

## Technical documentation for solid fuel local space heaters according to Regulation (EU) 2015/1185 and Regulation (EU) 2015/1186

### Model information

|   |   |
|---|---|
| Wood heater model:                            | Morsø 7393                                |
| Equivalent wood heater models:                | 7300 series                               |
| Test report:                                  | 102044.48                                 |
| Test Laboratory:                              | RISE Fire Research (former SINTEF NBL as) |
| Harmonized standard applied:                  | EN 13 240:2001/A2:2004/AC:2007            |
| Other technical standards and specifications: | FprEN 16510-1:2013, DS/CEN/TC 15883:2009  |
| Direct heat output (kW)                       | 4.3                                       |
| Indirect heating functionality                | No  |
| Indirect heat output (kW)                     | N/A                                       |

### Characteristics when operating with the preferred fuel only

|  |     |
|--|-----|
| Seasonal space heating energy efficiency $\eta_s$ (%): | 72  |
| Energy Efficiency Index (EEI):                         | 110 |

| Item                             | symbol    | value | unit |
|----------------------------------|-----------|-------|------|
| <b>Heat Output</b>               |           |       |      |
| Normal heat output               | $P_{nom}$ | 4.3   | kW   |
| Minimum heat output (indicative) | $P_{min}$ | N/A   | kW   |

| item  | Symbol          | value | unit |
|---|-----------------|-------|------|
| <b>Useful efficiency (NCV as received)</b>            |                 |       |      |
| Useful efficiency at nominal heat output              | $\eta_{th,nom}$ | 82.3  | %    |
| Useful efficiency at Minimum heat output (indicative) | $\eta_{th,min}$ | N/A   | %    |

| Item   | Symbol      | value | unit |
|--|-------------|-------|------|
| <b>Auxiliary electricity consumption</b>       |             |       |      |
| At nominal heat output                         | $e_{l,max}$ | N/A   | kW   |
| At minimum heat output                         | $e_{l,min}$ | N/A   | kW   |
| In standby mode                                | $e_{l,SB}$  | N/A   | kW   |
| <b>Permanent pilot flame power requirement</b> |             |       |      |
| Pilot flame power requirement (if applicable)  | $P_{pilot}$ | N/A   | kW   |

|  |     |
|--|-----|
| <b>Type of heat output/room temperature control (select one)</b> |     |
| Single stage heat output, no room temperature control.           | No  |
| Two or more manual stages, no room temperature control           | Yes |
| 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 selection possible)</b>       |     |
| Room temperature control, with presence detection                | No  |
| Room temperature control, with open window detection             | No  |
| With distance control option                                     | No  |

| Fuel                                       | Preferred fuel (only one): | 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 ≤ 25 %     | Yes                        | Yes                     | 72            | 18   | 19  | 625 | 15              | N/A  | N/A | N/A | N/A             |
| Compressed wood with moisture < 12 %       | No                         | No                      | N/A           | N/A  | N/A | N/A | N/A             | N/A  | N/A | N/A | N/A             |
| Other woody biomass                        | No                         | No                      | N/A           | N/A  | N/A | N/A | N/A             | N/A  | N/A | N/A | N/A             |
| Non-woody biomass                          | No                         | No                      | N/A           | N/A  | N/A | N/A | N/A             | N/A  | N/A | N/A | N/A             |
| Anthracite and dry steam coal              | No                         | No                      | N/A           | N/A  | N/A | N/A | N/A             | N/A  | N/A | N/A | N/A             |
| Hard coke                                  | No                         | No                      | N/A           | N/A  | N/A | N/A | N/A             | N/A  | N/A | N/A | N/A             |
| Low temperature coke                       | No                         | No                      | N/A           | N/A  | N/A | N/A | N/A             | N/A  | N/A | N/A | N/A             |
| Bituminous coal                            | No                         | No                      | N/A           | N/A  | N/A | N/A | N/A             | N/A  | N/A | N/A | N/A             |
| Lignite briquettes                         | No                         | No                      | N/A           | N/A  | N/A | N/A | N/A             | N/A  | N/A | N/A | N/A             |
| Peat briquettes                            | No                         | No                      | N/A           | N/A  | N/A | N/A | N/A             | N/A  | N/A | N/A | N/A             |
| Blended biomass and fossil fuel briquettes | No                         | No                      | N/A           | N/A  | N/A | N/A | N/A             | N/A  | N/A | N/A | N/A             |
| Other fossil fuel                          | No                         | No                      | N/A           | N/A  | N/A | N/A | N/A             | N/A  | N/A | N/A | N/A             |
| Blended biomass and fossil fuel briquettes | No                         | No                      | N/A           | N/A  | N/A | N/A | N/A             | N/A  | N/A | N/A | N/A             |
| Other blend of biomass and solid fuel      | No                         | No                      | N/A           | N/A  | N/A | N/A | N/A             | N/A  | N/A | N/A | N/A             |

(\*) PM = Particulate matter, OGC = organic gaseous compounds, CO = carbon monoxide, NO<sub>x</sub> = nitrogen oxide

(\*\*) Only required if correction factors F(2) or F(3) are applied.

#### Contact details of the manufacturer or its authorized representative

|               |   |
|---------------|---|
| Manufacturer: | Morsø Jernstøberi A/S                     |
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