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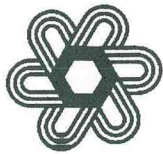
CERTIFICATION, TESTING, SUPERVISION OF DEVICES WITH INCREASED RISK

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-460/05.12.2023

| | |
|----------------------------------------|------------------------------------------------------------------|
| Trade mark: | Costruzioni Tecniche Meccaniche S.r.l. |
| Model: | Magikfire Gold 25 |
| Stoking mode: | Solid fuel water boiler (pellets) with automatic charging |
| Condensing boiler: | No |
| Solid fuel cogeneration boiler: | Combination boiler: |

| Fuel | Preferred fuel (only one) | Other suitable fuel(s) | η_s (%) | Seasonal space heating emissions | | | |
|------------------------------------------------------|---------------------------|------------------------|--------------|-----------------------------------------|-----|----|-----------------|
| | | | | PM | OGC | CO | NO _x |
| | | | | mg/m ³ at 10% O ₂ | | | |
| 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 | 8 | 21 | 129 |
| 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 | 25.70 | kW | At rated heat output | η_n | 87.49 | % |
| At (50%) of rated heat output if it's applicable | P_p | 6.46 | kW | At (50%) of rated output if applicable | η_p^* | 90.44 | % |
| For solid fuel cogeneration boilers: Electrical efficiency | | | | Auxiliary electricity consumption | | | |
| At rated heat output | $\eta_{el,n}$ | N.A. | % | At rated heat output | e_{lmax} | 0.137 | kW |
| | | | | At (50%) of rated output if applicable | e_{lmin} | 0.053 | 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 25” MEET THE REQUIREMENTS OF Annex II „Ecodesign Requirements” of REGULATION (EU) 2015/1189

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|-------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|
| Contact details | Name and address of the manufacturer or its authorised representative |
| Address: Via Cese Nove, s.n.c. – Zona Industriale 82030 San Salvatore Telesino (BN) – ITALIA | Costruzioni Tecniche Meccaniche S.r.l. |

Prepared by 
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