



Air/water heat pumps | **VITOCAL 250-A**
from 2.6 to 18.5 kW

Highly suitable for
modernisation



Vitocal 250-A monoblock heat pumps with up to 70 °C flow temperature are ideally suited to modernisation projects.

 | CLIMATE PROTECT 

 | OPTIPERFORM

 | SUPER SILENT

Highly suitable for modernisation

Reliable, compact and more environmentally responsible than ever – the innovative heat pump technology from Viessmann makes particularly efficient use of green energy for heating and cooling.

With a flow temperature of up to 70 °C, the Vitocal 250-A was specially developed for modernisation projects. Existing radiators can continue to be used. Underfloor heating is not essential. The high energy efficiency, convenient control via app, sustainable operation and attractive design are all convincing features.

Viessmann One Base – networks digital services with the complete energy systems

With Viessmann One Base, you use a convenient and futureproof communication platform that integrates all products. Not only can the entire energy system be operated quickly, simply and reliably with a single app – other systems and smart home solutions can be integrated too.

Vitocal 250-A Modular

Vitocal 250-A Modular is the cost effective version, especially for systems with heating water buffer cylinder and without integral expansion vessel. This version is especially recommended for systems with several heating circuits and a separate heating water buffer cylinder, or when using freshwater systems.

CLIMATE PROTECT⁺⁺⁺ *

Climate Protect⁺⁺⁺ for environment and climate

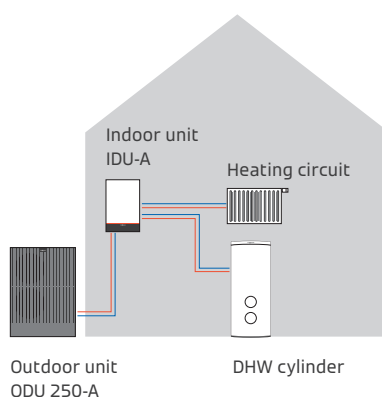
Vitocal 250-A and Vitocal 250-A Compact heat pumps use the natural refrigerant R290 with a particularly low GWP100 of 0.02 (global warming potential).



OPTIPERFORM

OptiPerform - reliable and highly efficient

The heat pumps** feature patented Hydro AutoControl® hydraulics. This ensures reliable and highly efficient operation over the entire service life. OptiPerform saves time and money during installation. The space required is up to 60 % smaller than for conventional systems.



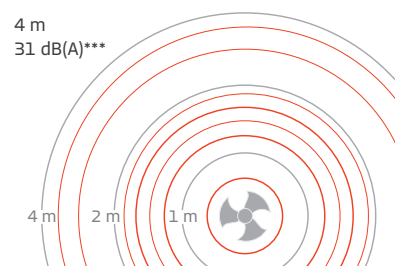
* The Viessmann Climate Protect label is based on the TEWI indicator (total equivalent warming impact), which quantifies the lifecycle efficiency of the appliance and the global warming potential of the refrigerant used.

** Not applicable to Vitocal 250-A Modular

SUPER SILENT

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 sound emissions in full and partial load operation. This means that the outdoor unit can be installed even in densely built-up areas such as terraced housing or close to the property boundary.



*** Based on ErP point C of the 16 kW heat pump with 48 dB(A) sound power, this results in a sound pressure of 31 dB(A) when the outdoor unit is sited close to the wall (Q4) at a distance of 4 m from the heat pump.



Outdoor unit ODU 250-A
2.6 to 13.4 kW (A7/W35)

- 1** Power saving variable speed EC fan
- 2** Coated evaporator with corrugated fins for higher efficiency
- 3** Hermetic twin rotary compressor with output-dependent control
- 4** 4-way diverter valve
- 5** Safety valve
- 6** Condenser
- 7** Internal heat exchanger
- 8** Accumulator (refrigerant receiver)

Tip: Heat Pump Protect

The all-risk protection for outdoor units protects against risks such as theft and all natural hazards.

Detailed information is available at www.peccon.de/waermepumpen or by getting in touch directly by email to waermepumpen@peccon.de or telephone on +49 941 38339778

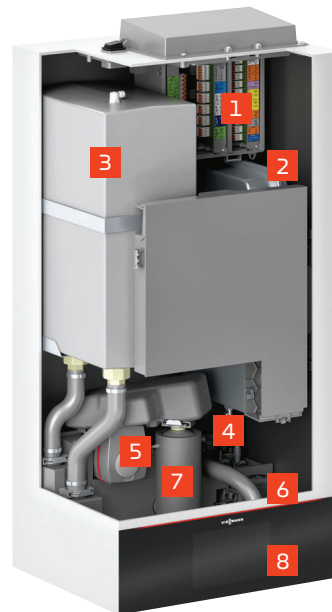
- 1 Wiring chamber
- 2 Expansion vessel
- 3 Integral buffer cylinder
- 4 Safety valve
- 5 4/3-way valve
- 6 Secondary pump (high efficiency circulation pump)
- 7 Instantaneous heating water heater
- 8 Heat pump control unit
- 9 DHW cylinder (190 l capacity)



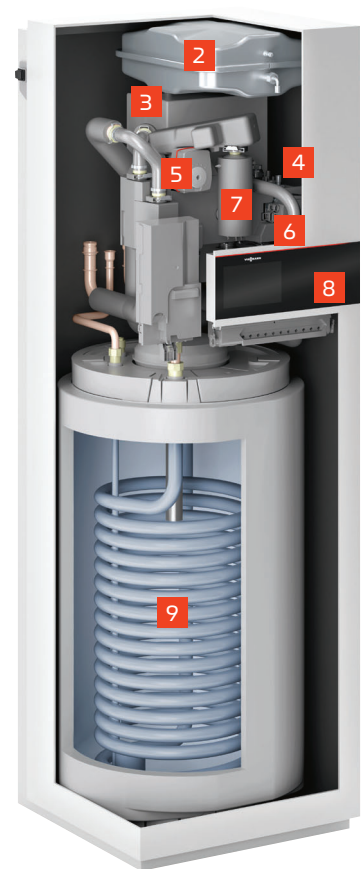
Heat Pump
KEYMARK-
certified



The Vitocal 250-A is
certified in accordance
with the EHPA Quality
Label for Heat Pumps.



Indoor unit IDU-A



Indoor unit IDU-A Compact



Outdoor unit with design floor bracket



Outdoor unit with floor bracket

Benefits at a glance:

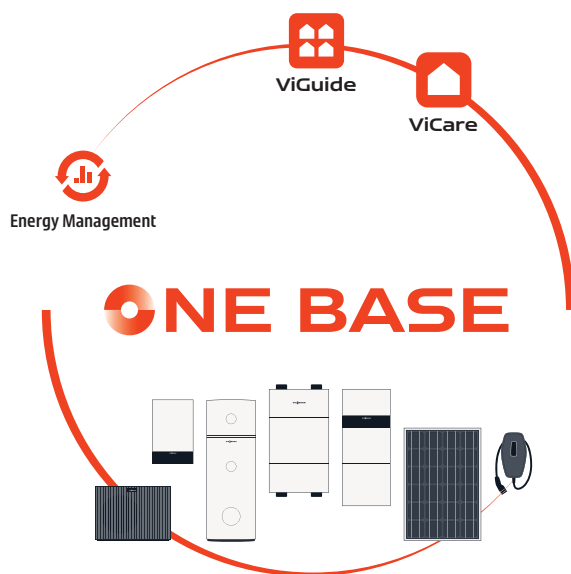
- + With 70 °C flow temperature (at outside temperatures down to -10 °C), ideally suited to modernisation projects
- + Protects the environment and the climate (Climate Protect⁺⁺⁺) - natural refrigerant R290 with an extremely low GWP100 of 0.02 (GWP = global warming potential)
- + Reliable operation with maximum efficiency (OptiPerform)
- + Whisper-quiet operation (super silent)
- + Low running costs thanks to high efficiency, COP (COP = coefficient of performance) to EN 14511: up to 5.5 (at A7/W35)
- + 60 % less space required than for comparable models
- + Vitocal 250-A Compact: integral steel DHW cylinder with Ceraprotect enamel coating (190 l capacity)
- + Integrated Energy Management System ensures transparent energy consumption and costs
- + Active cooling function for use in the summer
- + Easy operation via ViCare app

Product features

- Air/water heat pumps in monoblock design
- For room heating/cooling and DHW heating
- Maximum flow temperature: 70 °C (at an outside temperature of down to -10 °C)
- Monoblock indoor unit with heat pump control unit, high efficiency circulation pump for the secondary circuit, 4/3-way valve, safety assembly
- Integral instantaneous heating water heater
- Integral heating water buffer cylinder and overflow valve



Viessmann One Base makes the home more comfortable, efficient and futureproof



Viessmann One Base networks digital services with complete energy systems, including heat pumps, ventilation systems, power storage units 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 links all devices and electronic applications in the home into one single climate and energy solution. With beneficial consequences: lower energy consumption thanks to intelligent management, a smaller carbon footprint due to integrated self-produced photovoltaic power and an overview of running costs that is always up to date. This is how Viessmann One Base makes your own four walls fit for a climate friendly future!

One system for everything: Viessmann One Base

The platform integrates any smart home solutions already in use, seamlessly and wirelessly. It can be easily expanded, for example with a wallbox for charging an electric car.

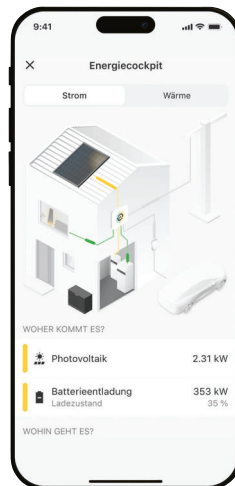
Viessmann One Base is compatible with all additional digital services. The integrated services and devices can be easily controlled with voice assistants such as Amazon Alexa or Google Assistant. The platform is the basis for an expandable and futureproof energy system in every home.

Always in the best of hands

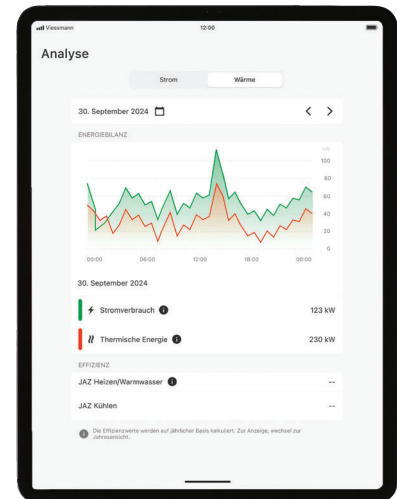
All that is needed to communicate with Viessmann One Base is the ViCare app; the integrated Energy Management System does the rest. Viessmann One Base is operated quickly and easily via the app. The contractor can also keep a remote eye on the system and correct possible irregularities immediately by electronic means. This eliminates unnecessary travel and appointments with the trade partner.



ViCare thermostatic radiator valves enable straightforward control of individual rooms via the app or voice command, e.g. using Amazon Alexa.



With the energy cockpit in the ViCare app, users can keep track of the energy flows in their home.



The energy balance visualises current and past energy flows. It documents the output of the whole system.

Viessmann One Base - many benefits at a glance

- + **Convenience:** Control of the energy system via app. Can be linked if required with other devices and services such as Amazon Alexa, Google Assistant and more
- + **Efficiency:** The platform links up and optimises energy flows for especially efficient and cost effective operation
- + **Reassurance:** The contractor is automatically notified of any irregularities and can take corrective action online
- + **Sustainability:** Long-term integration of all required digital services, upgrades and product expansions, such as photovoltaics with a power storage unit and a wallbox for e-mobility

Specification - Vitocal 250-A

Vitocal 250-A Modular V100/V101	Type	10	10	13	16	19
Vitocal 250-A V104/V105/V114/V115						
Vitocal 250-A Compact V108/V109/V118/V119						
Voltage	V	230	400	400	400	400
Rated heating output						
Operating point A7/W35	kW	7.3	7.4	8.1	8.5	9.0
Operating point A-7/W35	kW	9.7	10.0	11.1	11.7	12.3
Coefficient of performance (COP) at A7/W35		5.3	5.5	5.4	5.3	5.3
Min./max. output range A7/W35	kW	2.6 - 12.0	2.6 - 12.0	3.0 - 13.4	7.4 - 17.1	7.4 - 18.5
Heating output at A-15/W65	kW	5.7	5.7	6.1	7.7	9.3
Flow temperature	°C	70	70	70	70	70
Sound power level outdoors	dB(A)	49	49	50	48	48
Cooling capacity	kW	6.3	6.5	8.1	9.5	10.5
Energy efficiency ratio (EER)		5.3	5.3	6.2	5.4	5.2
Max. cooling capacity	kW	12.9	13.0	15.1	16.8	18.7
Refrigerant circuit						
Refrigerant		R290	R290	R290	R290	R290
- Charge in delivered condition	kg	2	2	2	2	2
- Global warming potential (GWP100 as per IPCC AR6)		0.02	0.02	0.02	0.02	0.02
- CO ₂ equivalent	t	0.00004	0.00004	0.00004	0.00004	0.00004
Dimensions						
Length x width x height						
IDU-A/IDU-A Modular indoor unit (1 heating/cooling circuit)	mm			360 x 450 x 920		
Vitocal 250-A indoor unit (2 heating/cooling circuits)	mm			360 x 600 x 920		
IDU-A Compact indoor unit (1 or 2 heating/cooling circuits)	mm			597 x 600 x 1900		
Dimensions of outdoor unit ODU 250-A						
Length x width x height	mm	600 x 1144 x 1382		680 x 1144 x 1382		
Weight of indoor unit IDU-A (2C weighs 54 kg)	kg	47	47	47	47	47
Weight of indoor unit IDU-A Modular	kg	47	47	47	47	47
Weight of indoor unit IDU-A Compact (2C weighs 172 kg)	kg	170	170	170	170	170
Weight of outdoor unit ODU 250-A	kg	215	221	221	257	257
Energy efficiency η_s at W35	%	197	206	201	190	191
Energy efficiency η_s at W55	%	152	163	162	153	152
Energy efficiency class (heating)	III ¹⁾	A+++ (G → A+++) ¹⁾	A+++ (G → A+++) ¹⁾	A+++ (G → A+++) ¹⁾	A+++ (G → A+++) ¹⁾	A+++ (G → A+++) ¹⁾
Vitocal 250-A Compact						
Cylinder capacity	l	190	190	190	190	190
Draw-off profile		XL	XL	XL	XL	XL
Energy efficiency class (DHW heating)		A (F → A*) ²⁾	A (F → A*) ²⁾	A (F → A*) ²⁾	A (F → A*) ²⁾	A (F → A*) ²⁾

¹⁾ The energy efficiency classes of heat generators range from G to A+++.

²⁾ The energy efficiency classes of cylinders range from F to A*.

Coefficient of performance (COP) at operating point A7/W35 to EN 14511 at rated heating output

Min./max. output range at operating point A7/W35

Total sound power level measurement was performed with reference to DIN EN 12102-1:2023 and DIN EN ISO 3744:2011 at ErP point C to

DIN EN 14825 with operating conditions A7/W55

Cooling capacity and EER at operating point A35/W18 to EN 14511

Energy efficiency η_s : Heating performance data in line with Commission Regulation (EU) No 813/2013 under average climatic conditions for low (W35) and medium (W55) temperature applications

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