

ECODESIGN REQUIREMENTS FOR SOLID FUEL BOILERS ACCORDING TO DIRECTIVE 2009/125/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL

The present document cancels and supersedes document issued November 29, 2018.

EDILKAMIN – LAGUNA2 P18

Stoking mode: Automatic: it is recommended that the boiler be operated with a hot water storage tank of a volume of at least 324 litres (**)

Condensing boiler: no

Solid fuel cogeneration boiler: no

Combination boiler: no

Fuel	Preferred fuel (only one):	Other suitable fuel(s):	η_s [%]:	Seasonal space heating emissions			
				PM	OGC	CO	NOx
				mg/m ³ at 10%O ₂			
Log wood, moisture content ≤ 25 %	no	no					
Chipped wood, moisture content 15-35 %	no	no					
Chipped wood, moisture content > 35 %	no	no					
Compressed wood in the form of pellets or briquettes	yes	no	82	21	1	157	149
Sawdust, moisture content ≤ 50 %	no	no					
Other woody biomass	no	no					
Non-woody biomass	no	no					
Bituminous coal	no	no					
Brown coal (including briquettes)	no	no					
Coke	no	no					
Anthracite	no	no					
Blended fossil fuel briquettes	no	no					
Other fossil fuel	no	no					
Blended biomass (30-70 %)/fossil fuel briquettes	no	no					
Other blend of biomass and fossil fuel	no	no					

(**) Tank volume = $20 \times P_r$ with P_r indicated in kW

Characteristics when operating with the preferred fuel only:								
Item	Symbol	Value	Unit		Item	Symbol	Value	Unit
Useful heat output					Useful efficiency (GCV as received)			
At rated heat output	P_n	16.2	kW		At rated heat output	η_n	85.4	%
At [30 %/50 %] of rated heat output, if applicable	P_p	4.7	kW		At [30 %/50 %] of rated heat output, if applicable	η_p	86.3	%
For solid fuel cogeneration boilers: Electrical efficiency					Auxiliary electricity consumption			
At rated heat output	$\eta_{el,n}$	N.A.	%		At rated heat output	el_{max}	0.041	kW
					At [30 %/50 %] of rated heat output, if applicable	el_{min}	0.032	kW
					Of incorporated secondary emission abatement equipment, if applicable		N.A.	kW
					In standby mode	P_{SB}	0.004	kW
Contact details		Name and address of the manufacturer or its authorized representative.						
Tel. +39 02 937621 www.edilkamin.it mail@edilkamin.it		Manufacturer: EDILKAMIN SPA Via Mascagni 7 20020 Lainate (MI) – ITALY						

Issue date: January 11, 2019

Head of Test Laboratory
Dr.ssa Claudia Marcuzzi

ECODESIGN REQUIREMENTS FOR SOLID FUEL BOILERS ACCORDING TO DIRECTIVE 2009/125/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL

The present document cancels and supersedes document issued November 29, 2018.

EDILKAMIN – LAGUNA2 P24

Stoking mode: Automatic: it is recommended that the boiler be operated with a hot water storage tank of a volume of at least 444 litres (**)

Condensing boiler: no

Solid fuel cogeneration boiler: no

Combination boiler: no

Fuel	Preferred fuel (only one):	Other suitable fuel(s):	η_s [%]:	Seasonal space heating emissions			
				PM	OGC	CO	NOx
				mg/m ³ at 10%O ₂			
Log wood, moisture content ≤ 25 %	no	no					
Chipped wood, moisture content 15-35 %	no	no					
Chipped wood, moisture content > 35 %	no	no					
Compressed wood in the form of pellets or briquettes	yes	no	82	21	1	165	149
Sawdust, moisture content ≤ 50 %	no	no					
Other woody biomass	no	no					
Non-woody biomass	no	no					
Bituminous coal	no	no					
Brown coal (including briquettes)	no	no					
Coke	no	no					
Anthracite	no	no					
Blended fossil fuel briquettes	no	no					
Other fossil fuel	no	no					
Blended biomass (30-70 %)/fossil fuel briquettes	no	no					
Other blend of biomass and fossil fuel	no	no					

(**) Tank volume = $20 \times P_r$ with P_r indicated in kW

Characteristics when operating with the preferred fuel only:								
Item	Symbol	Value	Unit		Item	Symbol	Value	Unit
Useful heat output					Useful efficiency (GCV as received)			
At rated heat output	P_n	22.2	kW		At rated heat output	η_n	84.4	%
At [30 %/50 %] of rated heat output, if applicable	P_p	4.7	kW		At [30 %/50 %] of rated heat output, if applicable	η_p	86.3	%
For solid fuel cogeneration boilers: Electrical efficiency					Auxiliary electricity consumption			
At rated heat output	$\eta_{el,n}$	N.A.	%		At rated heat output	el_{max}	0.052	kW
					At [30 %/50 %] of rated heat output, if applicable	el_{min}	0.032	kW
					Of incorporated secondary emission abatement equipment, if applicable		N.A.	kW
					In standby mode	P_{SB}	0.004	kW
Contact details	Name and address of the manufacturer or its authorized representative.							
Tel. +39 02 937621 www.edilkamin.it mail@edilkamin.it	Manufacturer: EDILKAMIN SPA Via Mascagni 7 20020 Lainate (MI) – ITALY							

Issue date: January 11, 2019

Head of Test Laboratory
Dr.ssa Claudia Marcuzzi

ECODESIGN REQUIREMENTS FOR SOLID FUEL BOILERS ACCORDING TO DIRECTIVE 2009/125/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL

The present document cancels and supersedes document issued November 29, 2018.

EDILKAMIN – LAGUNA2 P29

Stoking mode: Automatic: it is recommended that the boiler be operated with a hot water storage tank of a volume of at least 516 litres (**)

Condensing boiler: no

Solid fuel cogeneration boiler: no

Combination boiler: no

Fuel	Preferred fuel (only one):	Other suitable fuel(s):	η_s [%]:	Seasonal space heating emissions			
				PM	OGC	CO	NOx
				mg/m ³ at 10%O ₂			
Log wood, moisture content ≤ 25 %	no	no					
Chipped wood, moisture content 15-35 %	no	no					
Chipped wood, moisture content > 35 %	no	no					
Compressed wood in the form of pellets or briquettes	yes	no	82	21	1	170	148
Sawdust, moisture content ≤ 50 %	no	no					
Other woody biomass	no	no					
Non-woody biomass	no	no					
Bituminous coal	no	no					
Brown coal (including briquettes)	no	no					
Coke	no	no					
Anthracite	no	no					
Blended fossil fuel briquettes	no	no					
Other fossil fuel	no	no					
Blended biomass (30-70 %)/fossil fuel briquettes	no	no					
Other blend of biomass and fossil fuel	no	no					

(**) Tank volume = $20 \times P_r$ with P_r indicated in kW

Characteristics when operating with the preferred fuel only:								
Item	Symbol	Value	Unit		Item	Symbol	Value	Unit
Useful heat output					Useful efficiency (GCV as received)			
At rated heat output	P_n	25.8	kW		At rated heat output	η_n	84.8	%
At [30 %/50 %] of rated heat output, if applicable	P_p	4.7	kW		At [30 %/50 %] of rated heat output, if applicable	η_p	86.3	%
For solid fuel cogeneration boilers: Electrical efficiency					Auxiliary electricity consumption			
At rated heat output	$\eta_{el,n}$	N.A.	%		At rated heat output	el_{max}	0.058	kW
					At [30 %/50 %] of rated heat output, if applicable	el_{min}	0.032	kW
					Of incorporated secondary emission abatement equipment, if applicable		N.A.	kW
					In standby mode	P_{SB}	0.004	kW
Contact details		Name and address of the manufacturer or its authorized representative.						
Tel. +39 02 937621 www.edilkamin.it mail@edilkamin.it		Manufacturer: EDILKAMIN SPA Via Mascagni 7 20020 Lainate (MI) – ITALY						

Issue date: January 11, 2019

Head of Test Laboratory
Dr.ssa Claudia Marcuzzi