

## TECHNICAL DOCUMENTATION FOR SOLID FUEL LOCAL SPACE HEATER

According to:

Commission Regulation (EU) 2015/1185 of 24 April 2015 implementing Directive 2009/125/EC of the European Parliament and of the Council Commission Delegated Regulation (EU) 2015/1186 supplementing Directive 2010/30/EU of the European Parliament and of the Council

| Model identifier   |   |                        |              | KAWMET Premium SPHINX S6 ECO                                |      |     |                 |   |       |      |                 |
|--|---|------------------------|--------------|---|------|-----|-----------------|---|-------|------|-----------------|
| Indirect heating functionality   |   |                        |              | no  |      |     |                 |   |       |      |                 |
| Direct heat output   |   |                        |              | 13,9 (kW)   |      |     |                 |   |       |      |                 |
| Indirect heat output   |   |                        |              | N.A. (kW)   |      |     |                 |   |       |      |                 |
| FUEL   | PREFERRED FUEL  | OTHER SUITABLE FUEL(S) | $\eta_s$ [%] | SPACE HEATING EMISSIONS AT NOMINAL HEAT OUTPUT (*)          |      |     |                 | SPACE HEATING EMISSIONS AT MINIMUM HEAT OUTPUT (*) (**) |       |      |                 |
|  |   |                        |              | PM  | OGC  | CO  | NO <sub>x</sub> | PM  | OGC   | CO   | NO <sub>x</sub> |
|  |   |                        |              | [x] mg/Nm <sup>3</sup> (13 % O <sub>2</sub> )               |      |     |                 | [x] mg/Nm <sup>3</sup> (13 % O <sub>2</sub> )           |       |      |                 |
| Wood logs with moisture content $\leq$ 25 %  | yes   | no                     | 67,0         | 39,6  | 98,4 | 500 | 77,1            |   |       |      |                 |
| Compressed wood with moisture content < 12 %   | no  | no                     |              |   |      |     |                 |   |       |      |                 |
| Other woody biomass  | no  | no                     |              |   |      |     |                 |   |       |      |                 |
| Non-woody biomass  | no  | no                     |              |   |      |     |                 |   |       |      |                 |
| Anthracite and dry steam coal  | no  | no                     |              |   |      |     |                 |   |       |      |                 |
| Hard coke  | no  | no                     |              |   |      |     |                 |   |       |      |                 |
| Low temperature coke   | no  | no                     |              |   |      |     |                 |   |       |      |                 |
| Bituminous coal  | no  | no                     |              |   |      |     |                 |   |       |      |                 |
| Lignite briquettes   | no  | no                     |              |   |      |     |                 |   |       |      |                 |
| Peat briquettes  | no  | no                     |              |   |      |     |                 |   |       |      |                 |
| Blended fossil fuel briquettes   | no  | no                     |              |   |      |     |                 |   |       |      |                 |
| Other fossil fuel  | no  | no                     |              |   |      |     |                 |   |       |      |                 |
| Blended biomass and fossil fuel briquettes   | no  | no                     |              |   |      |     |                 |   |       |      |                 |
| Other blend of biomass and solid fuel  | no  | no                     |              |   |      |     |                 |   |       |      |                 |
| <b>CHARACTERISTICS WHEN OPERATING WITH THE PREFERRED FUEL</b>  |   |                        |              |   |      |     |                 |   |       |      |                 |
| Seasonal space heating energy efficiency $\eta_s$ [%]  |   |                        |              |   |      |     | 67,0            |   |       |      |                 |
| Energy Efficiency Index (EEI) [%]  |   |                        |              |   |      |     | 102             |   |       |      |                 |
| ITEM   | SYMBOL  | VALUE                  | UNIT         | ITEM  |      |     |                 | SYMBOL  | VALUE | UNIT |                 |
| <b>HEAT OUTPUT</b>   |   |                        |              | <b>USEFUL EFFICIENCY (NCV AS RECEIVED)</b>                  |      |     |                 |   |       |      |                 |
| Nominal heat output  | P <sub>nom</sub>  | 13,9                   | kW           | Useful efficiency at nominal heat output                    |      |     |                 | $\eta_{th, nom}$  | 77,0  | %    |                 |
| Minimum heat output (indicative)   | P <sub>min</sub>  | N.A.                   | kW           | Useful efficiency at minimum heat output (indicative)       |      |     |                 | $\eta_{th, min}$  | N.A.  | %    |                 |
| <b>AUXILIARY ELECTRICITY CONSUMPTION</b>   |   |                        |              | <b>TYPE OF HEAT OUTPUT / ROOM TEMPERATURE CONTROL</b>       |      |     |                 |   |       |      |                 |
| At nominal heat output   | e <sub>l,max</sub>  | x,xxx                  | kW           | single stage heat output, no room temperature control       |      |     |                 | yes   |       |      |                 |
| At minimum heat output   | e <sub>l,min</sub>  | x,xxx                  | kW           | two or more manual stages, no room temperature control      |      |     |                 | no  |       |      |                 |
| In standby mode  | e <sub>l, sb</sub>  | x,xxx                  | kW           | with mechanic thermostat room temperature control           |      |     |                 | no  |       |      |                 |
|  |   |                        |              | with electronic room temperature control                    |      |     |                 | no  |       |      |                 |
|  |   |                        |              | with electronic room temperature control plus day timer     |      |     |                 | no  |       |      |                 |
|  |   |                        |              | with electronic room temperature control plus week timer    |      |     |                 | no  |       |      |                 |
|  |   |                        |              | <b>OTHER CONTROL OPTIONS (MULTIPLE SELECTIONS POSSIBLE)</b> |      |     |                 |   |       |      |                 |
|  |   |                        |              | room temperature control, with presence detection           |      |     |                 | no  |       |      |                 |
|  |   |                        |              | room temperature control, with open window detection        |      |     |                 | no  |       |      |                 |
|  |   |                        |              | with distance control option                                |      |     |                 | no  |       |      |                 |
| <b>PERMAMENT PILOT FLAME POWER REQUIREMENT</b>   |   |                        |              |   |      |     |                 |   |       |      |                 |
| Pilot flame power requirement (if applicable)  | P <sub>pilot</sub>  | N.A.                   | kW           |   |      |     |                 |   |       |      |                 |
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| (*) PM = particulate matter, OGC = organic gaseous compounds, CO = carbon monoxide, NO <sub>x</sub> = nitrogen oxides  |   |                        |              |   |      |     |                 |   |       |      |                 |
| (**) Only required if correction factors F(2) or F(3) are used.  |   |                        |              |   |      |     |                 |   |       |      |                 |
| The technical documentation was prepared on the basis of the results of tests carried out by the CTIF (Centre Technique des Industries de la Fonderie), provided in test reports No. TD4356A / TD P 4356A. Notified Body No. 1677. |   |                        |              |   |      |     |                 |   |       |      |                 |