Hi-Flame Alpha I AL905 & AL905-LS with log store

Technical parameters for solid fuel local space heaters

Model Identification	Hi-Flame Alpha I AL905 and AL905-LS Solid Fuel Room Heater
Indirect Heating Functionality	No
Direct Heating Output	5.0 kW
Indirect Heating Output	N/A

Test standards applied

EU harmonised standards	EN 13240:2002+ amd A2:2004 + amd A2:2005
Additional test standards	CEN/TS 15883, FprEN 16510-1:2013 DIR 2009/125/EC

Fuel	Preferred fuel (only one)	Other suitable fuel(s) (only one)	ηs (x%)	Space heating emissions at nominal heat output (*)				Space heating emissions at minimum heat output (*X**)			
				PM	OGC	CO	NOx	PM	OGC	CO	NOx
	[x] mg/NM ³ (13% O ²)		02)	[x] mg/NM ³ (13% O ²)							
Wood logs with moisture content ≤ 25 %	YES	NO	76.2	15	76	0.10	82	N/A	N/A	N/A	N/A
Compressed wood with moisture < 12 %	NO	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Other woody biomass	NO	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Non-woody biomass	NO	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Anthracite and dry steam coal	NO	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hard coke	NO	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Low temperature coke	NO	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Bituminous coal	NO	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Lignite briquettes	NO	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Peat briquettes	NO	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Blended biomass and fossil fuel briquettes	NO	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Other fossil fuel	NO	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Blended biomass and fossil fuel briquettes	NO	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Other blend of biomass and solid fuel	NO	NO	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

(*) PM = particulate matter, OGCs = organic gaseous compounds, CO = carbon monoxide, NOx = nitrogen oxides (**) Only required if correction factors F(2) or F(3) are applied.

Technical Documentation According to Regulation (EU) 2015/1185

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Characteristics when operating with preferred fuel only

Heat Output								
ltem	Symbol	Value	Unit					
Nominal heat output	P _{nom}	5.0	kW					
Maximum heat output (indicative)	P _{min}	N/A	kW					
Auxiliary electricity consump	Auxiliary electricity consumption							
ltem	Symbol	Value	Unit					
At nominal heat output	el _{max}	N/A	kW					
At minimal heat output	el _{min}	N/A	kW					
In stand-by mode	el _{sB}	N/A	kW					
Permanent pilot flame requirement								
ltem	Symbol	Value	Unit					
Pilot flame power requirement (if applicable)	el _{pilot}	N/A	kW					

Seasonal Energy efficiency & EEI

Seasonal space heating energy efficiency η_{s}	68
Energy Efficiency Index (EEI)	100

Useful efficiency (NCV as received)						
ltem	Symbol Value		Unit			
Nominal heat output	$\eta_{th\ min}$ 76.2		%			
Maximum heat output (indicative)	$\eta_{\text{th min}}$	N/A	%			
Type of heat output/room temperature control (Select one)						
single stage heat output, no room temperature control						
two or more manual stages, no room temperature control						
with mechanic thermostat room temperature control						
with electronic room temperature control						
with electronic room temperature control plus day timer						
with electronic room temperature control plus week timer						
Other control options (multiple selections possible)						
room temperature control, with presence detection						
room temperature control, with open window detection						
with distance control option						

Contact details

Name and address of the supplier

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Geoff Royle, Technical Director Hi-Flame Fireplace (UK) Limited Date 01/08/2023