

Product Information

as required by EU regulations No 811/2013 and No 813/2013

Product Fiche (according to EU regulation No 811/2013)

(a) Supplier's name or trademark	<i>Vaillant</i>				
(b) Supplier's model identifier	<i>ecoTEC plus 412</i>				
(c) Seasonal space heating energy efficiency class	<i>A</i>				
(d) Rated heat output, including the rated heat output of any supplementary heater	<i>12</i>	<i>kW</i>			
(e) Seasonal space heating energy efficiency	<i>92</i>	<i>%</i>			
(f) Annual energy consumption	<i>10328</i>	<i>kWh</i>	and/ or	<i>37</i>	<i>GJ</i>
(g) Sound power level, indoors	<i>45</i>	<i>dB(A)</i>			
(h) Specific precautions for assembly, installation and maintenance	All specific precautions for assembly, installation and maintenance are described in the operating and installation instructions. Read and follow the operating and installation instructions.				

Product Information Requirements (according to EU regulation No 813/2013)

Model	ecoTEC plus 412		
condensing boiler	yes		
low temperature boiler**	yes		
B1 boiler	no		
Cogeneration space heater	no	If yes, equipped with a supplementary heater	
Combination heater	no		

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output	P_{rated}	12	kW	Seasonal space heating energy efficiency	η_s	92	%
For boiler space heaters and boiler combination heaters: Useful heat output				For boiler space heaters and boiler combination heaters: Useful efficiency			
At rated heat output and high-temperature regime (*)	P_4	11.9	kW	At rated heat output and high-temperature regime (*)	η_4	89.6	%
At 30 % of rated heat output and low-temperature regime (**)	P_1	3.9	kW	At 30 % of rated heat output and low-temperature regime (**)	η_1	97.7	%
Auxiliary electricity consumption				Supplementary heater			
At full load	el_{max}	0.019	kW	Rated heat output	P_{sup}	0.0	kW
At part load	el_{min}	0.014	kW	Type of energy input	no value		
In standby mode	P_{SB}	0.002	kW	Other items			
				Standby heat loss	P_{stby}	0.054	kW
				Ignition burner power consumption	P_{ign}	0.000	kW
				Emission of nitrogen oxides	NO_x	33	mg/kWh

Contact details	Vaillant, Vaillant GmbHBerghäuser Str. 4042859 RemscheidGermany
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(*) High-temperature regime means 60 °C return temperature at heater inlet and 80 °C feed temperature at heater outlet.

(**) Low-temperature means for condensing boilers 30 °C, for low-temperature boilers 37 °C and for other heaters 50 °C return temperature (at heater inlet).

Specific precautions that shall be taken when the space heater is assembled, installed or maintained/ information relevant for disassembly, recycling and/or disposal at end-of-life

All specific precautions for assembly, installation and maintenance and information relevant for disassembly, recycling and/or disposal at end-of-life are described in the operating and installation instructions. Read and follow the operating and installation instructions.

For type B1 boiler and type B1 combination boiler:

This natural draught boiler is intended to be connected only to a flue shared between multiple dwellings in existing buildings that evacuates the residues of combustion to the outside of the room containing the boiler. It draws the combustion air directly from the room and incorporates a draught diverter. Due to lower efficiency, any other use of this boiler shall be avoided and would result in higher energy consumption and higher operating costs.