



Air/water heat pumps | **VITOCAL 250-A HYBRID**
from 2.1 to 18.5 kW

Hybrid solution – for a
futureproof energy mix



When it comes to retrofitting existing heating systems with free environmental energy, Viessmann has the right system: Vitocal 250-A Hybrid

Vitocal 250-A Hybrid monoblock air/water heat pumps are recommended for retrofitting in existing systems



CLIMATE PROTECT ^{+++*}



ECO SELECT



OPTIPERFORM



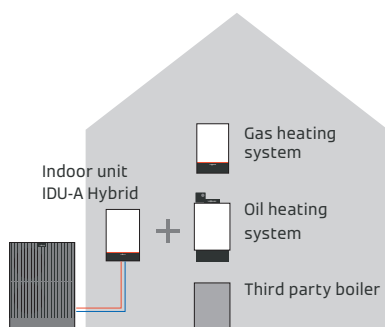
SUPER SILENT

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

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

Works well in combination with existing heating systems

The Vitocal 250-A Hybrid design is particularly suitable for supplementing an existing heating system. The heat pump provides the base load in that case. The boiler is only switched on at especially low outside temperatures.



Outdoor unit
ODU 250-A

Combination with existing heating system

CLIMATE PROTECT⁺⁺⁺ *

Climate Protect⁺⁺⁺ for environment and climate

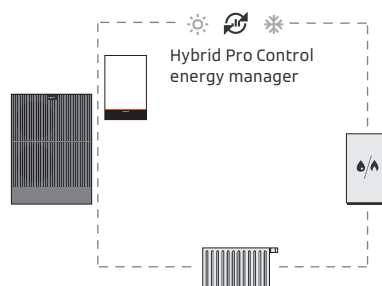
Vitocal 250-A Hybrid heat pumps use the natural refrigerant R290 with a particularly low GWP100 of 0.02 (global warming potential).



ECO SELECT

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

Hybrid units from Viessmann use Hybrid Pro Control. The integral energy manager regulates the heating system according to both the general conditions (such as the outside or flow temperature) and the individual settings: these can be energy prices, the amount of self-generated power, carbon emissions or the heat demand. This allows the user to determine whether their appliance runs in economy mode to automatically use the cheapest energy source currently available, or in ecology mode to operate with the lowest CO₂ emissions per kilowatt hour of generated thermal energy.

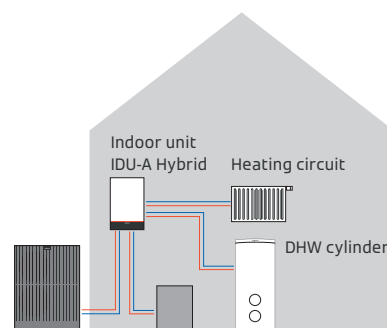


* The Viessmann Climate Protect label is based on the TEWI (total equivalent warming impact) indicator, which quantifies the lifecycle efficiency of the appliance and the global warming potential of the refrigerant used.

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.



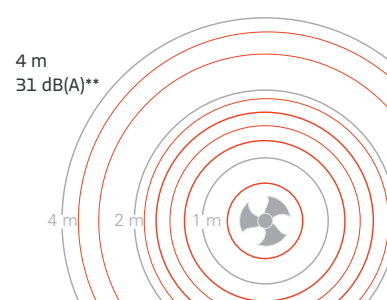
Outdoor unit
ODU 250-A

Existing
heat generator

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
2.1 to 8.0 kW (A7/W35)

- 1 Power saving variable speed EC fan
- 2 Coated evaporator with corrugated fins for higher efficiency
- 3 Safety valve
- 4 Condenser
- 5 Suction gas cooler inverter
- 6 4-way diverter valve
- 7 Hermetic twin rotary compressor with output-dependent control



Outdoor unit ODU 250-A
2.6 to 18.5 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)

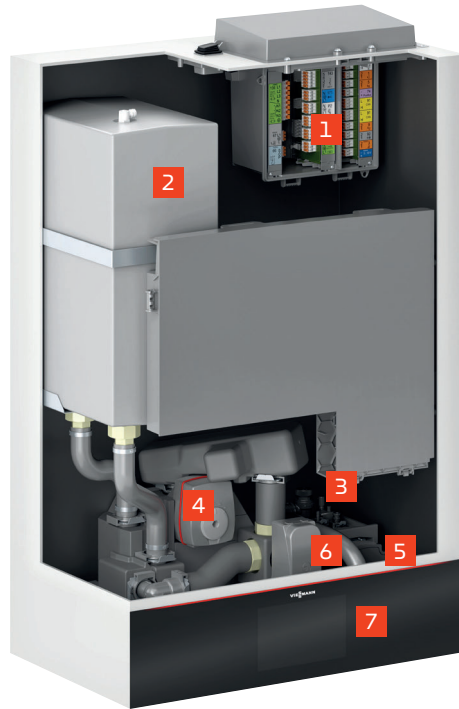
- 1 Wiring chamber
- 2 Integral buffer cylinder
- 3 Safety valve
- 4 4/3-way valve
- 5 Secondary pump (high efficiency circulation pump)
- 6 3/2-way mixing valve, dual mode operation
- 7 Heat pump controller with Hybrid Pro Control



Heat Pump
KEYMARK-
certified



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



Indoor unit IDU-A Hybrid



Outdoor unit 2.1 to 8.0 kW
(A7/W35) with design floor
bracket



Outdoor unit 2.6 to 18.5 kW
(A7/W35) with design floor
bracket



Outdoor unit 2.1 to 8.0 kW
(A7/W35) with design wall
mounting bracket



Outdoor unit 2.6 to 18.5 kW
(A7/W35) with floor bracket

Product features

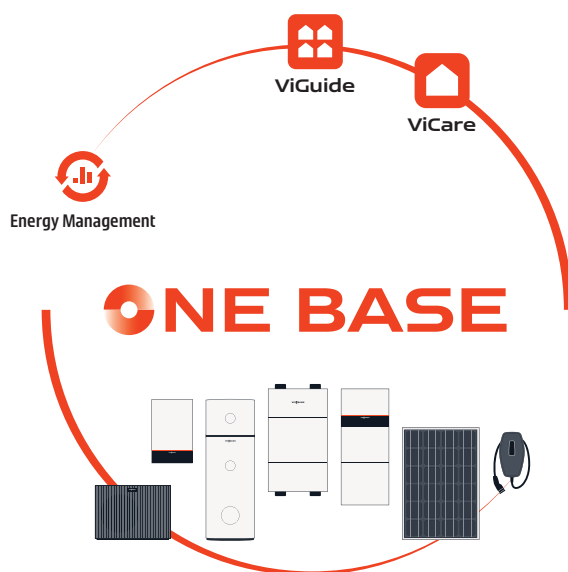
- Monoblock air/water heat pumps, prepared for hybrid operation with external heat generator up to 36 kW
- For room heating/cooling and DHW heating
- Monoblock indoor unit with heat pump control unit, high efficiency circulation pump for the secondary circuit, 4/3-way valve and safety assembly
- Integral hybrid hydraulics and interfaces for controlling the external heat generator
- Integral buffer cylinder and overflow valve
- Designs: AF version: with integral fan ring heater and electric ribbon heater for the condensate pan

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⁺⁺⁺) - environmentally responsible, natural refrigerant R290 with an extremely low GWP100 of 0.02 (GWP = global warming potential)
- + Reliable operation with high 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
- + Integrated Energy Management System ensures transparent energy consumption and costs
- + Easy operation via ViCare app
- + Simple integration into the existing heating system including the current heat generator



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.

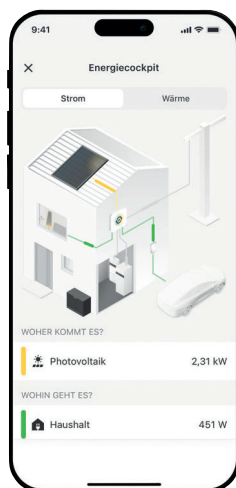
Viessmann One Base is compatible with all additional digital services. The integrated services and devices can be easily controlled with voice assistants such as Amazon Alexa or Google Assistant. The platform is the basis for an expandable and futureproof energy system in every home.

Always in the best of hands

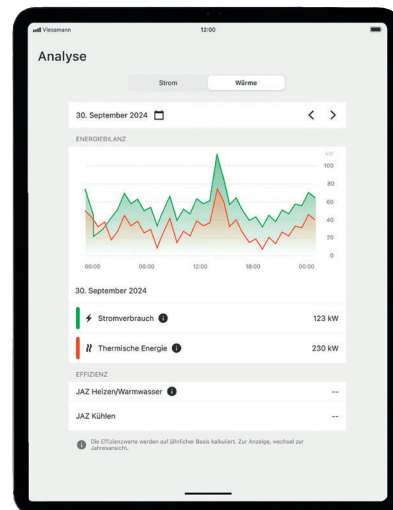
All that is needed to communicate with Viessmann One Base is the ViCare app; the integrated Energy Management System does the rest. Viessmann One Base is operated quickly and easily via the app. The contractor can also keep a remote eye on the system and correct possible irregularities immediately by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



ViCare thermostatic radiator valves enable straightforward control of individual rooms via 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 Hybrid

Vitocal 250-A Hybrid V112/V113	Type	04	06	08	10	10	13	16	19
Voltage	V	230	230	230	230	400	400	400	400
Rated heating output									
Operating point A7/W35	kW	4.0	4.8	5.6	7.3	7.4	8.1	8.5	9.0
Operating point A-7/W35	kW	3.8	5.6	6.5	10.0	10.0	11.1	11.7	12.3
Coefficient of performance (COP) at A7/W35		5.1	5.1	4.9	5.3	5.5	5.4	5.3	5.3
Min./max. output range A7/W35	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
Flow temperature	°C	70	70	70	70	70	70	70	70
Sound power level outdoors	dB(A)	46	47	48	49	49	50	48	48
Cooling capacity	kW	4.0	5.0	6.0	6.3	6.5	8.1	9.5	10.5
Energy efficiency ratio (EER)		4.7	4.4	4.1	5.3	5.3	6.2	5.4	5.2
Max. cooling capacity	kW	4.0	5.5	6.7	12.9	13.0	15.1	16.8	18.7
Refrigerant circuit									
Refrigerant		R290	R290	R290	R290	R290	R290	R290	R290
- Charge in delivered condition	kg	1.2	1.2	1.2	2	2	2	2	2
- Global warming potential (GWP100 as per 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
Dimensions of indoor unit IDU-A Hybrid									
Length x width x height	mm	360 x 600 x 920							
Dimensions of outdoor unit ODU 250-A									
Length x width x height	mm	600 x 1144 x 841		600 x 1144 x 1382			680 x 1144 x 1382		
Weight of indoor unit IDU-A Hybrid	kg	57	57	57	57	57	57	57	57
Weight of outdoor unit ODU 250-A	kg	162	162	162	215	221	221	257	257
Energy efficiency η_s at W35	%	180	183	176	197	206	201	190	191
Energy efficiency η_s at W55	%	130	141	140	152	163	162	153	152
Energy efficiency class (heating)	III*	A++ (G → A++*) ¹⁾			A+++ (G → A++*) ¹⁾				

¹⁾ The energy efficiency classes of heat generators range from G 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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