



DALITIATIPAGAISA / UNDERTAINSHOULD-COMPACTITY

Best suited for energy-efficient new buildings:  
**VITOCAL 222-S**



**Heating and cooling  
with ambient heat**

- + High efficiency, low energy consumption
- + Compact design
- + Very quiet

## The new generation of heat pumps



The new Vitocal 222-S air/water heat pumps in a split design with a 60 °C return temperature are mainly recommended for energy-efficient new buildings.

 | CLIMATE PROTECT <sup>++</sup>

 | OPTIPERFORM

 | SERVICE LINK

 | SUPER SILENT

Reliable, compact and environmentally friendly like never before - with Viessmann's new innovative heat pump technology, ambient heat can be used particularly efficiently for heating and cooling.

With a return temperature of up to 60 °C, the new Vitocal 222-S series distributed heat pumps are particularly recommended for energy-efficient new buildings. They convince with high energy efficiency, easy control via an app, sustainable operation and attractive design.

**Climate Protect++ protects the environment and the climate**

The Vitocal 222-S series uses the environmentally friendly refrigerant R32 with a low GWP100 of 771 (Global Warming Potential).

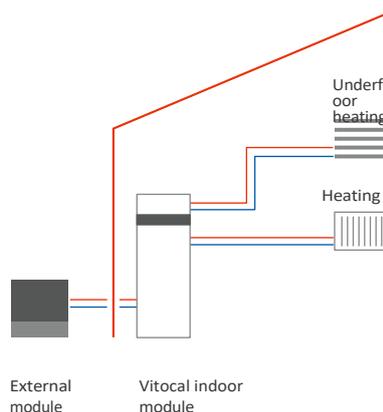


**CLIMATEPROTECT<sup>++</sup>**



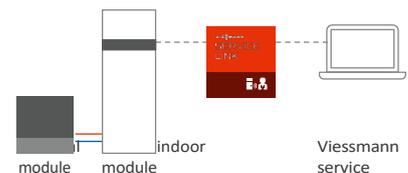
**OptiPerform - reliable operation at the highest efficiency**

Viessmann's modern heat pumps are powered by patented hydraulics. By The Hydro AutoControl® heat pump reliably and at peak efficiency throughout its lifetime. The unique design not only ensures that a technician can install a heat pump with OptiPerform much faster and therefore cheaper, but also that the heat pump takes up much less space as it is up to 60 percent smaller than similar systems.



**Service Link - for fast response times when you need service**

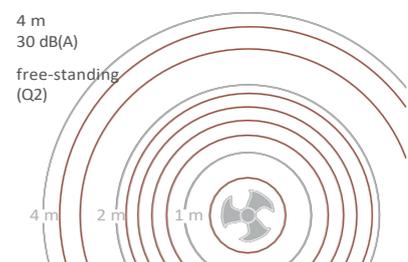
Vitocal 222-S heat pumps always have mobile technology are connected to Viessmann service. And this service is completely free of charge. The heat pump immediately and without delay notifies you of any faults. The specialist can immediately get to work. This way you can avoid unnecessary trips - saving you time and money.



**SERVICE LINK**

**Super Silent - very quiet at full and part load**

Viessmann heat pumps are among the quietest their category thanks to the Advanced Acoustic Design+. The fan noise is optimised loudness. Combined with intelligent speed control, this significantly reduces airborne noise at full and part load. This means that the outdoor module can be installed without any problems in areas with dense housing, for example in a terraced housing estate or close to the boundary of a plot of land.



**Vitocal 222-S external module**

- 1** Evaporator coated with wavy fins for increased efficiency
- 2** Energy efficient, speed controlled DC fan
- 3** Speed controlled compressor
- 4** Electronic expansion valve

## VITOC AL 222 - S

2,6 l 10,4 kW

Volume: 190 l

### Vitocal 222-S indoor modules

#### 1 Capacitor

Expansion vessel with membrane (18 l)

Instantaneous electric water heater

Secondary pump (highly efficient circulation pump)

Heat exchanger automation with colour touch screen, 7 inches

Safety valve

4/3-way valve

Heating/drinking water heating/plumbing

Hot water tank (190 litres)

Second heating/cooling circuit



COOLING  
FUNCTION



#### VITOCAL 222-S

with one heating/cooling circuit



#### VITOCAL 222-S

with two heating/cooling circuits



Vitocal 222-S external module with design floor console



Vitocal 222-S external module with design wall console

### A BRIEF OVERVIEW OF THE CONTRIBUTIONS

- + With a return temperature of 60 °C, best suited for energy-efficient new buildings
- + Climate Protect++ - environmentally friendly refrigerant R32 with low 771 GWP100 (GWP = Global Warming Potential)
- + Reliable operation with high efficiency (OptiPerform)
- + Guarantees fast response times when service is needed (Service Link)
- + Very quiet operation allows you to choose your own location on your plot (Super Silent)
- + High efficiency for low operating costs, COP (coefficient of performance) from EN 14511: up to 5.1 (A7/ W35 model)
- + Ideal for combining with a solar PV panel and a power battery
- + 60% less space than other comparable models
- + Easy entry as the internal module can be split
- + The integrated energy management system clearly shows energy consumption and costs
- + Attractive, high-quality design both indoors and out
- + Active cooling in summer by the cooling function
- + Simple management in the ViCare app

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



**Comfort at the touch of a finger** Simple and easy adjustment of the power system from anywhere



## VISSMANN ONE BASE

**Viessmann One Base** connects digital services to complex energy systems made up of heat pumps, ventilation equipment, power storage and solar photovoltaics.

### All Viessmann systems and Smart-Home solutions on one platform

With Viessmann One Base, the entire complex energy system is controlled with just one app - simply, safely and quickly. The new platform connects all devices and electronic applications in the home to a single climate and energy solution. With the most beneficial consequences: lower energy consumption, lower CO<sub>2</sub> emissions and an always up-to-date overview of current costs. Viessmann One Base makes the four walls of your home fit for a climate-friendly future!

**Only one system needed:  
Viessmann One Base**

The platform integrates existing Smart- Home solutions - seamlessly and wirelessly. It can be seamlessly extended, for example with a wall charging station to charge your electric car. With Viessmann One As a member of the ViShare Energy Community\*, Base can help you achieve sustainable use of power and heat.

Viessmann One Base is available for all additional digital services. Integrated services and devices are easy to manage with the Virtual Voice Assistant as Amazon Alexa or Google Assistant. The platform forms the basis for a modifiable and future-proof energy system in every home.

**Best service around  
the clock**

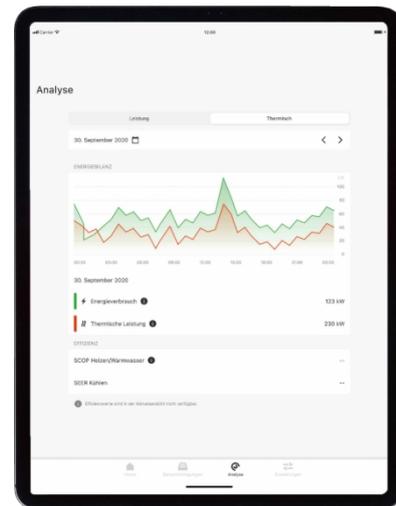
To communicate with Viessmann One Base, all you need is the free ViCare app, and the integrated Viessmann energy management system will do the rest. With app, Viessmann One Base can be managed quickly and easily. In addition, a specialist remotely monitors the system and immediately corrects any inaccuracies. This unnecessary trips and the need to agree deadlines with the technical partner.



ViCare radiator thermostats make it easy to control individual rooms via an app or voice command, for example Amazon Alexa.



The ViCare app's energy dashboard allows users to view the energy flows in their household.



The energy balance visually displays current and past energy flows. It documents the capacity of the whole system.

**A BRIEF OVERVIEW OF THE IMPACT OF THE NEW  
PROCEDURE**

- + **Comfort:** energy management in the app. Optionally connects to other devices and services like Amazon Alexa, Apple HomeKit, Google Assistant and more.
- + **Efficiency:** the platform ensures grid connection and optimisation of energy flows to achieve a highly efficient and therefore cost-effective operation.
- + **Safety:** the specialised company is automatically informed of all failures and can eliminate possible causes online.
- + **Sustainability:** long-term integration of all selected digital services, innovations and product extensions, e.g. smart solar PV with power battery and wall charging station for electric mobility.

\* The operator and contractual partner of the ViShare Energy Community is Energy Market Solutions GmbH (EMS), a Viessmann Group company.

## Split type air/water heat pumps - compact unit **VITOCAL 222-S**

Vitocal 222-S AWBT-M-E-AC(-AF)	Types	221.E06 221.E06 2C	221.E08 221.E08 2C	221.E10 221.E10 2C
<b>Voltage</b>	V	230	230	230
<b>Capacity data, heating</b> compliant. EN 14511				
<b>Rated thermal input</b>				
Work point A7/ W35	kW	5,7	7,0	8,3
Work point A-7/ W35	kW	5,3	6,4	7,5
<b>Power data, heating</b> compliant. EN 14511 (A7/W35, 5 K difference)				
<b>Rated thermal input</b>				
Efficiency coef. $\xi$ (COP) in heating mode		5,1	5,0	4,9
Power adjustment	kW	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>Power data, cooling</b> compliant. EN 14511 (A35/ W18, 5 K difference)				
<b>Cooling capacity</b>				
Efficiency ratio EER		4,7	6,1	7,5
Cooling capacity, max.	kW	4,9	4,4	4,0
	kW	8,5	9,5	10,6
<b>Cooling circle</b>				
Refrigerant		R32	R32	R32
- Packed quantity in delivery condition	kg	1,50	1,50	1,50
- Greenhouses ef. Potential (GWP100 according to IPCC AR6)		771	771	771
- CO <sub>2</sub> -equivalent	t	1,16	1,16	1,16
<b>Internal module dimensions</b>				
Length x width x height	mm	597 x 600 x 1900	597 x 600 x 1900	597 x 600 x 1900
<b>External module dimensions</b>				
Length x width x height	mm	500 x 1080 x 850	500 x 1080 x 850	500 x 1080 x 850
<b>Weight, internal module (1 rpm arc / 2 rpm arcs)</b>	kg	188/190	188/190	188/190
<b>Weight, external module</b>	kg	95	95	95
<b>Energy efficiency class</b>	III	A+++ / A++	A+++ / A++	A+++ / A++
<b>Consumption profile</b>		L	L	L
<b>Efficiency class</b>	A	A*	A*	A*

Design 2C: with integrated 2nd heating arc  
 Measurement of the total sound power level based on EN ISO 12102/EN ISO 9614-2, accuracy class 3 in night mode (level 2)  
 Energy efficiency class from EU Regulation No 813/2013, heating, average climatic conditions - use in low temperature range (W35)/use in medium temperature range (W55)

### PRODUCTIONS

- Air/water heat pumps in a split design
- For space heating/cooling and drinking water heating
- Integrated water heater-tank (capacity 190)
- Maximum flow temperature: 60 °C
- Internal module with heat pump automation, highly efficient circulation pump for the secondary circuit, 4/3-way valve and bypass
- Built-in instantaneous electric water heater
- Built-in heating water buffer tank (16 l) and expansion vessel (18 l)