operating range	°C	25 - 80		
Appliance dimensions (W x D x H)*		450 x 400 x 970		

* Total height with automatic air vent valve and connection lines: 1075 mm

1) The HPU hybrid can not only provide heating but can optional also cool if required in rooms with underfloor heating. Your feel-good climate in every season.

2) The product range "ROTEX HPU hybrid" has been granted the **Plus X Award** for High Quality, Functionality and Ecology.



HPU hybrid outdoor unit		1~/230 V	
		5 kW	8 kW
Dimensions (W x D x H)	mm	832 x 307 x 735	
Weight	kg	54	56
Sound power level in heating mode	dB (A)	61	62
Sound power level in heating mode (at 1 m distance)	dB (A)	48	49
Operating range heating	°C	-	-25 – +25
Operating range heating	°C	-	10 – 43

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ROTEX

What makes ROTEX different?

We offer individual solutions for optimum living and working that are straightforward, intelligent, and futureproof.

ROTEX is a manufacturer and supplier of complete innovative and environmentally responsible heating systems – building on decades of experience. Since 1973, ROTEX has stood for innovation and know-how in the field of heat generation, storage and distribution. In the development of products for our high grade and perfectly matched components we focus on user benefits.

The ROTEX product range extends from air-to-water heat pumps, condensing boilers for oil and gas, solar thermal systems and thermal stores, not forgetting underfloor heating, heating oil tanks and rainwater tanks, right up to a comprehensive installation system for all sanitary and heating equipment. Innovative systems that facilitate the optimum use of conventional and alternative fuel types in both modernisation and new build projects. ROTEX products stand for unique cost efficiency with maximum environmental compatibility and the highest levels of flexibility.

ROTEX Heating Systems GmbH is a wholly owned subsidiary of Daikin Europe NV, making it a member of the DAIKIN Group, the world's leading manufacturer and supplier of products for heating, ventilation and climate control. Our combined competence generates optimum product solutions to meet the highest user aspirations.

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