

Models	AMARANTO 9 T1
Intended use of the product:	Residencial space heating appliance fired by wood pellets
Manufacturer	Cadel srl - Via Martiri della Libertà, 74 - 31025 S. Lucia di Piave (TV) - Italia
Mark	FREEPOINT
AVCP system	System 3
Notified body	NB 0051
Test report number	CS25-0121437-01
Harmonised technical specification	EN 16510-1:2022 / EN 16510-2-6:2022

**ESSENTIAL CHARACTERISTICS**

<b>Stability and mechanical resistance</b>	Load bearing capacity	20 kg	
<b>Fire safety - protection of combustible materials</b>	Minimum distance to combustible materials - bottom (dB)	15 mm	
	Minimum distance to combustible materials - front floor (dF)	400 mm	
	Minimum distance to combustible materials - ceiling (dC)	750 mm	
	Minimum distance to combustible materials - rear (dR)	200 mm	
	Minimum distance to combustible materials - side (dS)	300 mm	
	Minimum distance to combustible materials - lateral radiation (dL)	300 mm	
	Minimum distance to combustible materials - frontal radiation (dP)	1000 mm	
	Thickness of protective insulating material	/	
	Thermal conductivity of protective insulating material ( $\lambda_d$ )	/	
	Flue temperature class	T200G	
<b>Performance - Emissions</b>		Nominal power	Reduced power
	Carbon monoxide emissions (CO at 13% O <sub>2</sub> )	160 mg/Nm <sup>3</sup>	297 mg/Nm <sup>3</sup>
	Emission of nitrogen oxides (NOX at 13% O <sub>2</sub> )	99 mg/Nm <sup>3</sup>	120 mg/Nm <sup>3</sup>
	Emission of organic gaseous compounds (OGC at 13% O <sub>2</sub> )	3 mg/Nm <sup>3</sup>	5 mg/Nm <sup>3</sup>
	Particulate matter emissions (PM at 13% O <sub>2</sub> )	15 mg/Nm <sup>3</sup>	20 mg/Nm <sup>3</sup>
<b>Performance - Power and efficiency</b>	Heating power to the environment	8,5 kW	2,5 kW
	Heating power to the water	/	/
	Efficiency - Useful efficiency	89 %	90 %
<b>Safe and accessible use - chimney installation data</b>	Flue gas outlet temperature	196 °C	125 °C
	Flue gas mass flow	5,8 g/sec	3,1 g/sec
	Draught	12 Pa	10 Pa
	Draught for chimney sizing calculation (EN13384-1)	2 Pa	
<b>Energy efficiency index</b>	Seasonal energy efficiency	85 ηs [%]	
	Energy efficiency index	125	
	Energy efficiency class (A++ / G scale)	A+	
	Electrical consumption at nominal heat output	96 W	
	Electrical consumption at partial load heat output	14 W	
Electrical consumption in standby mode	1,2 W		
<b>Sustainable use of natural resources</b>	Environmental sustainability information	NPD	

The performance of the product identified above is in conformity with the set of declared performances.

This declaration of performance is issued in accordance with Regulation (EU) No 305/2011 under the responsibility of the manufacturer identified above.

Santa Lucia di Piave, 02/10/25

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