

**ECODESIGN REQUIREMENTS FOR SOLID FUEL BOILERS
ACCORDING TO COMMISSION REGULATION (EU) 2015/1189 IMPLEMENTING
DIRECTIVE 2009/125/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL**

Model identifier: IMPERIAL 12, IMPERIAL MAXI 12, X POWER BANK 12, E-HYBRID 12, IMPERIAL COMPACT 12, X POWER BANK 12 H, IMPERIAL FLAT 12

Stoking mode: Automatic: it is recommended that the boiler be operated with a hot water storage tank of a volume of at least 261(**) litre

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	NO _x
				mg/m ³			
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	79	19	11	301	122
Sawdust, moisture content ≤ 50 %	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					

Characteristics when operating with the preferred fuel only:

Item	Symbol	Value	Unit		Item	Symbol	Value	Unit	
Useful heat output					Useful efficiency				
At rated heat output	P _n (***)	13,0	kW		At rated heat output	η _n	88,8	%	
At [30 %/50 %] of rated heat output, if applicable	P _p	3,7	kW		At [30 %/50 %] of rated heat output, if applicable	η _p	84,6	%	
For solid fuel cogeneration boilers: Electrical efficiency					Auxiliary electricity consumption				
At rated heat output	η _{el,n}	[N.A.]	%		At rated heat output	el _{max}	0,084	kW	
					At [30 %/50 %] of rated heat output, if applicable	el _{min}	0,048	kW	
					Of incorporated secondary emission abatement equipment, if applicable		N.A.	kW	
				In standby mode	P _{SB}	0,003	kW		

Contact details	Name and address of the manufacturer or its authorised representative
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(*) Tank volume = $45 \times Pr \times (1 - 2,7/Pr)$ or 300 litres, whichever is higher, with Pr indicated in kW

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

(***) For the preferred fuel P_n equals P_r

(****) PM = particulate matter, OGC = organic gaseous compounds, CO = carbon monoxide, NOx = nitrogen oxides

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