



By appointment to The Royal Danish Court

**morsø**

## 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 1412
Equivalent wood heater models:	1400 series
Test report:	RRF 40 13 3470
Test Laboratory:	RRF
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)	5.0
Indirect heating functionality	No
Indirect heat output (kW)	N/A

### Characteristics when operating with the preferred fuel only

Seasonal space heating energy efficiency $\eta_s$ (%):	73
Energy Efficiency Index (EEI):	111

Item	symbol	value	unit
<b>Heat Output</b>			
Normal heat output	$P_{nom}$	5.0	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	$\eta_{th,nom}$	83	%
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	73	17	71	1000	85	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

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