

Natural Heat

VITOCAL 300-G

VIESSMANN

climate of innovation





Vitocal 300-G is certified in accordance with the EHPA heat pump quality seal and NF-PAC.

Powerful, quiet and reliable

The heart of the Vitocal 300-G is its powerful Compliant scroll compressor. It proves its worth through excellent reliability, safety and particularly quiet operation, thanks, in part, to the hermetic seal and dual anti-vibration mounts. At the same time, the Compliant scroll compressor ensures the highest performance factors and flow temperatures up to 65°C.

Environmentally responsible in every respect

As well as using renewables, the Vitocal 300-G uses R 407 C, a CFC-free, non-flammable and biodegradable process medium, making it completely environmentally responsible.

Backup from the sun

An advanced heating system should include innovative solar technology. To make use of solar energy to back up your heat pump, Viessmann offers you a system that is a perfect match for the Vitocal 300-G.

Perfect for higher output levels too

Even for greater heat demand, the Vitocal 300-G is the right choice, because you can also link several separate heat pumps via the heating flow and return. This does not just deliver the

higher heat output, but also increases the operational reliability of the entire system. The modular construction with separate compressor circuits also ensures particularly high efficiency in the partial load range, and enables simultaneous operation of central and DHW heating.

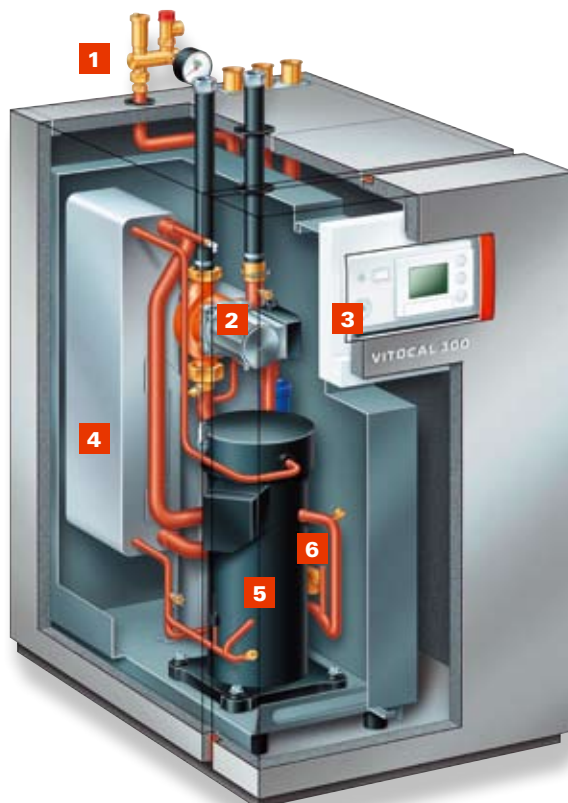
RCD supplies as much heat as you need

RCD stands for Refrigerant Cycle Diagnostic system. In the Vitocal 300-G, it continuously monitors the refrigerant circuit and the available output. This means it will always give you the highest level of efficiency at every operating point. An energy statement is already integrated.

Modular solution for higher heat demand

With six output sizes as a master or slave version, various combinations can be realised, precisely matched to the required heat demand. Because of this flexibility, systems can be configured so that runtimes match demand and save you money.

The master module regulates the slave module. By combining different output sizes, users have the option of matching the environmentally responsible heating system to their own heat demand – as, for example, in an apartment building – as efficiently as possible by utilising various modules. There is also the option to equip the entire system with high efficiency DC pumps (Energy Label A).



Vitocal 300-G (type BWC/WWC)

- 1 Safety equipment block with safety assembly
- 2 Brine circuit pump
- 3 Heat pump control unit with user prompts WPR 300
- 4 Large area evaporator for an efficient heat transfer
- 5 Hermetically sealed Compliant scroll compressor
- 6 Electronic expansion valve



Optimised control characteristics and therefore reduced consumption costs – the Vitocal 300-G is equipped with an electronic expansion valve that ensures particularly high seasonal performance factors.



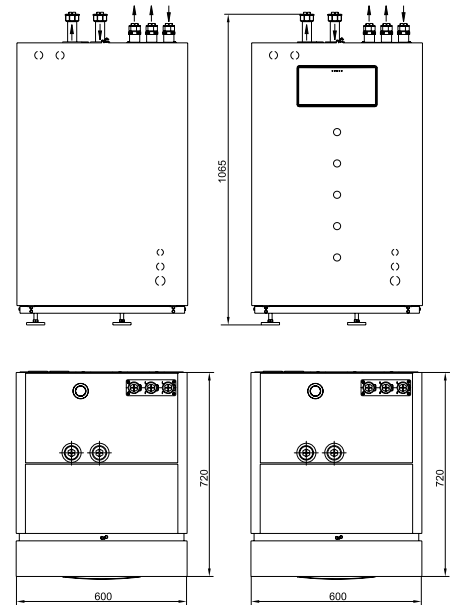
Two-stage heat pump Vitocal 300-G (master/slave) – a pipework set with fittings and shut-off valves is available for the hydraulic connection of the heat pump modules. Fully wired cables are used to connect the control unit.

Take advantage of these benefits

- Brine/water heat pump
Heating outputs, single-stage: 6.2 to 17.6kW, 2nd stage: 12.4 to 35.2kW
- Water/water heat pump
Heating outputs, single-stage: 8.0 to 21.6kW, 2nd stage: 16.0 to 43.2kW
- High Coefficient of Performance: COP value to EN 14511 up to 4.7 (brine 0°C/ water 35°C)
- Mono-mode operation for central and DHW heating
- Quiet operation through hermetically sealed Compliant scroll compressor and sound insulation
- With 65°C flow temperature, suitable for radiator and underfloor heating
- Heat pump control unit with user prompts for weather-compensated heating operation and natural cooling or active cooling
- Vitocal 300-G: brine pump, heating circuit pump and safety assembly are integrated (type BWC and WWC)
- Optional temporary installation of an electrical booster heater, for example for screed drying

Technical Data Vitocal 300-G

Vitocal 300-G							
Brine/Water Heat pump							
Type	BW/BWC	BW/BWC	BW/BWC	BW/BWC	BW/BWC	BW/BWC	BW/BWC
	106	108	110	112	114	117	
Output data (EN 14511, B0/W35°C, Delta T 5K)							
Rated output	kW	6.2	8.4	10.2	12.1	15.1	17.6
Cooling output	kW	4.9	6.6	8.1	9.6	11.9	13.8
Power consumption	kW	1.38	1.82	2.23	2.57	3.27	3.99
Coefficient of performance (COP) in heating mode		4.5	4.6	4.6	4.7	4.6	4.4
Overall dimensions							
Depth x Width x Height	mm	720 x 600 x 1 065					
Overall weight	kg	138	143	152	158	165	168
Vitocal 300-G							
Water/Water Heat pump							
Type	WW/WWC	WW/WWC	WW/WWC	WW/WWC	WW/WWC	WW/WWC	WW/WWC
	106	108	110	112	114	117	
Output data (EN 14511, W10/W35°C, Delta T 5K)							
Rated output	kW	8.0	11.0	13.6	15.8	19.8	21.6
Cooling output	kW	6.7	9.2	11.6	13.3	16.6	17.9
Power consumption	kW	1.4	2.0	2.3	2.8	3.3	4.3
Coefficient of performance (COP) in heating mode		5.5	5.5	5.7	5.5	5.7	5.1
Overall dimensions							
Depth x Width x Height	mm	720 x 600 x 1 065					
Overall weight	kg	138	143	152	158	165	168
Vitocal 300-G as 2nd stage (Slave)							
Type	BWS 106	BWS 108	BWS 110	BWS 112	BWS 114	BWS 117	
Output data (EN 14511, B0/W35°C, Delta T 5K)							
Rated output	kW	6.2	8.4	10.2	12.1	15.1	17.6
Cooling output	kW	4.9	6.6	8.1	9.6	11.9	13.8
Power consumption	kW	1.38	1.82	2.23	2.57	3.27	3.99
Coefficient of performance (COP) in heating mode		4.5	4.6	4.6	4.7	4.6	4.4
Overall dimensions							
Depth x Width x Height	mm	720 x 600 x 1 065					
Overall weight	kg	138	143	152	158	165	168



Vitocal 300-G
2nd stage (Slave)

Vitocal 300-G
Master

Your trade partner: