

Datasheet

For part no. and prices: see pricelist



VITOCAL 200-A ie

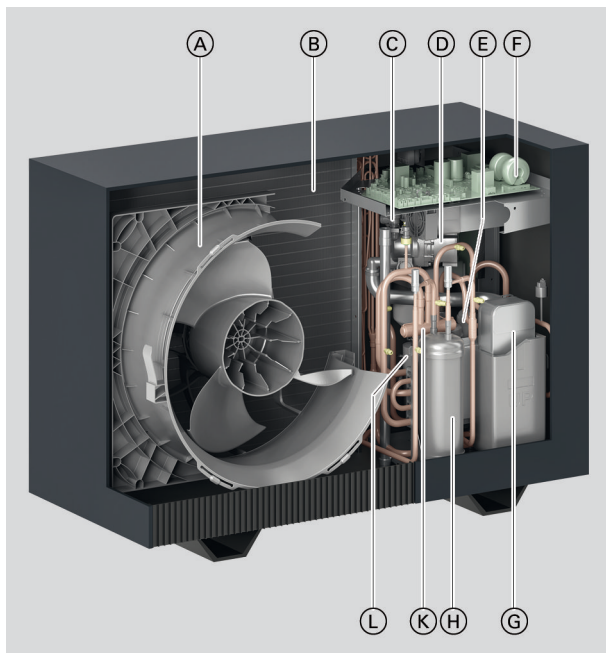
Air/water heat pump in monoblock design for heating and cooling operation
For room heating, room cooling and DHW heating in heating systems

Various combinations of outdoor units and the following components available:

- Indoor units with controller and integrated hydraulics, with or without integrated DHW cylinder
Or
- IDU Controller ie or Universal Controller ie for controlling the system with on-site hydraulics

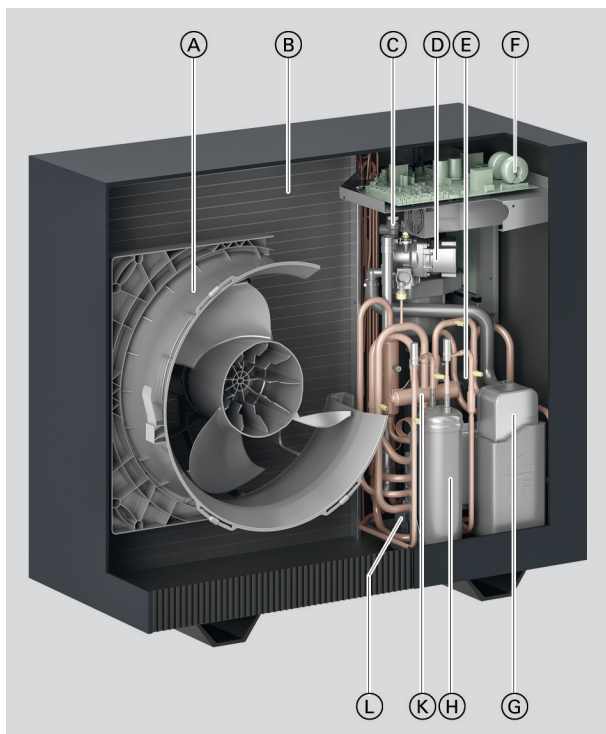
Benefits

Vitocal 200-A outdoor unit, size 06 to 08



- Ⓐ Power saving variable speed EC fan
- Ⓑ Coated evaporator with corrugated fins for highly efficient heat recovery
- Ⓒ Safety valve
- Ⓓ Secondary pump (high efficiency circulation pump)
- Ⓔ Instantaneous heating water heater
- Ⓕ Refrigerant circuit controller OCU (Outdoor Control Unit)
- Ⓖ Condenser
- Ⓗ Accumulator (refrigerant receiver)
- Ⓚ 4-way diverter valve
- Ⓛ Hermetically sealed twin rotary compressor with output-dependent control

Vitocal 200-A outdoor unit, size 10 to 12



- Ⓐ Power saving variable speed EC fan
- Ⓑ Coated evaporator with corrugated fins for highly efficient heat recovery
- Ⓒ Safety valve
- Ⓓ Secondary pump (high efficiency circulation pump)
- Ⓔ Instantaneous heating water heater
- Ⓕ Refrigerant circuit controller OCU (Outdoor Control Unit)
- Ⓖ Condenser
- Ⓗ Accumulator (refrigerant receiver)
- Ⓚ 4-way diverter valve
- Ⓛ Hermetically sealed twin rotary compressor with output-dependent control

- Output control and DC inverter with active PFC (Power Factor Correction) for high efficiency in partial load operation and to minimise the load on the grid
- A maximum flow temperature of up to 65 °C at an outside temperature of –10 °C enables use in both new build and modernisation projects.
- Environmentally responsible, natural refrigerant R290 with a particularly low GWP of 0.02 (GWP = Global Warming Potential)

- Convenient reversible design for heating and cooling
- Especially quiet operation thanks to Advanced Acoustic Design (AAD)
- Instantaneous heating water heater as a booster heater, e.g. to support heat pump starts at low return temperatures or very low outside temperatures
- Guided commissioning via the heat pump control unit or ViGuide

Benefits (cont.)

Delivered condition of the Vitocal 200-A outdoor unit

Equipment:

- DC inverter for variable output control
- Variable speed twin rotary compressor
- Electronic expansion valves
- Variable speed axial fan
- Corrosion-resistant, water-repellent evaporator
- Condenser
- 4-way diverter valve
- High efficiency circulation pump for secondary circuit / heating/cooling circuit 1

- Instantaneous heating water heater
- Flow rate capturing
- Safety valve and digital pressure gauge

Standard delivery:

- Outdoor unit with factory-filled refrigerant R290
- Heating filter with integrated ball valves for installation in the secondary circuit return, before the inlet to the outdoor unit

Specification

Specification

Vitocal 200-A outdoor unit

Types of Vitocal 200-A outdoor unit:

- AWMOF-201.A1.06-230-V004
to
AWMOF-201.A1.12-230-V004
- AWMOF-201.A1.06-230-V005
to
AWMOF-201.A1.12-230-V005

Note

- The highlighted number is the size of the outdoor unit.
- Instantaneous heating water heater for types ...-V004:
 - Operation of the instantaneous heating water heater only if heat pump operation is not possible
 - Power supply via mains connection of the outdoor unit
- Instantaneous heating water heater for types ...-V005:
 - Operation of the instantaneous heating water heater also possible in addition to heat pump operation, e.g. for convenient DHW heating
 - Power supply via separate mains connection
- These specifications are **provisional**. The specifications at the time of delivery of the series product are definitive.

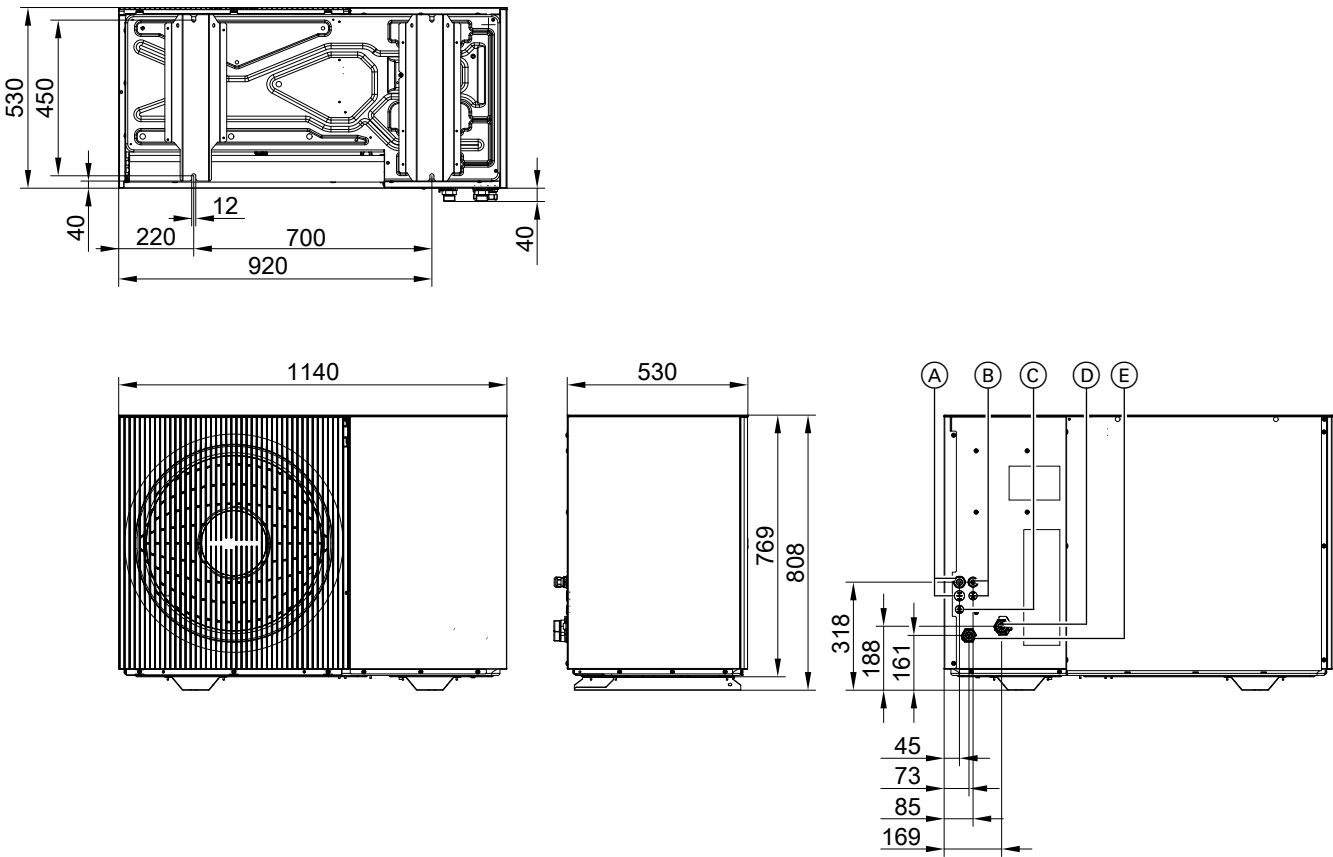
Size		06	08	10	12
Heating performance data to EN 14511 (A-7/W35)					
Rated heating output	kW	5.5	6.8	8.3	9.7
Heating performance data to EN 14511 (A-7/W55)					
Rated heating output	kW	5.2	7.0	8.6	9.4
Heating performance data to Commission Regulation (EU) No 813/2013 (average climatic conditions)					
Low temperature application (W35)					
– Energy efficiency η_s	%	202	202	208	204
– Rated heating output P_{rated}	kW	5	6	9	10
Medium temperature application (W55)					
– Energy efficiency η_s	%	151	153	155	155
– Rated heating output P_{rated}	kW	5	6	9	10
Energy efficiency class to Commission Regulation (EU) No 813/2013					
Heating, average climatic conditions					
– Low temperature application (W35) (D→A+++)		A+++	A+++	A+++	A+++
– Medium temperature application (W55) (D→A+++)		A+++	A+++	A+++	A+++
Air inlet temperature					
Max. air inlet temperature, cooling mode	°C	45	45	45	45
Min. air inlet temperature, heating mode					
– Types ...-V004	°C	–20	–20	–20	–20
– Types ...-V005 with support from the instantaneous heating water heater when the heat pump starts	°C	–25	–25	–25	–25
Heating water (secondary circuit)					
Max. flow temperature	°C	75	75	75	75
Max. flow temperature (A-10)	°C	70	70	70	70
Electrical values, types ...-V004					
Rated voltage		1/N/PE 230 V~/50 Hz			
Max. operating current	A	< 14	< 14	16	20
Max. heating output, instantaneous heating water heater (1-stage)	kW	1x 3.2	1x 3.2	1x 3.2	1x 3.2
Electrical values, types ...-V005					
Rated voltage		1/N/PE 230 V~/50 Hz			
Max. operating current	A	< 14	< 14	16	20
Rated voltage, instantaneous heating water heater		1/N/PE 230 V~/50 Hz			
Max. heating output, instantaneous heating water heater (2-stage)	kW	2x 3.2	2x 3.2	2x 3.2	2x 3.2
Max. power consumption					
– Integrated central circulation pump (secondary pump, PWM)	W	63	63	63	63
– Energy efficiency index EEI of the circulation pump		≤ 0.20	≤ 0.20	≤ 0.20	≤ 0.20
Refrigerant circuit					
Refrigerant		R290	R290	R290	R290
– Safety group		A3	A3	A3	A3
– Charge weight	kg	1	1	1.4	1.4
Compressor (hermetically sealed)	Type	Twin rotary			
– Oil in compressor	Type	PAG	PAG	PAG	PAG
Outdoor unit dimensions					
Total length	mm	530	530	530	530
Total width	mm	1140	1140	1140	1140
Total height	mm	808	808	1008	1008
Total weight	kg	93	93	118	118
Permissible operating pressure on the secondary side					
	bar	3	3	3	3
	MPa	0.3	0.3	0.3	0.3
Connections					
Heating water flow/return (male thread)		G 1	G 1	G 1	G 1

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Specification (cont.)

Size		06	08	10	12
Sound power at rated heating output					
Total sound power level measurement with reference to DIN EN 12102-1:2023 and DIN EN ISO 3744:2011 in ErP point C to DIN EN 14825 with operating conditions A7/W55					
– ErP	dB(A)	48	53	54	55
– Max.	dB(A)	56	59	61	61
– Low-noise mode, stage 2	dB(A)	54	56	56	56

Dimensions of Vitocal 200-A outdoor unit, sizes 06 to 08



- (A) Power cables

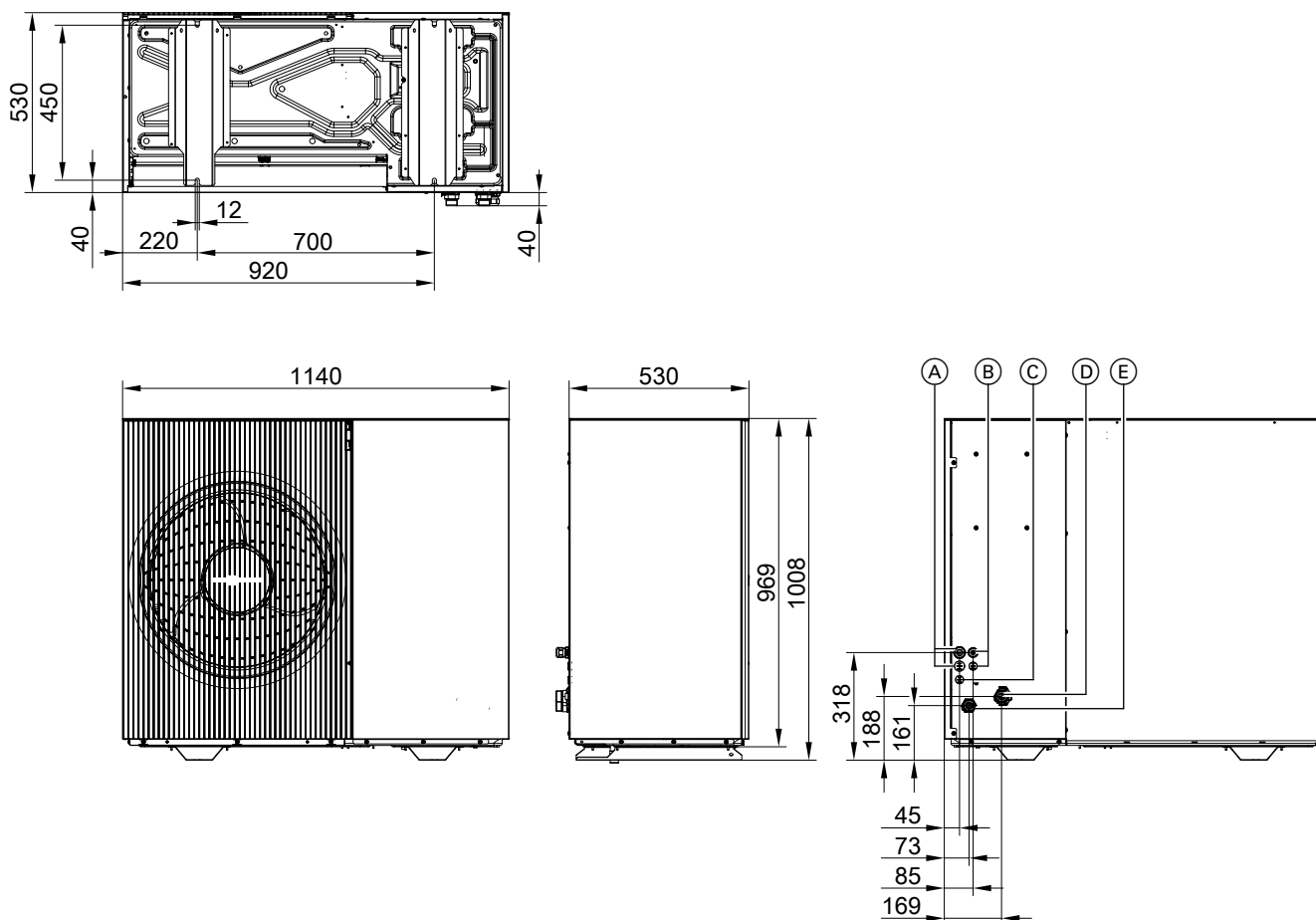
(B) CAN bus communication cables (accessories)

(C) Connecting cable for electric ribbon heater in condensate pan (accessories)
- (D) Heating water flow

(E) Heating water return

Specification (cont.)

Dimensions of Vitocal 200-A outdoor unit, sizes 10 to 12

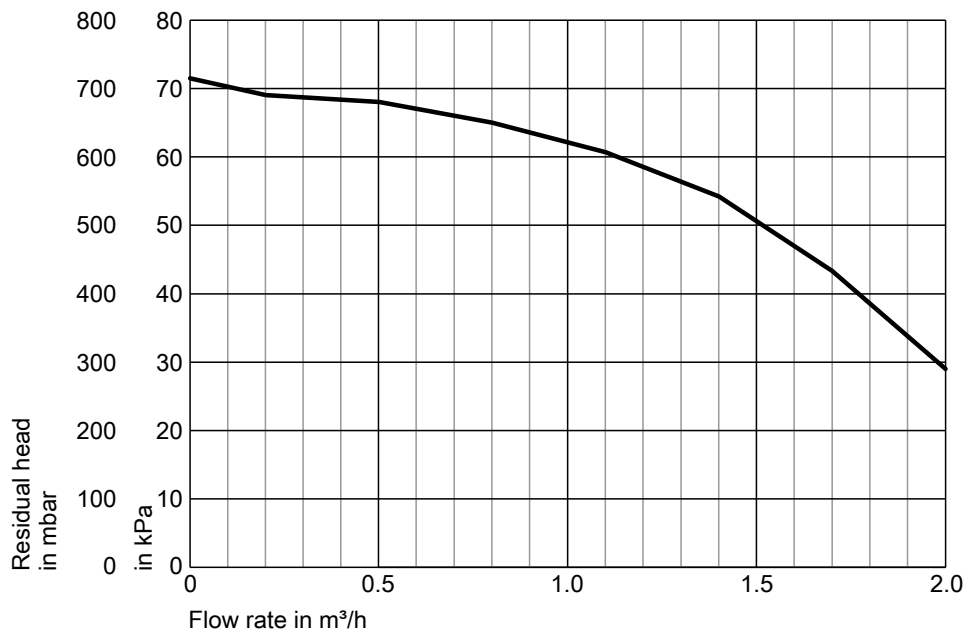


- (A) Power cables
- (B) CAN bus communication cables (accessories)
- (C) Connecting cable for electric ribbon heater in condensate pan (accessories)

- (D) Heating water flow
- (E) Heating water return

Specification (cont.)

Residual heads of the integral secondary pump



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