

INFORMATION REQUIREMENTS FOR SOLID FUEL LOCAL SPACE HEATERS ACCORDING TO COMMISSION REGULATIONS (EU) 2015/1185 - (EU) 2015/1186 (PRODUCT FICHE)

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
Trade mark	FREEPOINT
AVCP system	System 3
Notified body	NB 0051
Test report number	CS20-0048537-01
Harmonised technical specification	EN 14785:2006

ESSENTIAL CHARACTERISTICS

Fuel	Log wood, moisture content $\leq 25\%$			No	
	Compressed wood with moisture content $< 12\%$			Yes	
Type of heat output/room temperature control (select one)	Single stage heat output, no room temperature control			No	
	Two or more manual stages, no room temperature control			No	
	With mechanic thermostat room temperature control			No	
	With electronic room temperature control			No	
	With electronic room temperature control plus day timer			No	
	With electronic room temperature control plus week timer			Yes	
Other control options (multiple selections possible)	Room temperature control, with presence detection			No	
	Room temperature control, with open window detection			No	
	With distance control option			Yes	
Performance - Emissions	No	Symbol		Nominal power	Reduced power
	Carbon monoxide emissions (CO at 13% O ₂)	CO _{nom}	CO _{part}	177 mg/Nm ³	186 mg/Nm ³
	Emission of nitrogen oxides (NOX at 13% O ₂)	NO _{xnom}	NO _{xpart}	114 mg/Nm ³	109 mg/Nm ³
	Emission of organic gaseous compounds (OGC at 13% O ₂)	OGC _{nom}	OGC _{part}	3 mg/Nm ³	3 mg/Nm ³
	Particulate matter emissions (PM at 13% O ₂)	PM _{nom}	PM _{part}	14 mg/Nm ³	19 mg/Nm ³
Performance - Power and efficiency	Heating power to the environment	P _{nom}	P _{part}	12 kW	3.8 kW
	Heating power to the water	P _{wnom}	P _{wpart}	/	/
	Efficiency - Useful efficiency	η_{nom}	η_{part}	90 %	93 %
Safe and accessible use - chimney installation data	Flue gas outlet temperature	T _{snom}	T _{spart}	210 °C	105 °C
	Minimum flue draught	p _{nom}	p _{part}	10 Pa	11 Pa
	Flue gas mass flow	$\phi_{f,g nom}$	$\phi_{f,g part}$	8.1 g/sec	3.9 g/sec
Space heating efficiency	Seasonal energy efficiency	η_s	86 η_s [%]		
	Energy efficiency index	EEI	126		
	Energy efficiency class (A++ / G scale)	-	A+		
Auxiliary electricity consumption	Electrical consumption at nominal heat output	e _{lmax}	0.151 kW		
	Electrical consumption at partial load heat output	e _{lmin}	0.049 kW		
	Electrical consumption in standby mode	e _{ISB}	0.002 kW		

Observe the specific precautions for installation, assembly and maintenance indicated in the manual accompanying the product, and the national and local rules in force

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