

DOMESTIC WATER HEAT PUMPS

Product catalogue 2015



**A small change.
Big savings.**



REDUCE
COSTS
by up to **75%**

Savings and comfort

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 ACCORDING TO HIGHEST EU STANDARDS

Manufactured in Europe according to highest standards.

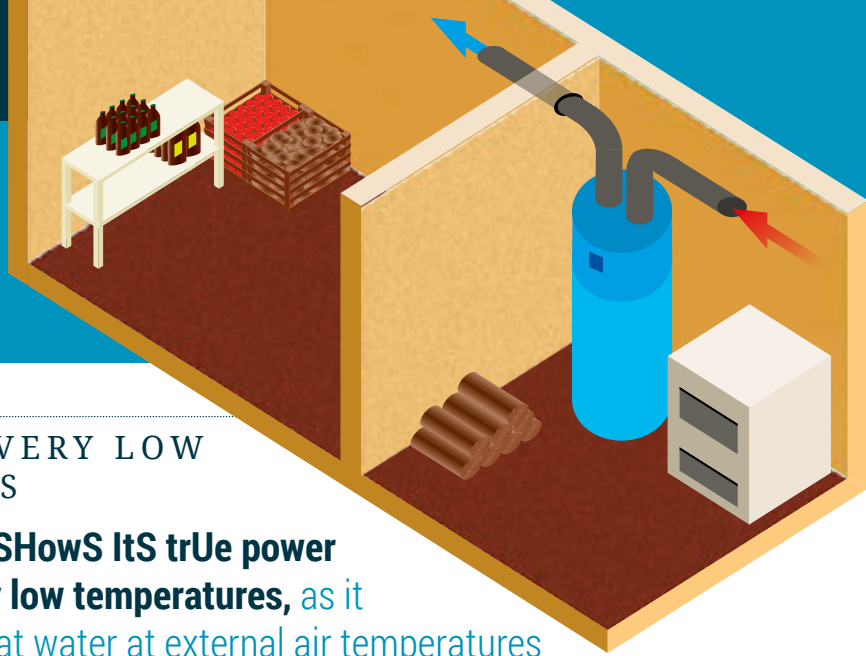


QUICK AND PROFESSIONAL MAINTENANCE

Our reliable service network ensures quick and professional maintenance.

DOMESTIC WATER HEAT PUMPS
WITH A BUILT-IN HOT WATER TANK

WAVE SERIES



FOR VERY LOW COSTS

WaVe SHows Its trUe power at very low temperatures, as it can heat water at external air temperatures of -10°C. Wave also features a 300 litre hot water tank.

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

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.

C.O.P. 4.5
WAVE MODEL
EN 255/3
(A20/W15/W45)

UP TO -10°C
EXTERNAL AIR
TEMPERATURE
WAVE MODEL

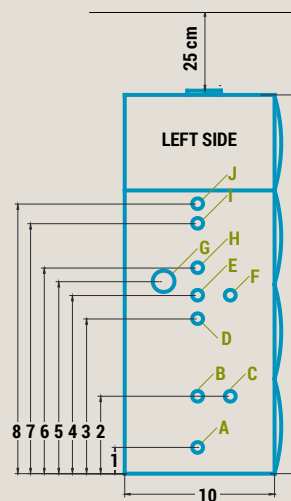
**SG
READY**

**5 YEAR
WARRANTY
ON HOT WATER
TANK**

WAVE 300

CONNECTION BLUEPRINT

Product number	10782 (1 heat exchanger) 10979 (2 heat exchangers)
Operational area of the compressor	-10~35 °C
Hot water tank volume	300 L
Max. temperature of output water	60 °C
Heat output	1800 W
Max. heat output	3600 W
Output of the electric heater	1800 W
C.O.P. (EN 255-3) A20/W15-W45	4.5
Dimensions (w×d×H)	670×780×1820
Type of compressor	Hitachi - Rotations
Compressor consumption	475 W
Rated current of the compressor	2.3 A
Refrigerant	R134a
Electricity supply	230 V / 1 Ph / 50 Hz
Required fuse	16 A
Noise level	48 dB(A)
Airflow	500 m ³
Available pressure	60 Pa
Diameter of air pipe	190 mm
Max. length of air pipe	10 m
Dimensions of water connections	3/4"
Min. / Max. water pressure	0.15 MPa / 0.6 MPa
Safety fuse	Mg. Anode 2x
Net weight (with 1 heat exchanger)	140 kg
Surface heat exchanger	1 m ²
Surface heat exchanger (optional)	0.5 m ²



Wave WSW 300

1	125 mm
2	365 mm
3	730 mm
4	840 mm
5	905 mm
6	970 mm
7	1180 mm
8	1270 mm
9	1820 mm
10	780 mm
A	Cold water connection (Z)
B	Heating coil – backflow (N)
C	Magnesium anode
D	Heating coil – inflow (N)
E	Circulation (N)
F	Magnesium anode
G	Electric heater
H	Heating coil (2) Backflow (N) (option)
I	Heating coil (2) Inflow (N) (option)
J	Hot water connection (Z)

All connections are 3/4"
(N) – Internal thread
(Z) – External thread

ZEUS SERIES



WHEN AVAILABLE SPACE IS AT A PREMIUM
ZeUS IS Ideal wHeN oNly lIttle room IS aVailable.

Zeus is ideal when there is little room 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 Zeus Series is very cost-effective 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).

UP TO **75%**
ANNUAL
SAVINGS¹

C.O.P. 4.3

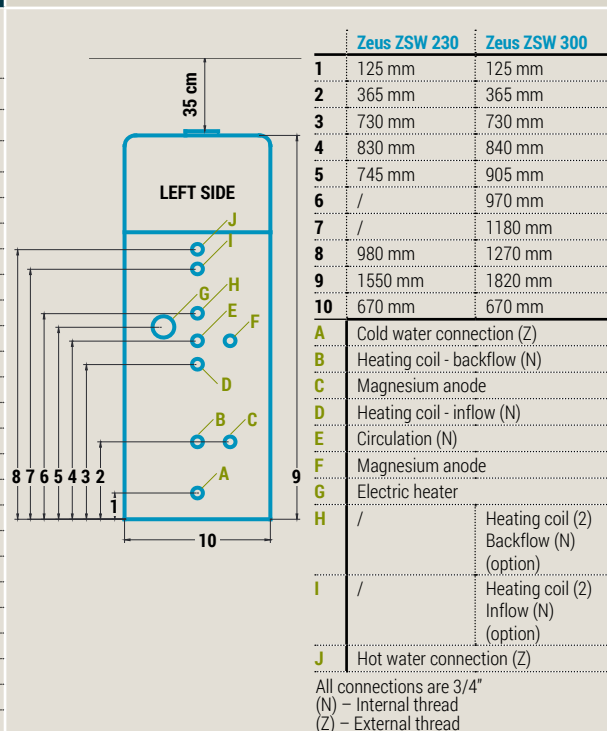
ZEUS MODEL
EN 255-3
(A20/W15-45)

ACTIVE
LEGIONELLA
PROTECTION

5 YEAR
WARRANTY
ON HOT WATER
TANK

	ZEUS 230	ZEUS 300
Product number	10973 (No heat exchanger) 10783 (1 heat exchanger)	10980 (No heat exchanger), 10806 (1 heat exchanger), 10981 (2 heat exchangers)
Operational area of the compressor	-3~35 °C	-3~35 °C
Hot water tank volume	230 L	300 L
Max. temperature of output water	60 °C	60 °C
Heat output	1800 W	1800 W
Max. heat output	3600 W	3600 W
Output of the electric heater	1800 W	1800 W
C.O.P. (EN 255-3) A20/W15-W45	4.3	4.3
Dimensions (W/H)	ø670×1550	ø670×1820
Type of compressor	Hitachi - Rotations	Hitachi - Rotations
Compressor consumption	475 W	475 W
Rated current of the compressor	2.3 A	2.3 A
Refrigerant	R134a	R134a
Electricity supply	230 V / 1 Ph / 50 Hz	230 V / 1 Ph / 50 Hz
Required fuse	16 A	16 A
Noise level	48 dB(A)	48 dB(A)
Airflow	350 m ³	350 m ³
Available pressure	60 Pa	60 Pa
Diameter of air pipe	150 mm	150 mm
Max. length of air pipe	10 m	10 m
Dimensions of water connections	3/4"	3/4"
Min. / Max. water pressure	0.15 MPa / 0.6 MPa	0.15 MPa / 0.6 MPa
Safety fuse	Mg. Anode 2x	Mg. Anode 2x
Net weight (with 1 heat exchanger)	110 kg	130 kg
Surface heat exchanger	0.5 m ² , (10973 None)	1 m ² , (10980 None)
Surface heat exchanger (optional)	/	0.5 m ² (10981)

CONNECTION BLUEPRINT



WAVE COMPOSITE SPA ZEUS COMPOSITE SERIES

WHEN YOU WANT TO KEEP YOUR EXISTING BOILER

Do you already own a Hot water tank? Composite will help you heat water economically. Simply install it next to your existing hot water tank and save money.

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

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



	ZEUS COMPOSITE	WAVE COMPOSITE
Product number	10781	11212
Operational area of the compressor	-10~35 °C	-10~35 °C
Hot water tank volume	150-300 L	150-300 L
Max. temperature of output water	55 °C	55 °C
Heat output	1800 W	1800 W
Highest available power of electric heater	2000 W	2000 W
C.O.P. (EN 255-3) A20/W15-W45	4.2	4.2
Dimensions (W/H)	ø670×500	600×550×450
Type of compressor	Hitachi - Rotations	Hitachi - Rotations
Compressor consumption	475 W	475 W
Rated current of the compressor	2.3 A	2.3 A
Refrigerant	R134a	R134a
Electricity supply	230 V / 1 Ph / 50 Hz	230 V / 1 Ph / 50 Hz
Required fuse	16 A	16 A
Noise level	48 dB(A)	48 dB(A)
Airflow	350 m ³	500 m ³
Available pressure	60 Pa	60 Pa
Diameter of air pipe	150 mm	150 mm
Max. length of air pipe	10 m	10 m
Dimensions of water connections	3/4"	3/4"
Min. / Max. water pressure	0.15 MPa / 0.3 MPa	0.15 MPa / 0.3 MPa
Net weight	45 kg	55 kg
Minimum surface	0.5 m ²	0.5 m ²

CONNECTION SCHEME

Zeus Composite

A	Air inlet
B	Air outlet
C	Condensate drainage
D	System water backflow 3/4"
E	System water outlet 3/4"

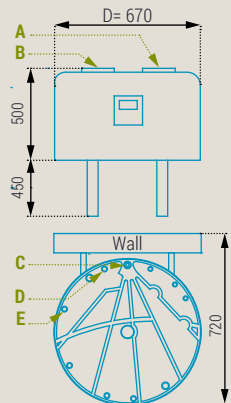


IMAGE OF CONDENSATE VESSEL WITH CONNECTIONS ON TOP

Wave Composite

A	Condensate drainage
B	System water backflow 3/4"
C	System water outlet 3/4"

