

The following product data are in compliance with the requirements of the EU directives no. 811/2013, and no. 813/2013 as amendment to the directive 2010/30/EU of the European Parliament and the directive of 19 May 2010 in the submission of the energy consumption and other resources through energy consumption relevant products, by means standard uniform etiquette, labelling and product information.

Product data

BHKW type	smartblock 22s
Fuel	Natural Gas (NG)
Volume heating unit CHP	Yes
Value added burner	Yes
Supplementary heater	No
Low temperature boiler	No
B11 boiler	No
Combination heater	No
Nominal heating capacity P_{rated}	50 kW
Annually adjusted room heating efficiency η_s	134 %
Energy efficiency class	A ++

Usable heating power

With nominal heating power and additional heating element switched off or on

$P_{CHP100+Sup0}$ resp. $P_{CHP100+Sup100}$	49,6 kW
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Thermal resistance

At nominal heat performance with additional heating unit switched on or off

$\eta_{CHP100+Sup0}$ resp. $\eta_{CHP100+Sup100}$	65,2 %
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Electrical performance

At nominal heating performance of the room heater with CHP either switched on or off additional heater

$\eta_{el,CHP100+Sup0}$ resp. $\eta_{el,CHP100+Sup100}$	29,2 %
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Additional heater

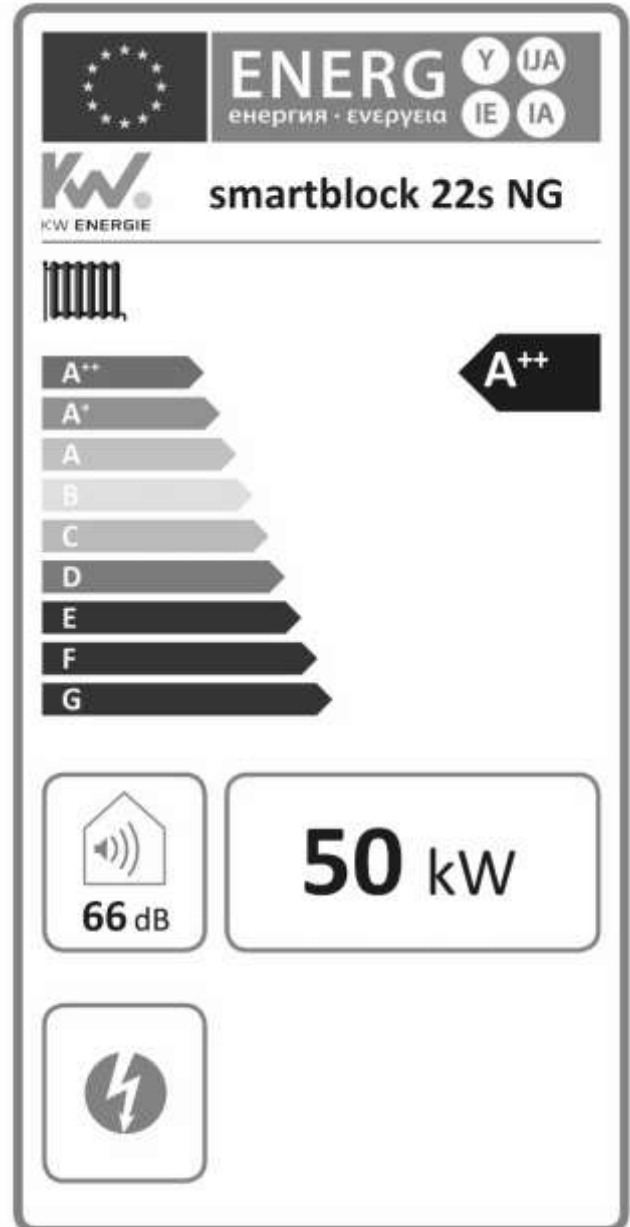
Nominal heating power P_{Sub}	-
Type of heating influx	-

Auxiliary power consumption

At full load $e_{l,max}$ u. partial load $e_{l,min}$	0,212 kW
In ready mode P_{SB}	0,060 kW

Other details

Heat loss in ready mode P_{stby}	0,193 kW
Energy consumption of ignition flame	-
Annual energy consumption Q_{HE}	766 kWh
Noise performance level inside L_{WA}	66 dB



All technical data are standard references according to EN 50465. Power adjustments for environmental conditions are according to EN 50645, ch. 7.6.1. The tolerance for specific fuel consumption is +5%. All efficiency ratings are according to EU-VO No. 813/2013 for the total energy supply for the combustion value (Hs) as calculated. According to our corporate policy and all further development we reserve the right to modify all data and characteristics without prior notice. All data refers to new ex-factory systems without wear and tear.