

barbas.

Technical parameters for gaseous fuel local space heaters

Manufacturer	Barbas BV, Hallenstraat 17, 5531 AB Bladel, The Netherlands
Product name	Barbas
Model identifier	Gas Fire Smart 90-80 PF
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]	84

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}	7,9	kW	P _{min}	2,2	kW	η _{th, nom}	76,3	%	η _{th, min}	48,0	%	η _s	72,2	%
Low calorific natural gas	G25	120	P _{nom}	7,3	kW	P _{min}	2,3	kW	η _{th, nom}	76,2	%	η _{th, min}	56,2	%	η _s	72,0	%
Butane 30/37/50 mbar	G30	N/A	P _{nom}	N/A	kW	P _{min}	N/A	kW	η _{th, nom}	N/A	%	η _{th, min}	N/A	%	η _s	N/A	%
Propane 30/37/50 mbar	G31	N/A	P _{nom}	N/A	kW	P _{min}	N/A	kW	η _{th, nom}	N/A	%	η _{th, min}	N/A	%	η _s	N/A	%
Butane 28-30 mbar	G30	N/A	P _{nom}	N/A	kW	P _{min}	N/A	kW	η _{th, nom}	N/A	%	η _{th, min}	N/A	%	η _s	N/A	%
Propane 37 mbar	G31	N/A	P _{nom}	N/A	kW	P _{min}	N/A	kW	η _{th, nom}	N/A	%	η _{th, min}	N/A	%	η _s	N/A	%

Auxiliary power consumption			
	Symbol	Value	Unit
At nominal heat output	$e_{\max}$	0,090	kW
At minimum heat output	$e_{\min}$	0,0003	kW

Power consumption			
	Symbol	Value	Unit
In off-mode	P_o	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	<i>no</i>
two or more manual stages, no room temperature control	<i>no</i>
mechanic thermostat room temperature control	<i>no</i>
electronic room temperature control	<i>no</i>
electronic room temperature control plus day timer	<i>no</i>
electronic room temperature control plus week timer	<i>yes</i>
Other control options (multiple sections possible)	
room temperature control, with presence detection	<i>no</i>
room temperature control, with open window detection	<i>no</i>
distance control option	<i>yes</i>
adaptive start control	<i>no</i>
working time limitation	<i>no</i>
with black bulb sensor	<i>no</i>
Self-learning functionality	<i>yes</i>
control accuracy	<i>yes</i>