

Technical Documentation

According to Regulation (EU) 2015/1185

Aidan Eco Boiler HFB-443

Technical parameters for solid fuel local space heaters

| | |
|--------------------------------|--|
| Model Identification | Olymberyl Aidan Eco Boiler HFB-443 Solid Fuel Local Heater |
| Indirect Heating Functionality | YES |
| Direct Heating Output | 5.0 kW |
| Indirect Heating Output | 7.5kW to water |

Test standards applied

| | |
|---------------------------|--|
| EU harmonised standards | EN 13240:2002+ amd A2:2004 + amd A2:2005 |
| Additional test standards | CEN/TS 15883, FprEN 16510-1:2013 DIR 2009/125/EC |

| Fuel | Preferred fuel (only one) | Other suitable fuel(s) (only one) | η_s (x%) | Space heating emissions at nominal heat output (*) | | | | Space heating emissions at minimum heat output (**) | | | |
|---|---------------------------|-----------------------------------|---------------|--|-----|------|-----|---|-----|-----|-----|
| | | | | PM | OGC | CO | NOx | PM | OGC | CO | NOx |
| | | | | [x] mg/NM ³ (13% O ₂) | | | | [x] mg/NM ³ (13% O ₂) | | | |
| Wood logs with moisture content \leq 25 % | YES | NO | 76.9 | 38 | 116 | 0.14 | 195 | 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, OGCs = organic gaseous compounds, CO = carbon monoxide, NOx = nitrogen oxides (***) Only required if correction factors F(2) or F(3) are applied.

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Characteristics when operating with preferred fuel only

| Heat Output | | | |
|---|-----------------|-------|------|
| Item | Symbol | Value | Unit |
| Nominal heat output | P_{nom} | 16.2 | kW |
| Maximum heat output (indicative) | P_{min} | N/A | kW |
| Auxiliary electricity consumption | | | |
| Item | Symbol | Value | Unit |
| At nominal heat output | $e_{l_{max}}$ | N/A | kW |
| At minimal heat output | $e_{l_{min}}$ | N/A | kW |
| In stand-by mode | $e_{l_{SB}}$ | N/A | kW |
| Permanent pilot flame requirement | | | |
| Item | Symbol | Value | Unit |
| Pilot flame power requirement (if applicable) | $e_{l_{pilot}}$ | N/A | kW |

Seasonal Energy efficiency & EEI

| | |
|---|-----|
| Seasonal space heating energy efficiency η_s | 67 |
| Energy Efficiency Index (EEI) | 102 |

| Useful efficiency (NCV as received) | | | |
|--|------------------|-------|------|
| Item | Symbol | Value | Unit |
| Nominal heat output | $\eta_{th\ min}$ | 76.9 | % |
| Maximum heat output (indicative) | $\eta_{th\ min}$ | N/A | % |
| Type of heat output/room temperature control (Select one) | | | |
| single stage heat output, no room temperature control | | | YES |
| two or more manual stages, no room temperature control | | | NO |
| 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 |
| Other control options (multiple selections possible) | | | |
| room temperature control, with presence detection | | | NO |
| room temperature control, with open window detection | | | NO |
| with distance control option | | | NO |

Contact details

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|--|-----------------|
| Name and address of the supplier | |
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