



TECHNOLOGY BROCHURE

Hybrid solutions



**Both highly efficient
and renewable**

A futureproof
energy mix in a
single appliance.



Heating with hybrid appliances – futureproof as standard

When it comes to energy and heating, there are a lot of solutions out there. The decision to go with one heating system or another is not an easy one. One thing's for certain: prices for fossil fuels and electricity are subject to strong fluctuations in the long term. So it's all the better if you do not have to rely on a single energy source for your heating, but can instead invest in a futureproof hybrid solution.

With hybrid appliances, two independent heat generators are integrated in a single unit: a gas condensing boiler is combined with an electrically powered heat pump. This mix combines "renewable" with "highly efficient" energy, giving the user the greatest possible freedom to use the energy source that is most affordable at the time.

This brochure provides information about the flexibility and reassurance you get with Viessmann gas hybrid appliances, and about options for use when modernising existing condensing boilers.

Compact hybrid appliance from Viessmann: A futureproof energy mix in a single appliance

The Vitocaldens 222-F compact hybrid appliance combines two energy sources in a single appliance: a highly efficient source with an advanced condensing boiler for gas, and a renewable source with a heat pump that uses free environmental heat.

Anyone wanting greater independence from power supply utilities today should not be dependent on a single energy source. Instead, the ideal solution is a heating system offering optimum flexibility and using multiple energy sources – i.e. a compact hybrid appliance from Viessmann.

With economy always in mind

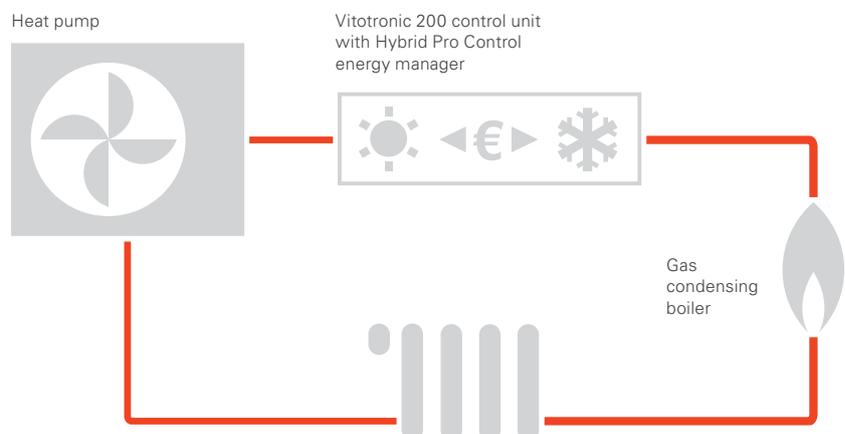
Hybrid appliances from Viessmann amalgamate the benefits of a heat pump with those of a highly efficient condensing boiler. Consequently, in operation they always achieve an optimum mix of renewable and conventional energy. The intelligent control unit can be individually set so that the most efficient heat generator is selected at any one time, i.e. the one that is most cost efficient for the user. Constantly fluctuating energy prices will never be an issue again.

Free selection of energy source

The Vitocaldens 222-F compact hybrid appliance combines efficient heat pump technology with proven gas condensing technology. This means you benefit from economical gas condensing technology and have an affordable alternative when energy prices fluctuate.

TAKE ADVANTAGE OF THESE BENEFITS

- + Futureproof heat supply thanks to two heat generators in a single appliance
- + Automatic calculation of the most efficient operating mode
- + Ready for smart grids and utilisation of photovoltaic power generated on site
- + Also for retrofitting



Heating nowadays means free energy from the environment with a heat pump, plus a condensing boiler for gas. All perfectly controlled via the Vitotronic 200 with Hybrid Pro Control energy manager.



10 year guarantee

on stainless steel heat exchangers for oil/gas condensing boilers up to 150 kW

For conditions and product overview, see www.viessmann.de/garantie

Condensing boiler for gas with stainless steel Inox-Radial heat exchanger: long term reliability and efficiency

The condensing boiler: efficiency with a stainless steel heat exchanger

Condensing technology is one of the most efficient forms of generating heat. The reason: this heating technology not only recovers the heat that occurs during the combustion of gas. It also utilises the residual heat in the flue gases for heating – heat that is lost through the chimney in the case of conventional boilers.

In Viessmann condensing boilers, stainless steel Inox-Radial heat exchangers ensure that the flue gases are cooled before they are routed into the chimney, so that the water vapour they contain is deliberately condensed. The additional heat released is transferred to the heating system. This means that condensing boilers achieve a standard seasonal efficiency [to DIN] of up to 98 percent, and are particularly energy efficient.

The heat pump: efficiency with the use of free environmental energy

The heat pump utilises free environmental energy extremely efficiently so it easily covers the base load during operation. For this, the outdoor unit extracts latent heat from the air and raises it to a flow temperature of up to 55 °C via the heat pump process. Furthermore, heat pumps from Viessmann operate particularly quietly with low vibration while the condenser unit requires minimal maintenance and is designed for reliable operation and long service life.



Free environmental energy utilised extremely efficiently: the heat pump in compact hybrid appliances

Which energy source is the most cost effective for heating? It's easily controlled – completely automatically

The Vitocal 250-S split air source heat pump and the Vitocaldens 222-F compact hybrid appliance are equipped with a Vitotronic 200 control unit. They also have an integral intelligent Hybrid Pro Control energy manager.

Heating systems are normally controlled subject either to room or outside temperature. The intelligent Hybrid Pro Control energy manager thinks ahead and regulates the system with variable settings. The user can customise these settings and change them at any time:

- Energy prices
- CO₂ emissions
- Utilisation of power generated on site
- Energy efficiency
- Heat demand

Hybrid Pro Control: The right energy mix for efficient operation

Thanks to Hybrid Pro Control, the control unit recognises, for example, how long the heat pump will be able to cover the entire heat demand on its own. If this time is exceeded, it will then call for backup from the condensing module. Hybrid Pro Control automatically determines the timing and responds accordingly: at any given time, it uses the currently set energy prices for electricity and gas to calculate which fuel type can be used most efficiently. Hybrid Pro Control maintains an overview of the entire system at all times. The integral energy manager automatically determines the most efficient operating mode (economy or ecology and comfort).



Keep an eye on the system at all times, from anywhere, with the ViCare app



Hybrid Pro Control thinks of everything. Even electricity from a photovoltaic system

When calculating the most cost effective operating mode, the Hybrid Pro Control energy manager also takes into account electricity generated on site by a photovoltaic system.

Whether away or at home: everything is always under control

Even when you're away from home, you always have access to your heating system and its controls. Conveniently monitor everything online. The free ViCare app gives you secure and easy access to your system via your smartphone or tablet.

Low cost or environmentally responsible?

You, the user, can choose: the heating system can be run to prioritise either environmental responsibility or cost effectiveness. Simply select your preferred setting; Hybrid Pro Control does the rest.

1 Economical mode – up to 40 percent savings on heating costs.

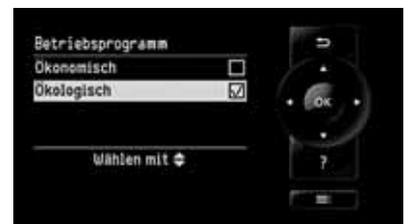
As economical as it gets: depending on energy prices and the system version, you can save up to 40 percent on heating costs in economy mode.

2 Ecological mode – an added bonus for the environment

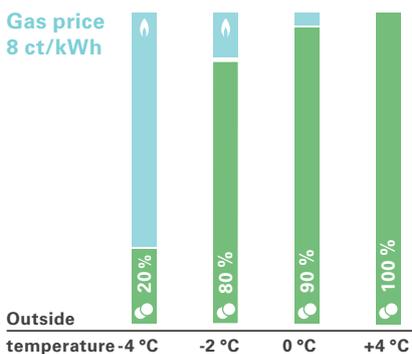
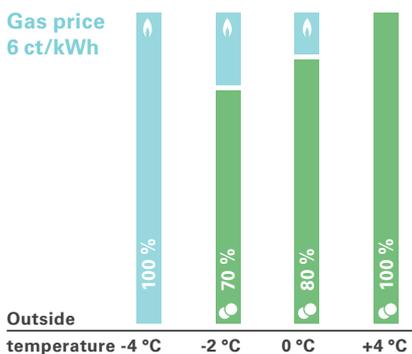
The added bonus for the environment: with this setting, the system operates with the lowest CO₂ emissions per kWh of thermal energy generated.

Convenient, no matter what

Whether economical or ecological mode is selected: "comfort mode" function will always prioritise DHW heating.



Heat pump electricity price €0.21 per kWh



Example of intelligent energy management in the Vitocaldens 222-F: Hybrid Pro Control calculates the outside temperature as of which the heat pump can cover the heat demand. Subject to the current electricity price and aiming for maximum efficiency.



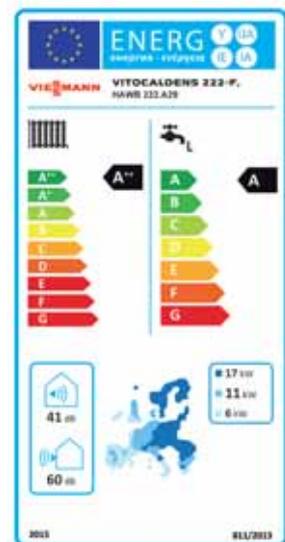
Viessmann combines highly efficient condensing technology with the utilisation of free environmental energy

The Vitocaldens 222-F compact hybrid appliance makes it possible to find the optimum combination of renewable and conventional energy sources.

Constantly fluctuating energy prices mean it is difficult for consumers to make the right decision in favour of both economically and environmentally responsible heating systems that will remain viable in future. The compact hybrid appliance now offers a futureproof solution for the modernisation of heating systems.

Futureproof modernisation

Powerful for comfortable and convenient heating and DHW, with compact dimensions and quiet operation. And above all, thanks to the two independent heat generators in the appliance – condensing boiler and heat pump – it is flexible enough for an optimum, futureproof response to developments in energy markets. Efficiency is assured at all times – the Vitocaldens 222-F, for example, has an A⁺⁺ energy efficiency label.



Energy efficiency label for Vitocaldens 222-F

TAKE ADVANTAGE OF THESE BENEFITS

- + High operational reliability thanks to two independent heat generators
- + Low operating costs thanks to use of the most affordable energy source at the time
- + Indoor unit has compact dimensions to match standard kitchen unit dimensions
- + Integral 130 litre DHW cylinder
- + Futureproof and flexible solution thanks to the use of time-variable power tariffs
- + High DHW convenience due to condensing peak load boiler
- + Integral, power saving high efficiency pumps
- + Ready for on-site consumption of photovoltaic power and smart grids



Efficient heating with gas or environmental energy:
Vitocaldens 222-F gas compact hybrid appliance



VITOCALDENS 222-F INDOOR UNIT

- 1** Gas condensing module with Inox-Radial heat exchanger and modulating MatriX cylinder burner
- 2** Condenser
- 3** Vitotronic control unit with Hybrid Pro Control energy manager
- 4** High efficiency heating circuit pump
- 5** DHW loading pump
- 6** 3-way diverter valve
- 7** Heat exchanger for loading system
- 8** 130 litre DHW loading cylinder

VITOCALDENS 222-F
1.2 to 19 kW
Cylinder capacity: 130 litres

The perfect solution for any application:

In the compact hybrid appliance from Viessmann, heat is provided by a powerful gas condensing boiler and a heat pump. The two systems operate on a flexible, alternating basis or supplement one another. Your heating system automatically determines which system should be used for more economical or environmentally responsible heating based on the currently set energy prices. This depends on which operating mode you previously selected.

Meeting all your needs: DHW convenience with integral loading cylinder

The DHW loading cylinder with a capacity of 130 litres provides sufficient

DHW at any time – even when demand is high. Ideally, the hot water is generated economically using the heat pump.

Compact, efficient, quiet: indoor and outdoor units

Integrated into the indoor unit are two heat generators, a DHW cylinder and all the hydraulic components – taking up an installation area of just 0.36 square metres. The weatherproof outdoor unit allows for flexible siting. Thanks to its compact dimensions, it can be positioned anywhere as a freestanding unit or mounted on an external wall.



OUTDOOR UNIT

- 1 Evaporator
- 2 Fan
- 3 Compressor

TAKE ADVANTAGE OF THESE BENEFITS

- + Convenient thanks to a reversible system that enables heating and cooling (AC version only)
- + Heat pump with output control via DC inverter and electronic expansion valve for high efficiency in partial load operation
- + Gas condensing boiler with Inox-Radial heat exchanger and MatriX cylinder burner
- + Standard seasonal efficiency [to DIN] of the gas condensing boiler up to 98 % (H₃) [gross cv]
- + Integral Vitotronic 200 control unit with Hybrid Pro Control energy manager: automatically determines the most efficient operation for the chosen mode – economy or ecology
- + Integral, power saving, high efficiency circulation pumps for heating circuit and cylinder loading circuit
- + Web-enabled through Vitoconnect (accessories) for operation and service via Viessmann apps



When it comes to retrofitting existing condensing boilers with free environmental energy, Viessmann has the right system for you

The Vitocal 250-S split air source heat pump is ideal for use in conjunction with a wall mounted or floorstanding condensing boiler.

A heat pump makes an ideal addition to a heating system for gas or oil. For a futureproof solution, and to protect the environment. Not only do you utilise free environmental energy, but the heating system can also be operated in such a way that the lowest possible heating costs are incurred even when energy prices fluctuate.

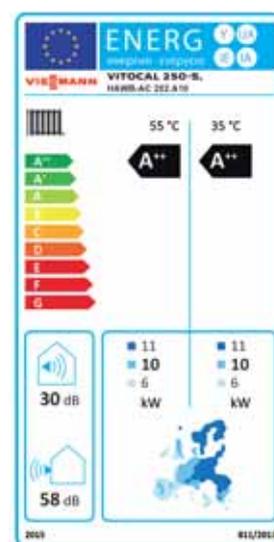
Opt for economy – and a futureproof solution

Heating systems with an existing oil or gas condensing boiler up to an output of 30 kW can be retrofitted with the Vitocal 250-S. The Hybrid Pro Control energy manager regulates the efficiency of the entire system. Either the condensing boiler or split air source

heat pump takes over heating operation, depending on the selected reference value and according to the currently set energy costs.

Heating and cooling with a single system

If the heat pump takes over heating operation, the outdoor unit extracts latent heat from the air and, via the heat pump process, raises it to a flow temperature of up to 55 °C. However, that's not all the heat pump can do. For a high level of convenience on warm summer days, you have the practical option of reversing the heat pump operation. Living spaces can then be pleasantly cooled. An inverter-controlled compressor and an electronic expansion valve in the refrigerant circuit also ensure a high level of efficiency.



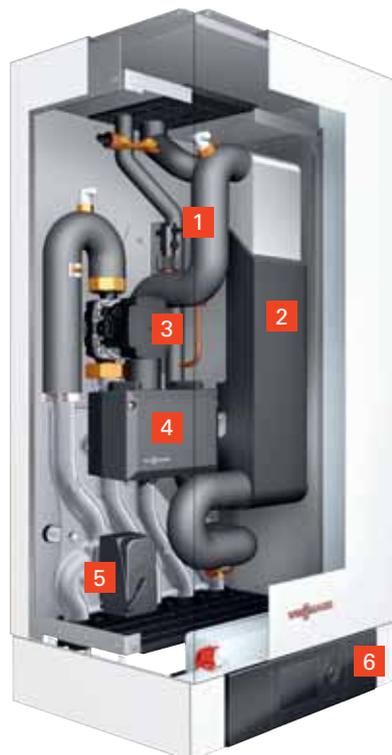
Energy efficiency label for Vitocal 250-S

TAKE ADVANTAGE OF THESE BENEFITS

- + Affordable retrofitting of existing heating systems with a heat pump
- + High operational reliability thanks to two independently operated heat generators
- + Greater independence from fossil fuels and fluctuating energy prices
- + Reduced heating costs through the use of free environmental energy
- + Higher efficiency and efficient energy utilisation
- + Heat generation with reduced CO₂ emissions
- + Ready for utilisation of photovoltaic power generated on site and smart grids
- + Integral Vitotronic 200 control unit with Hybrid Pro Control energy manager automatically determines the most efficient operation for the chosen mode



Ideal for retrofitting existing condensing boilers:
In a detached house, the Vitocal 250-S split air source heat pump covers up to 80 percent of the demand with free environmental energy plus electricity.



VITOCAL 250-S

- 1 Flow switch
- 2 Condenser
- 3 High efficiency circulation pump
- 4 3-way mixer
- 5 Diverter valve, heating circuit/DHW
- 6 Vitotronic 200 control unit with Hybrid Pro Control energy manager

Split air source heat pump

The Vitocal 250-S supplements existing floorstanding or wall mounted oil or gas condensing boilers up to 30 kW. Depending on the size, the output of the heat pump itself is up to 19.5 kW. This means that it covers the majority of the annual heat load, saving costs – in a detached house, up to 80 percent of the required energy for heating and DHW can be covered with free environmental energy plus electricity.

Hybrid Pro Control: the right mix of energy for maximum efficiency

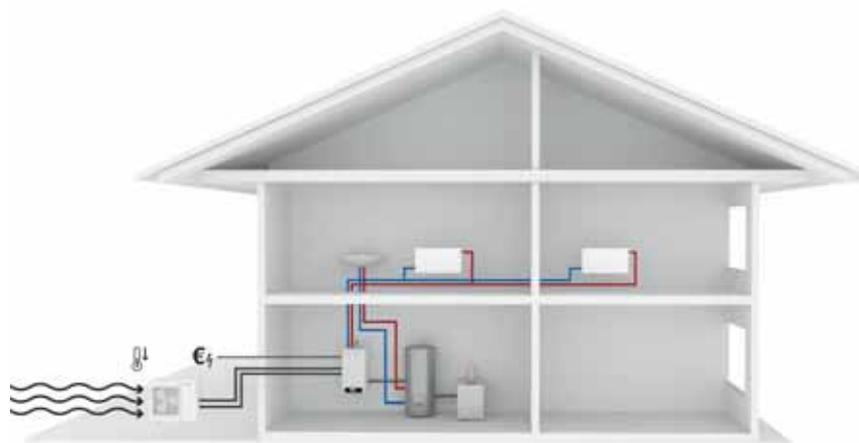
The Vitotronic 200 control unit with the Hybrid Pro Control energy manager controls both the heat pump and the condensing boiler. You simply select the operating mode with the lowest operating costs or the lowest CO₂ emissions. Depending on your chosen operating mode, the set prices for oil or gas and electricity or the relevant primary energy factor are then used. The Hybrid Pro Control deploys the Vitocal 250-S and the existing heat generator to best effect in line with the output demand and automatically regulates the energy mix.

Retrofitted quickly and easily

With a width of just 450 millimetres, the compact indoor unit can be installed even in narrow spaces or easily mounted on the wall. Side clearance is not necessary – all components requiring maintenance can be accessed from the front. The outdoor unit is connected to the indoor unit via refrigerant lines.

Convenient control via app

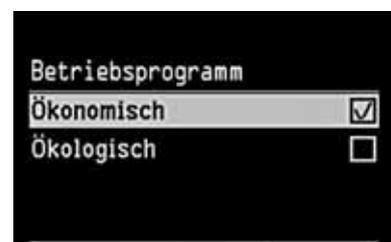
The entire system can be controlled conveniently via the internet – a free app is available for smartphones or tablets.



Utilisation of free environmental energy for heating: the outdoor unit extracts latent heat from the air.

Even greater efficiency through utilisation of power generated on site

The Vitocal 250-S is designed as standard to utilise power generated on site by a photovoltaic system. The predicted performance curve of the photovoltaic system and the heat demand are automatically taken into consideration. If a power storage unit is integrated in the system, power drawn from the mains is minimised, resulting in independence from rising electricity prices.



Vitotronic 200 control unit with Hybrid Pro Control: for a convenient choice between particularly economical or particularly environmentally responsible operation.



VITOCALDENS 222-F
GAS COMPACT HYBRID APPLIANCE (HEATING)

HAWB-M/HAWB-M-AC HAWB/HAWB-AC	Type Type V	222.A23	222.A26	222.A29	222.A29
Voltage	V	230	230	230	400
Heating performance data to EN 14511 (A2/W35)					
Rated heating output					
Fan speed	kW	3.0	5.6	7.7	7.5
Power consumption	rpm	870	650	650	600
Coefficient of performance ϵ (COP) in heating mode	kW	0.91	1.73	2.20	1.76
Output control	kW	3.30	3.24	3.50	4.27
		1.1 to 3.8	1.3 to 7.7	4.4 to 9.9	2.7 to 10.9
Heating performance data to EN 14511 (A7/W35, spread 5 K)					
Rated heating output					
Fan speed	kW	4.0	8.39	10.9	10.16
Air flow rate	rpm	870	650	650	600
Power consumption	m ³ /h	2090	3600	4210	3456
Coefficient of performance ϵ (COP) in heating mode	kW	0.86	1.93	2.36	2.00
		4.64	4.35	4.62	5.08
Heating performance data to EN 14511 (A-7/W35)					
Rated heating output					
Power consumption	kW	3.20	6.60	8.72	9.50
Coefficient of performance ϵ (COP) in heating mode	kW	1.27	2.68	3.46	3.06
		2.58	2.49	2.55	3.10
Cooling performance data to EN 14511 (A35/W7, spread 5 K)					
Rated cooling capacity					
Fan speed	kW	–	6.20	7.40	9.14
Power consumption	rpm	–	650	650	600
Energy efficiency ratio EER in cooling mode	kW	–	2.40	2.69	3.37
Output control	kW	–	2.58	2.75	2.71
		–	1.6 to 8.0	2.4 to 8.5	2.0 to 9.9
Refrigerant circuit					
Refrigerant					
– Charge in delivered condition	kg	R410A	R410A	R410A	R410A
– Global warming potential (GWP) ^{*1}		1.20	2.15	2.95	2.95
– CO ₂ equivalent	t	1924	1924	1924	1924
		2.31	4.14	5.68	5.68
Integral loading cylinder					
Capacity	litres	130	130	130	130
Continuous DHW output	kW	17.2	17.2	17.2	17.2
Rated heating output range					
Gas condensing module					
50/30 °C	kW	3.2 – 19.0	3.2 – 19.0	3.2 – 19.0	3.2 – 19.0
80/60 °C	kW	2.9 – 17.2	2.9 – 17.2	2.9 – 17.2	2.9 – 17.2
Dimensions, outdoor unit					
Length	mm	290	340	358	358
Width	mm	874	1040	963	963
Height	mm	610	865	1260	1260
Dimensions, indoor unit					
Length	mm	595	595	595	595
Width	mm	600	600	600	600
Height	mm	1625	1625	1625	1625
Weight					
Outdoor unit	kg	43	66	113	113
Indoor unit	kg	144	144	148	148
Energy efficiency class^{*2}					
DHW heating draw-off profile L		A+/A+	A+/A+	A+/A+	A+++ ^{*3} /A++
		A	A	A	A



VITOCAL 250-S

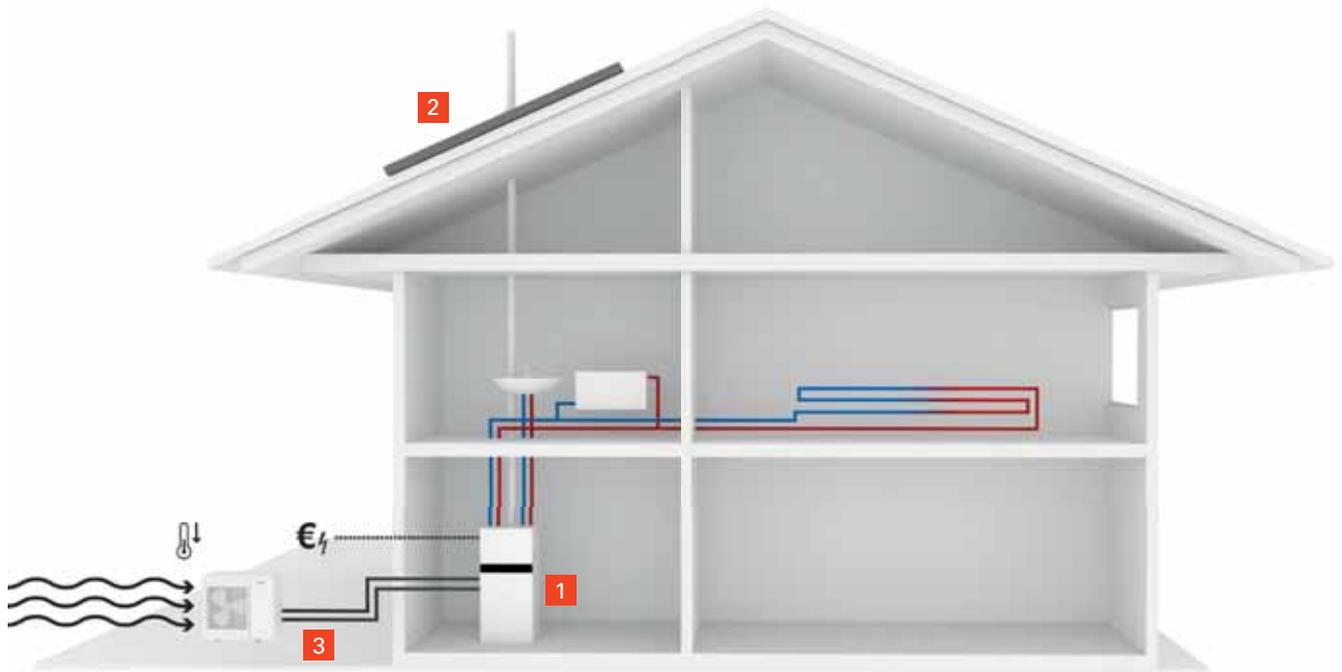
SPLIT AIR SOURCE HEAT PUMP (HEATING AND COOLING)

HAWB-M-AC HAWB-AC	Type Type	252.A04	252.A05	252.A07	252.A10	252.A10	252.A13	252.A16
Voltage	V	230	230	230	230	400	400	400
Heating performance data to								
EN 14511 (A2/W35)								
Rated heating output								
Fan speed	kW	3.0	3.7	5.6	7.7	7.5	9.06	11.3
Power consumption	rpm	870	500	650	650	600	690	690
Coefficient of performance ϵ (COP) in heating mode	kW	0.91	1.06	1.73	2.20	1.76	2.42	3.11
Output control	kW	3.30	3.50	3.24	3.50	4.27	3.72	3.66
		1.1 to 3.8	1.3 to 6.5	1.3 to 7.7	4.4 to 9.9	2.7 to 10.9	3.3 to 12.3	4.6 to 13.4
Heating performance data to								
EN 14511 (A7/W35, spread 5 K)								
Rated heating output								
Fan speed	kW	4.5	5.4	8.39	10.9	10.16	12.07	15.50
Air flow rate	rpm	870	500	650	650	600	690	690
Power consumption	m ³ /h	2090	2600	3600	4210	3456	4217	4217
Coefficient of performance ϵ (COP) in heating mode	kW	0.97	1.13	1.93	2.36	2.00	2.57	3.76
Output control	kW	4.64	4.79	4.35	4.62	5.08	4.69	4.11
		1.2 to 5.3	1.8 to 8.4	1.8 to 9.5	5.0 to 14.0	5.2 to 15.0	6.2 to 16.5	6.4 to 19.5
Heating performance data to								
EN 14511 (A-7/W35)								
Rated heating output								
Power consumption	kW	3.20	5.00	6.60	8.72	9.50	10.70	13.30
Coefficient of performance ϵ (COP) in heating mode	kW	1.27	1.91	2.68	3.46	3.06	3.69	5.12
		2.58	2.61	2.49	2.55	3.10	2.90	2.59
Cooling performance data to								
EN 14511 (A35/W7, spread 5 K)								
Rated cooling capacity								
Fan speed	kW	3.20	4.62	6.20	7.40	9.14	10.75	11.85
Power consumption	rpm	870	500	650	650	600	690	690
Energy efficiency ratio EER in cooling mode	kW	1.08	1.64	2.40	2.69	3.37	4.15	5.58
Output control	kW	2.96	2.81	2.58	2.75	2.71	2.59	2.17
		1.2 to 3.8	1.6 to 7.0	1.6 to 8.0	2.4 to 8.5	2.0 to 9.9	2.1 to 11.5	5.0 to 11.9
Refrigerant circuit								
Refrigerant								
- Charge in delivered condition	kg	R410A	R410A	R410A	R410A	R410A	R410A	R410A
- Global warming potential (GWP) ^{*1}		1.20	2.15	2.15	2.95	2.95	2.95	4.20
- CO ₂ equivalent	t	1924	1924	1924	1924	1924	1924	1924
		2.31	4.14	4.14	5.68	5.68	5.68	8.08
Dimensions, outdoor unit								
Length	mm	290	340	340	358	358	358	358
Width	mm	874	1040	1040	963	963	963	963
Height	mm	610	865	865	1260	1260	1260	1260
Dimensions, indoor unit								
Length	mm	360	360	360	360	360	360	360
Width	mm	450	450	450	450	450	450	450
Height	mm	905	905	905	905	905	905	905
Weight								
Outdoor unit	kg	43	66	66	113	113	113	121
Indoor unit	kg	38	38	38	42	42	42	42
Energy efficiency class*								
		A++/A+	A++/A+	A++/A+	A++/A+	A+++ ^{*3} /A++	A++/A++	A++/A++

^{*1} Based on the Fifth Assessment Report of the Intergovernmental Panel on Climate Change (IPCC)

^{*2} Energy efficiency class to Commission Regulation (EU) No 811/2013 for heating, average climatic conditions, low temperature LT (35 °C)/medium temperature applications MT (55 °C)

^{*3} The new energy efficiency class A+++ comes into effect on 26 September 2019



Vitocaldens 222-F or Vitocal 250 S: at Viessmann, all system components are perfectly matched.

- 1 Gas compact hybrid appliance
- 2 Photovoltaic system
- 3 Outdoor unit

System technology ensures reliable and economical operation. The convenient controls and perfectly matched Viessmann system components offer maximum reliability, flexibility and efficiency.

"The whole is greater than the sum of its parts." In accordance with this philosophy, Viessmann does not just supply individual heating equipment components that meet the high Viessmann standards for quality, reliability and effectiveness. Rather, all products are part of a matching overall concept where all components complement one another. After all,

only perfect interaction between all system parts can draw out the maximum potential of our innovative leading technology. Viessmann system technology incorporates everything you need for a reliable and economical heating system:

The Vitotronic control unit with wireless remote control and powerful Vitocell

DHW cylinders for maximum DHW convenience, right up to high grade photovoltaic systems for generating power.



PHOTOVOLTAIC SYSTEMS

Turn the sun into your energy supplier for electricity. This is economical – generating solar power is already significantly cheaper than drawing domestic power from the grid.



OPERATING CONVENIENCE

Clear, convenient, intelligent: the Vitotronic control unit is structured logically and the information it displays is simple to follow. It ensures perfect functionality for fast and precise control over your heating system.



More information regarding Viessmann system accessories can be found here.



CONNECTIVITY

With Vitoconnect and a smartphone, the operation of your Viessmann heating system couldn't be easier. Simple heating systems can be controlled with the ViCare app. All apps are available for mobile devices running iOS or Android operating systems.



SYSTEM ACCESSORIES

In addition to high quality Viessmann products, we also offer system components from other well known manufacturers with the Vitoset range of accessories.

Radiators, pumps, expansion vessels, pipework, filters and valves – the Vitoset range has everything you need to equip your heating system. You benefit because everything matches and can be combined into a single system that meets your individual requirements. With high quality, tested materials and perfect workmanship.



At Viessmann, proximity to trade partners is the basis of the company's success. Everyone who chooses Viessmann heating technology benefits from our expertise.

Property developers and system users can receive advice and support regarding sales, installation and customer service exclusively via Viessmann trade partners, who complete regular training at the Viessmann Academy, and have an in-depth knowledge of the company's products. Every system user benefits from the comprehensive service that all installation contractors offer as standard.

TÜV-certified: the Building Energy Economy Check from Viessmann

With the Building Energy Economy Check, individual modernisation options and savings potential can be determined quickly and easily. And completely objectively. Only the calculation in this program is certified by TÜV Rheinland. Carry out a quick check at www.check-energiesparen.de. Your heating contractor can then provide you with detailed advice.

With Viessmann trade partners, you're in good hands

EXAMPLES OF THE SERVICE WE PROVIDE

- Free, no-obligation and individual consultation, even on site
- Clear calculation of heating cost savings after modernisation of the heating system – including systems combined with solar collectors, of course
- Calculation of the payback period, after which the new heating system will have paid for itself through energy savings
- Calculation of the actual heat and DHW demand for the household or property
- Information on the most viable combination of a new heating system with a solar thermal system for central heating backup and DHW heating
- Up to date information about public subsidy programmes that could help to finance a new heating system and a solar thermal system
- Support in applying for subsidies

Technology from Viessmann – subsidies from the public purse

You don't just save on running costs. Energy savings and environmentally responsible heating technology is also financially supported by local, regional and national bodies through various subsidies, as well as by power supply utilities [in Germany].

Current information on this can be found online at www.viessmann.de/foerderprogramme

or ask your trade partner.



The economy calculation for your home: find the Building Energy Economy Check at www.check-energiesparen.de.

Attractive finance – invest now and save on heating costs immediately

With the Viessmann finance model, you can start saving straight away, and turn your plans into reality. The fast and reliable process, with no red tape, makes modernisation projects easier, allowing your financial planning to remain flexible. The particular advantage is that with Viessmann's favourable terms, savings on heating costs are generally significantly higher than finance costs.

PLEASE NOTE:

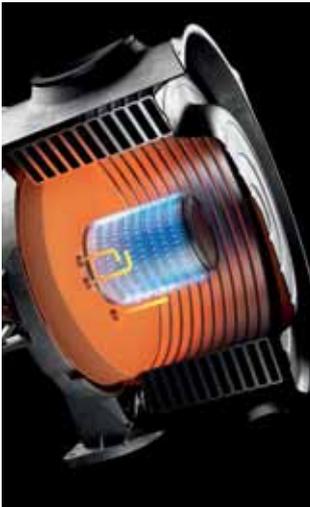
Applications for subsidies and finance must be made before the heating and/or solar thermal system is purchased. Subsidies and finance agreements cannot be arranged retrospectively.

Terms and conditions to shout about

If you invest now in a new heating system for your property, you may be eligible for an attractive finance package from Viessmann in conjunction with CreditPlus bank: just 3.99 percent* effective APR.

CreditPlus

* Over 24 months



MatriX-Plus burner

Viessmann comprehensive range

- Boilers for oil or gas
- Combined heat and power generation
- Hybrid appliances
- Heat pumps
- Wood combustion technology
- Biogas production plants
- Biogas upgrading plants
- Solar thermal
- Photovoltaic
- Electric heating/DHW systems
- Refrigeration systems
- Accessories

Milestones of heating technology

As an environmental pioneer and technological trailblazer for the heating sector, Viessmann has been supplying exceptionally clean and efficient systems for heating, refrigeration and decentralised power generation for decades. Many of the company's developments are recognised as heating equipment milestones.

Sustainability in action

As a family business Viessmann takes the long view and places great value on acting responsibly; sustainability is firmly enshrined in the company's principles. For Viessmann, sustainability in action means striking a balance between economy, ecology and social responsibility throughout the company; meeting current needs without compromising the quality of life of future generations.

With its strategic sustainability project, Viessmann demonstrates at its own head office in Allendorf (Eder) that the energy and climate policy goals set by the German government for 2050 can in fact be achieved today with the help of commercially available technology.



We create living spaces
for generations to come.



Number 1 Trade Partner for the
15th consecutive time

Practical partnership

As part of its comprehensive range, Viessmann also offers a wide selection of complementary services. These services include a comprehensive training and further development programme for trade partners at the well equipped training facilities of the Viessmann Academy.

With its new digital services, Viessmann offers innovative solutions such as the operation and monitoring of heating systems by smartphone. Users benefit from greater reassurance and convenience, whilst contractors can keep a constant eye on the systems for which they are responsible.



Viessmann is a leading international manufacturer of efficient energy systems.

VISSMANN GROUP IN FIGURES

1917

— Viessmann was founded

12.000

— employees

2.5

— Group turnover in billions of euros

54

— export share in percent

23

— production companies in

12

— countries

120

— sales offices worldwide

74

— countries with agents and sales companies



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Your trade partner

9442 830 - 2 GB 09/2019

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