



Luft/Water heat pumps

Heat pump with hybrid indoor unit for retrofitting gas/oil heating systems with free environmental heat:

VITOCAL 250-AH



Hybrid solution

Recommended for retrofitting existing systems, thereby reducing energy costs.

The new generation of heat pumps



Viessmann also offers the right system for retrofitting existing heating systems with free environmental heat: Vitocal 250-AH



CLIMATE PROTECT ⁺⁺⁺



ECO SELECT



OPTIPERFORM



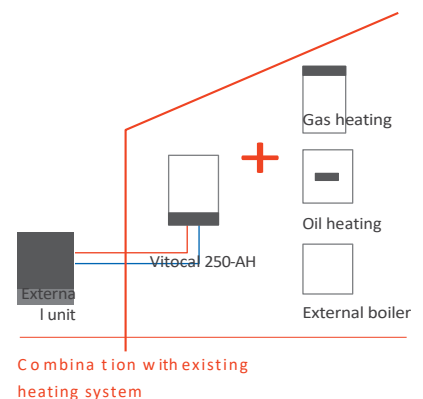
SUPER SILENT

Reliable, compact and more environmentally friendly than ever before - with the new, innovative heat pump technology from Viessmann, environmental heat can be used particularly efficiently for heating and cooling.

With a flow temperature of up to 70 °C, the Vitocal 250-AH has been specially developed for modernization. radiators can continue to be used. Underfloor heating is not absolutely necessary. Its high energy efficiency, convenient app operation, sustainable operation and attractive design impressive.

Advantageous combination for existing heating systems

The Vitocal 250-AH version particularly suitable for supplementing an existing heating system. In this case, the heat pump provides the base load. The boiler is only switched on at particularly low temperatures.



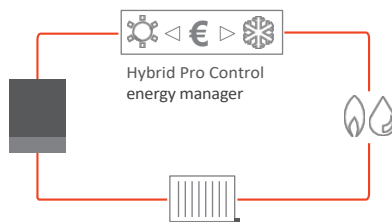
Climate Protect⁺⁺⁺
protects the environment
and the climate

The Vitocal 250-AH heat pumps use the natural refrigerant R290 with a particularly low GWP100 of 0.02 (Global Warming Potential).



Eco Select - switch between the most cost-effective or most sustainable operating mode

Hybrid appliances from Viessmann work with Hybrid Pro Control. The integrated energy manager regulates the heating system according to the general conditions such as the outside or flow temperature as well as the individual settings. This can include energy prices, the amount of electricity you generate yourself, emissions or the heat requirement. For example, you can choose whether the appliance automatically uses the currently cheapest energy source in economy mode. Or whether it runs in ecological mode with the lowest CO₂ emissions per kilowatt hour of heat energy generated.



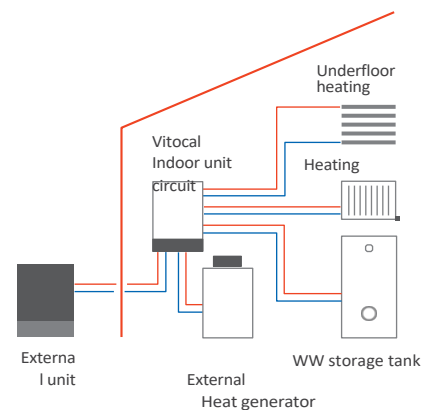
* The Viessmann Climate Protect label is based on the TEWI indicator (total equivalent warming impact), which characterizes the life cycle efficiency of the appliance and the global warming potential of the refrigerant used.

VITOC AL 250 -AH

2, 1 to 18, 5 kW (A7/W35)

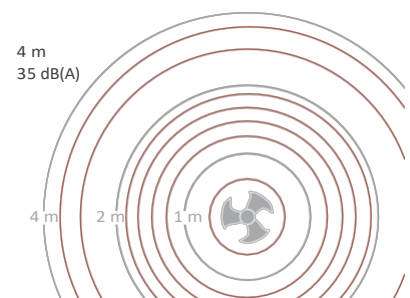
OptiPerform - reliable and highly efficient

The heat pumps are equipped with the patented Hydro AutoControl®. It stands for and highly efficient operation over the entire service life. Thanks to OptiPerform, installation saves time and money. The space required is up to 60 percent smaller than for conventional systems.



Super Silent - whisper quiet in full and partial load

operation Viessmann heat pumps are among the quietest of their kind thanks to Advanced Acoustic Design⁺. In conjunction with intelligent speed control, the fan produces only low noise emissions in full and partial load operation. This allows The outdoor unit can also be easily installed in densely built-up areas, such as terraced houses or close to the property boundary.





Outdoor unit
2.1 to 8.0 kW (A7/ W35)

- 1** Evaporator with corrugated fins to increase efficiency
- 2** Power-saving, speed-controlled DC fan
- 3** Speed-controlled rolling piston
- 4** Inverter with internal heat exchanger (economizer)
- 5** Condenser



Outdoor unit
2.6 to 18.5 kW (A7/ W35)

- 1** Coated evaporator with corrugated fins to increase efficiency
- 2** Energy-saving, speed-controlled DC fan
- 3** Particularly quiet-running, speed-controlled scroll compressor
- 4** Inner heat exchanger (economizer)
- 5** Condenser

VITOC AL 250 -AH

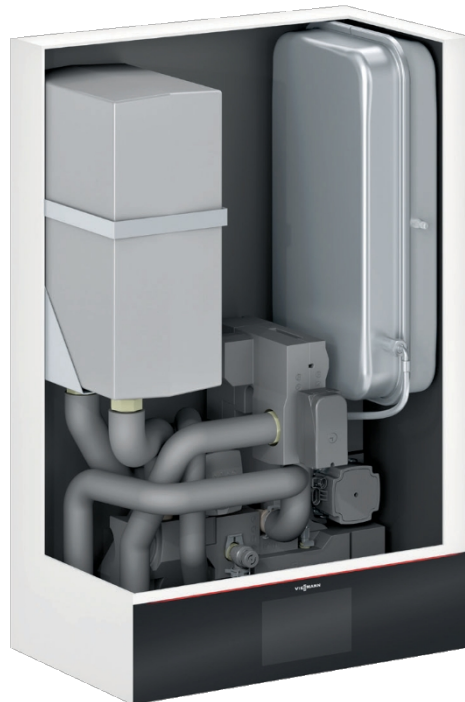
2,1 to 18,5 kW (A7/W35)

Vitocal 250-AH indoor unit

Heating water buffer tank (16 liter capacity)
Diaphragm expansion vessel (18 liter capacity)
3-way mixing valve for hybrid functions
4/3-way valve heating/DHW heating/bypass
Secondary pump (high-efficiency circulation pump)
Safety valve
Heat pump control with 7-inch color touch display



COOLING
FUNCTION



Vitocal 250-AH outdoor unit
2.1 to 8.0 kW (A7/ W35) with
designer floor console



Vitocal 250-AH outdoor unit
2.6 to 18.5 kW (A7/W35) with
designer floor console



Vitocal 250-AH outdoor unit
2.1 to 8.0 kW (A7/W35) with
designer wall bracket



Outdoor unit 2.6 to 18.5 kW
(A7/W35) of the Vitocal 250-
AH with floor console

At a glance :

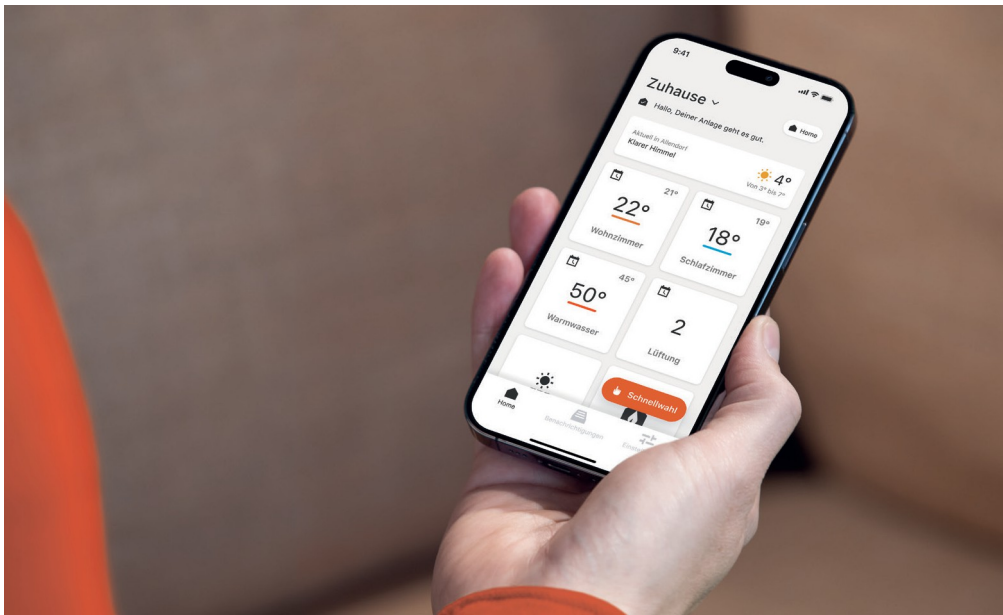
- + With a flow temperature of 70 °C (at an outside temperature down to -10 °C), ideally suited for modernization
- + Climate Protect⁺⁺⁺ : Protects the environment and the climate - natural Refrigerant R290 with a particularly low GWP100 of 0.02 (GWP= Global Warming Potential)
- + OptiPerform: Reliable operation with high efficiency
- + Whisper-quiet operation (Super Silent)
- + Low operating costs due to high efficiency, COP (coefficient of performance) according to EN 14511: up to 5.3 (for A7/W35)
- + 60 % less space required than comparable models
- + Integrated energy management system ensures transparency in energy consumption and costs
- + Simple operation via ViCare app
- + Simple integration into the existing heating system including the existing heat generator

Tip: Heat pumps Protect

The all-risk protection for outdoor units protects against theft and all natural hazards, for example.

For detailed information,
visit www.peccon.de/waermepumpen
or contact us directly
waermepumpen@peccon.de
and by telephone at +49 941 38339778

Viessmann One Base makes the home more comfortable, efficient and future-proof.



Comfort at the touch of a finger:
simple and convenient control of the
energy system from anywhere



VISSMANN
ONE BASE

Viessmann One Base networks digital services with the complete energy systems of heat pumps, ventilation systems, energy storage systems and photovoltaic systems.

All Viessmann systems and smart home solutions on one platform

With Viessmann One Base, the entire energy system is operated via just one app - simply, reliably and quickly. The new platform connects at home, all appliances and electronic applications can be combined into a single climate and energy solution. With advantageous consequences: less energy consumption thanks to intelligent, a smaller CO₂ footprint thanks to the integration of self-produced PV electricity and a constantly updated overview of running costs. Viessmann One Base makes your own four walls fit for a climate-friendly future!

Only one system is required: Viessmann One Base

The platform integrates smart home solutions - seamlessly and wirelessly. It can be easily expanded, for example to include a wall box for charging your own electric car.

As a member of the ViShare Energy Community*, the responsible use of electricity and heat can also be easily tracked via Viessmann One Base.

Viessmann One Base is open for all additional digital services. The integrated services and devices can be easily controlled using voice assistants such as Amazon Alexa or Google Assistant. The platform is the basis for an expandable and future-proof energy system in every home.

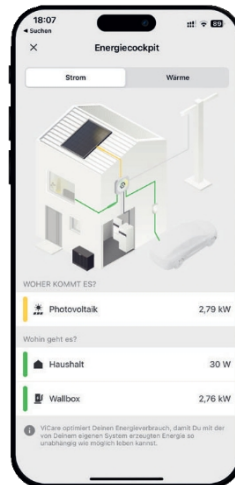
Around the clock in the best hands

All you need to communicate with Viessmann One Base is the free ViCare app; the integrated energy management system takes care of the rest. Viessmann One Base is operated quickly and easily via the app. In addition, the installer can keep an eye on the system remotely and correct any immediately electronically. This eliminates unnecessary trips and appointments with the specialist partner.

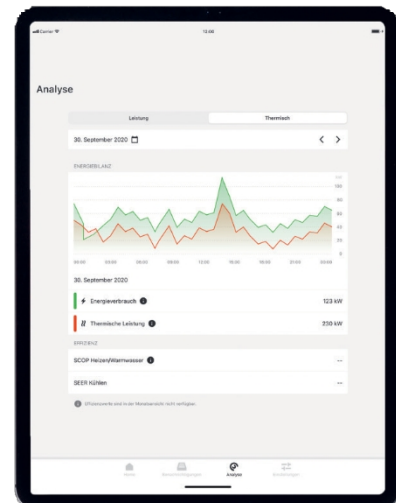


ViCare radiator thermostats make it easy to control individual rooms via app or voice command, e.g. using Amazon Alexa.

* The contractual partner in the ViShare Energy Community is Energy Market Solutions GmbH (EMS).



With the ViCare app's energy cockpit, users can keep an eye on their energy flows.



Current and past energy flows are visualized in the energy balance. It documents the performance of the overall system.

Viessmann One Base - many advantages at a glance

- + **Convenience:** control of the energy system via app. Linking with other devices and services such as Amazon Alexa, Google Assistant and others on request
- + **Efficiency:** By networking and energy flows, the platform ensures particularly efficient and cost-effective operation
- + **Security:** The specialist company is automatically informed of any irregularities and can rectify possible causes online
- + **Future-proof:** long-term integration of all desired digital services, upgrades and product enhancements, example photovoltaics with energy storage and wallbox for e-mobility

Air/water heat pumps for hybrid operation

VITOCAL 250-AH

Vitocal 250-AH HAWO-M-AC(-AF)	Type V	252.A04 230	252.A06 230	252.A08 230	252.A10 230				
Tension	Type V					252.A10 400	252.A13 400	252.A16 400	252.A19 400
Vitocal 250-AH HAWO-AC(-AF)	Type V								
Tension	Type V								
Heating performance data according to EN 14511									
Nominal heat output									
Operating point A7/ W35	kW	4,0	4,8	5,6	7,3	7,3	8,1	8,5	9,0
Operating point A-7/ W35	kW	3,8	5,6	6,5	9,7	9,7	11,1	11,7	12,3
Heating performance data according to EN 14511 (A7/ W35, spread 5 K)									
Nominal heat output		5,1	5,1	4,9	5,3	5,3	5,2	5,3	5,3
Coefficient of performance $\dot{i}$ (COP) in heating mode	kW	2,1 - 4,0	2,1 - 6,0	2,1 - 8,0	2,6 - 12,0	2,6 - 12,0	3,0 - 13,4	7,4 - 17,1	7,4 - 18,5
Power control									
Heating performance data according to EN 14511 (A-7/ W55, spread 8 K)									
Nominal heat output	kW	3,5	5,2	6,2	9,2	9,2	10,6	11,8	12,5
Coefficient of performance $\dot{i}$ (COP) in heating mode		2,2	2,2	2,1	2,1	2,1	2,3	2,3	2,2
Sound power level	dB(A)	49	49	49	54	54	54	49	50
Cooling performance data according to EN 14511 (A35/ W18, spread 5 K)									
Nominal cooling capacity	kW	4,0	5,0	6,0	6,3	6,5	8,2	9,5	10,5
Coefficient of performance EER		4,7	4,4	4,1	5,3	5,3	4,9	5,4	5,2
Power control	kW	3,2 - 4,0	3,2 - 5,5	3,2 - 6,7	6,3 - 12,9	6,5 - 13,0	6,8 - 15,1	9,5 - 16,8	10,5 - 18,7
Refrigeration circuit									
Refrigerant		R290	R290	R290	R290	R290	R290	R290	R290
- Filling quantity on delivery	kg	1,2	1,2	1,2	2	2	2	2	2
- Global warming potential (GWP100 according to IPCC AR6)		0,02	0,02	0,02	0,02	0,02	0,02	0,02	0,02
- CO ₂ equivalent	t	0,000024	0,000024	0,000024	0,00004	0,00004	0,00004	0,00004	0,00004
Indoor unit dimensions									
Length x width x height	nm	360 x 600 x 920							
Dimensions outdoor unit									
Length x width x height	mm	600 x 1144 x 841			600 x 1144 x 1382			680 x 1144 x 1382	
Weight indoor unit	kg	57	57	57	57	57	57	57	57
Weight outdoor unit	kg	162	162	162	215	221	221	257	257
Energy efficiency η_s at W35	%	180	183	176	197	197	195	190	191
Nominal heat output P_{rated} (A-10/ W35)	kW	4,1	5,4	6,5	10,0	10	12,5	13,3	13,6
Energy efficiency η_s for W55	%	130	141	140	152	152	154	153	152
Nominal heat output P_{rated} (A-10/ W55)	kW	3,8	5,1	6,2	9,6	9,6	12,2	12,1	13,2

Measurement of the sound power sum level based on EN ISO 12102/EN ISO 9614-2, accuracy class 3 in night mode
Energy efficiency η_s , P_{rated} : Heating performance data in accordance with EU Regulation No. 813/2013 under average climate conditions for low temperature application (W35) and medium temperature application (W55)

Product markets

- Air/water heat pumps in monobloc design, prepared for hybrid operation with external heat generator up to 36 kW
- For space heating/cooling and domestic hot water heating
- Maximum flow temperature up to 70 °C at an outside temperature of -10 °C
- Monobloc indoor unit with heat pump control, high-efficiency circulation pump for the secondary circuit, 4/3-way valve,
- Safety group
- Integrated hybrid hydraulics and interfaces for controlling the external heat generator Integrated heating
- water buffer tank and overflow valve
- Built-in: Diaphragm pressure expansion vessel 18 l and volume flow sensor



Your specialist partner