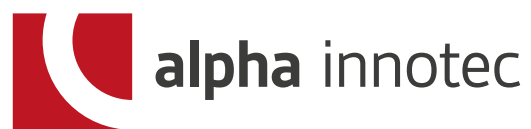


the better way to heat



GROUND SOURCE HEAT PUMPS

alterra

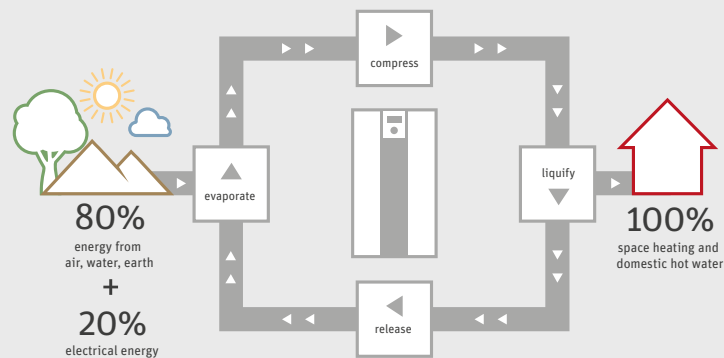
The better way
to use energy out of the ground!

www.alpha-innotec.com

the better way to heat

The heat pump as a highly-efficient heat generator supports the idea of ecological sustainability.

Through intelligent use of the ground, air and water as freely available renewable energy sources, the heat pump makes an active contribution to environment protection and at the same time makes you, the user, independent of fossil fuels and finite energy sources when heating and cooling. For new building, refurbishing and modernisation – thanks to intelligent operating concepts and the possibilities for combination with other renewable energy such as photovoltaics or solar thermal energy, with a heat pump you are making the right choice.



*The principle of a heat pump: To use nature's energy sustainably.
Example of a ground source heat pump.*



alpha innotec head office in Kasendorf, Germany.

alpha innotec

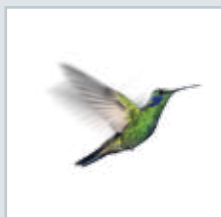
Continuous product development in our own research and development centre and many years of experience in the field of energy-efficient solutions gives you the security to have made the right decision by purchasing an alpha innotec product.

Our heat pumps stand for quality, innovation, easy installation and use and reliable operation. With a wide

range of products for every application, every property size and every requirement, you opt for a quality product which fulfils your precise needs.

Thanks to independence from fossil and finite energy sources and the high energy efficiency of heat pumps, alpha innotec is a brand which places great value on ecological and economic sustainability.

The hummingbird and alpha innotec's new alterra ground source heat pump generation have much in common.



Fast, adaptable, ultra-silent and yet very energy efficient

Output on call.

Speed: 385 body lengths per second (27.3 m/s)

An energy-saver.

By adapting its heart rate and body temperature, the hummingbird can reduce its metabolism to such an extent that it can cover a distance of 800 km on a consumption of a mere 2 grams of nectar.

Very quiet moving.

With a frequency of 40 to 50 flaps per second, the hummingbird is also almost noiseless.

Explanation of the symbols used



Heating



Flow temperature



Smart Grid Ready



Homeowners



Hot water preparation integrated



Web/App capability



Modulating



Installers



Cooling



Ready for photovoltaics



EHPA
(many items of alpha innotec have the EHPA cachet)



Solar thermal energy



Energy efficiency class
(example for selected items of the series in conjunction with controller)

Product overview

The new alterra ground source heat pump generation



**Ground source heat station
PWZS**

- Small space requirement - heating and domestic hot water preparation in one unit
- Incl. stainless steel hot water tank, hydraulics and heat pump module
- Flow temperatures up to +65 °C
- Heating capacity / supply voltage:
4 – 12 kW, 3 ~ 400 V
4 – 13 kW, 1 ~ 230 V

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**Ground source heat station
WZS/WZSV**

- Small space requirement - heating and domestic hot water preparation in one unit
- Optionally with integrated cooling, frequency-controlled versions available
- Incl. enamel hot water tank, hydraulics and heat pump module
- Flow temperatures up to +65 °C possible
- Heating capacity / supply voltage:
4 – 12 kW, 3 ~ 400 V
modulating 2 – 16 kW, 3 ~ 400 V

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**Compact ground source heat pump
SWC/SWCV**

- Particularly flexible installation
- Optionally with integrated cooling, modulating versions available
- Incl. hydraulics and heat pump module
- Flow temperatures up to +65 °C possible
- Heating capacity / supply voltage:
4 – 19 kW, 3 ~ 400 V
4 – 13 kW, 1 ~ 230 V
modulating 2 – 16 kW, 3 ~ 400 V

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**Ground source heat pump
SW**

- The power house for your heating system
- Optional cooling via cooling package
- Heat pump module
- Flow temperatures up to +65 °C possible
- Heating capacity / supply voltage:
4 – 19 kW, 3 ~ 400 V
4 – 13 kW, 1 ~ 230 V

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Individual controlling options

All alterra heat pumps are controlled by a new generation of the tried-and-tested Luxtronik 2.1.

Save going to the heat pump! From now on the control unit can now be removed from the heat pump and be controlled conveniently directly from the living room. **Worldwide access!** You can of course also control alterra heat pumps online. Discover the possibilities!

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Modulating versions

The new alpha innotec alterra series now includes a range of modulating ground source heat pumps. These are ideal for changing heat demand, supply the required output reserves and are characterised by their particularly high efficiency.

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alterra series



The space saver

Ground source heat station WZS 4 – 12 kW
modulating WZSV 2 – 16 kW



The flexible

Compact ground source heat pump SWC 4 – 19 kW
modulating SWCV 2 – 16 kW

Truly the most beautiful way to heat.

Why choose a ground source heat pump?

- Very energy-efficient heating technology
- The only heat source, which provides cooling almost for free
- Your own energy source on your own property
- Independent of fossil energy sources
- Active contribution to climate protection
- Durable, safe technology

Why choose a ground source heat pump from alpha innotec?

- All in one. Heating, cooling and hot water.
- Convenient. Easy-to-use.
- Silent. Hardly audible in operation.
- Space-saving. One device for all.
- Economical. Maximum energy-efficiency.
- Modulating. Supplies energy on demand.
- Innovative technology. Modern design.



The classic

Ground source heat pump
SW 4 – 19 kW

alterra^{PWZS}

Compact design

Thanks to its dimensions 60x62x185 cm, the heat station even fits into small niches and is one of the heat pumps with smallest footprint on the market.



Unique controller concept

The separate control unit can be installed anywhere you want in the house, or in its familiar place, directly on the heat pump.

Integrated stainless steel hot water tank

The 185 litre stainless steel hot water tank has a sophisticated insulation for minimum standing losses.

Immersion heater control

The output of the 9 kW immersion heater can be adjusted on the controller and therefore adapted to all conditions.



The space saver

Ground source heat station
PWZS 4 – 13 kW



The space saver

alterra PWZS range 4 – 13 kW

PWZS – ground source heat station

Appealing and compact design



Heating and domestic hot water preparation in one unit. The heat station supplies cosy warmth and hygienic hot water exactly as required. The units can be used anywhere, whether in a detached or semi-detached house – for new building or refurbishing!

The robust steel housing in fine, pure white shows the quality of the heat station at first glance. The unit therefore fits optimally into your living space. Thanks to its dimensions 60x62x185 cm, the heat station even fits into small niches and is one of the heat pumps with smallest footprint on the market.

Benefits to homeowners



- Energy efficient – low running costs
- Super-silent, hardly audible in operation
- Easy handling of the controller
- Unique controller concept
- Heating and domestic hot water preparation in one unit
- Appealing and compact design, the unit therefore fits optimally into living spaces
- Convenient worldwide controlling thanks to alpha app and alpha web, via internet and smartphone
- Made in Germany

Benefits to installers



- Pre-assembled unit; this enables fast and easy installation
- Unique transport concept, horizontal transport possible
- Fast, easy installation and transport
- Integrated stainless steel hot water tank
- Heating element adjustable via controller
- Electrical connection (1-cable solution) already pre-assembled
- Heat metering and energy-efficient circulation pumps integrated
- Optionally with cooling package
- Different heat source media can be used

Unique controller concept

Wall-mounted controller - save going to your heat pump. Operate and monitor your heat station from your favourite place in the home. The separate control unit can be placed anywhere in your home. The plain design of the controller suits any interior.

Controller on the front of the housing - the familiar, classic solution, for all who are used to a controller directly on the unit. The control unit can easily be fixed onto the front of the housing.



Appealing and compact design



The space saver

alterra WZS range 4 - 12 kW

WZSV range 2 - 16 kW

WZS – ground source heat station

The whole heating system on only half a square metre.



The ground source heat station is particularly suitable for new buildings and does not require more space than a refrigerator. The compact units contain everything needed for heating, cooling and hot water. A 178 litre domestic hot water tank is already integrated and ensures sufficient hot water at any time of the day.

The unit can be installed flexibly as all connections are located at the top of the unit and all settings are made at the front of the unit. The heat station is used wherever an all-in-one solution is required – regardless of whether in new building or refurbishing. New modulating versions are now also available.

Benefits to homeowners



- Energy efficient – low running costs
- Super-silent, hardly audible in operation
- Easy handling of the controller
- Unique controller concept
- Complete heating system – only one unit for heating, cooling, domestic hot water integrated
- Space-saving installation, smaller footprint than a washing machine
- Convenient worldwide controlling thanks to alpha app and alpha web, via internet and smartphone
- Made in Germany

Benefits to installers



- Pre-assembled unit; this enables fast and easy installation
- Unique transport concept, separated transport possible
- Slim unit, easy handling
- Flexible installation and connection options
- High COPs > 5,00
- Heat metering and energy-efficient circulation pumps integrated
- Optionally available with cooling
- Perfect for tapping all types of heat sources
- Different heat source media can be used
- Modulating versions



The heat station fits perfectly into any small niche.



The flexible

alterra SWC range 4 - 19 kW

SWCV range 2 - 16 kW

SWC – Compact ground source heat pump

Flexible in application and performance requirements.



Compact is synonymous for a small footprint and many already integrated components. Standard heat pumps usually require installations on the wall, outside the unit. Continuous development of alpha innotec's top seller improved the combinability with other heat generators such as solar thermal or photovoltaic technology, which

is an important feature. The machines cover a range from 4 to 19 kW and can be delivered with a cooling function. Available in many performance gradations and in modulating versions, the heat pumps fit almost any property.

Benefits to homeowners



- Energy efficient – low running costs
- Super-silent, hardly audible in operation
- Easy handling of the controller
- Flexible heating system for all needs
- Can be combined with ventilation, solar domestic water heating support, wood-fired stove or pellet-fired stove
- Maximum domestic hot water convenience
- With alpha app and alpha web, can be controlled very conveniently, worldwide too via the internet and smartphone
- Optionally available with cooling
- Made in Germany

Benefits to installers



- Pre-assembled unit, fast installation
- Unique transport concept, separated transport possible
- Compact delivery, easy handling
- Flexible installation and connection options
- High COPs > 5,00
- Numerous combination options, including ventilation
- Heat metering and energy-efficient circulation pumps integrated
- Optionally available with cooling
- Perfect for tapping all types of heat sources
- Different heat source media can be used
- Modulating versions



Compact ground source heat pump, one of the heat pumps with best acoustic performance on the market.



The classic

alterra SW range 4 – 19 kW

SW – ground source heat pump

Powerful entry into eco-friendly heating technology.



The new SW range makes no compromises where performance and technology are concerned. With the dimensions of a washing machine, the heat pump fits in well if older heat pumps have to be replaced or a cost-effective heat pump model is required.

alpha innotec has developed this range from the alterra series especially for installers who prefer to be as free as possible in their installation. The professional decides where and how they purchase and combine accessories. In addition, there is also a special optional cooling package from alpha innotec.

Benefits to homeowners



- Energy efficient – low running costs
- Super-silent, hardly audible in operation
- Easy handling of the controller
- Cost-effective heating system which is open to all needs
- Can be combined with solar thermal system or photovoltaic systems
- For heating and domestic hot water preparation, optional cooling package
- With alpha app and alpha web can be controlled very conveniently worldwide too via the internet and smartphone
- Made in Germany

Benefits to installers



- Free installation and combination options, e.g. with ventilation, solar thermal energy or photovoltaics, optimal for bivalent systems
- Perfect cascade connection, up to 76 kW
- Particularly compact design
- Suitable for new building, refurbishing and replacement
- Compact delivery, easy handling
- High COPs > 5,00
- Tried-and-tested controller concept
- Perfect for tapping all types of heat sources
- Different heat source media can be used

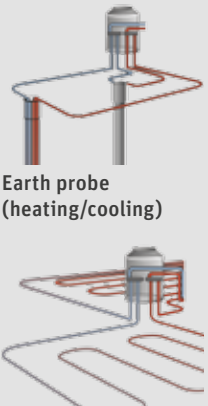


Ground source heat pump, the power house for your heating system.

New building – the space saver


PWZS / WZS – heat station ground source

Ground as heat source




Earth probe
(heating/cooling)

Horizontal collector
(heating)



Heating, cooling (optional) and domestic hot water preparation in one unit



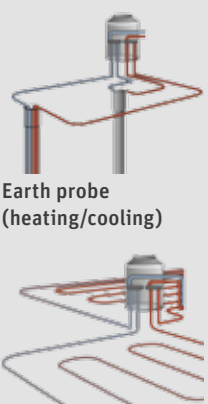
PV system

Heating, cooling (optional) and domestic hot water preparation in one unit in combination with a photovoltaic system

New building and refurbishing – the flexible


SWC – Compact ground source heat pump

Ground as heat source




Earth probe
(heating/cooling)

Horizontal collector
(heating)



Heating, cooling (optional) and domestic hot water preparation with the SWC and separate hot water tank (WWS)

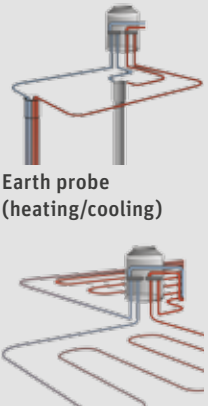


Heating, cooling (optional) and domestic hot water preparation with the SWC.
Other heat generators can be combined with the multi-functional storage tank (MFS), e.g. stoves with water heat exchanger or solar thermal systems

Refurbishing – the classic


SW – ground source heat pump

Ground as heat source




Earth probe
(heating/cooling)

Horizontal collector
(heating)



Heating and domestic hot water preparation with SW heat pump and separate hot water tank (WWS)



PV system Solar system

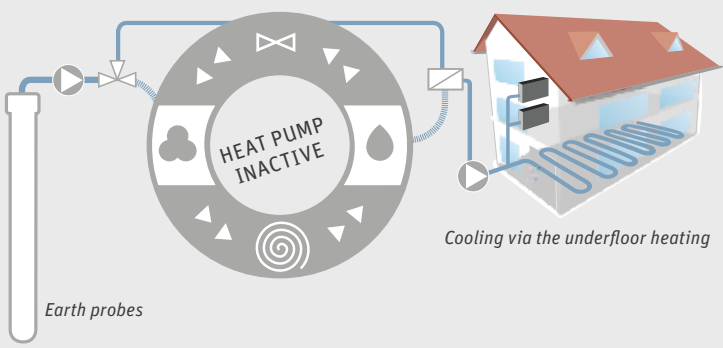
Heating and domestic hot water preparation with SW heat pump and hot water tank (WWS). It is also possible, to integrate existing heat generators or solar thermal systems using the multi-functional storage tank (MFS); combination with a photovoltaic system is also possible.

All alterra units can be used with different heat source media: Monoethylene glycol, propylene glycol, methanol, ethanol, water (VDI2035)

Optional: Free cooling

No other heating system can do that: heating in the winter, cooling in the summer. Free cooling is a very cost-effective way of using the low temperatures in the ground for pleasant and eco-friendly cooling of rooms in the summer, because the heat pump remains switched off during the cooling phase. The room temperature is lowered via surface heating system.

FREE COOLING



Earth probes

Cooling via the underfloor heating

alterra series



A product series with many benefits

- Large product portfolio for any application
- Maximum efficiency
- Easy transport, fast installation
- Flexible controller concept, worldwide access
- Extremely silent, hardly audible in operation
- Modulating versions
- Elegant design – Made in Germany

Large product portfolio for any application

The enormous product diversity of the new alterra series supplies the right heat pump for any situation. Worldwide, the product range includes around 100 different heat pump types.

Installers therefore benefit from planning security – they can rely on finding the right heat pump for the homeowner, regardless of property, use or investment budget. All systems supply high flow temperatures; thus they are

perfect for hot water preparation and refurbishing. The units can be combined with other heat generators and applications at any time, e.g. solar thermal photovoltaic or ventilation systems.

Installers have the choice: They decide whether to offer a pre-assembled device to their customers or to plan and install an individual system.



The multi-talent among heat pumps. The enormous product diversity of the new alterra series supplies the right solution for every case.

Maximum efficiency

With COPs > 5.00 and higher, the alterra series also performs convincingly in terms of energy efficiency. Because of the perfect insulation of the hot water storage tank there are minimum heat loss. alterra heat pumps supply a perfect room climate 365 days a year. Heating, cooling and domestic hot water preparation couldn't be more energy efficient.



Easy transport, fast installation

The intrinsic attributes of alterra heat pumps are convincing, starting with transport and carrying the heat pumps into the building. The module box with integrated refrigerant circuit can be removed quickly for transport. Experienced installers need around 5 minutes to detach the box.

The box is transported by four transport lugs. In addition, all outer housing panels can be dismantled and are therefore protected from damage during transport. The heat pump has to be carried inside the building with the help of a load lifter? No problem – all units can also be lifted by crane.

As the module box can be removed from the front and thanks to the flexible connection options of the heat pumps, they can be installed in niches or directly at the wall. If service is required, the module box can, of course, be simply pulled out from the front and serviced separately.

Most alterra heat pumps are already pre-assembled including many components – this saves time during installation (SWC, WZS). Intelligent cable management enables additional cables to be fed into the unit from the outside – even if it is installed in a niche.



Luxtronik 2.1. – Feels good at the push of a button

Your heat pump knows precisely what it has to do so that you feel comfortable at all times. After you have saved your required temperatures and settings in the controller, it controls the heat pump fully automatically. A turn-and-push button makes operating the heat pump child's play.

Your benefits:

- Easy controlling using the turn-and-push principle
- Intuitive interface
- Connection to the internet/network without additional accessories
- USB connection (for reading out data and for software updates)
- Commissioning assistant



From now on the control unit can be removed from the heat pump and be placed in the living space.



Unique controller concept

The Luxtronik control unit can remain directly on the heat pump, but can also be placed anywhere in the house.

Web server connection

Control your heat pump conveniently at home on your computer

You can link your alpha innotec heat pump easily control to all the functions on your computer – an important element for enhance the quality of your home and life. Apart from a connection cable, no other hardware or software is

required to use this special function. All Luxtronik 2.1 controllers made by alpha innotec are compatible with the free-of-charge web server connection – without any additional costs.

Worldwide access – convenient online controlling

alpha web | alpha app | alpha home

With alpha web, alpha app and alpha home you can control your heating from any location using a PC, smartphone or tablet. You can access the Luxtronik 2.1 controller of the heat pump not only via a home network but also via the internet.

alpha web

Worldwide alpha web access requires the heat pump to be set up on the alpha innotec webserver.

After the heat pump has been connected with the gateway (router), you can start.

Your benefits:

- All heat pump settings can be adjusted online
- Enables monitoring when you're not at home
- Apart from the internet access, no other hardware or software is required



alpha app



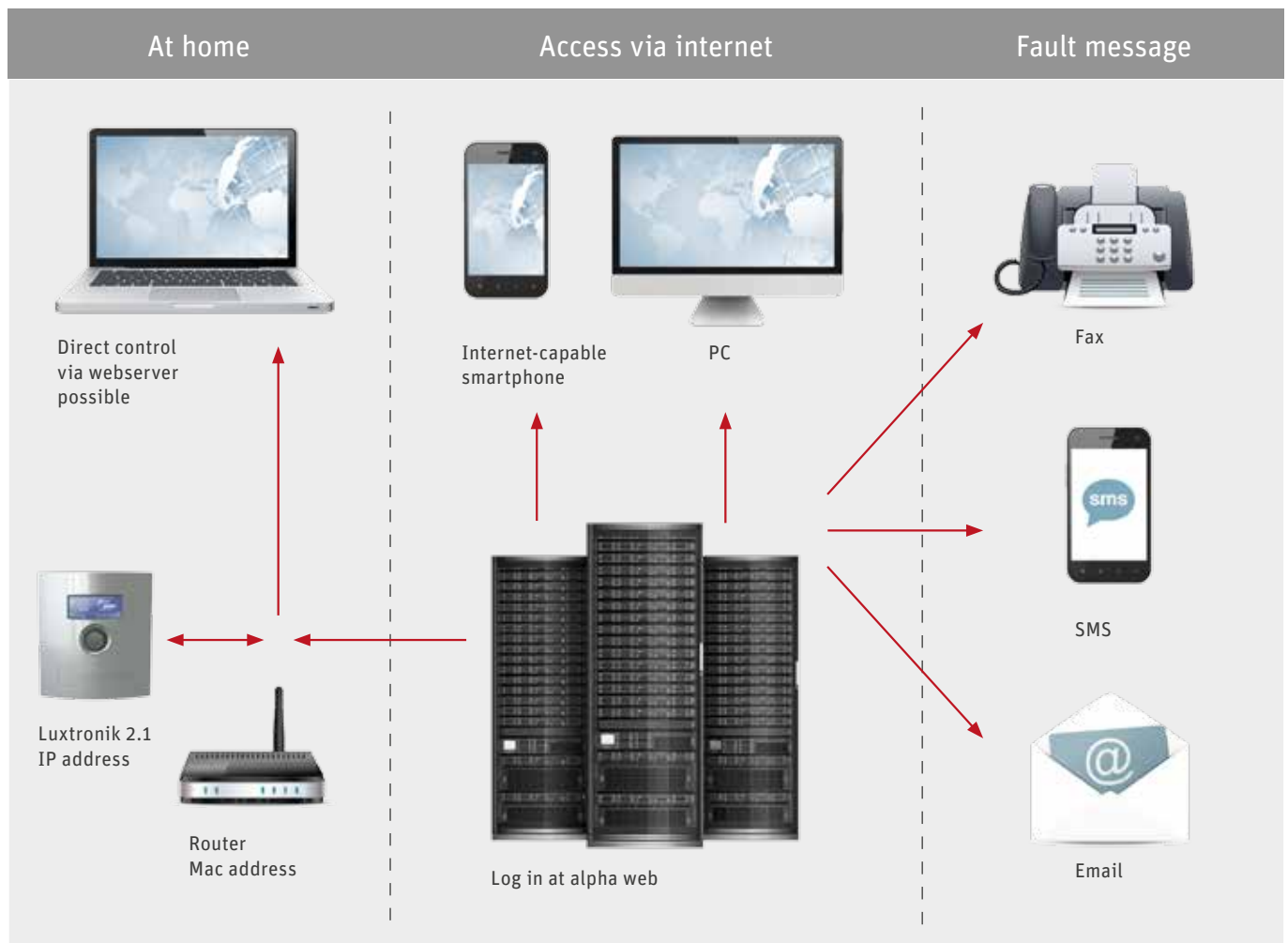
alpha web

Your benefits:

- Convenient remote control
- Heat pump can be adjusted and serviced directly via smartphone
- Easy online download, free of charge

alpha app

Smartphone and tablet users (iOS or Android) can look forward to controlling their heat pump via alpha app. The application is the perfect tool for setting or monitoring alpha innotec heat pumps, without having to be there in person. The app is available free of charge in the respective app stores.



alpha home: enabling you to communicate with your heat pump.

alpha home

With this individual room control system you can control heating, hot water preparation and heat distribution in each room via an app, smartphone, tablet or PC. Furthermore, the system determines automatically the flow temperatures required to achieve the room temperatures saved by you and adapts these to the outdoor conditions. Alpha home distributes heat efficiently and as required.

Your benefits:

- Convenient individual room control via remote control
- Additional energy and heating cost savings through optimum heat distribution
- Easy commissioning
- Timer programmes and individual scenario functions for all rooms



Elegant design – Made in Germany

For many years, high-quality materials, innovative technology and sophisticated manufacturing have been synonymous with the alpha innotec brand – Made in Germany.

The new design of the alterra heat pump series responds to the quality standards of alpha innotec customers. With a glossy front and in the specially selected anthracite-silver colour combination, the alterra series fits in well in any home interior style and building.





The epitome of silence. The alterra series heat pumps have convincingly ultra-silent running!

Super silent – hardly audible in operation

The alterra series heat pumps run convincingly super-silent! Thanks to particularly high-quality, sound-optimised design of the heat pumps and the double acoustic insulation, due to produced by the box-in-box system, particularly low sound emission values are achieved. Even a refrigerator is louder than an alterra heat pump.

For the installer, it is an uncomplicated solution, even where sound requirements are critical.



Design and quality. The new ground source generation by alpha innotec.

Modulating versions

Modulating air/water heat pump units are already available on the market. In order to use the advantages of this technology for geothermal heat pumps too, the new alterra series by alpha innotec now also includes a range of modulating ground source heat pumps. These are ideal for changing heat demand, as they provide the required reserves and are characterised by their particularly high efficiency (SCOP - seasonal performance factor).

The modulating systems adapt the heat generation to the respective current heat requirements of the building. Especially during the transition period between seasons, the building's demand can at times be far lower than the capacity of the heat pump.

As soon as an modulating heat pump receives a request for heat, the heat pump operates continuously with adapted output (compressor, fans and pumps) regardless of the building's needs; i.e. the heat pump does not switch on and off like a conventional heat pump, but instead gives off heat continuously based on demand. The result of this is improved seasonal performance factors and therefore

increased efficiency. Modulating heat pumps are suitable for significantly smaller backup buffer tanks or can operate without buffer tank in case the quantity of circulating water in the heating system is sufficient.

The inverter-controlled units need a very low starting current. Therefore, in general, they can also be used in areas with grid operator restrictions, based on the maximum allowable starting current.

TIP

The term SCOP (Seasonal Coefficient of Performance) stands for the economic efficiency of a heat pump. It is calculated over a complete heating period. The ability to use energetically favourable part-load mode is displayed, which enables modulating heat pumps to stand out.



alterra PWZS 4 – 13 kW, 1 ~ 230 V

Type	Item number	Performance data		Product			Energy efficiency class	
		Heating capacity [kW]	COP	Measurement [mm] W x D x H	Weight [kg]		Heating system in conjunction with control unit	Combined heating system in conjunction with control unit
					Total	Without modul box		
PWZS 42H1S	10071041	4,6	4,60	598 x 626 x 1850	215	125	–	A ⁺⁺
PWZS 62H1S	10071141	5,8	4,80	598 x 626 x 1850	220	125	–	A ⁺⁺
PWZS 82H1S	10071241	7,5	4,80	598 x 626 x 1850	235	125	–	A ⁺⁺
PWZS 102H1S	10071342	10,3	4,80	598 x 626 x 1850	240	125	–	A ⁺⁺
PWZS 132H1S	10071442	13,0	4,70	598 x 626 x 1850	245	125	–	A ⁺⁺

All items are filled with fluorinated greenhousegas R410A.

alterra PWZS 4 – 12 kW, 3 ~ 400 V

Typ Kurz-Bez.	Artikelnummer	Leistungsdaten		Gerät			Energieeffizienzklasse	
		Heating capacity [kW]	COP	Measurement [mm] W x D x H	Weight [kg]		Heating system in conjunction with control unit	Combined heating system in conjunction with control unit
					Total	Without modul box		
PWZS 42H3S	10065041	4,7	4,70	598 x 626 x 1850	215	125	–	A ⁺⁺
PWZS 62H3S	10065141	6,0	4,80	598 x 626 x 1850	220	125	–	A ⁺⁺
PWZS 82H3S	10065241	7,7	4,90	598 x 626 x 1850	235	125	–	A ⁺⁺
PWZS 102H3S	10065341	9,5	5,00	598 x 626 x 1850	240	125	–	A ⁺⁺⁺
PWZS 122H3S	10065441	12,0	4,90	598 x 626 x 1850	245	125	–	A ⁺⁺⁺

All items are filled with fluorinated greenhousegas R410A.

alterra WZS 4 – 12 kW, 3 ~ 400 V

Type	Item number	Performance data		Product			Energy efficiency class	
		Heating capacity [kW]	COP	Measurement [mm] W x D x H	Weight [kg]		Heating system in conjunction with control unit	Combined heating system in conjunction with control unit
					Total	Without modul box		
WZS 42H3M	10066041	4,7	4,70	598 x 730 x 1850	250	160	–	A ⁺⁺
WZS 62H3M	10066141	6,0	4,80	598 x 730 x 1850	255	160	–	A ⁺⁺
WZS 82H3M	10066241	7,7	4,90	598 x 730 x 1850	270	160	–	A ⁺⁺
WZS 102H3M	10066342	9,5	5,09	598 x 730 x 1850	275	160	–	A ⁺⁺⁺
WZS 122H3M	10066442	12,2	5,00	598 x 730 x 1850	280	160	–	A ⁺⁺⁺
WZS 42K3M*	10066541	4,7	4,70	598 x 730 x 1850	258	160	–	A ⁺⁺
WZS 62K3M*	10066641	6,0	4,80	598 x 730 x 1850	263	160	–	A ⁺⁺
WZS 82K3M*	10066741	7,7	4,90	598 x 730 x 1850	278	160	–	A ⁺⁺
WZS 102K3M*	10066842	9,5	5,09	598 x 730 x 1850	283	160	–	A ⁺⁺⁺
WZS 122K3M*	10066942	12,2	5,00	598 x 730 x 1850	288	160	–	A ⁺⁺⁺

All items are filled with fluorinated greenhousegas R410A.

*with integrated cooling

All data according to EN 14511 – B0/W35
Subject to technical modification and errors.

alterra SWC 4 – 19 kW, 3 ~ 400 V

Type	Item number	Performance data		Product			Energy efficiency class	
		Heating capacity [kW]	COP	Measurement [mm] W x D x H	Weight [kg]		Heating system in conjunction with control unit	Combinated heating system in conjunction with control unit
					Total	Without modul box		
SWC 42H3	10068041	4,7	4,70	598 x 665 x 1500	155	65	A++	–
SWC 62H3	10068141	6,0	4,80	598 x 665 x 1500	160	65	A++	–
SWC 82H3	10068241	7,7	4,90	598 x 665 x 1500	175	65	A++	–
SWC 102H3	10068342	9,5	5,09	598 x 665 x 1500	180	65	A+++	–
SWC 122H3	10068442	12,2	5,00	598 x 665 x 1500	185	65	A+++	–
SWC 142H3	10068542	13,5	5,08	598 x 665 x 1500	200	70	A+++	–
SWC 172H3	10068642	16,6	4,95	598 x 665 x 1500	205	70	A+++	–
SWC 192H3	10068742	18,6	4,87	598 x 665 x 1500	210	70	A++	–
SWC 42K3*	10069041	4,7	4,70	598 x 665 x 1500	163	65	A++	–
SWC 62K3*	10069141	6,0	4,80	598 x 665 x 1500	168	65	A++	–
SWC 82K3*	10069241	7,7	4,90	598 x 665 x 1500	183	65	A++	–
SWC 102K3*	10069342	9,5	5,09	598 x 665 x 1500	188	65	A+++	–
SWC 122K3*	10069442	12,2	5,00	598 x 665 x 1500	193	65	A+++	–
SWC 142K3*	10069542	13,5	5,08	598 x 665 x 1500	212	82	A+++	–
SWC 172K3*	10069642	16,6	4,95	598 x 665 x 1500	217	82	A+++	–
SWC 192K3*	10069742	18,6	4,87	598 x 665 x 1500	222	82	A++	–

All items are filled with fluorinated greenhousegas R410A.

*with integrated cooling

alterra SWC 4 – 13 kW, 1 ~ 230 V

Type	Item number	Performance data		Product			Energy efficiency class	
		Heating capacity [kW]	COP	Measurement [mm] W x D x H	Weight [kg]		Heating system in conjunction with control unit	Combinated heating system in conjunction with control unit
					Total	Without modul box		
SWC 42H1	10073041	4,6	4,60	598 x 665 x 1500	155	65	A++	–
SWC 62H1	10073141	5,8	4,80	598 x 665 x 1500	160	65	A++	–
SWC 82H1	10073241	7,5	4,80	598 x 665 x 1500	175	65	A++	–
SWC 102H1	10073342	10,3	4,80	598 x 665 x 1500	180	65	A++	–
SWC 132H1	10073442	13,0	4,70	598 x 665 x 1500	185	65	A++	–

All items are filled with fluorinated greenhousegas R410A.

All data according to EN 14511 – B0/W35
Subject to technical modification and errors.

alterra SW 4 – 19 kW, 3 ~ 400 V

Type	Item number	Performance data		Product			Energy efficiency class	
		Heating capacity [kW]	COP	Measurement [mm] W x D x H	Weight [kg]		Heating system in conjunction with control unit	Combined heating system in conjunction with control unit
					Total	Without modul box		
SW 42H3	10070041	4,7	4,70	598 x 665 x 850	135	45	A ⁺⁺	–
SW 62H3	10070141	6,0	4,80	598 x 665 x 850	140	45	A ⁺⁺	–
SW 82H3	10070241	7,7	4,90	598 x 665 x 850	155	45	A ⁺⁺	–
SW 102H3	10070342	9,5	5,09	598 x 665 x 850	160	45	A ⁺⁺⁺	–
SW 122H3	10070442	12,2	5,00	598 x 665 x 850	165	45	A ⁺⁺⁺	–
SW 142H3	10070542	13,5	5,08	598 x 665 x 850	175	45	A ⁺⁺⁺	–
SW 172H3	10070642	16,6	4,95	598 x 665 x 850	180	45	A ⁺⁺⁺	–
SW 192H3	10070742	18,6	4,87	598 x 665 x 850	185	45	A ⁺⁺	–

All items are filled with fluorinated greenhousegas R410A.

alterra SW 4 – 13 kW, 1 ~ 230 V

Type	Item number	Performance data		Product			Energy efficiency class	
		Heating capacity [kW]	COP	Measurement [mm] W x D x H	Weight [kg]		Heating system in conjunction with control unit	Combined heating system in conjunction with control unit
					Total	Without modul box		
SW 42H1	10074041	4,6	4,60	598 x 665 x 850	135	45	A ⁺⁺	–
SW 62H1	10074141	5,8	4,80	598 x 665 x 850	140	45	A ⁺⁺	–
SW 82H1	10074241	7,5	4,80	598 x 665 x 850	155	45	A ⁺⁺	–
SW 102H1	10074342	10,3	4,80	598 x 665 x 850	160	45	A ⁺⁺⁺	–
SW 132H1	10074442	13,0	4,70	598 x 665 x 850	165	45	A ⁺⁺⁺	–

All items are filled with fluorinated greenhousegas R410A.

alterra WZSV 2 – 16 kW, 3 ~ 400 V

modulating

Type	Item number	Performance data		Product			Energy efficiency class	
		Heating capacity min max [kW]	COP ¹⁾	Dimensions [mm] B x T x H	Weight [kg]		Heating system in conjunction with control unit	Combined heating system in conjunction with control unit
					Total	Without modul box		
WZSV 62H3M	10072041	2,0 6,0	4,72	598 x 730 x 1850	225	160	–	A+++
WZSV 162H3M	10072141	4,0 16,0	4,85	598 x 730 x 1850	280	160	–	A+++
WZSV 62K3M*	10072241	2,0 6,0	4,72	598 x 730 x 1 850	263	160	–	A+++
WZSV 162K3M*	10072341	4,0 16,0	4,85	598 x 730 x 1850	288	160	–	A+++

¹⁾ Partial load

All items are filled with fluorinated greenhousegas R407C.

*with integrated cooling

alterra SWCV 2 – 16 kW, 3 ~ 400 V

modulating

Type	Item number	Performance data		Product			Energy efficiency class	
		Heating capacity [kW]	COP	Measurement [mm] W x D x H	Weight [kg]		Heating system in conjunction with control unit	Combined heating system in conjunction with control unit
					Total	Without modul box		
SWCV 62H3	10071541	2,0 6,0	4,72	598 x 665 x 1500	160	65	A+++	–
SWCV 162H3	10071641	4,0 16,0	4,85	598 x 665 x 1500	205	70	A+++	–
SWCV 62K3*	10071741	2,0 6,0	4,72	598 x 665 x 1500	168	65	A+++	–
SWCV 162K3*	10071841	4,0 16,0	4,85	598 x 665 x 1500	217	70	A+++	–

¹⁾ Partial load

All items are filled with fluorinated greenhousegas R407C.

*with integrated cooling

alterra accessories

Type	Item number	Product description
KSE 122	15093001	Cooling package 4 - 12 kW (für SW, SWC, WZS)
KSE 192	15093101	Cooling package 14 - 19 kW (für SW, SWC, WZS)
MLRH 1/3	15078101	Adjustable immersion heater control (for WZS, SWC)
BDBA 2	15091801	Blind cover for controlling unit
SVEK 3	15093301	brine distributor, 3-fold
SVEK 4	15093401	brine distributor, 4-fold
SVEK 6	15093501	brine distributor, 6-fold
SVEK 7	15093601	brine distributor, 7-fold
SVEK 8	15093701	brine distributor, 8-fold
SVEK 10	15093801	brine distributor, 10-fold
SPP 12	150892VS01	Safety package primary side, with expansion vessel 12 l, 4 - 10 kW
SPP 18	150893VS01	Safety package primary side, with expansion vessel 18 l, 12 - 19 kW
SPP 24	150894VS01	Safety package primary side, with expansion vessel 24 l, 23 - 30 kW
SPS 25	150895VS01	Safety package secondary side, with expansion vessel 25 l
SPS 35	150896VS01	Safety package secondary side, with expansion vessel 35 l
SPS 50	150897VS01	Safety package secondary side, with expansion vessel 50 l
SPS 80	150898VS01	Safety package secondary side, with expansion vessel 80 l
SPS 100	150899VS01	Safety package secondary side, with expansion vessel 100 l
SPS 140	150900VS01	Safety package secondary side, with expansion vessel 140 l
ÜV 5/4"	15090101	Overflow valve 5/4 "
PHZ 2	150906VS01	Circulation pump unit DN 25, for heating system (discharging unit) with circulation pump, shut-off device, thermometer and non-return valve
PHZM 2	150907VS01	Circulation pump unit DN 25, with mixing valve for heating system (discharging unit) with circulation pump, shut-off device, thermometer, flow sensor and non-return valve
PWP 2	15090901	Circulation pump unit, brine up to 10 kW
PWP 3	15091001	Circulation pump unit, brine up to 17 kW
PWP 4	15091101	Circulation pump unit, brine up to 30 kW

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