

# „ITEM Consult”Ltd

Sofia 1220, 8, Istoria Slavianobulgarska Blyd., Bulgaria

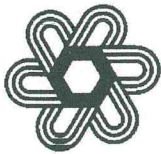
CERTIFICATION, TESTING, SUPERVISION OF DEVICES WITH INCREASED RISK

## 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

№DI-465/05.12.2023

<b>Trade mark:</b>	<b>Costruzioni Tecniche Meccaniche S.r.l.</b>
<b>Model:</b>	<b>Magikfire Gold 31</b>
<b>Stoking mode:</b>	<b>Solid fuel water boiler (pellets) with automatic charging</b>
<b>Condensing boiler:</b>	<b>No</b>
<b>Solid fuel cogeneration boiler:</b>	<b>Combination boiler:</b>

Fuel	Preferred fuel (only one)	Other suitable fuel(s)	$\eta_s$ (%)	Seasonal space heating emissions			
				PM	OGC	CO	NO <sub>x</sub>
				mg/m <sup>3</sup> at 10% O <sub>2</sub>			
Log wood, moisture content $\leq 25\%$	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	85	10	4	29	137
Sawdust, moisture content $\leq 50\%$	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					



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### 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	$P_n$	32.57	kW	At rated heat output	$\eta_n$	89.89	%
At (50%) of rated heat output if it's applicable	$P_p$	6.45	kW	At (50%) of rated output if applicable	$\eta_p$	90.09	%
For solid fuel cogeneration boilers: Electrical efficiency				<b>Auxiliary electricity consumption</b>			
At rated heat output	$\eta_{el,n}$	N.A.	%	At rated heat output	$e_{l,max}$	0.140	kW
				At (50%) of rated output if applicable	$e_{l,min}$	0.057	kW
				Of incorporated secondary emission abatement equipment, if applicable		N.A.	kW
				In standby mode	$P_{SB}$	0.002	kW

### CONCLUSION:

Solid fuel water boiler (pellets) with automatic charging „Magikfire Gold 31” MEET THE REQUIREMENTS OF Annex II „Ecodesign Requirements” of REGULATION (EU) 2015/1189

Contact details	Name and address of the manufacturer or its authorised representative
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