

**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 16, IMPERIAL MAXI 16, X POWER BANK 16, E-HYBRID 16, IMPERIAL COMPACT 16, X POWER BANK 16 H, IMPERIAL FLAT 16

**Stoking mode:** Automatic: it is recommended that the boiler be operated with a hot water storage tank of a volume of at least 310(\*\*) litre

**Condensing boiler:**

no

| Solid fuel cogeneration boiler:                      |                            | no                      |               | Combination boiler:                     |     | no  |                 |
|------------------------------------------------------|----------------------------|-------------------------|---------------|-----------------------------------------|-----|-----|-----------------|
| 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>                       |     |     |                 |
| 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                      | 80            | 19                                      | 11  | 300 | 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 <sub>n</sub> (***) | 15,5   | kW   |  | At rated heat output                                                  | η <sub>n</sub>    | 88,6  | %    |  |
| At [30 %/50 %] of rated heat output, if applicable         | P <sub>p</sub>       | 3,7    | kW   |  | At [30 %/50 %] of rated heat output, if applicable                    | η <sub>p</sub>    | 84,6  | %    |  |
| For solid fuel cogeneration boilers: Electrical efficiency |                      |        |      |  | Auxiliary electricity consumption                                     |                   |       |      |  |
| At rated heat output                                       | η <sub>el,n</sub>    | [N.A.] | %    |  | At rated heat output                                                  | el <sub>max</sub> | 0,088 | kW   |  |
|                                                            |                      |        |      |  | At [30 %/50 %] of rated heat output, if applicable                    | el <sub>min</sub> | 0,048 | kW   |  |
|                                                            |                      |        |      |  | Of incorporated secondary emission abatement equipment, if applicable |                   | N.A.  | kW   |  |
|                                                            |                      |        |      |  | In standby mode                                                       | P <sub>SB</sub>   | 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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Approved by  
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