

barbas.

Technical parameters for gaseous fuel local space heaters

Manufacturer				Barbas BV, Hallenstraat 17, 5531 AB Bladel, The Netherlands														
Product name				Barbas														
Model identifier				Box Gas 45 MF														
Equivalent models				N/A														
Test report nr.				200601986 by KIWA Nederland BV														
Harmonised European standards				EN 613:2021														
Indirect heating functionality				no														
Fuel type				gaseous														
Minimum permissible total flue duct length				1 meter vertical - 90° bend - 0,6 meter horizontal wall terminal														
Energy Efficiency Index (EEI) - [(EU)2015/1186]				88														

Fuel	Fuel type	Nitrogen oxides (NO _x) emission	Heat output						Efficiency (NCV)								
			Nominal heat output			Minimum heat output			Useful efficiency at nominal heat output			Useful efficiency at minimum heat output (indicative)			Seasonal space heating energy efficiency		
		[mg/kWh _{input}] (GCV)	Symbol	Value	Unit	Symbol	Value	Unit	Symbol	Value	Unit	Symbol	Value	Unit	Symbol	Value	Unit
High calorific natural gas	G20	120	P _{nom}	3,9	kW	P _{min}	1,2	kW	η _{th, nom}	77,8	%	η _{th, min}	56,8	%	η _s	73,6	%
Low calorific natural gas	G25	120	P _{nom}	3,5	kW	P _{min}	0,9	kW	η _{th, nom}	74,8	%	η _{th, min}	54,8	%	η _s	70,7	%
Butane 30/37/50 mbar	G30	120	P _{nom}	3,6	kW	P _{min}	1,2	kW	η _{th, nom}	69,0	%	η _{th, min}	59,0	%	η _s	65,5	%
Propane 30/37/50 mbar	G31	120	P _{nom}	3,1	kW	P _{min}	0,9	kW	η _{th, nom}	71,8	%	η _{th, min}	61,8	%	η _s	68,2	%
Butane 28-30 mbar	G30	120	P _{nom}	3,6	kW	P _{min}	1,2	kW	η _{th, nom}	69,0	%	η _{th, min}	59,0	%	η _s	0,0	%
Propane 37 mbar	G31	120	P _{nom}	3,1	kW	P _{min}	0,9	kW	η _{th, nom}	71,8	%	η _{th, min}	61,8	%	η _s	0,0	%

Auxiliary power consumption			
	Symbol	Value	Unit
At nominal heat output	e _{lmax}	0,050	kW
At minimum heat output	e _{lmin}	0,0003	kW

Power consumption			
	Symbol	Value	Unit
In off-mode	P ₀	0	W
In standby mode	P _{sm}	0,3	W
In idle mode	P _{idle}	0	W
In networked standby mode	P _{nsm}	0,3	W
Standby mode with display of information or status	No		

Permanent pilot flame power requirement			
	Symbol	Value	Unit
Pilot flame power requirement (if applicable)	P _{pilot}	N/A	kW

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
mechanic thermostat room temperature control	no
electronic room temperature control	no
electronic room temperature control plus day timer	no
electronic room temperature control plus week timer	yes
Other control options (multiple sections possible)	
room temperature control, with presence detection	no
room temperature control, with open window detection	no
distance control option	yes
adaptive start control	no
working time limitation	no
with black bulb sensor	no
Self-learning functionality	yes
control accuracy	yes