

Technical Documentation

According to Regulation (EU) 2015/1185

Hi-Flame Graphite Five GR905 & GR905-LS with log store

Technical parameters for solid fuel local space heaters

Model Identification	Hi-Flame Graphite Five GR905 and GR905-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)	η_s (x%)	Space heating emissions at nominal heat output (*)				Space heating emissions at minimum heat output (**)**			
				PM	OGC	CO	NOx	PM	OGC	CO	NOx
				[x] mg/NM ³ (13% O ₂)				[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.

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Characteristics when operating with preferred fuel only

Heat Output			
Item	Symbol	Value	Unit
Nominal heat output	P_{nom}	5.0	kW
Maximum heat output (indicative)	P_{min}	N/A	kW

Auxiliary electricity consumption			
Item	Symbol	Value	Unit
At nominal heat output	$e_{l_{max}}$	N/A	kW
At minimal heat output	$e_{l_{min}}$	N/A	kW
In stand-by mode	$e_{l_{SB}}$	N/A	kW

Permanent pilot flame requirement			
Item	Symbol	Value	Unit
Pilot flame power requirement (if applicable)	$e_{l_{pilot}}$	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)			
Item	Symbol	Value	Unit
Nominal heat output	$\eta_{th\ min}$	76.2	%
Maximum heat output (indicative)	$\eta_{th\ min}$	N/A	%

Type of heat output/room temperature control (Select one)	
single stage heat output, no room temperature control	YES
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	NO

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	NO

Contact details

Name and address of the supplier	
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Date
01/08/2023