

DOMESTIC WATER HEAT PUMPS







Heat pumps for Orca water heating systems enable savings of up to 75% per year¹ and can operate at external air temperatures of -10°C. What's more, an additional space can be cooled with our heat pumps.



HIGH C.O.P. -UP TO 4.5

C.O.P. (coefficient of performance) is a rating which tells us how much heat is produced compared to the amount of electricity used



ENERGY CLASS A

Energy classification is standardised throughout most of the world and, simply put, demonstrates how economical a device is.



Manufactured in Europe according to highest standards.



QUICK AND PROFESSIONAL MAINTENANCE

Our reliable service network ensures quick and professional maintenance.

ORCA WAVE SERIES



FOR VERY LOW COSTS

Orca Wave shows its true power at very low temperatures, as it

can heat water at external air temperatures of -10°C. Orca Wave also features a 300 litre hot water tank.

Orca Wave reaches very high C.O.P. values, meaning that it uses energy from air extremely efficiently. Big savings can also be made on the coldest winter days.

Orca Wave does not only pride itself on splendid technical qualities but also offers marvelous design, silent operation and simple, user-friendly regulation.

- Operation possible even at -10 °C.
- Two time intervals for even bigger savings and using overnight rates.
- Guided air and cooling option for different rooms (e.g. a pantry).
- Exterior exchanger prevents scale formation.
- Anti-Legionella protection helps keep water clean.
- Options for connection to different heating systems (heating oil, wood, pellets or solar system).
- Options for connection to photovoltaic and solar systems.

WAVE 300 CONNECTION BLUEPRINT Product number 10782 (1 heat exchanger) Wave WSW 300 10979 (2 heat exchangers) 125 mm 25 cm Operational area of the compressor -10~35 °C 2 365 mm 730 mm 300 L Hot water tank volume 840 mm Max. temperature of output water 60°C 905 mm LEFT SIDE Heat output 1800 W 970 mm Max. heat output 3600 W 1180 mm Output of the electric heater 1800 W 1270 mm C.O.P. (EN 255-3) A20/W15-W45 4.5 G/H 1820 mm Dimensions (w×d×H) 670×780×1820 10 780 mm Type of compressor Hitachi - rotary Cold water connection (Z) Ø 475 W Compressor consumption Heating coil - backflow (N) Rated current of the compressor 2.3 A Magnesium anode Refrigerant R134a D Heating coil - inflow (N) 230 V / 1 Ph / 50 Hz Electricity supply Circulation (N) Required fuse 16 A Magnesium anode 48 dB(A) Noise level Electric heater G Airflow 500 m³ Heating coil (2) Available pressure 60 Pa 10 Backflow (N) (option) Diameter of air pipe 190 mm Heating coil (2) Max. length of air pipe 10 m Inflow (N) (option) 3/4" Dimensions of water connections Hot water connection (Z) Min. / Max. water pressure 0.15 MPa / 0.6 MPa All connections are 3/4" Mg. Anode 2x Safety fuse (N) – Internal thread (Z) – External thread Net weight (with 1 heat exchanger) 140 kg Surface heat exchanger 1 m² Surface heat exchanger (optional) 0.5 m²

ORCA ZEUS SERIES

viac ako**75%** ROČNÁ ÚSPORA

C.O.P. 4.3 ZEUS MODEL EN 255-3 (A20/W15-45)

5 ROKOV ZÁRUKA

WHEN AVAILABLE SPACE IS AT A MINIMUM

Orca Zeus is ideal when there is little room is available.

Despite taking up very little space, these devices produce a fantastic yield and high power output in low temperatures. They also operate silently.

The Orca Zeus Series is very costeffective because it can reduce water heating costs by up to 75% with a relatively small investment.

Brilliant heating properties are complemented by two hot water tanks of different sizes, meaning they can be adjusted for smaller or larger households.

Beautiful design with simple controls which can be mastered in minutes.

- Available in two sizes: 300 and 230 litre hot water tanks which are very space-efficient.
- Two time intervals for even bigger savings and using overnight rates.
- Guided air and cooling option for different rooms (e.g. a pantry).
- Exterior exchanger prevents scale formation.
- Anti-legionella protection helps keep water clean.
- Options for connection to different heating systems (heating oil, wood, pellets or solar system).



	ZEUS 230	ZEUS 300	CONNECTION BLUEPRINT				
	10973(No heat exchar výmenník NIE exchanger), 10806(1 heat exchanger),				Zeus ZSW 230 125 mm	Zeus ZSW 300 125 mm	
	10000(Theateachanger),	10981(2 heat exchangers)	₩	2	365 mm	365 mm	
Operational area of the compressor	-3~35°C	-3~35°C	8.	3	730 mm	730 mm	
hot water tank volume	230 L	300 L		4	830 mm	840 mm	
		60 °C		5	745 mm	905 mm	
Max. temperature of output water	60 °C		LEFT SIDE	6	/	970 mm	
Heat output	1800 W	1800 W	/J	7	1	1180 mm	
Max. heat output	8600 W	3600 W		8	980 mm	1270 mm	
Output of the electric heater	1800 W	1800 W		9	1550 mm	1820 mm	
C.O.P. (EN 255-3) A20/W15-W45	4.3	4.3	G / H	10	670 mm	670 mm	
Dimensions (W/H)	ø670×1550	ø670×1820		1			
Type of compressor	Hitachi - rotary	Hitachi - rotary		A	Cold water conn		
Compressor consumption	475 W	475 W		В	Heating coil - ba		
Rated current of the compressor	2.3 A	2.3 A	עי וווווו	C	Magnesium ano		
Refrigerant	R134a	R134a		D	Heating coil - inf	low (N)	
Electricity supply	230 V / 1 Ph / 50 Hz	230 V / 1 Ph / 50 Hz		E	Circulation (N)		
Required fuse	16 A	16 A	8765432 /A	F	Magnesium ano	de	
Hlučnosť	48 dB(A)	48 dB(A)		G	Electric heater		
Airflow	350 m³	350 m ³	····· + + + + + + + + + + + + + + + + +	∔ H	/	Heating coil (2)	
Available pressure	60 Pa	60 Pa	10			Backflow (N)	
Diameter of air pipe	150 mm	150 mm				(option)	
Max. length of air pipe	10 m	10 m		I	/	Heating coil (2)	
Dimensions of water connections	3/4"	3/4"				Inflow (N)	
Min. / Max. water pressure	0.15 MPa / 0.6 MPa	0.15 MPa / 0.6 MPa			U-ttor conne	(option)	
Safety fuse	Mg. Anode 2x	Mg. Anode 2x		J	Hot water conne		
Net weight (with 1 heat exchanger)	110 kg	130 kg			onnections are 3/ - Internal thread	4"	
Surface heat exchanger	0.5 m², (10973 None)	1 m², (10980 None)			- External thread		

ORCA WAVE COMPOSITE SPA ORCA ZEUS COMPOSITE SERIES

WHEN YOU WANT TO KEEP YOUR EXISTING BOILER

Do you already own a hot water tank? Orca Composite

will help you heat water economically. Simply install it next to your existing hot water tank and save money.

Orca Composite is ideal for people who already own a new or a high quality hot water tank.

In such cases you can simply install Orca Composite beside your existing hot water tank, which transforms instantly into an economic heat pump and utilises all the advantages of Orca heat pumps.

- Two time intervals for even bigger savings and using overnight rates.
- A high airflow (500 m³/h) and a large evaporator result in a high C.O.P.
- High-quality rotary compressor from Hitachi.
- Electronic expansion valve.
- Anti-legionella protection helps keep water clean.





COMING OUT IN 2015: WAVE COMPOSITE SPA!

Whirlpool bathtubs are an excellent solution if you wish to relax in the comfort of your own bathroom – with very low expenses. **Wave Composite**Spa uses a special stainless steel heat exchanger specifically designed for this purpose.

	ZEUS COMPOSITE 2KW	ZEUS COMPOSITE 3KW	WAVE COMPOSITE 2KW	WAVE COMPOSITE 3KW	CONNECTION BLUEPRINT			
Product number	10781	11253	11212	11254	D= 670			
Operational area of the compressor	-10~35 °C	-3~35 °C	-10~35 °C	-3~35 °C	A B			
Hot water tank volume	200-300 L	400-500 L	200-300 L	400-500 L				
Max. temperature of output water	55 °C	55 °C	55 °C	55 °C	Zeus Composite A Air inlet			
Heat output	1800 W	2800 W	1800 W	2800 W	A Air inlet			
Highest available power of electric heater	2000 W	2000 W	2000 W	2000 W	C Condensate			
C.O.P. (EN 255-3) A20/W15-W45	4.2	4.1	4.2	4.1	drainage \$			
Dimensions (W/H)	ø670×500	ø670×500	600×550×450	600×550×450	D System water			
Type of compressor	Hitachi - rotary	Hitachi - rotary	Hitachi - rotary	Hitachi - rotary	backflow 3/4" Wall			
Compressor consumption	475 W	695 W	475 W	695 W	E System water C			
Rated current of the compressor	2.3 A	3.2 A	2.3 A	3.2 A	outlet 3/4"			
Refrigerant	R134a	R134a	R134a	R134a				
Electricity supply	230 V / 1 Ph / 50 Hz							
Required fuse	16 A	16 A	16 A	16 A				
Noise level	48 dB(A)	48 dB(A)	48 dB(A)	48 dB(A)				
Airflow	350 m³	350 m ³	500 m ³	500 m ³	"" IMAGE OF CONDENSATE VESSEL WITH CONNECTIONS ON TOP			
Available pressure	60 Pa	60 Pa	60 Pa	60 Pa				
Diameter of air pipe	150 mm	150 mm	150 mm	150 mm	Wave Composite Rear side			
Max. length of air pipe	10 m	10 m	10 m	10 m	A Condensate			
Dimensions of water connections	3/4"	3/4"	3/4"	3/4"	drainage 8 B.C A			
Min. / Max. water pressure	0.05 / 0.3 MPa	B System water backflow 3/4" D Top						
Net weight	45 kg	49 kg	55 kg	59 kg	+ 10			
Minimum surface	0.5 m ²	1 m ²	0.5 m ²	1 m ²	C System water A E			



Orcas are sociable animals which take great care of their families. They behave so very much like humans that certain tribes believed that human souls were trapped in these beautiful animals. Orcas don't mind the heat or the cold. They live in the extreme cold of the Arctic Sea as well as in the tropical seas near the equator. Despite the cold or the heat, they hunt, socialize and love.

FREEDOM

You and your family wish to be just as free and independent from weather conditions. And financially as well? Because we share your wishes and values we have given our company the name of this powerful and free sea creature.

QUALITY

We have top experts from the field of cost-efficient heating working in our development labs, designing the flawless production of heating and cooling systems with advanced technologies and pinpoint precision. To consistently maintain quality, our systems are manufactured in the EU. We are aware that purchasing our heating and cooling systems represents a long term investment for you, and that is why we keep the flawless operation of our devices in mind, from the first sketch to the final product.

ENVIRONMENT

We use green energy sources for our products, and we are very responsible towards the local and global environment. Together we can make a small step towards fighting climate change, which endangers humanity and the oceans of our symbol – the orca.

Remarks

1 ZEUS and WAVE heat pumps use electricity for their operation. Taking into account the coefficient of performance A20, W15-45: 4.2 our heat pumps use 0.238kW of electricity to produce 1 kW of heat. In comparison, typical electric radiators use 1 kW of electricity to produce 1 kW of heat. This means that with ZEUS and WAVE heat pumps, power consumption can be reduced by 76.2% (and reduce heating costs by up to 75%).

Your seller

A small change. Big savings. www.orcaenergy.eu