

ROTEX HPSU air-to-water heat pumps

a member of **DAIKIN** group

ROTEX



Four seasons – one feel-good climate control.

Comfortable warmth in the winter, gentle cooling in the summer. The variable ROTEX HPSU **heat pump** reduces your heating costs to a minimum.



"We wanted a comfortable and environmentally beneficial heating system in our house. Our heating expert recommended the ROTEX system. The unit is so compact that it could even be fitted in next to the washing machine and we could use the heating room for something else. And the solar system came along with it at the same time. Now we are enjoying our dream climate every day, we are saving on our heating costs and we are making a contribution to the environment."

Beatrix and Michael Jancic, home-owners

Your first step into the renewable heating age: Heating with air, sunlight and ROTEX.

An inexhaustible heat source just outside your door.

The sun is our natural energy supplier. Take advantage of this free heat source for your house. It is located in the environmental heat in the air or is used as direct solar radiation. This source of energy is both free and inexhaustible from our point of view. The ROTEX HPSU (HeatPumpSolarUnit) is a heat pump installation which exploits the environmental heat available to supply heat to your house with maximum efficiency.

ROTEX new-build solutions.

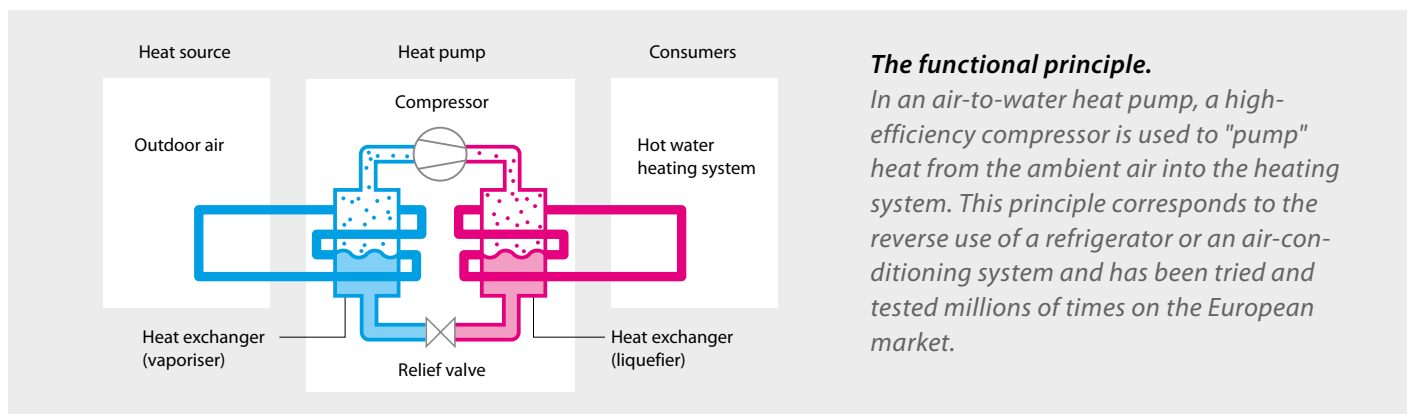
Modern new buildings always need less heating energy and thus the flow temperatures can be lower. The ROTEX HPSU compact low temperature heat pump is the ideal solution. Underfloor heating is the prerequisite for being able to profit from the advantages of this energy-efficient heat generator. It can use a low surface temperature because it has an extremely large heating surface area. The combination of heat pump and underfloor heating not only stands for more cosiness and reduced energy costs, it can also cool your rooms in the summer.

ROTEX solutions for modernisation with radiators.

Older heating systems using radiators are set up for higher flow temperatures (at least 55°C, up to 80°C). ROTEX offers the HPSU^{hitemp} for this application. It operates using a second cooling circuit, in other words, a second compressor stage. This circuit is located in the indoor unit where it takes the heat from the outdoor cooling circuit at a temperature of approx. 25 degrees and increases it to 80 degrees.

ROTEX solutions for modernisation with double convenience profit.

During modernisation of existing buildings, the integration of underfloor heating is often one of the first considerations. ROTEX offers underfloor heating systems for existing buildings for rapid and cost-effective retrofitting.



The functional principle.

In an air-to-water heat pump, a high-efficiency compressor is used to "pump" heat from the ambient air into the heating system. This principle corresponds to the reverse use of a refrigerator or an air-conditioning system and has been tried and tested millions of times on the European market.

ROTEX HPSU compact indoor unit



ROTEX HPSU compact outdoor unit



INVERTER



The hybrid control RoCon. Everything under control.

The hybrid controller takes over the entire management of the thermal store, the heart of the hybrid heating system, as well as the regulating function of the heat pump. This comprehensive hybrid management ensures the highest system efficiency and optimum convenience for the heating, hot water and cooling. Simple consistent handling for the ROTEX HPSU compact with intuitive menu navigation and control via your smartphone with the ROTEX App.

HPSU compact.

Flexible application and easy to install.

ROTEX HPSU compact – the high-efficiency class.

The ROTEX HPSU compact combines high-efficiency heat pump technology with an innovative thermal store in the smallest possible area. The electronic management of the heat pump and thermal store (ISM = Intelligent Store Management) maximises energy-efficiency and thus also the heating and hot water convenience. The HPSU compact is "Smart Grid Ready" and is therefore equipped for the energy cost reducing operation of tomorrow. Hot water generation is carried out on the instantaneous through-flow principle and is characterised by the highest hygienic quality. You should not be satisfied with anything less.

ROTEX HPSU compact indoor unit.

With the new heat pump unit, ROTEX offers a particularly compact and pioneering complete solution. The HPSU compact incorporates the indoor unit of the heat pump into the solar thermal store – in the smallest possible space. The complete heating centre is incorporated on just 0.36 m² (HPSU compact 304/308) or 0.62 m² (HPSU compact 508/516). This means that they are flexible in selection of the erection location and simple and rapid installation is guaranteed.

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

The HPSU compact can not only provide heating but can also cool if required. Your feel-good climate in every season.

Everything can be controlled.

The RoCon digital controller meets the strictest of demands. It takes on the entire management of the thermal store, the heart of the hybrid heating, in addition to the regulating function of the HPSU compact. This comprehensive hybrid management provides the highest system efficiency and optimum convenience for heating, hot water and cooling. The display shows values and parameters in clear text. All operating modes, timer programs and operating parameters can be set and modified quickly. Important system parameters can be accessed and adapted to suit by the technician. The heating water temperature is regulated in accordance with the outdoor temperature. The controller automatically detects winter and summer and switches the heating mode on and off to suit the demand. The controller is easy and intuitive to operate. It has individually adjustable timer for convenient control of the heating circuit and hot water generation and can be extended by the use of a room controller, which can be used conveniently to control and monitor the heating system.



The Hybrid central unit – open for all energy types.

Heat from other sources can also be efficiently stored in the HPSU compact indoor unit. Alongside a solar system, it can also be supported by oil-fired and gas-fired boilers, pellet-fired boilers or wood-fired stoves with back-boilers for heating and hot water generation. If you are not installing a solar system directly, it can be retrofitted quickly and easily at any time.



The outdoor unit.

The outdoor unit extracts heat from the ambient air which is absorbed by the heat transfer medium (refrigerant) and transferred to the indoor unit. The compact outdoor unit can be placed inconspicuously outside new buildings or existing residential buildings.

INVERTER

The output modulating heat pump.

Maximum water hygiene. Every day.

The integrated thermal store is water-hygienic and is state-of-the-art technology. Deposits of sludge, rust, sediments or the multiplication of dangerous Legionella bacteria, which can arise in many large-volume tanks, are not possible. Its exceptional water hygiene benefits have been confirmed by the Hygiene Institute at the University of Tübingen in an extensive study.

The compressor – the heart of the heat pump.

The compressor of a heat pump can be compared to the engine of a car. It substantially determines the energy efficiency of the entire heat pump. ROTEX is part of a leading global air conditioning and heat pump technology company. The compressors in the ROTEX heat pumps are developed and manufactured within the group. We therefore have access to the know-how of a technology leader which has been accumulated from the production of millions of compressors.

Economical and quiet as a result of output modulating operation.

The heat demand in a building will fluctuate greatly depending on the prevailing weather and the behaviour of the user. All ROTEX heat pumps use so-called inverter technology. It is used to operate the compressor in a variable mode, that is to say, the output of the heat pump is continuously adapted to meet the demand. In the HPSU^{hitemp} two stage heat pump, this modern inverter technology is actually used twice.

Your advantages with the ROTEX HPSU compact air-to-water heat pump.

Highest efficiency

- Exploitation of free, regenerative ambient energy of the sun and the air

Innovative technology

- Intelligent store management (ISM) for maximum energy-efficiency and the highest heating and hot water convenience
- Intuitively operated electronic controller
- Smart Grid Ready

Domestic water hygiene

- Highest levels of hygiene as a result of the separation of store and potable water
- No deposits, no Legionella generation

As if it were made for you

- Heating, cooling and hot water
- Economical and quiet in use
- Compact dimensions, simple installation and smallest possible space requirement
- Flexible application, direct combination with solar system or existing heating system possible



The "Smart Grid Ready" label for all ROTEX HPSU compact heat pumps certifies their suitability for so-called power-controlled operation.

In order not to overload the power networks, wind power generator wheels are often turned off if more current is produced than is required. Storage systems are required to collect these production spikes. Heating systems with heat pumps can act as these types of storage. If required, you can transform excess power into thermal energy which then can be "stored" in a buffer or hot water storage tank. Even today, network operators can switch off heat pump installations in the event of power shortages. In order to exploit your storage potential even better, the heat pump requires appropriate smart controller technology. Users can see this by the "Smart Grid Ready" label.

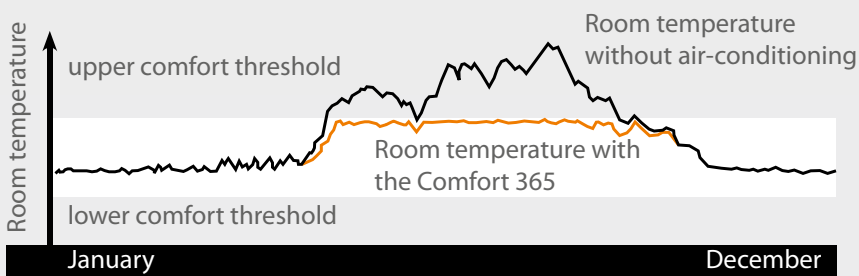


Air-to-water heat pump
 ROTEX HPSU compact
 (outdoor and indoor units)

Solar system:
 ROTEX Solaris (optional)

Fan convector
 ROTEX HP convector
 (optional)

Underfloor heating
 ROTEX Monopex



Warm and cosy homes in winter and comfortably cool in the summer.

With the ROTEX Comfort 365 heating system, you can enjoy your personal comfort temperature at any time of the year (see white area of diagram) in all rooms. Custom comfort settings in a jiffy.

Your feel-good climate, day after day. With the ROTEX Comfort 365.



Ideal temperature in any season.

Our heating means a cosy home. Heat generators such as an air-to-water heat pump use regenerative environmental energy as a source of heat, thus reducing energy consumption and costs to a minimum. But what about air-conditioning during the summer? Very few residential buildings are fitted with air-conditioning units that offer a comfortable temperature on hot summer days and nights as well. This is something we want to change. With our new heating system which not only provides the entire residence with comfortable heating in winter but also clean cooling in summer. And can do so while running cost-effectively without additional procurement costs – ROTEX Comfort 365.

Regenerative heat in winter, clean cooling in the summer.

In combination with ROTEX underfloor heating, the ROTEX heat pump puts its special talents to the test. When cooling, the heat pump process is simply put into reverse, i.e. heat is taken from the building and released into the surroundings. The underfloor heating then performs the actual cooling of the room. The large surface provides a very comfortable, draft-free room climate. Invisible and noiseless, also when cooling.

Cunning combination.

Underfloor heating and fan convector.

In rooms without underfloor heating, the ROTEX HP convector is used which also has a dual heating and cooling function. It is the ideal supplement to the ROTEX heat pump if not all the rooms are equipped with underfloor heating. The particularly quiet operation means that it can even be operated in bedrooms. The integrated electronic room temperature controller ensures the optimum atmosphere in each room.

Maximum comfort and the highest levels of efficiency – all-Inclusive.

The cooling option of the ROTEX air-to-water heat pump, which comes as standard, allows you to enjoy the dual heating and cooling function in rooms you fit with underfloor heating, without additional expenditure and investment. The operating costs for this additional comfort are low. Usage costs of 10 to 20 Euros per year for cooling a living room with ROTEX Comfort 365 were calculated by the Institute for Building Energetics at the University of Stuttgart.

ROTEX Solaris. Minimises energy costs.

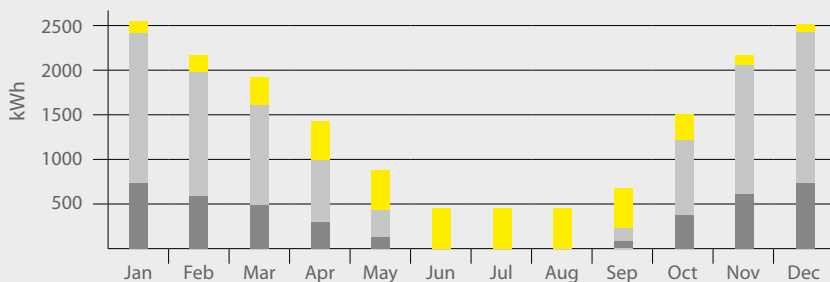
By integrating a solar system which provides additional support to the heating system in the winter with free solar energy, Comfort 365 offers maximum living comfort at minimum energy costs.

Heating and cooling with ROTEX Comfort 365.

- Maximum living comfort 365 days per year
- Tailor-made ROTEX system solutions to your needs and building constraints



Monthly energy consumption of an average single-family house



ROTEX Solaris: Use the energy of the sun and save costs.

The graphic shows when and how much the ROTEX solar system supports the heating and hot water generation. Combined with a ROTEX heat pump, which also exploits regenerative ambient energy, the use of ancillary energy reduces to an absolute minimum.

■ Solar energy utilisation for hot water and heating ■ Heat pump (ambient heat) □ Ancillary energy

Two items which belong together: Heat pump + solar.

A sunny prospect.

ROTEX Solaris utilises the free energy from the sun and thus supports the heating system. High-performance solar panels developed and produced by ROTEX themselves are variable in their installation and provide the highest energy-efficiency.

Low expenditure – High yield.

At its peak, 80% of solar energy can be converted into usable heat. The extremely high efficiency of ROTEX flat solar panels makes this possible. Solar energy and heat pumps complement each other ideally in this application. The heat pump adds the required amount of heat to the heating system to meet the demand.

A measure of the situation: The annual work index.

It describes how many more times you are gaining on heat energy over the year with respect to the auxiliary energy expended. The higher the annual work index, the higher the efficiency of the heat pump. In connection with our solar plant, the ROTEX heat pump reaches an annual work index of up to 4.3. This means that you get 4 times more heat energy for heating and hot water than the auxiliary energy you are using. The ROTEX HPSU sets completely new standards in the field of air-to-water heat pumps.

Solar energy in stock. The ROTEX thermal store.

ROTEX Solaris uses solar energy for hot water generation and effectively supports heating. In the HPSU compact with 500 litre storage capacity, solar heating support is integrated and ready to connect, alongside the solar hot water generation. If the solar heat is not consumed immediately, the ROTEX thermal store can store large volumes of solar heat. The heat for hot water or heating can be used even more than a day later.

Your advantages with the ROTEX Solaris.

- Efficient utilisation of free solar energy for hot water and heating
- Hygienic hot water generation
- Optimum temperature stratification in the ROTEX solar thermal store increases solar use
- Perfect incorporation in the most varied heating installations

A strong team.

The ROTEX HPSU compact comes ideally equipped for use with solar energy. If you want to delay installation of a solar energy installation, this can be rapidly and simply retrofitted.





"What are we doing, I thought. Old building renovation, heating, hot water, electrical system, all new. The ROTEX system had a positive surprise for us with the heating system. We could carry on using our radiators and everything was installed quickly, neatly and in a space-saving method. Simply amazing."

Jens Hahn about his "own 4 walls"

Heat pump even for refurbishment. Thanks to the most modern technology.

ROTEX HPSU^{hitemp} – the ideal solution for modernisation of existing buildings.

Previously, energy-saving heat pumps were restricted to new buildings or installations with underfloor heating because of the low heating water. The ROTEX HPSU^{hitemp} sets completely new standards. Even at extremely low outdoor temperatures of -20 °C, it provides a heating water temperature (flow temperature) of up to 80 °C with no additional electric heating required, thus reducing the energy costs. Another advantage: Your existing radiators are easy to integrate in the new heating system.

Low investment. Maximum yield.

The HPSU^{hitemp} consists of an outdoor unit, indoor unit and a hygienic thermal store. You do not need a separate utility room for the HPSU^{hitemp}. The compact outdoor unit means that the erection site can be flexible.

On the sunny side. Today and tomorrow.

The thermal store of the ROTEX HybridCube is already equipped for solar energy utilisation. If you are not installing a solar system directly, it can be retrofitted quickly and easily at any time. ROTEX thermal store technology ensures constant hygienic hot water.

Your advantages with the ROTEX HPSU^{hitemp}.

- Ideal for modernisation
- Exploitation of free, regenerative ambient energy of the sun and the air
- For heating and hot water
- Flow temperatures of up to 80 °C
- Integration of existing radiators
- Flexible application, direct combination with a solar installation (in combination with the ROTEX HybridCube)
- Economical and quiet in use
- Highest level of hot water convenience and hygiene

Everything fits perfectly.

ROTEX developed the heat pump system HPSU^{hitemp} for old building modernisation. The outdoor unit can be installed in a space-saving and simple manner, and the increased flow temperature of up to 80 °C in the indoor unit allows incorporation of existing radiators.

1 Air-to-water heat pump ROTEX HPSU^{hitemp}




2 Solar thermal store ROTEX HybridCube



HPSU systems by ROTEX.

Choose the ideal solution for your requirement.



ROTEX heat pump	HPSU compact H/C Biv	HPSU compact H/C
	Heat pump for maximum flexibility: Combination with thermal solar installation (pressurised solar or Drain-Back) and second heat generator	Heat pump for combination with thermal solar installation (ROTEX Solaris Drain-Back)
 1)  2)  3)	●	●
Maximum flow temperature	55 °C	
New build	●	●
Existing buildings with underfloor heating or low-temperature radiators (50 °C)	●	●
Integrated bivalency option second heat generator can be connected	●	-
Existing buildings with radiators above 50 °C	-	-
Heating and hot water	●	●
Combination with solar (can also be retrofitted)	●	●
Cooling (Comfort 365)	●	●
Combination with second heat generator (can also be retrofitted)	●	-

The components		
Outdoor unit	●	●
Indoor unit	●	●
Hygienic thermal store with solar option	●	●
Stainless steel storage tank	-	-

● Standard

- not available


1) The "Smart Grid Ready" label for all ROTEX HPSU compact heat pumps certifies their suitability for so-called power-controlled operation. – see Page 7.

2) The product range "ROTEX Compact Class" has been granted the **Plus X Award** for Innovation, High Quality, Design, Functionality and Ecology.

3) ROTEX HPSU compact heat pumps fulfil the strict quality criteria of the EHPA (certificate applied for).

FBH = underfloor heating



ROTEX heat pump	HPSU Bi-Bloc	HPSU monobloc	HPSU ^{hitemp}
 ²⁾	●	●	
Maximum flow temperature	55 °C		80 °C
New build	●	●	–
Existing buildings with underfloor heating or low-temperature radiators (50 °C)	●	●	–
Existing buildings with radiators above 50 °C	–	–	●
Integrated bivalency option second heat generator can be connected	○1)	○1)	○1)
Heating and hot water	●	●	●
Combination with solar (can also be retrofitted)	○1)	○1)	○1)
Cooling (Comfort 365)	–	●	–

The components

Outdoor unit	●	●	●
Indoor unit	●	–	●
Hygienic thermal store with solar option	○	○	○
Stainless steel storage tank	○	–	○

- Standard
- optional
- 1) optional when using HybridCube
- not available
- 2) EU environmental mark for HPSU in combination with underfloor heating
- FBH = underfloor heating

Technical data



ROTEX HPSU compact		HPSU compact 4 – 8 kW					HPSU compact 11 – 16 kW		
Size		304	308	308	508	508	516	516	516
Output variables	kW	4	6	8	6	8	11	14	16
Nominal heating output A2/W35	kW	3.27	4.56	5.51	4.56	5.51	7.7	9.6	10.1
Nominal heating output A7/W35	kW	4.4	6.22	7.78	6	7.4	11.8	14.8	15.3
Nominal COP A7/W35		5.04	4.88	4.6	4.74	4.45	4.47	4.27	4.1
Max. heat output A7/W35	kW	5.1	8.4	10.2	8.4	10.2	9.1	10.9	11.4
Nominal COP A2/W35		4.02	3.68	3.54	3.68	3.54	3.29	3.22	3.15
Max. heat output A2/W35	kW	4.8	6.4	7.7	6.4	7.7	9.1	10.9	11.4
Operating range (outside temperature)	°C	Min: -25 / Max: 25					Min: -25 / Max: 35		
Operating range hot water (outside temperature)	°C	Min: -25 / Max: 35					Min: -20 / Max: 35		
Nominal cooling output A35/W18	kW	5	6.8	6.9	6.8	6.9	15.1	16.1	16.8
Nominal EER A35/18		1)	3.99	3.64	3.99	3.64	3.32	2.96	2.72
Operating range, cooling (outside temperature)	°C	Min: 10 / Max: 43					Min: 10 / Max: 46		

Indoor unit

Operating range flow temperature heating	°C	Min: 15 / Max: 55							
Operating range flow temperature cooling	°C	Min: 5 / Max: 22							
Output auxiliary electric immersion heater (option)	kW	9							
Dimensions (L x D x H)	mm	595 x 615 x 1945				790 x 790 x 1951			
Weight of HPSU compact H/C Biv	kg	92		119		121			
Weight HPSU compact H/C	kg	87		114		116			
Total storage capacity	l	300				500			

Outdoor unit

Dimensions (L x D x H)	mm	832 x 307 x 735				900 x 320 x 1345			
Weight	kg	54	56			114			
Sound power level	dB(A)	61	62	61	62	64	64	66	
Noise power level (1 m)	dB(A)	48	49	48	49	51	51	52	

1) Data not available when going to print


Optional accessories: Gas additional heating ROTEX G-plus

Wall-mounted gas condensing boiler for supporting the HPSU compact.
Control is via the HPSU compact controller.

Dimensions (L x D x H)	mm	340 x 340 x 640
Weight	kg	25
Voltage	V	230
Frequency	Hz	50
Output min.	kW	3.5
Output max.	kW	15
Max. effectiveness	%	109
Water content	l	2.5
Flow temperature	°C	40 – 76
Suitable for gas types		2E, 2H, 2LL, 2L, liquid bottle gas 3P



ROTEX HPSU Bi-Bloc		HPSU Bi-Bloc 4 – 8 kW		HPSU Bi-Bloc 11 – 16 kW		
Output variables	kW	6	8	11	14	16
Nominal heating output A2/W35	kW	4.58	5.8	8.6	10.3	11.1
Nominal COP A2/W35		3.66	3.53	3.6	3.41	3.35
Max. heat output A2/W35	kW	6.4	7.7	9.1	10.9	11.4
Operating range (outside temperature)	°C	Min: -25 / Max: 25		Min: -25 / Max: 35		
Operating range hot water (outside temperature)	°C	Min: -25 / Max: 35		Min: -20 / Max: 35		

Indoor unit

Operating range flow temperature heating	°C	Min: 15 / Max: 55	
Output auxiliary electric immersion heater	kW	9	
Dimensions (L x D x H)	mm	480 x 344 x 890	
Weight	kg	48	

Outdoor unit

Dimensions (L x D x H)	mm	832 x 307 x 735		900 x 320 x 1345	
Weight	kg	56		114	
Sound power level	dB(A)	61	62	64	66
Noise power level (1 m)	dB(A)	48	49	51	52

Technical data



ROTEX HPSU monobloc		HPSU monobloc 11 kW X 3~400 V		HPSU monobloc 16 kW X 3~400 V	
Output variables	kW	11		16	
Nominal heating output A2/W35	kW	8.1		10.7	
Nominal COP A2/W35		3.1		3.1	
Max. heat output A2/W35	kW	8.1		10.7	
Operating range (outside temperature)	°C	Min: -20 / Max: 35			
Operating range hot water (outside temperature)	°C	Min: 15 / Max: 55			
Nominal cooling output A35/W18	kW	12.85		16.73	
Nominal EER A35/18		3.33		2.72	
Operating range, cooling (outside temperature)	°C	Min: 10 / Max: 46			
Dimensions (L x D x H)	mm	1435 x 382 x 1418			
Weight	kg	180			
Noise power level (1 m)	dB(A)	51		52	



ROTEX HPSU ^{hitemp}		HPSU ^{hitemp} 11 – 16 kW		
Output variables	kW	11	14	16
Max. heat output A2/W65	kW	9.6	11.9	13.5
COP A2/W65		2.48	2.38	2.33
Operating range (outside temperature)	°C	Min: -20 / Max: 20		
Operating range hot water (outside temperature)	°C	Min: -20 / Max: 35		

Indoor unit

Operating range flow temperature heating	°C	Min: 25 / Max: 80		
Dimensions (L x D x H)	mm	705 x 695 x 600		
Weight	kg	147		

Außeneinheit

Dimensions (L x D x H)	mm	900 x 320 x 1345		
Weight	kg	120		
Noise power level	dB(A)	68	69	71
Noise power level (1 m)	dB(A)	52	53	55



ROTEX HP convector		HP convector 1.5 kW	HP convector 2.0 kW
Type		RFWXV15	RFWXV20
Nominal heating output (water inlet 45°C)*	kW	1.5	2
Nominal heating output (water inlet 7°C)*	kW	1.2	1.7
Nominal heating output (water inlet 18°C)*	kW	0.3	0.4
Operating range (water temperature)	°C	Min: 6 / Max: 60	
Dimensions (L x D x H)	mm	700 x 210 x 600	
Weight	kg	15	
Noise power level (1 m)*	dB(A)	19	29

* referred to average fan stage

Energy storage facility with solar option



Stainless steel hot water storage tank¹⁾



ROTEX thermal store		HYC 343/19/0	HYC 544/19/0	HYC 544/32/0	RKHTSP 200	RKHTSP 260
Total storage capacity	liter	300	500	500	201	258
Empty weight	kg	59	87	93	81	89
Total filled weight	kg	359	587	593	282	347
Dimensions (L x D x H)	mm	595 x 615 x 1640	790 x 790 x 1640	790 x 790 x 1640	695 x 600 x 1335	695 x 600 x 1610
Potable water capacity	liter	19	27.9	27.9	193.5	250.5
Hygienic hot water generation in the instantaneous through-flow principle		•	•	•		

¹⁾ Only in combination with the HPU compact^{hitemp} 2-stage heat pump

ROTEX

a member of **DAIKIN** group

What differentiates ROTEX from the other manufacturers?

We offer individual solutions for the optimum living and working climate – naturally, intelligently, future-proof.

ROTEX is a manufacturer and supplier of complete innovative and environmentally protective heating systems – using 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-quality and perfectly matched components we always have the benefit for the user in mind.

The ROTEX product portfolio extends from air-to-water heat pumps, condensing boilers for oil and gas, solar systems and thermal stores, via underfloor heating, heating oil storage tanks and rainwater storage tanks to a combining installation system for sanitary and heating systems. Innovative systems that facilitate the optimum use of conventional and alternative energy carriers in both renovations and in new buildings. ROTEX products stand for unique cost efficiency with maximum environmental benefit and highest levels of flexibility.

ROTEX Heating Systems GmbH is a 100% subsidiary of Daikin Europe NV, and is thus 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 for the strictest of user requirements.

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