VIE**S**MANN

Air / Water Heat Pumps | **VITOCAL 150-A**
VITOCAL 150-A COMPACT
VITOCAL 150-A HYBRID
VITOCAL 150-A MODULAR
from 2.1 to 14.9 kW

Ideal for new build and retrofit projects

Vitocal 150-A indoor and outdoor unit
(2.1 to 8.0 kW) and Vitocell storage water heater

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Monobloc heat pumps for new buildings and retrofit projects

🌎 | CLIMATE PROTECT ++

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

The Vitocal 150-A heat pumps use the natural refrigerant R290, which is considered particularly environmentally friendly, with a very low GWP100 of 0.02 (global warming potential).

The Viessmann Climate Protect label is based on the TEWI indicator (total equivalent warming impact), which characterises the life cycle efficiency of the appliance and the greenhouse gas potential of the refrigerant used.
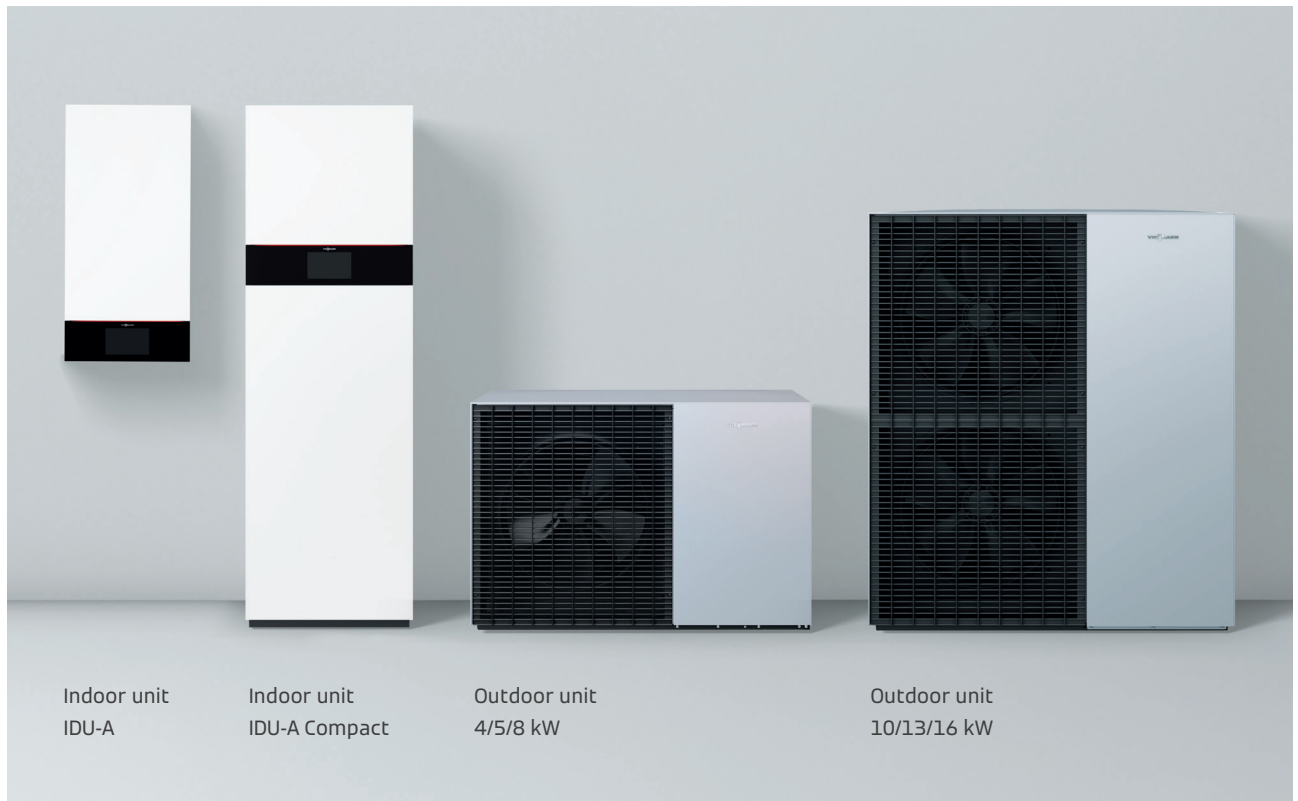
▃▎ | OPTIPERFORM

**OptiPerform – reliable
and highly efficient**

The heat pumps** feature Viessmann's patented Hydro AutoControl® hydraulic system, ensuring reliable and highly efficient operation throughout their entire service life.
OptiPerform simplifies installation, saves time and money, and requires up to 60% less space.

** Does not apply to Vitocal 150-A Modular

Indoor unit
IDU-A

Indoor unit
IDU-A Compact

Outdoor unit
4/5/8 kW

Outdoor unit
10/13/16 kW

Outdoor unit
2.1 to 8.0 kW (A7/W35)

1 Energy-saving, speed-controlled EC fan
2 Coated evaporator with corrugated fins to increase efficiency
3 Safety valve
4 Condenser
5 Suction gas cooler inverter
6 4-way diverter valve
7 Hermetic, power-controlled double-piston compressor

Outdoor unit
2.6 to 14.9 kW (A7/W35)

1 Energy-saving, speed-controlled EC fan
2 Coated evaporator with corrugated fins to increase efficiency
3 Hermetic, power-controlled double-piston compressor
4 4-way diverter valve
5 Safety valve
6 Condenser
7 Internal heat exchanger
8 Accumulator

2.1 to 14.9 kW

VITOCAL 150-A

The Vitocal 150-A air/water heat pumps offer excellent quality and performance.
The monobloc versions deliver 2.1 to 8.0 kW and 2.6 to 14.9 kW.

The Vitocal 150-A with 4, 6 and 8 kW outdoor units are designed for new buildings.
The more powerful unit with 10, 13 and 16 kW outdoor units, achieves a flow temperature of 70 °C thanks to its well-designed refrigeration circuit with the propane refrigerant (R290) and is therefore also recommended for retrofit projects.

The Vitocal 150-A has an integrated 190-litre DHW cylinder made of steel with Ceraprotect enamelling.

VITOCAL 150-A MODULAR

Vitocal 150-A Modular is the cost-effective variant specifically for systems with a heating water buffer tank and without an integrated expansion vessel.

This version is particularly recommended for systems with multiple heating circuits and a separate heating water buffer tank or when using fresh water stations..
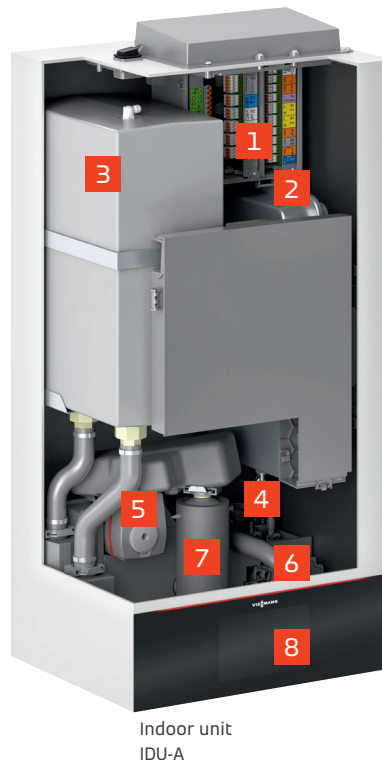
Heat pumps
KEYMARK-
certified

R290
GWP 0.02
GLOBAL WARMING POTENTIAL
(GWP100 gem. IPCC AR6)

*

1 Junction box
2 Expansion vessel
3 Integrated buffer tank
4 Safety valve
5 4/3-way valve
6 Secondary pump
  (high-efficiency circulation pump)
7 Instantaneous water heater
8 Heat pump control

Indoor unit
IDU-A

Product features

- Air/water heat pumps in monobloc design
- For space heating/cooling and domestic hot water heating
- Maximum flow temperature: 70 °C (at an outside temperature down to -10 °C)
- Monobloc indoor unit with heat pump control, high-efficiency circulation pump for the secondary circuit, 4/3-way valve, safety group
- Integrated instantaneous heating water heater
- Integrated defrost buffer and overflow valve
- 5 year warranty as standard

Advantages at a glance:

+ Flow temperature of 70 °C (at an outside temperature of down to -10 °C)
+ Protects the environment using environmentally friendly, natural refrigerant R290 with a particularly low GWP100 of 0.02 (GWP = Global Warming Potential)
+ Reliable operation with maximum efficiency (OptiPerform)
+ Low operating costs thanks to high efficiency, COP (Coefficient of Performance) in accordance with EN 14511: up to 5.2 (for A7/W35)
+ 60 % less space required than comparable models
+ Integrated energy management system ensures transparency for energy consumption and costs
+ Active cooling in summer thanks to cooling function
+ Simple operation via ViCare app
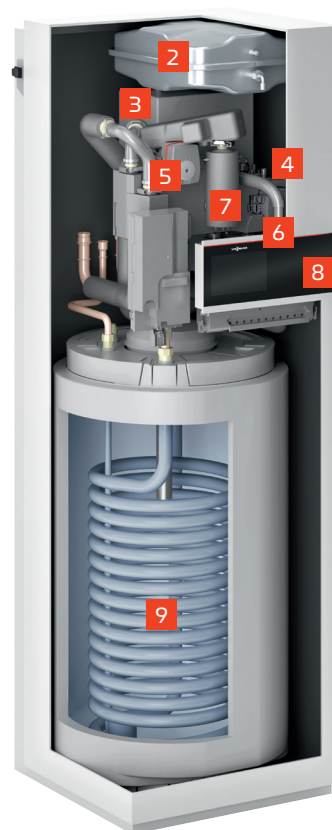
2.1 to 14.9 kW

VITOCAL 150-A COMPACT

The Vitocal 150-A Compact model has an integrated 190-litre
DHW cylinder made of steel with Ceraprotect enamelling.

Heat pumps
KEYMARK-
certified

R290
GWP 0.02
GLOBAL WARMING POTENTIAL
(GWP100 gem. IPCC AR6)

1 Junction box
2 Expansion vessel
3 Integrated buffer tank
4 Safety valve
5 4/3-way valve
6 Secondary pump
   (high-efficiency circulation
   pump)
7 Instantaneous water heater
8 Heat pump control
9 Hot water tank (190 l
   capacity)

Indoor unit
IDU-A Compact

Product features

- Air/water heat pumps in monobloc design
- For space heating/cooling and domestic hot water heating
- Maximum flow temperature: 70 °C (at an outside temperature down to -10 °C)
- Monobloc indoor unit with heat pump control, high-efficiency circulation pump for the secondary circuit, 4/3-way valve, safety group
- Integrated instantaneous heating water heater
- Integrated defrost buffer and overflow valve
- 5 year warranty as standard

Advantages at a glance:

+ Flow temperature of 70 °C (at an outside temperature of down to -10 °C)
+ Protects the environment using environmentally friendly, natural refrigerant R290 with a particularly low GWP100 of 0.02 (GWP = Global Warming Potential)
+ Reliable operation with maximum efficiency (OptiPerform)
+ Low operating costs thanks to high efficiency, COP (Coefficient of Performance) in accordance with EN 14511: up to 5.2 (for A7/W35)
+ Integrated energy management system ensures transparency for energy consumption and costs
+ Active cooling in summer thanks to cooling function
+ Simple operation via ViCare app

Vitocal 150-A Hybrid indoor and outdoor unit
and Vitocell storage water heater

Vitocal 150-A Hybrid air/water heat pumps in monobloc design are recommended for retrofitting existing systems.

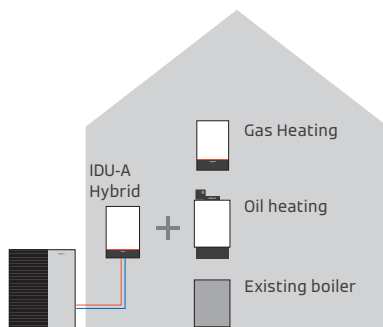🌍 | CLIMATE PROTECT ⁺⁺ *

🏷 | ECO SELECT

▊ | OPTIPERFORM

Reliable, compact and more environmentally friendly than ever, Viessmann's innovative heat pump technology allows environmental heat to be used particularly efficiently for heating and cooling.

Designed specifically for modernisation projects, the Vitocal 150-A Hybrid offers a flow temperature of up to 70°C, allowing continued use of existing radiators, no need for underfloor heating. It stands out for its excellent energy efficiency, intuitive app control, sustainable performance, and sleek design.

2.1 to 14.9 kW

Optimised Integration with existing Heating Systems

The Vitocal 150-A Hybrid is ideally suited to complement an existing heating system. It handles the base load efficiently, with the boiler only activated during periods of very low outdoor temperatures.

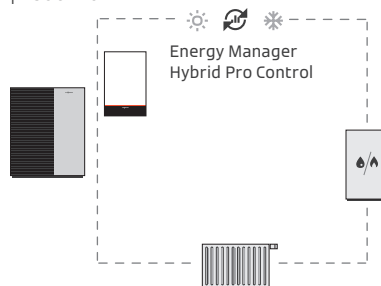**Combination with existing heating system**

CLIMATE PROTECT ++ *

Climate Protect++ protects the environment and the climate

Vitocal 150-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 most sustainable operating mode
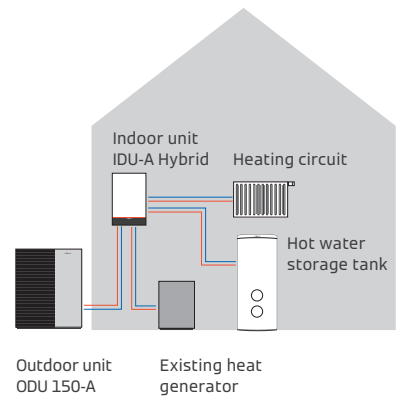
Viessmann hybrid appliances are powered by Hybrid Pro Control, an advanced energy management system that adjusts heating based on both external conditions—such as outdoor temperature and flow temperature—and personalised user settings. These settings may include energy prices, self-generated electricity, CO_2 emissions, and heat demand. Users can choose between economy mode, which automatically selects the most cost-effective energy source, or eco mode, which prioritises the lowest CO_2 emissions per kW hour of heat produced.

OPTIPERFORM

OptiPerform – reliable and highly efficient

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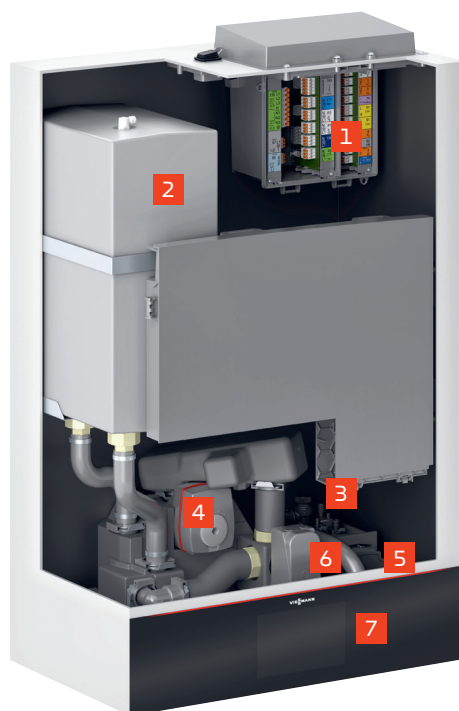

* The Viessmann Climate Protect label is based on the TEWI indicator (Total Equivalent Warming Impact), which characterises the life cycle efficiency of the appliance and the greenhouse gas potential of the refrigerant used.

1 Connection box
2 Integrated buffer memory
3 Safety valve
4 4/3-way valve
5 Secondary pump
(high-efficiency circulation pump)
6 3/2-way mixing valve, bivalence operation
7 Heat pump control with
Hybrid Pro Control

Heat pumps
KEYMARK-
certified

R290
GWP 0.02

Indoor unit IDU-A Hybrid

Product Features

- Air/water heat pumps in monobloc design, prepared for hybrid operation with external heat generator up to 36 kW
- For space heating/cooling and domestic hot water heating
- Maximum flow temperature up to 70 °C at an outside temperature of –10 °C
- Monobloc indoor unit with heat pump control, high-efficiency circulation pump for the secondary circuit, 4/3-way valve and safety group
- Built-in buffer tank and overflow valve
- Versions: AF version: With integrated fan ring heater and electric trace heating for the condensate tray
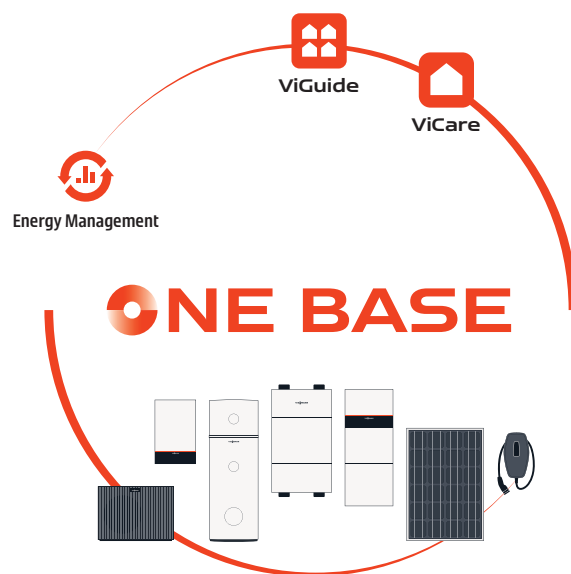- 5 year warranty as standard

Advantages at a glance

- + Flow temperature of 70 °C (at an outside temperature of up to –10 °C), it is ideally suited for modernisation projects
- + Protects the environment and climate (Climate Protect++) – environmentally friendly, natural refrigerant R290 with a particularly low GWP100 of 0.02 (GWP = Global Warming Potential)
- + Reliable operation with high efficiency (OptiPerform)
- + Low operating costs thanks to high efficiency, COP (COP = Coefficient of Performance) according to EN 14511: up to 5.2 (at A7/W35)
- + 60% less space required compared to comparable models
- + Integrated energy management system ensures transparency in energy consumption and costs
- + Easy operation via the ViCare app
- + Easy integration into the existing heating system, including the existing heat generator

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

Viessmann One Base connects digital services with the complete energy systems of heat pumps, ventilation systems, electricity 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 a single app – simply, reliably and quickly.

The new platform connects all devices and electronic applications in your home into a single climate and energy solution.

This provides lower energy consumption through intelligent management, a smaller carbon footprint through the integration of self-generated photovoltaic electricity, and a constantly updated overview of running costs. Viessmann One Base makes your own four walls fit for a climate-friendly future!
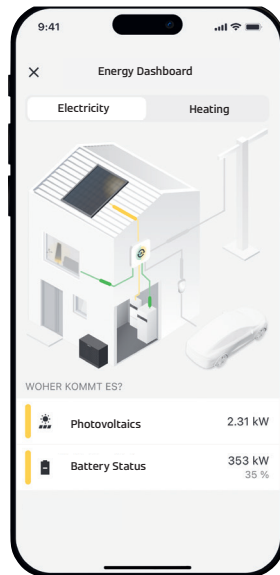
Only one system is required: Viessmann One Base

The platform integrates existing smart home solutions seamlessly and wirelessly. It can be easily expanded, for example with a wallbox for charging your own electric car. Viessmann One Base is open to all additional digital services. Controlling the integrated services and devices is easy with voice assistants such as Amazon Alexa or Google Assistant. The platform is the basis for a scalable and future-proof energy system in every home.
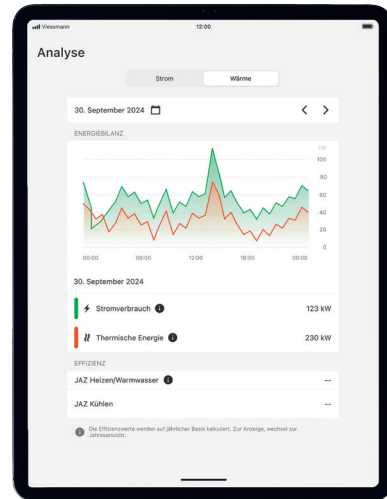
Around the clock in the best hands

To communicate with Viessmann One Base, all you need is the ViCare app; the integrated energy management system takes care of the rest.

Viessmann One Base can be operated quickly and easily via the app. In addition, the installer can keep an eye on the system remotely and correct any irregularities immediately. This eliminates unnecessary trips and appointments with the installer.

The energy dashboard in the ViCare app allows users to keep an eye on the energy flow in their household.

The energy balance visualises current and past energy flow. It documents the performance of the overall system.

Viessmann One Base – many advantages

+ **Convenience:** Control of the energy system via app. On request, linking to other devices and services such as Amazon Alexa, Google Assistant and others
+ **Efficiency:** The platform ensures particularly efficient and cost-effective operation through the networking and optimisationof energy flow
+ **Security:** The installer is automatically informed of any irregularities and can remedy possible causes online
+ **Future-proof:** Long-term integration of all desired digital services, upgrades and product enhancements, for example photovoltaics with electricity storage and wallbox for e-mobility

ViCare radiator thermostats allow easy control of individual rooms via the app or voice command, for example, using Amazon Alexa.

Technical data
Vitocal 150-A, 150-A Modular and 150-A Compact

Vitocal 150-A Modular V101 Vitocal 150-A V105 Vitocal 150-A Compact V109	Type	04	06	08	10	13	16	10	13	16
Voltage	V	230	230	230	230	230	230	400	400	400
Rated heat output										
Output at A7/W35	kW	4.0	4.8	5.6	7.3	8.1	9.1	7.4	8.1	9.1
Output at A–7/W35	kW	3.8	5.6	6.5	9.7	11.1	12.4	9.7	11.1	12.4
Coefficient of performance (COP)		5.0	4.9	4.7	5.0	5.0	4.9	5.2	5.1	5.0
in heating mode rated output	kW	2.1 – 4.0	2.1 – 6.0	2.1 – 8.0	2.6 – 12,0	2.6 to 12.3	3.0 to 13.7	2.6 – 12.0	3.0 – 13.4	3.3 – 14.9
Flow temperature	°C	70	70	70	70	70	70	70	70	70
Sound power level	dB(A)	51	51	51	53	54	55	53	54	55
Cooling capacity	kW	4.0	5.0	6.0	9.6	11.0	13.2	9.5	11.2	13.3
Coefficient of performance EER		4.7	4.4	3.9	4.4	4	3.7	4.5	4.1	3.7
Cooling capacity max.	kW	4.0	5.5	6.0	14.4	1.7	17.0	13.4	14.7	16.0
Refrigeration circuit										
Refrigerant		R290	R290	R290	R290	R290	R290	R290	R290	R290
- Filling quantity on delivery	kg	2	2	2	2	2	2	2	2	2
- Global warming potential (GWP100 according to IPCC AR6)		0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
- CO2 equivalent	t	0.00004	0.00004	0.00004	0.00004	0.00004	0.00004	0.00004	0.00004	0.00004
Dimensions Width x Height x Length **Indoor unit IDU-A/IDU-A Modular** (1 heating/cooling circuit)	mm				450 x 920 x 360					
Indoor unit IDU-A Compact	mm				600 x 1900 x 597					
Dimensions of the outdoor unit ODU 150-A Width x Height x Length	mm		1144 x 841 x 600				1144 x 1382 x 600			
Weight indoor unit IDU-A	kg	47	47	47	47	47	47	47	47	47
Weight indoor unit IDU-A Modular	kg	47	47	47	47	47	47	47	47	47
Weight indoor unit IDU-A Compact	kg	170	170	170	170	170	170	170	170	170
Weight outdoor unit ODU 150-A	kg	162	162	162	191	191	191	197	197	197
Energy efficiency at W35	%	176	180	175	190	178	178	199	194	188
Energy efficiency at W55	%	127	138	137	145	141	141	156	155	150
Energy efficiency class (heating)	▥		A⁺⁺ (G → A⁺⁺⁺) [1]					A⁺⁺⁺ (G → A⁺⁺⁺) [1]		
Vitocal 150-A Compact Storage tank capacity	l				190					
Tapping profile					XL					
Energy efficiency class (hot water preparation)	🚰				A (F → A⁺) [2]					

[1] The energy efficiency classes of heat generators are in a range from G to A+++
[2] The energy efficiency classes of storage tanks range from F to A+
COP at operating point A7/W35 in accordance with EN 14511 at nominal heat output
Performance range min/max at operating point A7/W35
Measurement of the sound power sum level based on DIN EN 12102-1:2023 and DIN EN ISO 3744:2011 at ErP point C in accordance with
DIN EN 14825 with operating conditions A7/W55
Cooling capacity and EER at operating point A35/W18 in accordance with EN 14511
Energy efficiency: Heating performance data in accordance with EU Regulation No. 813/2013 at average climate conditions for low temperature application
(W35) and medium temperature application (W55)

Technical data
Vitocal 150-A Hybrid

Vitocal 150-A Hybrid V113	Type	04	06	08	10	10	13	16
Voltage	V	230	230	230	230	400	400	400
Rated heat output								
Output at A7/W35	kW	4.0	4.8	5.6	7.3	7.4	8.1	9.1
Output at A–7/W35	kW	3.8	5.6	6.5	9.7	9.7	11.1	12.4
Coefficient of performance (COP)		5.0	4.9	4.7	5.0	5.2	5.1	5.0
in heating mode rated output	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	3.3-14.9
Flow temperature	°C	70	70	70	70	70	70	70
Sound power level	dB(A)	51	51	51	53	53	54	55
Cooling capacity	kW	4.0	5.0	6.0	9.6	9.5	11.2	13,3
Coefficient of performance EER		4.7	4.4	3.9	4.4	4.5	4.1	3.7
Cooling capacity max..	kW	4.0	5.5	6.0	14.4	13.4	14.7	16.0
Refrigeration circuit								
Refrigerant		R290	R290	R290	R290	R290	R290	R290
- Filling quantity on delivery	kg	1.2	1.2	1.2	2	2	2	2
- Global warming potential (GWP100 according to IPCC AR6)		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
Dimensions IDU-A Hybrid								
Length x Width x Height	mm				360 x 450 x 920			
Dimensions ODU 150-A								
Length x Width x Height	mm		600 x 1144 x 841			600 x 1144 x 1382		
Weight of IDU-A Hybrid	kg	47	47	47	47	47	47	47
Weight of ODU 150-A	kg	162	162	162	191	197	197	197
Energy efficiency at W35	%	176	180	175	190	199	194	188
Energy efficiency at W55	%	127	138	137	145	156	155	150
Energy efficiency class (heating)	▐▐▐'		A⁺⁺ (G → A⁺⁺⁺) [1]			A⁺⁺⁺ (G → A⁺⁺⁺) [1]		

[1] The energy efficiency classes of heat generators are in a range from G to A+++

[2] The energy efficiency classes of storage tanks range from F to A+

COP at operating point A7/W35 in accordance with EN 14511 at nominal heat output

Performance range min/max at operating point A7/W35

Measurement of the sound power sum level based on DIN EN 12102-1:2023 and DIN EN ISO 3744:2011 at ErP point C in accordance with

DIN EN 14825 with operating conditions A7/W55

Cooling capacity and EER at operating point A35/W18 in accordance with EN 14511

Energy efficiency: Heating performance data in accordance with EU Regulation No. 813/2013 at average climate conditions for low temperature application

(W35) and medium temperature application (W55)