

Models	DUKE 12 AIRTIGHT
Intended use of the product:	Mechanically by wood pellets fed roomheater
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	CS20-0048537-01
Harmonised technical specification	EN 14785:2006

**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)	0 mm	
	Minimum distance to combustible materials - front floor (dF)	600 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)	0 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>	No	Nominal power	Potenza ridotta
	Carbon monoxide emissions (CO at 13% O2)	177 mg/Nm <sup>3</sup>	186 mg/Nm <sup>3</sup>
	Emission of nitrogen oxides (NOX at 13% O2)	114 mg/Nm <sup>3</sup>	109 mg/Nm <sup>3</sup>
	Emission of organic gaseous compounds (OGC at 13% O2)	3 mg/Nm <sup>3</sup>	3 mg/Nm <sup>3</sup>
	Particulate matter emissions (PM at 13% O2)	14 mg/Nm <sup>3</sup>	19 mg/Nm <sup>3</sup>
<b>Performance - Power and efficiency</b>	Heating power to the environment	12 kW	3.8 kW
	Heating power to the water	/	/
	Efficiency - Useful efficiency	90 %	93 %
<b>Safe and accessible use - chimney installation data</b>	Flue gas outlet temperature	210 °C	105 °C
	Minimum flue draught	10 Pa	11 Pa
	Flue gas mass flow	8.1 g/sec	3.9 g/sec
<b>Energy efficiency index</b>	Seasonal energy efficiency	86 ηs [%]	
	Energy efficiency index	126	
	Energy efficiency class (A++ / G scale)	A+	
	Electrical consumption at nominal heat output	151 W	
	Electrical consumption at partial load heat output	49 W	
	Electrical consumption in standby mode	1.7 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, 04/06/20

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