


# GROUND SOURCE

HEAT PUMPS





“We believe in  
nature’s energy.”

# Our mission: To make heating even more sustainable

Climate change is one of the greatest challenges of our time. We need to find new ways to make our energy networks more sustainable. Avoiding fossil fuels in favour of renewables is a vital step in this direction. Around 75 per cent of the energy consumed in private households is used for heating – mostly via inefficient and outdated heating systems that use environmentally harmful energy sources such as oil or gas.

## **For a viable future**

Since 1998, we have been developing and producing innovative heat pumps that enable environmentally friendly and energy-saving heating, cooling and hot water preparation. From single-family homes to apartment buildings, commercial and industrial properties and entire housing estates – alpha innotec heat pumps help to reduce CO<sub>2</sub> emissions and create a sustainable and viable future.

Let's tackle the challenge of climate change together – you can depend on our know-how and the first-class quality of our products!



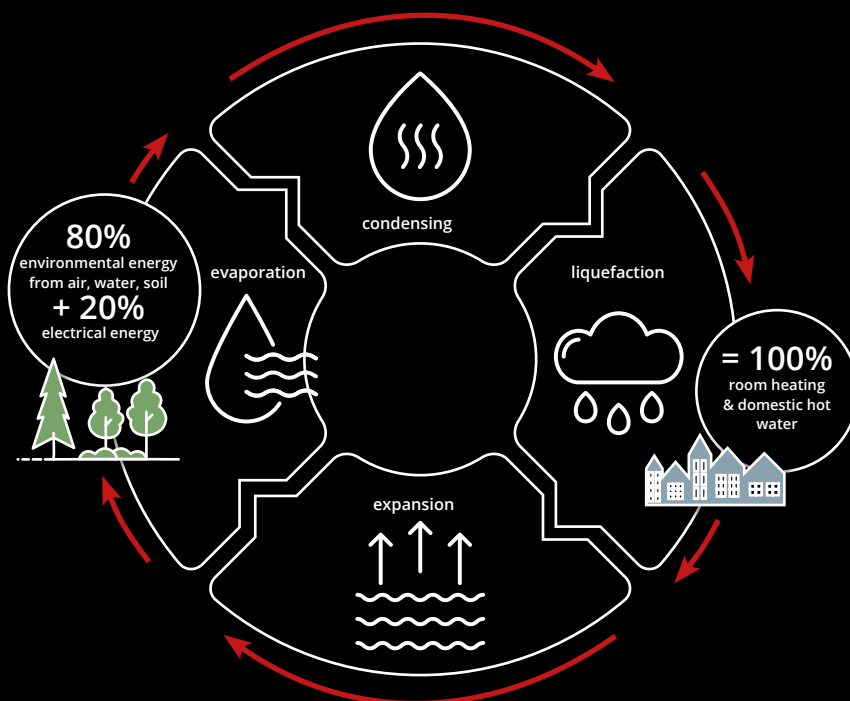
# Simply ingenious: Energy from air, soil and water

Together with alpha Innotec

Heat pumps use energy extremely efficiently: they draw heat from the ground, air or from water and release it as heating energy. Even at sub-zero temperatures, they can extract enough stored solar energy from the environment to heat buildings and supply them with hot water in an environmentally friendly way. Some models also include a cooling function for pleasant room temperatures in hot weather.

**alpha innotec heat pumps obtain around 80 per cent of the energy they need from renewable sources and thus make a decisive contribution to climate protection.**

The innovative **ground source heat pumps** from alpha innotec conduct the heat from the ground via probes or collectors and transfer it to an evaporator or heat exchanger. The recovered heat is used for heating and hot water production. These systems use modern inverter technology to ensure that no excess energy is produced. The heat pump's output is thus continuously adjusted to meet the current demand.





## We have the right solution

Whether for single-family houses, apartment blocks or commercial and industrial buildings – air/water heat pumps are an effective and energy-efficient solution both for new buildings and for refurbishment and modernisation projects. alpha innotec is your competent partner for holistic and future-proof energy concepts – with innovative and high-quality products to meet every challenge.

- 1** Heat pumps for single-family houses
- 2** Heat pumps for apartment buildings
- 3** Heat pumps for residential units
- 4** Heat pumps for commercial properties
- 5** Heat pumps for industry



Ground source  
heat pumps  
Perfect for  
your building





**WZS ground source heat stations**

Heating water temperatures of up to 65°C possible.  
Includes hot tap water tank, with optional cooling function.  
Built-in hydraulics.  
Recommended total building power requirement  
5 – 12 kW \*



**SWCV  
Ground source heat pump, inverter-driven**

Heating water temperatures of up to + 65°C are possible –  
recommended total building power requirement  
3 – 17 kW \*



**WZSV  
Ground source heat pump, inverter-driven**

Heating water temperatures of up to + 65°C are possible –  
recommended total building power requirement 3 – 17 kW \*



**SWC compact ground source heat pumps**

Heating water temperatures of up to + 65°C are possible –  
recommended total building power requirement 5 – 19 kW \*



**SW ground source heat pumps**

Heating water temperatures of up to 65°C possible.  
Recommended total building power requirement  
5 – 30 kW \*



**SWP compact ground source heat pumps**

Heating water temperatures of up to + 65°C are possible –  
recommended total building power requirement \* 5 – 19 kW \*

\* The recommended total building power requirement is the approximate sum of the building's heating load, the power required to heat tap water, possible off-time factors and additional capacity for special uses (e.g. swimming pool).

# First-class quality meets sustainability

Together with Alpha Innotec

Many years of experience, intensive research and development and rock-solid craftsmanship make every alpha innotec heat pump a top-quality “Made in Germany” product. You can depend on that. Both today and in the future.

Climate-friendly heat pumps are at the centre of what we do – and have been since 1998. This expertise is evident in our products: alpha innotec heat pumps stand for maximum energy efficiency, innovation, quality, reliability as well as simple installation and operation. In our research and development centre in Kasendorf, Franconia, we work hard every day to make our products even better.

We prepare our heat pumps for daily use in our **in-house laboratories and state-of-the-art test facilities (including climate chambers and sound measurement rooms).**



Through consistent quality assurance and our work with independent testing institutes, we ensure that our products meet all relevant standards and regulations – from ISO9001 to the European Seal of Quality for heat pumps.

For our partners, we offer qualified training sessions and courses to keep them up to date on our latest technical innovations and product updates as well as the current regulations. In this way, we make sure our customers receive a product that meets all requirements when it comes to ecological and financial sustainability – and with which they are completely satisfied.





# Subsidies

## Subsidies and financing for efficient buildings

By adapting the available subsidy schemes to our climate protection package, we have made the current subsidies on heat pumps even more attractive. In the best case, a **45% subsidy** is available on the entire heating system. Furthermore, alpha innotec offers a **subsidy service** to help you claim the maximum available funding.



## Contents

### Ground source heat pumps

WZS/ WZSV, inverter-driven	p. 10
SWC/ SWCV, inverter-driven	p. 12
SW	S. 14
SWP professional	p. 16
Multifunction tank	p. 18
App-based control	p. 19

# Compact and whisper-quiet: WZS/WZSV

These efficient heat pumps require less than half a square metre of space – which means they can be installed in houses of all sizes.

COOLING  
INCLUDED



## Your benefits at a glance

- + Heating, cooling, hot water
- + Extremely compact and space-saving
- + Convenient servicing via the front panel
- + Very low noise emissions
- + Passive (natural) cooling
- + Simple transport and assembly
- + Cool box can be removed for transport
- + Ideal for new-builds, refurbishment projects and to replace older models



### Fast delivery and installation

The cool box can be removed for transport – installation of the heat station with integrated tank and hydraulics is extremely quick. Thanks to its small footprint (< 0.5 m<sup>2</sup>), it can also fit into any corner.

### Natural cooling in summer

Via passive cooling, excess heat is extracted from the rooms and dissipated into the ground. The existing heating surfaces (e.g. underfloor heating) now serve as cooling surfaces – and create a pleasant climate in hot weather.

### Extremely quiet operation

Our box-in-box system doubles the included sound insulation, which is why our heat pumps are about as audible as a modern refrigerator – and therefore disturb neither the house's occupants nor their neighbours.



## WZS/WZSV

Type	Art. No.	Performance data				Unit				
		Heating power BO/W35 min./max. [kW]	Cooling power B15/W25 max. [kW]	COP BO/W35 partial load	CO <sub>2</sub> equivalent [t CO <sub>2</sub> ]	Hermetically sealed	Coolant Filling volume [kg]	Dimensions W x D x H [mm]	Weight total [kg]	without module box [kg]
WZSV 62H3M	10072041	1.3 – 6.0	–	4.86 <sup>2)</sup>	2.1	✓	1.16	598 x 730 x 1850	240	160
WZSV 92H3M	10076341	1.8 – 8.7	–	4.76 <sup>2)</sup>	2.2	✓	1.25	598 x 730 x 1850	244	160
WZSV 62K3M <sup>1)</sup>	10072241	1.3 – 6.0	5.8	4.86 <sup>2)</sup>	2.1	✓	1.16	598 x 730 x 1850	248	160
WZSV 92K3M <sup>1)</sup>	10076441	1.8 – 8.7	7.8	4.76 <sup>2)</sup>	2.2	✓	1.25	598 x 730 x 1850	252	160
WZS 42H3M	10066041	4.7	–	4.70	2.2	✓	1.05	598 x 730 x 1850	250	160
WZS 82H3M	10066241	7.7	–	4.90	3.6	✓	1.72	598 x 730 x 1850	270	160
WZS 102H3M	10066342	9.3	–	5.05	4.1	✓	1.98	598 x 730 x 1850	275	160
WZS 122H3M	10066442	12.2	–	5.00	4.7	✓	2.25	598 x 730 x 1850	280	160
WZS 42K3M <sup>1)</sup>	10066541	4.7	4.3	4.70	2.2	✓	1.05	598 x 730 x 1850	258	160
WZS 82K3M <sup>1)</sup>	10066741	7.7	7.0	4.90	3.6	✓	1.72	598 x 730 x 1850	278	160
WZS 102K3M <sup>1)</sup>	10066842	9.3	8.6	5.05	4.1	✓	1.98	598 x 730 x 1850	283	160
WZS 122K3M <sup>1)</sup>	10066942	12.2	10.8	5.00	4.7	✓	2.25	598 x 730 x 1850	288	160

<sup>1)</sup>with integrated cooling | <sup>2)</sup>all specifications for partial load

# Flexible and versatile: **SWC/SWCV**

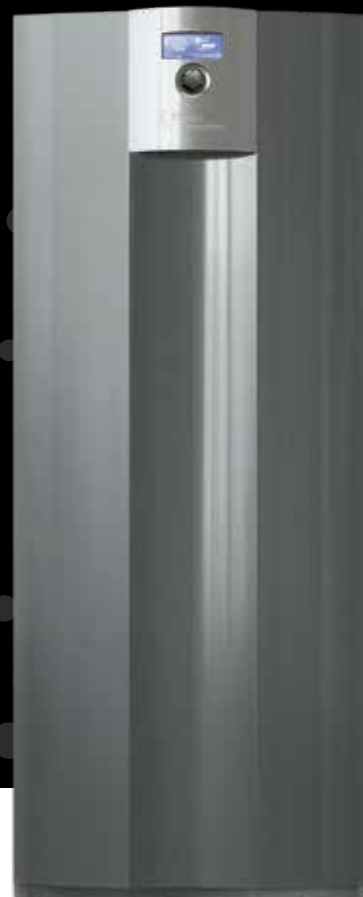
This highly functional yet quiet heat pump can be flexibly adapted to any requirement – e.g. in combination with a solar energy system.

**COOLING INCLUDED**



## Your benefits at a glance

- + Fast installation thanks to modular system
- + Power on demand (frequency controlled)
- + Cascade connection possible
- + Optional cooling function
- + Simple transport and assembly
- + Versatile combinations (e.g. solar, ventilation)
- + Ideal for new-builds, refurbishment projects and to replace older models



## Supplies heat on demand

The frequency-controlled system adjusts the amount of heat that is generated to meet the current demand within the building and outputs heat accordingly – ensuring optimum heating efficiency at all times.

## Can be combined with solar systems, etc.

Depending on the requirements or building type, our heat pumps can be combined with other heating and regenerative energy systems – in addition, multiple units can be cascaded if a higher output is required.

## Easy installation – virtually anywhere

Thanks to their small footprint, our heat pumps can also be installed in small basements or storage rooms – the pre-assembled units enable quick and easy installation.



## SWC/SWCV

Type	Art. No.	Performance data				Unit				
		Heating power BO/W35 [kW]	Cooling power B15/W25 max. [kW]	COP BO/W35 partial load	CO <sub>2</sub> equivalent [t CO <sub>2</sub> ]	Hermetically sealed	Coolant Filling volume [kg]	Dimensions W x D x H [mm]	Weight	
Internal basic unit								total [kg]	without module box [kg]	
SWC 42H3	10068041	4.70	-	4.70	2.2	✓	1.05 <sup>3)</sup>	598 x 665 x 1500	155	65
SWC 82H3	10068241	7.70	-	4.90	3.6	✓	1.72 <sup>3)</sup>	598 x 665 x 1500	175	65
SWC 102H3	10068342	9.34	-	5.05	4.1	✓	1.98 <sup>3)</sup>	598 x 665 x 1500	180	65
SWC 122H3	10068442	12.18	-	5.00	4.7	✓	2.25 <sup>3)</sup>	598 x 665 x 1500	185	65
SWC 142H3	10068542	13.50	-	5.08	5.0	✓	2.38 <sup>3)</sup>	598 x 665 x 1500	200	65
SWC 172H3	10068642	16.86	-	4.93	5.5	✓	2.65 <sup>3)</sup>	598 x 665 x 1500	205	65
SWC 192H3	10068742	18.60	-	4.87	5.8	✓	2.80 <sup>3)</sup>	598 x 665 x 1500	210	65
SWC 42K3	10069041	4.70	4.3	4.70	2.2	✓	1.05 <sup>3)</sup>	598 x 665 x 1500	163	65
SWC 82K3	10069241	7.70	7.0	4.90	3.6	✓	1.72 <sup>3)</sup>	598 x 665 x 1500	183	65
SWC 102K3	10069342	9.34	8.6	5.05	4.1	✓	1.98 <sup>3)</sup>	598 x 665 x 1500	188	65
SWC 122K3	10069442	12.18	10.8	5.00	4.7	✓	2.25 <sup>3)</sup>	598 x 665 x 1500	193	65
SWC 142K3	10069542	13.50	12.5	5.08	5.0	✓	2.38 <sup>3)</sup>	598 x 665 x 1500	212	65
SWC 172K3	10069642	16.86	14.9	4.93	5.5	✓	2.65 <sup>3)</sup>	598 x 665 x 1500	217	65
SWC 192K3	10069742	18.60	16.6	4.87	5.8	✓	2.80 <sup>3)</sup>	598 x 665 x 1500	222	65
SWCV 62H3	10071541	1.25/ 5.95 <sup>2)</sup>	-	4.86 <sup>1)</sup>	2.1	✓	1.16 <sup>4)</sup>	598 x 665 x 1500	145	65
SWCV 92H3	10076741	1.77/ 8.65 <sup>2)</sup>	-	4.76 <sup>1)</sup>	2.2	✓	1.25 <sup>4)</sup>	598 x 665 x 1500	149	65
SWCV 122H3	10072841	2.48/ 13.56 <sup>2)</sup>	-	4.87 <sup>1)</sup>	3.5	✓	2.00 <sup>4)</sup>	598 x 665 x 1500	168	65
SWCV 162H3	10071641	3.20/ 17.20 <sup>2)</sup>	-	4.92 <sup>1)</sup>	3.9	✓	2.20 <sup>4)</sup>	598 x 665 x 1500	180	65
SWCV 62K3	10071741	1.25/ 5.95 <sup>2)</sup>	5.8	4.86 <sup>1)</sup>	2.1	✓	1.16 <sup>4)</sup>	598 x 665 x 1500	153	65
SWCV 92K3	10076841	1.77/ 8.65 <sup>2)</sup>	7.8	4.76 <sup>1)</sup>	2.2	✓	1.25 <sup>4)</sup>	598 x 665 x 1500	157	65
SWCV 122K3	10072941	2.48/ 13.56 <sup>2)</sup>	12.3	4.87 <sup>1)</sup>	3.5	✓	2.00 <sup>4)</sup>	598 x 665 x 1500	176	65
SWCV 162K3	10071841	3.20/ 17.20 <sup>2)</sup>	14.9	4.92 <sup>1)</sup>	3.9	✓	2.20 <sup>4)</sup>	598 x 665 x 1500	188	65

Specifications in accordance with EN 14511 | <sup>1)</sup> specifications for partial load | <sup>2)</sup> min./max. specifications | <sup>3)</sup> filled with refrigerant R410A, GWP 2.088 | <sup>4)</sup> filled with refrigerant R407C, GWP 1.774

# Powerful and economical:

## SW

This powerful heat pump reaches maximum output on demand – up to 120 kW is possible with a cascaded system.

COOLING INCLUDED



### Your benefits at a glance

- + Heating, hot water
- + Optional cooling function (cooling package)
- + Cascadable for max. 120 kW output
- + Can be combined with solar thermal energy, etc.
- + Highly flexible installation options
- + Simple transport and assembly
- + Proven control concept
- + Ideal for new-builds, refurbishment projects and to replace older models



### Also suitable for apartment buildings

For all buildings with higher energy requirements (such as smaller apartment buildings) several heat pumps can be interconnected (cascade connection).

### Fast delivery and installation

The cool box can be removed for transport, and installation of the heat pump is both quick and easy. Thanks to its compact design and whisper-quiet operation, it can also be installed in living areas.

### Ready for every requirement

If required, the heat pumps can be combined with renewable energy generators (e.g. photovoltaics). An optional cooling function is also available – for a pleasant living climate in high summer temperatures.



## SW

Type	Art. No.	Performance data			Unit				
		Heating power BO/W35 [kW]	COP BO/W35 partial load	CO <sub>2</sub> equivalent [t CO <sub>2</sub> ]	Hermetically sealed	Coolant Filling volume [kg]	Dimensions W x D x H [mm]	Weight	
External basic unit							total [kg]	without module box [kg]	
SW 42H3	10070041	4.7	4.70	2.2	✓	1.05	598 x 640 x 850	135	45
SW 82H3	10070241	7.7	4.90	3.6	✓	1.72	598 x 640 x 850	155	45
SW 102H3	10070342	9.3	5.05	4.1	✓	1.98	598 x 640 x 850	160	45
SW 122H3	10070442	12.2	5.00	4.7	✓	2.25	598 x 640 x 850	165	45
SW 142H3	10070542	13.5	5.08	5.0	✓	2.38	598 x 640 x 850	175	45
SW 172H3	10070642	16.9	4.93	5.5	✓	2.65	598 x 640 x 850	180	45
SW 192H3	10070742	18.6	4.87	5.8	✓	2.80	598 x 640 x 850	185	45
SW 232H3	10074642	22.4	4.95	6.7	✓	3.20	598 x 653 x 1500	207	65
SW 262H3	10074742	25.6	4.92	6.9	✓	3.30	598 x 653 x 1500	212	65
SW 302H3	10074842	29.6	4.88	7.2	✓	3.70	598 x 653 x 1500	219	65

Specifications in accordance with EN 14511 | filled with refrigerant R410A, GWP 2.088

# Small yet powerful: **SWP**

This compact heat pump provides ample heating energy for larger houses – with extremely low-noise operation.

COOLING  
INCLUDED



## Your benefits at a glance

- + Heating, cooling and waste-heat utilisation
- + Compact dimensions (small footprint)
- + For apartment buildings and industrial facilities
- + Soundproofed housing
- + Silent mode for nighttime operation
- + Direct service access via the front panel
- + Simple transport and connections
- + Ideal for new-builds, refurbishment projects and to replace older models

**37 – 53 KW\*** \*depending on the model





### Perfectly at home virtually anywhere

Thanks to its compact dimensions, this efficient ground source heat pump boasts a small footprint and offers a great deal of planning flexibility. The heating technology is discreetly hidden – and saves valuable space.

### Very low noise emissions

Thanks to the sound-optimised housing and the innovative Silent Mode, this heat pump is extremely quiet – it can be placed near the property's boundaries without disturbing the neighbours.

### Whether residential or commercial

For buildings with higher energy requirements, e.g. apartment buildings or commercial businesses, this powerful heat pump is the optimal solution. It can also be combined with a photovoltaic system if required.



## SWP

Type	Art. No.	Performance data		Unit	
		Heating power BO/W35 [kW]	COP BO/W35 partial load	Dimensions W x D x H [mm]	Weight [kg]
SWP 371 <sup>1)</sup>	10061402	37.2	4.80	1350 x 1009 x 1030	371
SWP 451 <sup>1)</sup>	10061502	45.0	4.80	1350 x 1009 x 1030	385
SWP 581 <sup>1)</sup>	10061602	57.6	4.80	1350 x 1009 x 1030	441
SWP 691 <sup>1)</sup>	10061702	68.5	4.60	1350 x 1009 x 1030	484
SWP 291H <sup>1)</sup>	10061802	25.9	4.37	1350 x 1009 x 1030	319
SWP 561H <sup>1)</sup>	10062102	53.8	4.50	1350 x 1009 x 1030	521

All specifications in accordance with EN 14511 | 1) delivery time available on request, motor protection switch and load protection for brine circulation pump to be provided by the customer.

# Make your heat pump even more efficient!

The alpha innotec multifunction tank allows our heat pumps to be easily combined with photovoltaic or solar thermal systems. And since the buffer tank and hot water heating are combined in a single unit, this frees up more space in the boiler room.

Domestic hot water is provided using the hygienic continuous flow principle. This further reduces heating costs and CO<sub>2</sub> emissions – for an optimal carbon footprint when heating the building.



In combination with a

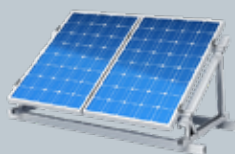
## multifunction tank

Domestic water heating with ...

... solar thermal energy



... photovoltaics



... wood-burning stoves connected to the water system



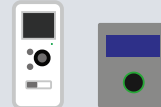
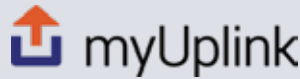
# Controlling your heat pump just got even easier!

Whether for monitoring or remote diagnostics – our proven **heatpump24** remote maintenance service allows our heat pumps to be inspected and adjusted from anywhere in the world. The free **myUplink platform**, which puts homeowners in control of their heat pump at all times, has now been added – for example, users can now conveniently adjust the system temperature remotely in real time via their smart-phone. In addition, the new myUplink service features a cloud-to-cloud solution that allows the heat pump to be controlled via a voice assistant, such as Alexa or GoogleHome, and also via the Uponor Smatrix control system for panel heating.



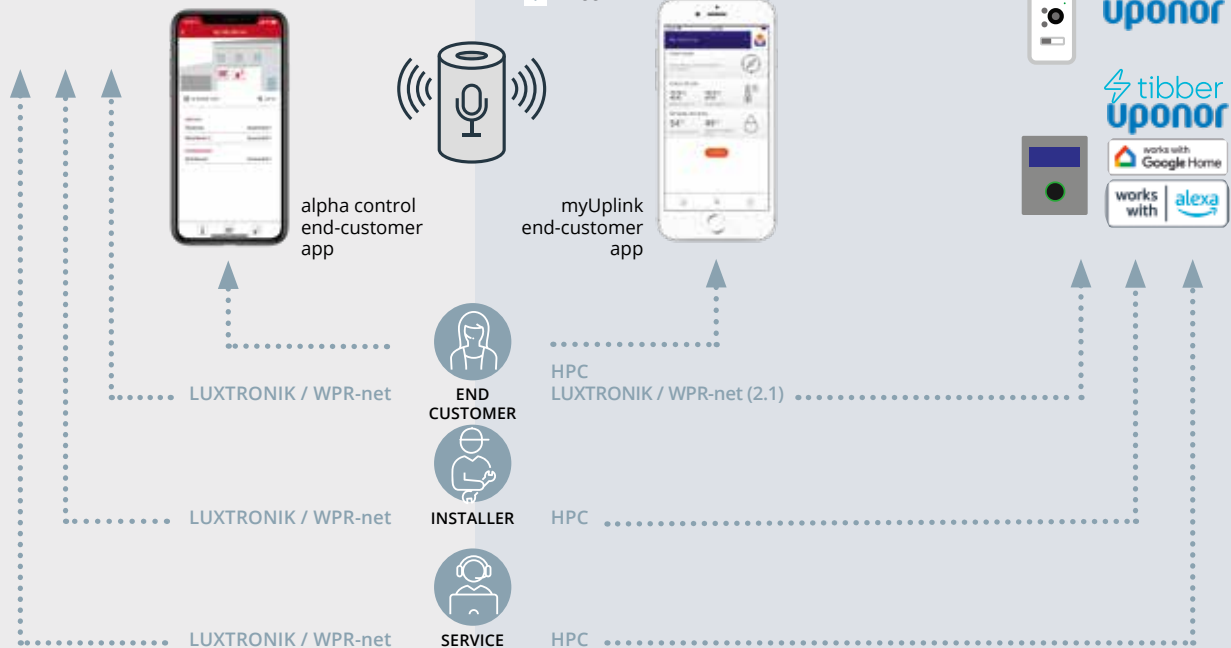
**heatpump24 – perfect for the installer**

- + Service platform for remote settings, device analysis and remote maintenance.
- + Operating status, running times, temperatures, settings and much more can be viewed and modified easily from anywhere in the world.
- + Immediate notification in the event of a fault – optionally via e-mail or text message
- + Errors can be read off and reset



**myUplink – maximum convenience for the user**

- + End-customer registration at [www.my-uplink.com](http://www.my-uplink.com)
- + Access to the heat pump system via the **myUplink App** and **myUplink online portal**
- + Receipt of error messages
- + Push messages for software updates or faults via the **myUplink app**
- + Display and setting options for the following unit functions: heating, cooling, hot water, swimming pool
- + Customisable dashboard with history feature
- + Connectivity to Google Home and Alexa voice assistants
- + Demand-controlled balancing via Uponor Smatrix individual room control system
- + Data exchange in real time
- + Free



# Always in safe hands – Services from **alpha innotec**

- **Planning support** – heating load calculation, special planning software, Technical Service Centre
- **alpha subsidy service** – minimum effort guarantees maximum subsidies
- **Connect up heat sources with the company Erdwärme PLUS** incl. planning/design, preliminary geological studies and approval applications through to detailed documentation
- **alpha customer service** – commissioning, warranty, maintenance
- **alpha home** – intelligent individual room control system with control via app
- **alpha service app** – for rapid assistance in the event of faults



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