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Affordably priced heat pumps with the usual high quality and efficiency of Viessman: **"VITOCAL 100-S"**  
**"VITOCAL 111-S"**



The Vitocal 100-S and Vitocal 111-S split-type heat pumps are attractively priced heating appliances that are distinguished by their traditionally high Viessmann quality and efficiency.



Vitocal 100-S split air/water heat pump, Vitocell hot water tank (right) and external unit

The Vitocal 100-S and Vitocal 111-S split-type air/water heat pumps consist of two separate units: the outer unit with refrigerant absorbs heat from the outside air in the evaporator, which is transformed in the compressor to the required for heating. The heat flows through a pipe to the indoor unit, where it is transferred to the heating system via a condenser. The indoor unit is factory fitted hydraulic components such as a 3-way diverter valve and a heat pump control unit.

The new R32 refrigerant (for models from 4.0 to 8.1 kW) has a low GWP (global warming potential), thus increasing the environmental friendliness of the new generation of heat pumps.

#### Functional equipment for different requirements

"Vitocal 100-S and Vitocal 111-S are available in several versions to meet different requirements. For example as a heat pump for space heating and domestic water heating (type AWB-M) or with an optional built-in instantaneous water heater (type AWB-M-E), as well as with an optional "active cooling" function for pleasant room temperature control during the summer months (type AWB-M-E-AC).



COOLING  
FUNCTION

R32

"Vitocal 100-S/111-S" are .

**"VITOCAL 100 -S"**  
**"VITOCAL 111 -S"**

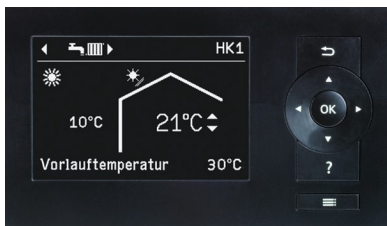
4,0 l yd 15,3 kW



External units for model "Vitocal 100-S/111-S"

**Easy to control in the app**

The Vitocal 100-S/111-S air/water heat pumps can be connected online via the optional Vitoconnect web interface. With the free "ViCare" app, you can easily set many functions on your smartphone, such as the temperature mode or the "Party" mode.



Heat pump control unit "Vitetronic 200"

**Split-type design for flexible and space-saving installation**

Thanks to their compact size, the indoor units are easy to install, saving space in the basement or utility room. The indoor unit is factory-fitted with all the necessary components. The Vitocal 111-S has a 220 litre hot water tank already integrated.

The outdoor units can be mounted on the external wall of the building with matching accessories, or can be freestanding in an outdoor area.

**Energy-saving technology - designed to run on electricity generated in your own home**

The electrical components are particularly energy efficient. A high-efficiency recirculation pump for the secondary circuit is as standard. When operating at half load, the compressor adapts modulantly and precisely to the instantaneous heat demand and thus maintains the desired heating or cooling, as well as the temperature of the warm water. In combination with a photovoltaic installation, you can use electricity generated in your household to power the heat pump.

**5-year warranty**

for activating/connecting the device

For conditions see [viessmann.lv](http://viessmann.lv)



**"VITOCAL 100-S"** (above)  
**"VITOCAL 111-S"** (left) Internal units

**"VITOCAL 100-S/111-S" PARTS LIST**

- + High COP (Coefficient of Performance) values ensure low running costs: according to EN 14511 it is up to 5.2 (A7/W35) and up to 3.9 (A2/W35)
- + High COP value for heating drinking water ("Vitocal 111-S"), which according to EN 16147 exceeds 3,3 (with XL-profile)
- + Power regulation and DC inverter high efficiency at half load
- + The easy-to-use Vitotronic control module with simple text and graphic display.
- + Viessmann ventilation equipment available regulation.
- + Internet control possible via Vitoconnect web interface (accessories) and the "ViCare" app
- + The reversible design provides heating and cooling (type AWO-M-E-AC)
- + Produced in household photovoltaic installations electricity consumption



- 1 Capacitor
  - 2 Electrical component (accessory)
  - 3 Flow switch
  - 4 3-way diverter valve
- "Heating/drinking water heating"
- 5 Expansion vessel, 10 litres
  - 6 Secondary pump (high efficiency recirculation pump)
  - 7 Control unit "Vitetronic 200"
  - 8 Enamelled hot water tank, 220 litre capacity

# VITOCAL 100-S VITOCAL 111-S split air/water heat pump

"Vitocal 100-S", "Vitocal 111-S" Type AWB-M, AWB-M-E, AWB-M-E-AC	Types	101.B04 111.B04	101.B06 111.B06	101.B08 111.B08	101.B12 111.B12	101.B14 111.B14	101.B16 111.B16	101.B12 111.B12	101.B14 111.B14	101.B16 111.B16
<b>Rated power</b>	V	230	230	230	230	230	230	400	400	400
<b>Power data, heating mode</b> (according to EN 14511, A7/W35)										
<b>Rated thermal input</b>	kW	4,0	6,0	8,1	11,5	13,5	15,5	11,5	13,5	15,3
<b>Coefficient of performance E (COP) in heating mode</b>		5,2	5,0	4,7	4,7	4,7	4,5	4,5	4,5	4,4
<b>Power adjustment</b>	kW	1,3 - 4,4	1,3 - 4,8	4,7 - 12,0	6,1 - 13,0	7,0 - 15,0	7,5 - 17,1	6,0 - 13,0	6,8 - 15,0	7,6 - 16,7
<b>Power data, heating mode</b> (according to EN 14511, A2/W35)										
<b>Rated thermal input</b>	kW	3,5	4,0	6,0	7,9	8,5	9,2	7,4	8,4	9,5
<b>Coefficient of performance E(COP) in heating mode</b>		3,8	3,7	3,6	3,4	3,5	3,4	3,3	3,3	3,3
<b>Power data, cooling mode</b> (according to EN 14511, A35/W18)										
<b>Rated cooling capacity</b>	kW	3,0	4,1	5,5	8,1	9,0	9,5	7,5	8,5	9,3
<b>Efficiency Efficiency Ratio (EER), cooling mode</b>		5,8	5,9	4,9	4,0	3,8	3,7	3,8	3,6	3,6
<b>Power adjustment</b>	kW	2,6 - 5,8	2,6 - 6,4	5,0 - 12,0	6,0 - 13,8	6,3 - 14,7	6,5 - 15,6	6,0 - 13,8	6,3 - 14,7	6,5 - 15,6
<b>Cooling circuit</b>										
<b>Refrigerant</b>		R32	R32	R32	R410A	R410A	R410A	R410A	R410A	R410A
- Filling volume	kg	0,95	0,95	1,65	2,5	2,5	2,5	2,5	2,5	2,5
- Global warming potential (GWP) <sup>1)</sup>		675	675	675	2088	2088	2088	2088	2088	2088
- CO <sub>2</sub> -equivalent	t	0,6	0,6	1,1	5,2	5,2	5,2	5,2	5,2	5,2
<b>External unit dimensions</b>										
Length (depth)	mm	360	360	360	412	412	412	412	412	412
Width	mm	980	980	980	900	900	900	900	900	900
Height	mm	790	790	790	1345	1345	1345	1345	1345	1345
<b>Dimensions</b>										
<b>"Vitocal 100-S indoor unit"</b>										
Length (depth) x width x height	mm	370 x 450 x 880								
<b>Dimensions</b>										
<b>"Vitocal 111-S indoor unit"</b>										
Length (depth) x width x height	mm	680 x 600 x 1900								
<b>"Vitocal 111-S reservoir capacity"</b>	litres	220	220	220	220	220	220	220	220	220
<b>Weight</b>										
"Vitocal 100-S indoor unit"	kg	45	45	45	48	48	48	48	48	48
"Vitocal 111-S indoor unit,"	kg	168	168	168	171	171	171	171	171	171
External unit	kg	55	59	80	107	107	107	114	114	114
<b>Energy efficiency class</b> According to EU Regulation No 813/2013 Heating in average climatic conditions - Low temperature operation (W35)		A++	A++	A++	A++	A++	A++	A++	A++	A++
- Medium temperature operation (W55)		A+	A+	A+	A+	A+	A+	A+	A+	A+
<b>"Vitocal 111-S indoor unit"</b> Drinking water heating, domestic hot water profile (XL)		A+	A+	A+	A+	A+	A+	A+	A+	A+
Drinking water heating, domestic hot water Water profile (XL)					A+	A+	A+	A+	A+	A+

<sup>1)</sup> With reference to the IPCC AR5



## PRODUCTION

- + Split type air/water heat pump, 4.0 to 15.3 kW
- + Internal units with high efficiency recirculation pump, heat exchanger, 3-way diverter valve, safety mechanism block, diaphragm type pressure expansion tank and control unit (variants -E and -AC with integrated heating water-pass-through heater)
- + 220 litre hot water tank (for Vitocal 111-S)
- + Cascade function for connecting up to five heat pumps ("Vitocal 100-S")

Your trading partner

01.2020 Country-specific options

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