

Natural Heat

VITOCAL 300-A VITOCAL 350-A

VIESMANN

climate of innovation

Air source heat pumps





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

Top technology for top performance

The Vitocal 300-A is the first air/water heat pump with digital scroll technology and an electronic bi-flow expansion valve. This means it achieves an extremely high Coefficient of Performance of 3.5 (air 2°C/ water 35°C) and therefore high seasonal performance factors too. What's more, it accounts for the particularly reliable heat supply of the Vitocal 300-A, as well as providing significantly lower running costs.

RCD: Always as much heat as you need

RCD stands for Refrigerant Cycle Diagnostic system. This is responsible for permanently monitoring the heat demand and the output made available by the Vitocal 300-A. It uses this information to match the two and can therefore achieve the highest level of efficiency at every operating point.

Not only quiet at night

Particularly quiet operation is ensured by a radial fan with variable speed control and a reduced fan speed for night operation.

Everything you need

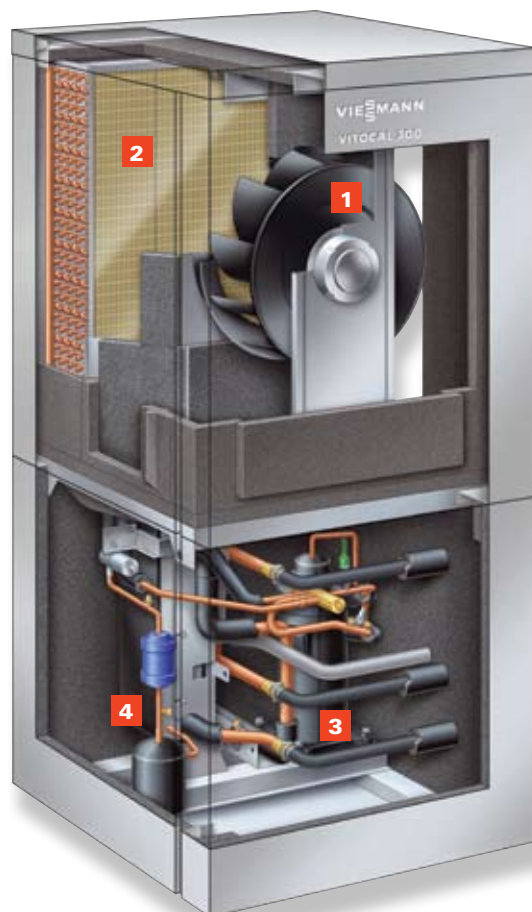
Every household has different heat demands and the conditions for installing a heat pump vary. The range of accessories for the Vitocal 300-A is suitably flexible and comprehensive. Subject to demand, the heat pump can be supplied fully equipped. This means the heating circuit pump, expansion vessel and safety equipment have already been fully fitted. Even the modular electric instantaneous heater can be easily integrated. In conclusion, Viessmann has the complete product range to meet the demands of any installation you require – inside or out.

Monitor and control from wherever you are

With the new control unit in the Vitocal 300-A, you can simply connect your heat pump to the Vitocom 100. This gives you the option of conveniently operating your heating system via your mobile phone if you wish.

Cooling – no problem

Thanks to its reversible operation, the Vitocal 300-A can also be used for cooling. Convectors or surface cooling systems with a cooling capacity of up to 8.6kW give you the flexibility to make your living area even more pleasant.



Vitocal 300-A

- 1 Radial fan
- 2 Evaporator
- 3 Digital scroll compressor
- 4 Condenser



Technology that interacts perfectly – the RCD system, the digital scroll technology and the electronic bi-flow expansion valve guarantee the highest level of efficiency at every operating point.



You'll really appreciate the Vitocal 300-A for its quiet operation. This is achieved by a special radial fan with variable speed control, and the reduced fan speed during night operation.

Take advantage of these benefits

- Reversible air/water heat pump for heating and cooling for installation inside and outside
- Variable output control from 3.0 to 8.6kW
- High COP value (COP = Coefficient of Performance) in accordance with EN 14511:
3.5 (air 2 °C/water 35 °C)
4.4 (air 7 °C/water 35 °C)
- Maximum flow temperature: up to 60 °C
- Low operating noise through radial fan and reduced fan speed during night operation
- Efficient defrosting through circuit reversal
- Heat pump control unit for remote control and monitoring
- Particularly quiet, outdoor silent version available
- 230 V single phase unit
- Easy to operate Vitotronic 200 heat pump control



Vitocal 350-A is tested in accordance with the EHPA heat pump quality seal.

Ideal for modernisation

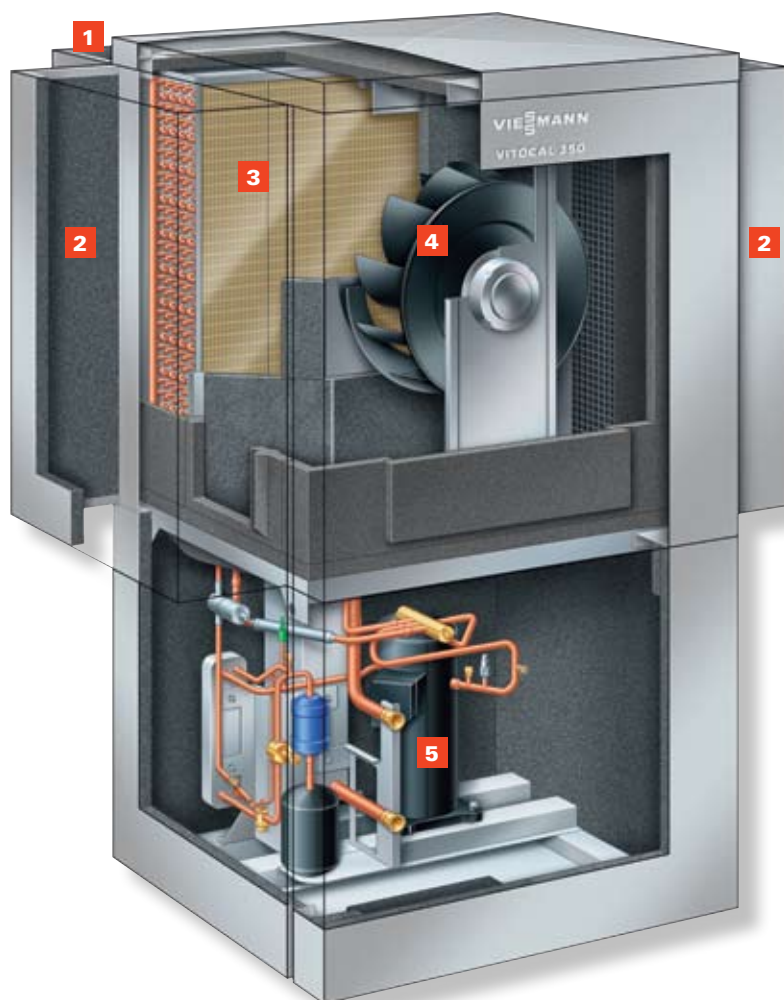
With the Vitocal 350-A air/water heat pump, modernising is easy. The additional vapour injection in the compression process (EVI cycle) enables flow temperatures up to 65°C. That makes it an ideal choice where older heating systems with radiators are installed. The heat pump draws its energy from the ambient air without needing to drill boreholes for geothermal probes.

High DHW convenience

Subject to model type, a higher flow temperature enables a water temperature of up to 55°C inside the DHW cylinder. This allows the Vitocal 350-A to deliver a particularly high DHW convenience. The Vitocal 350-A achieves the high flow temperature of 65°C even at outside temperatures of -10°C.

RCD guarantees efficient operation

RCD stands for Refrigerant Cycle Diagnostic system. In the Vitocal 350-A, it is responsible for permanently monitoring the refrigerant circuit. This, in conjunction with the electronic expansion valve (EEV) ensures the highest efficiency at every operating point. Alongside this, important operating parameters are saved and called up, when required, for diagnosis, optimisation, energy statements and to calculate the seasonal efficiency.



Vitocal 350-A

- 1 Inlet side
- 2 Discharge side
- 3 Evaporator
- 4 Radial fan
- 5 Hermetically sealed Compliant scroll compressor



The Compliant scroll compressor will win you over with its inner values of reliability, safety and quietness.



Vitocal 350-A for installation inside

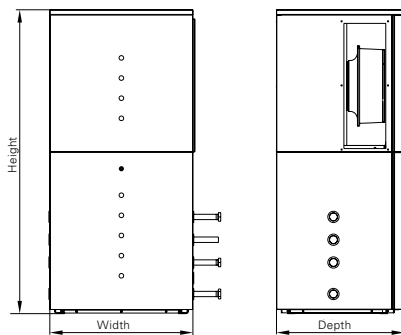
Take advantage of these benefits

- 400 V three phase air/water heat pump, mono-mode with a heating output of 10.6 to 18.5kW for heating and DHW heating
- Particularly suitable for modernisation (even for existing radiator systems) due to 65°C flow temperature, even at winter outside temperatures
- DHW temperature subject to model type up to 55°C
- Low COP value (COP = Coefficient of Performance) in accordance with EN 14511:
3.5 (air 2°C/water 35°C)
4.1 (air 7°C/water 35°C)
- High efficiency all year round at any operating point and therefore low consumption costs through innovative RCD (Refrigerant Cycle Diagnostic) system with an electronic bi-flow expansion valve (EEV)
- Low operating noise through radial fan, sound-optimised design and night operation with reduced fan speed
- New heat pump control unit with telecontrol and remote monitoring for connection to Vitocom 100 and cascade function for up to five heat pumps
- Installation inside or outside with matching accessories
- Easy to operate Vitotronic 200 heat pump control unit
- Efficient defrosting through circuit reversal

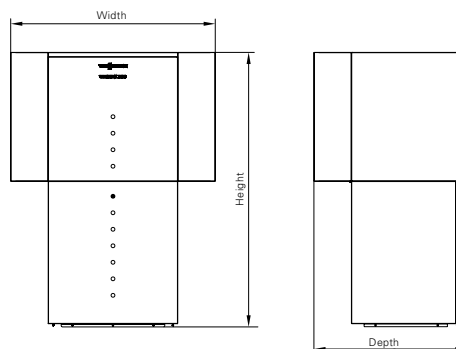
Technical Data

		Indoor	Outdoor	Outdoor silent
Vitocal 300-A	Type	AWC-I	AW-O	AW-O
Output data 100% (EN 14511, 2/35°C, Delta T 5K)				
Rated output	kW	8.6	8.6	8.6
Power consumption	kW	2.4	2.4	2.4
Coefficient of performance (COP) in heating mode	kW	3.5	3.5	3.5
Coefficient of performance (COP) (Air 7°C/Water 35°C)	kW	4.4	4.4	4.4
Output control		3 to 8.6	3 to 8.6	3 to 8.6
Cooling output (Air 27°C/Water 7°C)	kW	8.6	8.6	8.6
Overall dimensions				
Depth x Width x Height	mm	946 x 880 x 1 870	946 x 880 x 1 885	1 265 x 1 380 x 1 885
Overall weight	kg	289	279	309

Vitocal 300-A, Type AWC-I

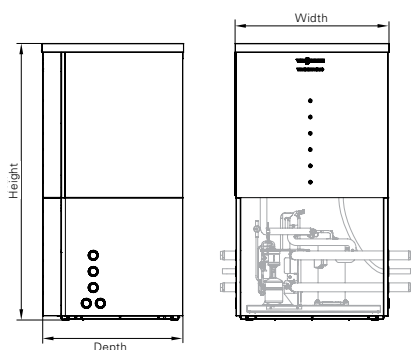


Vitocal 300-A, Type AW-O



		Internal			External		
Vitocal 350-A	Type	AWH-I 110	AWH-I 114	AWH-I 120	AWH-O 110	AWH-O 114	AWH-O 120
Output data (EN 14511, A2/W35°C, Delta T 5K)							
Rated output	kW	10.6	14.5	18.5	10.6	14.5	18.5
Power consumption	kW	2.9	4.2	5.8	2.9	4.2	5.8
Coefficient of performance (COP) in heating mode		3.6	3.5	3.2	3.6	3.5	3.2
Overall dimensions							
Depth	mm	946	946	946	1 265	1 265	1 265
Width	mm	880	1 030	1 200	1 380	1 530	1 700
Height	mm	1 870	1 870	1 870	1 885	1 885	1 885
Overall weight	kg	287	297	361	325	335	400

Vitocal 350-A, Typ AWH-I



Vitocal 350-A, Typ AWH-O

