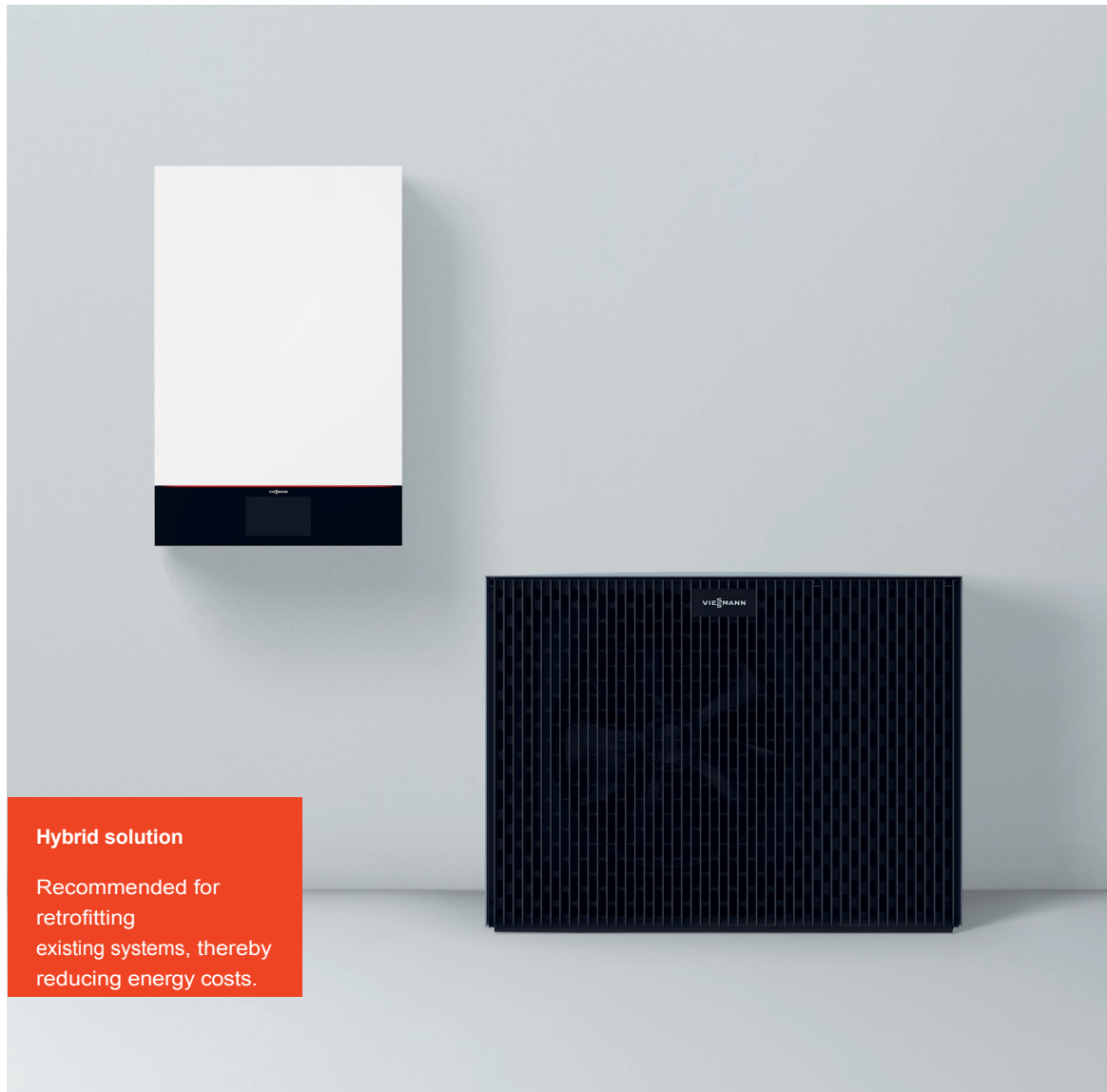




Split-Luft/Water heat pumps

Hybrid heat pump for retrofitting existing heat pumps  
Gas/oil heating systems with free environmental heat:  
**VITOCAL 250-SH**



## The new generation of heat pumps



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



**CLIMATE PROTECT<sup>+++</sup>**



**ECO SELECT**



**OPTIPERFORM**



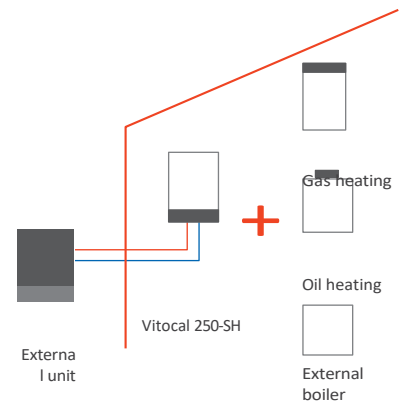
**SUPER SILENT**

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

Impressive features include high energy efficiency, convenient app operation, sustainable operation and appealing design.

### Advantageous combination for existing heating systems

The Vitocal 250-SH 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.



Combination with existing  
heating system

### Climate Protect<sup>++</sup> protects the environment and the climate

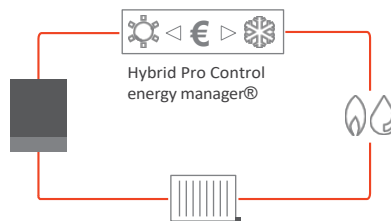
The new Vitocal 250-SH heat pumps use the refrigerant R32 with a low GWP100 of 771 (Global Warming Potential).



**CLIMATE PROTECT<sup>++</sup>**

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

Hybrid appliances from Viessmann work with Hybrid Pro Control<sup>®</sup>. The integrated energy manager regulates the heating system according to the framework conditions such as the outside or flow temperature as well as the individual. These can be energy prices, the amount of self-generated electricity, CO<sub>2</sub> emissions or the heat requirement. For example, you can choose whether the appliance uses the currently cheapest energy source in economy mode or whether it runs in ecological mode with the lowest CO<sub>2</sub> per kilowatt hour of heat energy generated.

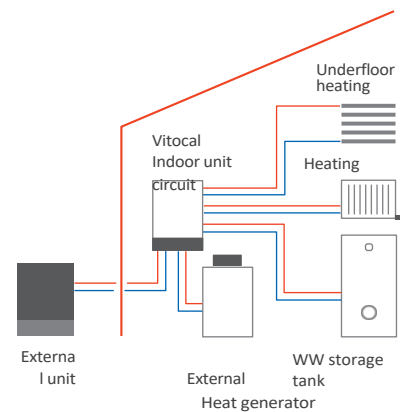


### ECO SELECT

\* 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.

### OptiPerform - reliable and highly efficient

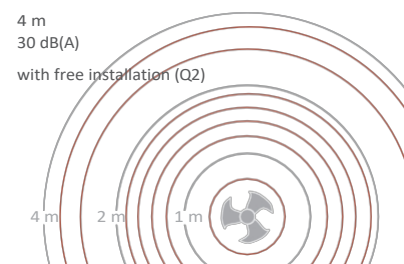
The heat pumps are equipped with the patented Hydro AutoControl<sup>®</sup>. It stands for and highly efficient operation over the entire service life. Thanks to OptiPerform, installation saves time and money. The space required is up to 60 % smaller than for conventional systems.



### OPTIPERFORM

### Super Silent - whisper-quiet in full and partial load operation

Thanks to Advanced Acoustic Design<sup>+</sup>, Viessmann heat pumps are among the quietest of their kind. 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.



### SUPER SILENT

**Vitocal 250-SH**

Air/water heat pumps for hybrid operation in split design

**Vitocal 250-SH outdoor unit**

- 1** Coated evaporator with corrugated fins to increase efficiency
- 2** Energy-saving, speed-controlled DC fan
- 3** Speed-controlled compressor
- 4** Electronic expansion valve

## VITOC AL 250 - SH

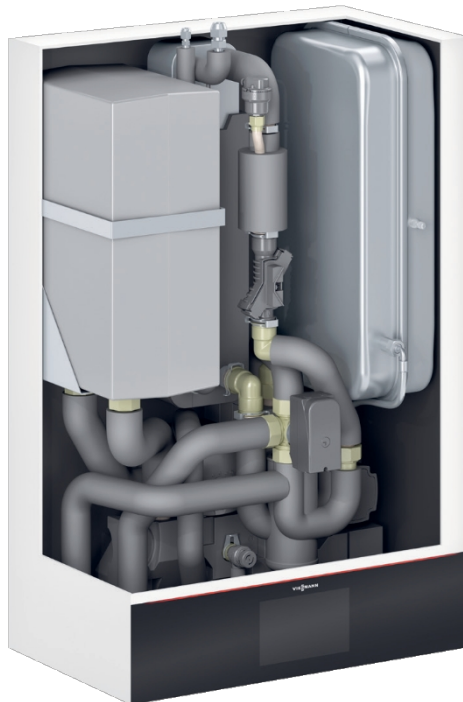
2, 6 to 10, 4 k W

### Vitocal 250-SH indoor units

- 1 heating water buffer tank (16 l capacity)
- 2 Diaphragm expansion tank (18 l capacity)
- 3 3-way mixing valve for hybrid functions
- 4 4/3-way valve heating/ DHW heating/bypass
- 5 Secondary pump (high-efficiency circulation pump)
- 6 Safety valve
- 7 Heat pump control with 7-inch color touch display
- 8 Volume flow sensor



COOLING  
FUNCTION



Vitocal 250-SH outdoor unit with designer floor console

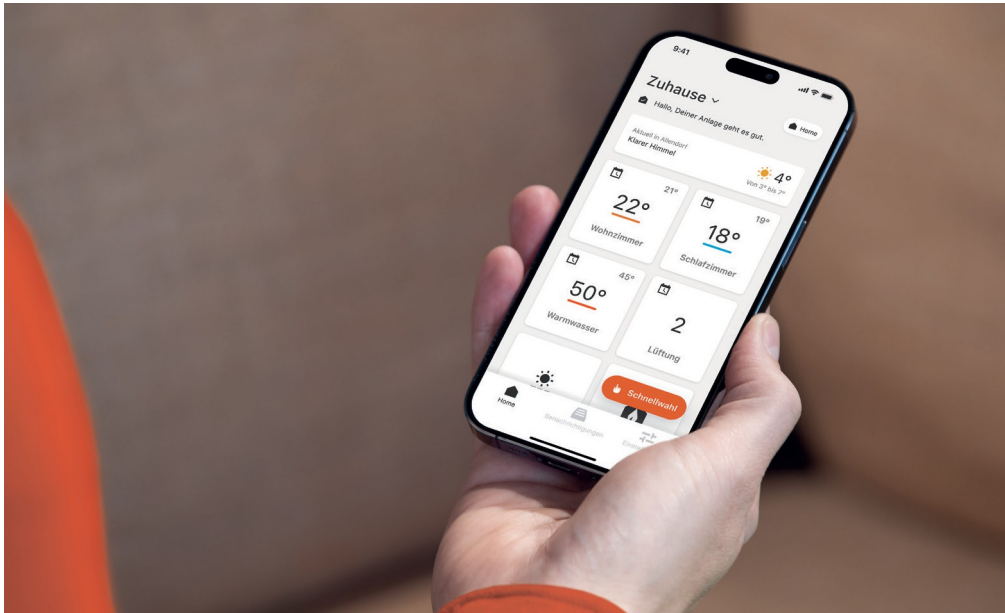


Vitocal 250-SH outdoor unit with designer wall bracket

### At a glance :

- + Protects the environment and the climate (Climate Protect )<sup>++</sup>
- + Reliable operation with high efficiency (OptiPerform)
- + Whisper-quiet operation (Super Silent)
- + Low operating costs due to high efficiency, COP (coefficient of performance) according to EN 14511: up to 5.0 (for A7/W35)
- + Ideal for combining with a photovoltaic system and electricity storage unit
- + 60 % less space required than comparable models
- + Integrated energy management system ensures transparency in energy consumption and costs
- + Attractive, high-quality design for indoor and outdoor use
- + Active cooling in summer thanks to cooling function
- + Simple operation via ViCare app

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 all appliances and electronic applications at home into a single climate and energy solution. With beneficial consequences: less energy consumption thanks to intelligent , a smaller CO<sub>2</sub> 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.

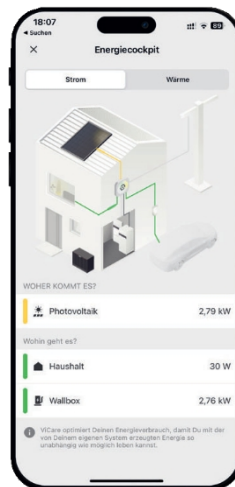
### Around the clock in the best hands

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.

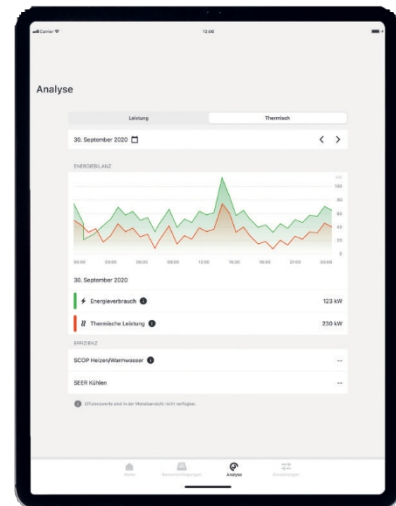


ViCare radiator thermostats make it easy to control individual rooms via app or voice command, e.g. using Amazon Alexa.

\* 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 power storage and wallbox for e-mobility

## Split air/water heat pumps for hybrid operation

# VITOCAL 250-SH

<b>Vitocal 250-SH</b> HAWB-M-AC(-AF)	Type	252.B06	252.B08	252.B10
<b>Tension</b>	V	230	230	230
<b>Heating performance data</b> according to EN 14511				
<b>Nominal heat output</b>				
Operating point A7/ W35	kW	5,3	6,8	8,3
Operating point A-7/ W35	kW	5,5	6,3	7,8
<b>Heating performance data</b> according to EN 14511 (A7/ W35, spread 5 K)				
<b>Nominal heat output</b>				
Coefficient of performance $\eta$ (COP) in heating mode	kW	5,3	6,8	8,3
Power control	kW	5,0	5,0	4,9
		2.6 to 7.5	2.6 to 9.0	2.6 to 10.4
<b>Sound power level</b>	dB(A)	50	50	50
<b>Cooling performance data</b> according to EN 14511 (A35/ W18, spread 5 K)				
<b>Cooling capacity</b>				
Coefficient of performance EER	kW	5,4	6,7	8,8
Cooling capacity max.	kW	5,9	5,1	4,9
		8,5	9,5	10,6
<b>Refrigeration circuit</b>				
Refrigerant		R32	R32	R32
- Filling quantity on delivery	kg	1,50	1,50	1,50
- Global warming potential (GWP100 according to IPCC AR6)		771	771	771
- CO <sub>2</sub> equivalent	t	1,16	1,16	1,16
<b>Indoor unit dimensions</b>				
Length x width x height	mm	360 x 600 x 920	360 x 600 x 920	360 x 600 x 920
<b>Dimensions outdoor unit</b>				
Length x width x height	mm	500 x 1080 x 850	500 x 1080 x 850	500 x 1080 x 850
<b>Weight indoor unit</b>	kg	54	55	55
<b>Weight outdoor unit</b>	kg	95	95	95
<b>Energy efficiency class</b>	III*	A+++ / A++	A+++ / A++	A+++ / A++

Measurement of the sound power sum level based on EN ISO 12102/EN ISO 9614-2, accuracy class 3 in night mode (level 2)

Energy efficiency class according to EU Regulation No. 813/2013 Heating, average climate conditions - low temperature application (W35)/medium temperature application (W55)

### Product features

- Air/water heat pumps in split design
- For space heating/cooling and domestic hot water heating
- Maximum flow temperature: 60 °C
- Split indoor unit with heat pump control, high-efficiency circulation pump for the secondary circuit, 4/3-way valve and bypass
- Integrated instantaneous water heater
- Integrated heating water buffer tank and overflow valve
- Built-in: Diaphragm pressure expansion vessel 18 l and volume flow sensor



Your specialist partner

9447 464 - 2 EN 04/2023

Content protected by copyright.  
Copies and other use only with prior consent. Subject to change without notice.