



Daikin Altherma R HW

Domestic hot water heat pump refrigerant split



Efficiency › Energy savings › Comfort

Energy efficiency	
 A⁺	 A⁺
300 L Model	500 L Model

The combination of two proven technologies

System configuration

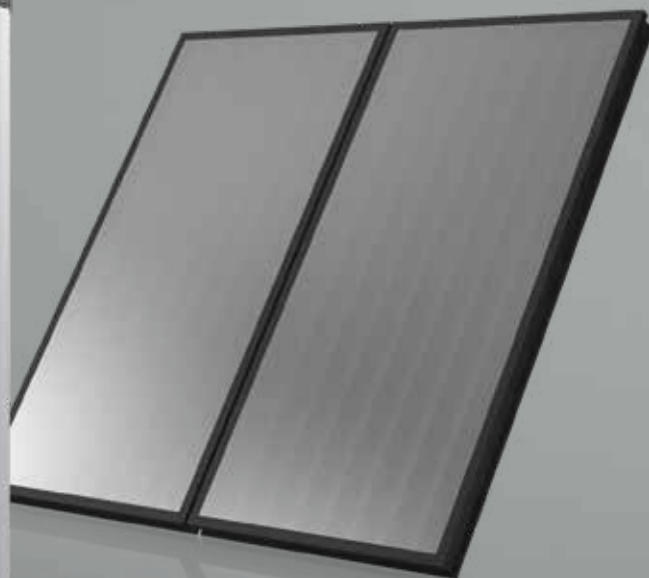
The Daikin domestic hot water heat pump consists of 2 units: a heat pump outdoor unit equipped with inverter technology and a hot water storage tank.



Heat pump outdoor unit



Hot water storage tank



Thermal solar panels
(optional)

Guaranteed comfort

Available in 300 or 500 litres, Daikin Altherma R HW domestic hot water heat pump is designed to provide your perfect climate.



EKHHP300A2V3

EKHHP500A2V3

Designed to meet your needs



Energy efficiency

Operating at the highest level of energy efficiency, this model limits electricity use and maximises your cost savings.



Fresh hot water

The structure of the thermal store ensures optimal water hygiene and eliminates the risk of bacteria or legionella. Rest assured that your hot water is fresh and safe.



Solar ready

Take advantage of solar power. Easily connect your hot water storage to thermal solar panels on your roof.



Maintenance-free

Smart settings provide you with maximum comfort and the maintenance-free tank lets you relax.



Built-in user interface

This intuitive interface allows you to quickly programme your domestic hot water heat pump to suit your habits.

Increased energy efficiency and savings

Daikin Altherma R HW domestic hot water heat pump is the ideal combination of Daikin's signature heat pump technology and a high performance hot water storage tank that increases energy efficiency and creates substantial savings.

Maximum efficiency

The hot water storage tank is optimally designed to maximise the efficiency of hot water production:

- › Multiple layers of polyurethane foam fully insulate the water heater.
- › Stainless steel heat exchanger, with a capacity of 29 litres, runs the entire length of the tank.
- › Provides hot water at all levels.

Energy savings

Combining a heat pump and a hot water storage tank, creates substantial savings for you:

- › Reduces the electricity required to produce domestic hot water by up to 70% (compared to a traditional hot water heater).
- › Nearly instantaneous production of hot water, without requiring additional electric power for the water disinfection cycle.

This new ECH₂O domestic hot water heat pump consumes **up to 3 times less electricity** than a traditional electric hot water heater.



Future proof: connect to solar energy for greater savings

Easily connect your hot water storage to drain-back solar collectors installed on your roof. Every domestic hot water heat pump comes with factory-installed solar piping outlets.

A drain-back system:

- › Provides excellent heat-exchange performance.
- › Is simple to install and easy to maintain.

Tip: If your configuration does not allow for the installation of self-draining solar collectors, a 500L domestic hot water tank can be combined with pressurised solar panels.



300 L model



500 L model

Class A+ efficiency labels

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



A smart product

Your Daikin domestic hot water heat pump is "Smart Grid Ready". It is designed to use computer technology to maximise the production, distribution and use of electricity. Your domestic hot water heat pump communicates with your "intelligent" electric meter and automatically determines the least expensive times for producing the energy required to meet your hot water needs.

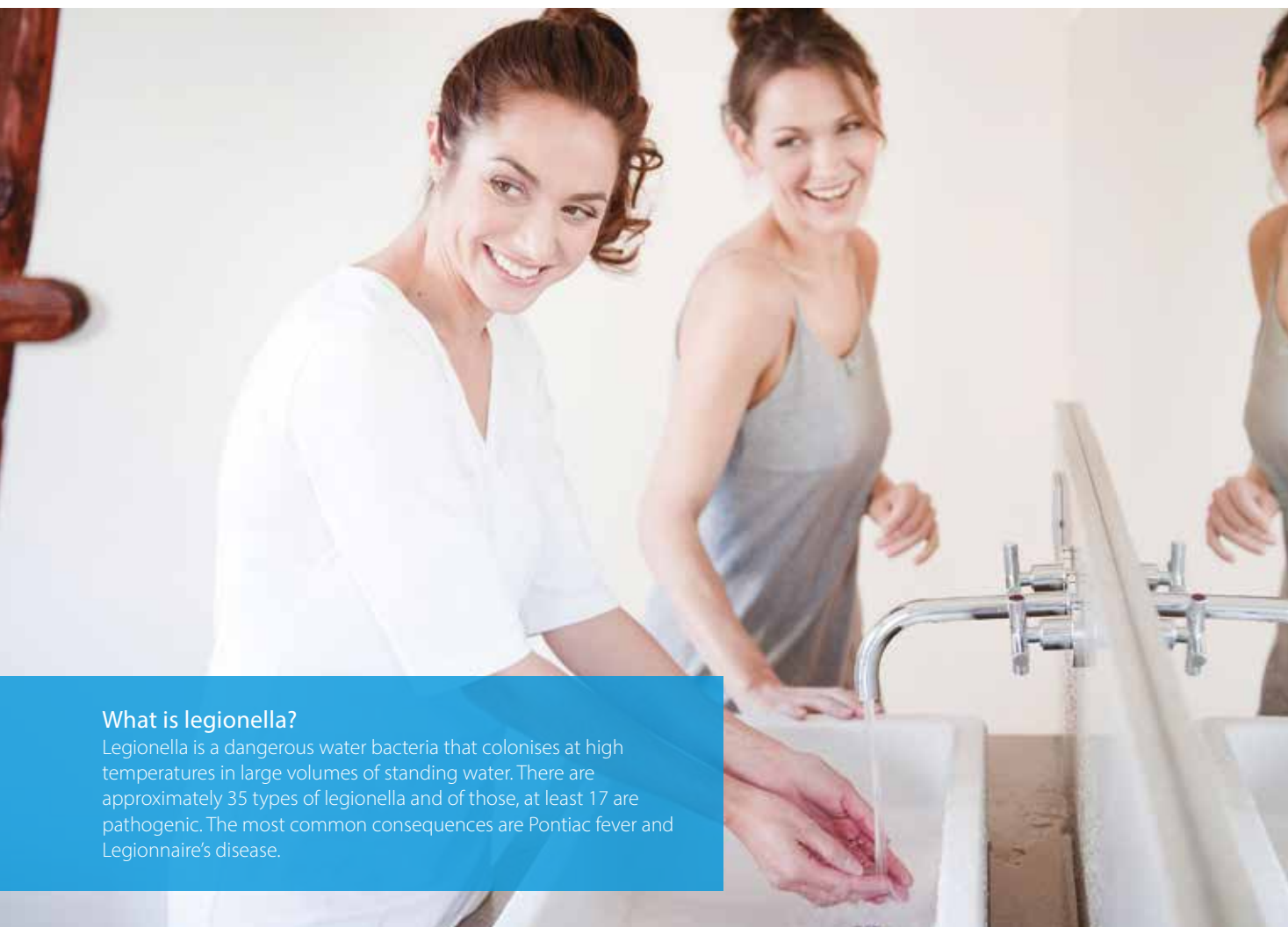
A closer look at fresh hot water production

Unlike traditional hot water heaters, your hot water does not stay in the storage tank; it is heated instantly as it passes through the tank.

Safe hot water

Eliminating prolonged hot water storage significantly increases the safety and quality of your hot water. Our ECH₂O domestic hot water heat pump is designed with an anti-legionella thermal store, so that your hot water is fresh and healthy.

- › Unit design ensures that deposits of sludge, rust, sediments and legionella are not possible.
- › Engineered piping system and nearly instantaneous hot water production eliminates large volumes of standing hot water.
- › Stainless steel heat exchanger eliminates the risk of calcium deposits.



What is legionella?

Legionella is a dangerous water bacteria that colonises at high temperatures in large volumes of standing water. There are approximately 35 types of legionella and of those, at least 17 are pathogenic. The most common consequences are Pontiac fever and Legionnaire's disease.

Trouble-free installation and maintenance-free tank

The compact design of the heat pump and hot water storage without an expansion vessel allow for easy installation and maintenance in all spaces.

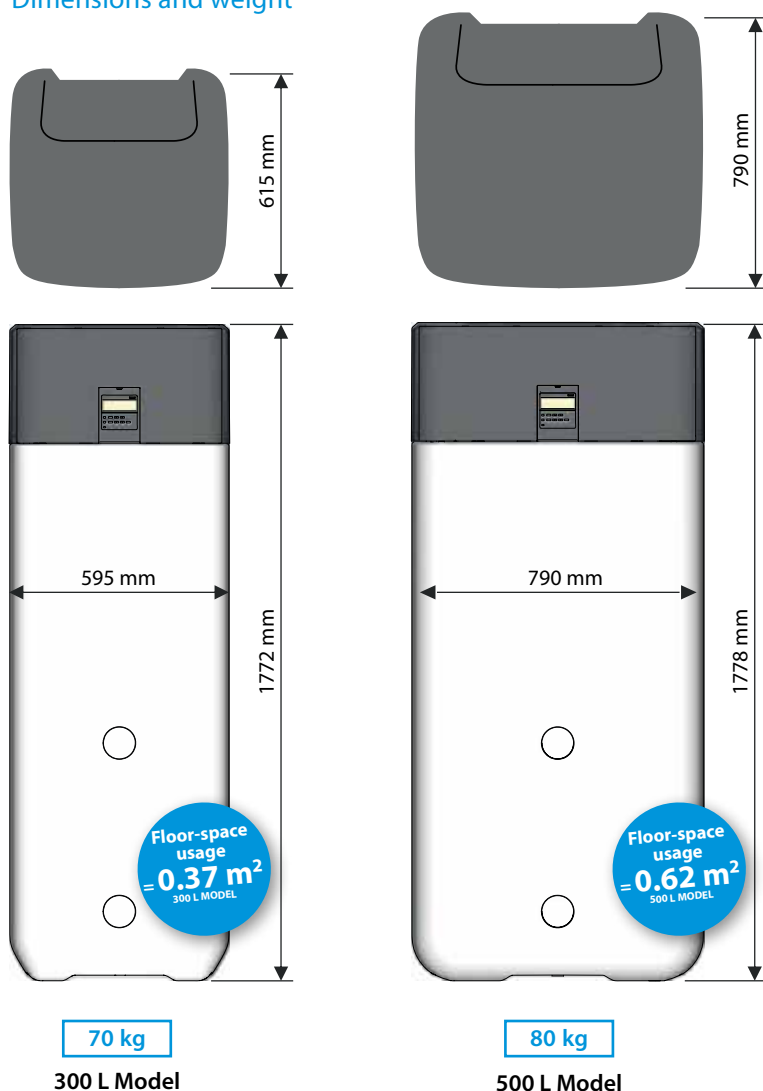
Easy installation

- › Plate-based heat exchanger requires no expansion tank or expansion system.
- › Both models are compact in size and require the same footprint as for a home refrigerator.
- › All main components of the hot water storage tank (refrigerant connections, electric booster, water connections and user interface) are installed at the top of the tank for easy access.

Maintenance-free

- › Use of polypropylene insulation guarantees durability and resistance to impact.
- › A drainage outlet at the top prevents over-filling.
- › Equipment wear is reduced without the long-term storage of hot water.

Dimensions and weight



EKHHP-A2V3 + ERWQ-AV3

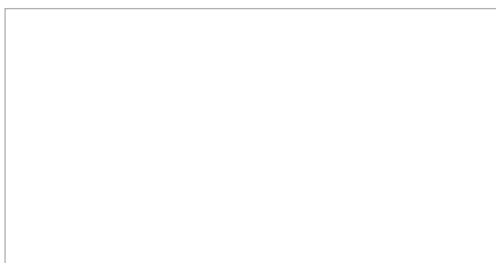


Efficiency data				EKHHP + ERWQ	300AC2V3 + 02AAV3	500AC2V3 + 02AAV3
COP					-	
Domestic hot water heating	General	Declared load profile			L	XL
	Average climate	η_{wh} (water heating efficiency)	%		119	124
		Water heating energy efficiency class			A+	

Indoor Unit				EKHHP	300AC2V3	500AC2V3
Casing	Colour	Traffic white (RAL9016) / Dark grey (RAL7011)				
Dimensions	Unit	HeightxWidthxDepth	mm	1,772x595x615	1,778x790x790	
Weight	Unit		kg	70	80	
Tank	Water volume		l	294	477	
	Maximum water temperature		°C	85		
Operation range	Domestic hot water	Ambient	Min.~Max.	°CDB		
		Water side	Min.~Max.	°C		
Refrigerant	Type	R-410A				
Sound power level	Nom.	dBA				
				39		

Outdoor Unit				ERWQ	02AAV3	
Dimensions	Unit	HeightxWidthxDepth	mm	550x765x285		
Weight	Unit		kg	35		
Compressor	Quantity	1				
	Type	Hermetically sealed swing compressor				
Operation range	Domestic hot water	Min.~Max.	°CDB			
Refrigerant	Type	R-410A				
	GWP	2,087.5				
	Charge	TCO ₂ eq	2.2			
Sound power level	Nom.	dBA				
Power supply	Name/Phase/Frequency/Voltage	Hz/V				
				61		
				V3/1~/50/230		

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