



INDOOR INSTALLATION

Ground Source Heat Pumps



HEAT PUMPS

**AlphaWeb
compatible**
control your heat pump
over the Internet!



Heating



Cooling



Domestic
hot water



SWC 100H

COMPACT HEAT PUMP

Maximum performance with the smallest footprint

The high performance Compact Series is ideal for those who need a wider choice of outputs and configuration options.

The Heat Pump

The Compact Series ground source heat pumps have a range of outputs from 6 to 33 kW. The high degree of integration offered by these systems makes planning and installation a straightforward process.

Compact means:

Most of the components required to complete the installation are contained within the system, factory fitted and perfectly matched. This has many benefits including faster installation, greater safety and reliability and also means that less space is taken up compared with many alternative heat pump systems.

Domestic Hot Water Supply

The SWC series can also be connected to one of our high performance hot water cylinders. These come in a range of sizes from 200 to 500 l. The specially designed, high surface area coils of these cylinders ensure the highest level of performance when coupled to a heat pump.



Selected Alpha-InnoTec heat pumps have the European quality label

Compact Brine/Water Heat Pumps SWC (Device with passive cooling)	Unit	SWC 60H (SWC 60H/K)*	SWC 60H/S	SWC 70H (SWC 70H/K)*	SWC 80H (SWC 80H/K)*	SWC 80H/S	SWC 100H (SWC 100H/K)*	SWC 100H/S	SWC 120H (SWC 120H/K)*
Performance data Heating performance/COP at									
BO/W35 according to EN14511	2 compressors	kW / -	-	-	-	-	-	-	-
	1 compressor	kW / -	5.7 / 4.4	7.2 / 4.4	6.9 / 4.4	8.9 / 4.5	9.2 / 4.5	10.2 / 4.6	10.4 / 4.4
BO/W35 according to EN255	2 compressors	kW / -	-	-	-	-	-	-	-
	1 compressor	kW / -	5.8 / 4.7	7.3 / 4.6	7.0 / 4.5	9.1 / 4.7	9.3 / 4.7	10.3 / 4.7	10.5 / 4.6
Operating limits									
Flow temperature operating limits	°C	20 to 65	20 to 65	20 to 65	20 to 65	20 to 65	20 to 65	20 to 65	20 to 62
Brine temperature operating limits	°C	-5 to 25	-5 to 25	-5 to 25	-5 to 25	-5 to 25	-5 to 25	-5 to 25	-5 to 25
General device data									
Dimensions: width x depth x height	mm	650 x 500 x 1550							
Weight, incl. transportation packing	kg (kg)*	200 (214)*	200	202 (216)*	203 (218)*	203	206 (221)*	206	209 (224)*
Quantity	- / kg	R407c / 1.8	R407c / 1.7	R407c / 2.1	R407c / 2.1	R407c / 1.9	R407c / 2.3	R407c / 2.2	R407c / 2.99
Heat Pump									
max. operating current WP	A	4.0	12.7	5.0	5.9	16.1	6.9	19.1	7.5
Integrated electric heating element	kW	6 / 4 / 2	6	6 / 4 / 2	6 / 4 / 2	6	6 / 4 / 2	6	6 / 4 / 2
Electrical connection	V	400	230	400	400	230	400	230	400

* Device with passive cooling

Compact Heat Pump SWC



Ground collector



Drilling of vertical boreholes

Overview

- 6 to 33 kW ground source heat pumps
- Optional Freecooling
- Very quiet operation
- Flow temperature up to 65 °C (H-devices)
- Flow temperature up to 55 °C (others)
- Easy to install
- Small footprint
- Possibility of internet connection

Preinstalled and supplied components:

Luxtronik 2.0 heat pump and heating system controller, heating system and domestic hot water circulation pump, heating circuit overflow valve, electric heating element (except SWC 230 and SWC 330), optional hydraulic system for Freecooling*, circulation pump for ground collector, expansion vessels for collector and heating circuit, safety valves for collector and heating circuit.

Control

The SWC systems are fitted with a Luxtronik 2.0 ,Turn & Tip controller. Features: Screed heating program, intelligent control clock, domestic hot water, USB connection (to download data), network interface (enables remote control and monitoring of the system over the internet).

Installation

The high degree of integration ensures minimal installation effort on site. Simply make the required connections, switch on and you're up and running.



Selected Alpha-InnoTec heat pumps have the European quality label

Compact Brine/Water Heat Pumps SWC (Device with passive cooling)	Unit	SWC120/S	SWC140H (SWC140H/K)*	SWC140/S	SWC170H (SWC170H/K)*	SWC230 (SWC230K)*	SWC330 (SWC330K)*
Performance data Heating performance/COP at							
BO/W35 according to EN14511	2 compressors	kW / -	-	-	-	-	31.8 / 4.1
	1 compressor	kW / -	11.7 / 4.6	13.7 / 4.5	14.5 / 4.4	16.7 / 4.6	22.1 / 4.3
BO/W35 according to EN255	2 compressors	kW / -	-	-	-	-	32.0 / 4.3
	1 compressor	kW / -	11.9 / 4.8	13.9 / 4.7	14.7 / 4.6	16.9 / 4.7	22.5 / 4.5
Operating limits							
Flow temperature operating limits	°C	20 to 55	20 to 65	20 to 55	20 to 65	20 to 55	20 to 55
Brine temperature operating limits	°C	-5 to 25	-5 to 25	-5 to 25	-5 to 25	-5 to 25	-5 to 25
General device data							
Dimensions: width x depth x height	mm	650 x 500 x 1550				750 x 650 x 1650	
Weight. incl. transportation packing	kg (kg)*	209	212 (227)*	212	220 (235)*	345 (360)*	372 (390)*
Quantity	- / kg	R407c / 2.4	R407c / 2.99	R407c / 2.7	R407c / 3.8	R407c / 4.45	R407c / 6.85
Heat Pump							
max. operating current WP	A	22.0	9.4	26.3	11.0	12.5	23.6
Integrated electric heating element	kW	6	9 / 6 / 3	9	9 / 6 / 3	- / - / -	- / - / -
Electrical connection	V	230	400	230	400	400	400

* Device with passive cooling

HEAT STATION WZ S

Top marks for performance, quality and ergonomics

Heat Station WZ S	Unit	WZ S 61H	WZ S 60H/S	WZ S 61H/K	WZ S 81H	WZ S 80H/S	WZ S 81H/K	WZ S 101H	WZ S 100H/S	WZ S 101H/K	
Integrated passive cooling		no	no	yes	no	no	yes	no	no	yes	
Performance data Heating performance/COP at											
Bo/W35 according to EN14511	1 compressor	kW / -	6.0 / 4.6	6.8 / 4.2	6.0 / 4.6	7.7 / 4.6	8.4 / 4.2	7.7 / 4.6	9.6 / 4.7	9.8 / 4.3	9.6 / 4.7
Operating limits											
Heating circuit	°C	20 to 63	20 to 65	20 to 63	20 to 65	20 to 65	20 to 65	20 to 65	20 to 62	20 to 65	
Heat source	°C	-5 to 25	-5 to 25	-5 to 25	-5 to 25	-5 to 25	-5 to 25	-5 to 25	-5 to 25	-5 to 25	
additional operating points		B -3/W65	-	B -3/W65	-	-	-	-	B -5/W65	-	
Noise											
Mean noise level at 1 m distance from the device	db(A)	37	37	37	37	37	37	37	37	37	
General device data											
Dimensions: width x depth x height	mm	600 x 695 x 1920									
Weight, incl. transportation packing	kg	300	300	307	305	305	312	310	310	317	
Domestic hot water tank											
Capacity	l	190	190	190	190	190	190	190	190	190	
Heat pump											
Power consumption at BO/W35 according to EN14511	kW / A	1.3 / 2.6	1.62 / 8,1	1.3 / 2.6	1.67 / 3.2	2.05 / 10,2	1.67 / 3.2	2.04 / 3.8	2.28 / 12,1	2.04 / 3.8	
Integrated electric heating element	kW	6 / 4 / 2	6	6 / 4 / 2	6 / 4 / 2	6	6 / 4 / 2	6 / 4 / 2	6	6 / 4 / 2	
Electrical connection	V	400	230	400	400	230	400	400	230	400	

Heat Station WZ S

The Heat Station is our top-of-the-range heat pump system. Heating, optional cooling (Freecooling), integrated 200 litre domestic hot water cylinder and 65 °C flow temperature, all packed into an attractive, small footprint (0.42 m²) enclosure.

Plug & Heat

The Heat Station concept is already well proven. Alpha-InnoTec and its partners have supplied and installed thousands of these systems to satisfied customers throughout Europe.

Finding a suitable site for installing the Heat Station is made easier due to its small footprint. The high level of integration also simplifies and speeds up the process of installation meaning you can quickly start to enjoy the many benefits of your new heat pump system.

So if you are looking for an economical and environment-friendly heating system that combines high levels of comfort with low running costs then the WZ S Heat Station is the right choice for you.

The Heat Station features an innovative “heat-pump-in-a-box” module that can easily be removed for servicing. It houses the complete refrigeration system, including the condenser and ground collector circulation pump. This design makes the Heat Station considerably quieter than other, already extremely quiet, heat pumps from Alpha-InnoTec. It is one of the quietest heat pumps on the market making it suitable for installation in a kitchen or utility room.

Domestic Hot Water Module

The integrated domestic hot water cylinder with a capacity of 200 litres guarantees a constant supply of hot water at temperatures of up to 55 °C. The cylinder has an integrated “sacrificial anode” to protect it against corrosion ensuring long, maintenance-free operation.

The Heat Pump

The Heat Station comes in three sizes: 6kW, 8kW and 10kW to suit different types of property. As the units are supplied with all the necessary hydraulic components, factory-fitted there is rarely any need for external accessories. In addition because the components are exactly matched to the Heat Station they simplify the initial design process and lower the risk of problems during installation.

Control

The SWC systems are fitted with a state-of-the-art Luxtonik 2.0 “Turn & Tip” controller. Features: Screenshot heating program, intelligent control clock, domestic hot water programmer, USB connection for data downloads, network interface (allows for control of the system remotely over the Internet).

Installation

The heat pump module, which is housed in the base of the system, can be removed for ease of transport and installation. The rest of the system can then be carried horizontally if required for access to the installation site. The connections to the ground collector can be attached to the left or the right of the unit. Service access is from the front only. This enables installation in a corner or directly against a wall.



WZ S 101H



Heating



Cooling



Domestic hot water tank

Overview

- 6, 8 or 10 kW ground source heat pump
- Freecooling option
- Integrated 200 l hot water cylinder
- Up to 65°C flow temperature
- One of the quietest heat pumps available
- Removable heat pump module for ease of transport
- very small footprint (0.42 m²)
- Flexible connection and installation options
- Possibility of internet connection

Super Controller!

Your Alpha-InnoTec heat pump knows exactly when it has to deliver heat. An outdoor temperature sensor sees to that. If it is too cold outside, the heat pump switches on. You can adjust the temperature to your own personal comfort setting using the menu-driven Luxtronik 2.0 heat pump controller. The “jog-dial”, very like those found on satellite navigation systems in cars, makes operation of the heat pump child’s play.

Feel-good comfort at the touch of a button – it couldn’t be easier!



Overview:

- Intuitive operation via jog dial
- Full graphic display with self-explanatory menu functions
- USB connection (for reading out data or for software updates)
- Operation in various languages
- Automatic Summer / Winter switching

Super Convenient!

Together with the Luxtronik 2.0 controller AlphaWeb provides the potential for remote control with no additional hardware or software. Simply connect the heat pump controller to your home broadband network to enable this powerful capability.

Then sign up to the AlphaWeb service to allow access to the heat pump, worldwide, via the Internet. The owner of the heat pump and the installer can then control and monitor the heating system remotely from anywhere using the Internet, even from a smart-phone.

The Heat pump meets the Internet!



Overview:

- Facility for remote trouble-shooting
- Fault messaging by text message, E-mail or fax
- Adjustment of the heat pump settings possible on-line



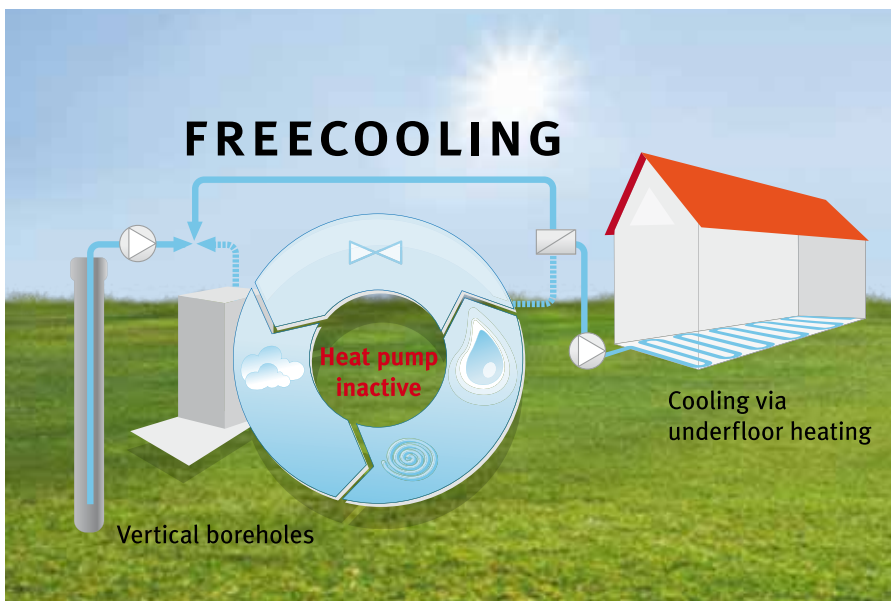
STAY COOL

Optional Freecooling

Keep cool in the hot summer months with Freecooling

One of the unique capabilities of a ground source heat pump system with boreholes is its ability to offer cooling as well as heating. In the summer the ground is used as a source of chilled water to help cool down your home via the under floor heating system. Cool water from the ground collector (10-14 °C) is passed through a heat exchanger inside the system. The other side of the heat exchanger is linked to the under floor heating coils.

The heat pump itself is switched off, only the circulation pumps for the ground collector and heating circuits are running making this a cost effective and environmentally friendly form of cooling. All Heat Station and Compact series heat pumps are available with the optional, integrated cooling function.*



The advantages of Freecooling

- Works with the under floor heating circuit
- No fans- silent operation
- Low installation costs
- Low operating costs
- Environmentally friendly

*Important: cannot be retrofitted

Alpha-InnoTec Heat Pumps are the right choice!



Selected Alpha-InnoTec heat pumps
have the European quality label.
For more information:
www.alpha-innotec.de/guetesiegel



Alpha-InnoTec is a member of:
The Federal Association of Heat Pumps (BWP) e.V.
European Heat Pump Association (EHPA)
FWS Swiss Association for promotion of Heat Pumps



Alpha-InnoTec product manu-
facturing is monitored by TÜV



Alpha-InnoTec products
carry the CE-label



Alpha-InnoTec is certified according to
ISO 9001 (quality) and ISO 14001 (environment)



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Subject to technical changes and amendments of device dimensions.



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