

ROTEX HPDU monobloc

a member of **DAIKIN** group

ROTEX



Maximum efficiency in water heating

The ROTEX HPDU monobloc **heat pump for hot water generation**

Hot water from air and renewable energy

The ROTEX HPDU monobloc heat pump extracts heat from the ambient air to produce domestic hot water. The plug-and-play system only needs to be connected to the water pipes. It is ideal for new buildings as well as for existing buildings that are being modernized.

When boilers or electrical appliances generate heat, the air in the rooms where they are located is often unintentionally heated. The domestic hot water heat pump extracts the waste

heat from the air and uses it to produce hot water. In terms of comfort and convenience, this approach boasts a two-fold advantage: the cool exhaust air can then be used to cool a pantry, for example, or basement areas where lower temperatures are desired.

Harnessing the power of the sun: using the heat pump in combination with a photovoltaic installation or a solar-thermal system further slashes energy consumption.



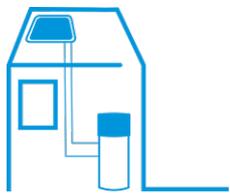
The ideal combination

A domestic hot water heat pump can be the perfect addition to a heating system. With an integrated solution of this kind, the heating system can be switched off during the summer when it is not in regular use. The highly efficient ROTEX HPDU monobloc heat pump then supplies hot water – and slashes energy costs.

The perfect match: a heat pump and a solar-thermal system

To maximize its efficiency, the domestic hot water heat pump can be connected to a photovoltaic installation or a solar-thermal system.

The monobloc domestic hot water heat pump can be connected to a photovoltaic installation.



The heat pump that features a 260-liter hot water storage tank can be equipped with an additional heat exchanger for direct connection to a solar-thermal system – enabling the available solar energy to be fully exploited.



An intelligent product

The ROTEX HPDU monobloc is smart-grid-ready. This means that the advanced control system automatically raises the hot-water target temperature as soon as enough energy is available from the photovoltaic installation – and the electrical energy generated can be thermally stored for later use.

Special comfort and safety

Easy control

- Choose your operating mode: „Eco“ - „Auto“ - „Boost“
- Protective cycle against bacterial formation, no legionella

Operating modes

ECO: Only renewable energy will be used without activating the electrical heating element. This way you save extra on your energy bill.

AUTO: Renewables will be supported with an electrical heater element. In this mode optimum comfort is always guaranteed.

BOOST: In the Boost mode you are able to heat your domestic hot water in incredible fast timing. This mode can manually be enabled to increase output to maximum by utilizing both heat pump and the additional heating element.

Low maintenance

- Countless installation possibilities. Footprint of only 0.36 m² and easy maintenance on the top and the side
- The unit informs customer when the air filter should be cleaned
- One (200 L) or two (260 L) replaceable anodes for even better protection against corrosion improving the lifetime of the unit

HPDU monobloc				RKHH2E200AV33	RKHH2E260AV33	RKHH2E260PAV33
Dimensions	Device	Height	mm	1,707	2,004	
		Diameter	mm	650		
Weight	Device		kg	83	95	112
Heat pump performance		nom.	kW	1.82		
COP	A 7/W35			3.00	3.10	
	A15/W35			3.30	3.60	
Tank	Storage volume		l	200	260	
	Operating range	min.	°C	10		
		max.	°C	70 (1)		
Insulation	Heat loss	W	60	70	71	
Operating range	Domestic hot water	min.	°C	-7		
		max.	°C	38		
Sound power level		nom.	dB(A)	53		
Refrigerant	Type			R-134a		
	GWP			1430		
	Charge		kg	0.90		
		TCO ₂ eq	1287			
IP class				IP-X4		
Power supply	Phase			1~		
	Frequency		Hz	50		
	Voltage		V	230		
Current	Max. operating current		A	2,4		
Notes	(1) > 62°C only Booster Heater, no heat pump operation					

High performance, guaranteed comfort and ultimate energy savings

Designed to meet all of your needs:



Energy efficiency

- Hot water temperatures up to 62 °C without use of an electric heating element
- Operating with COP values up to 3,6



Solar ready

- „Smart Grid-ready“: combination with a PV-system
- Combination with a thermal solar system (260L)



Amazingly silent

- Only 36 dB (A) at a distance of 2 m
- One of the quietest devices on the market



Easy installation and maintenance

- High quality materials ensure longevity
- Compact dimensions, fits through every door
- Ready to plug in

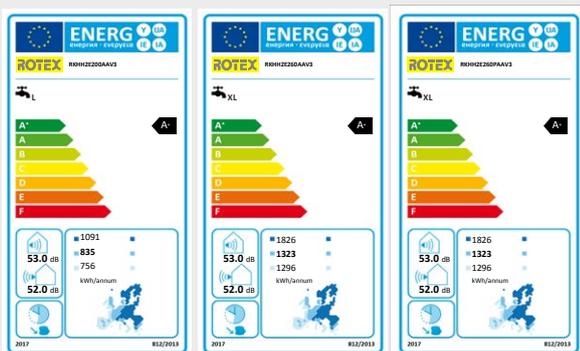
Meets your needs



- Higher comfort through 3 operating modes
- Different tank sizes:
 - 200l (H x Ø) 1.707 x 650 mm
 - 260l (H x Ø) 2.004 x 650 mm
- Optionally with bivalence function



Low sound
36 dB(A)*



Class A+ efficiency labels

According to the EU eco-design guidelines, ROTEX's Monobloc domestic hot water heat pump is classified with an "A+" label, the highest energy efficiency available.

* free installation at 2m distance

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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 heat pumps, condensing boilers for oil and gas, solar thermal systems and thermal stores, not forgetting underfloor heating and heating oil tanks right up to rainwater tanks. Innovative systems that enable optimum use of conventional and alternative energy sources in both detached houses and apartment buildings. Whether in new build or modernisation 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.

ROTEX Heating Systems GmbH

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