

## BLAZE SPIRIT Technical Data Sheet

| Stove Type                                                                           |                                                                                                                        | BS06                                  | BS10                                 |
|--------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|---------------------------------------|--------------------------------------|
| Max. heat loss* of the heated building<br>(where the stove is the sole heat source)  | kW                                                                                                                     | 8<br>(2–8 with AKU <sup>1</sup> )     | 13<br>(2–8 with AKU <sup>1</sup> )   |
|                                                                                      | depending on the heat loss of the heated space<br>(see Operating and Installation Instructions, Table 1)               |                                       |                                      |
| Minimum heat loss* of the heated building                                            | kW                                                                                                                     | 4–6<br>(2–4 with AKU <sup>1</sup> )   | 6–10<br>(3–5 with AKU <sup>1</sup> ) |
|                                                                                      | depending on the thermal storage parameters of the heated space (see Operating and Installation Instructions, Table 1) |                                       |                                      |
| Rated output                                                                         | kW                                                                                                                     | 6                                     | 10                                   |
| Maximum permissible output <sup>2</sup>                                              | kW                                                                                                                     | 9                                     | 14                                   |
| Minimum power <b>during continuous</b> operation <sup>3</sup>                        | kW                                                                                                                     | 4                                     | 6                                    |
| Minimum average power <b>during intermittent steady-state</b> operation <sup>4</sup> | kW                                                                                                                     | 2<br>(1 kW with AKU <sup>1</sup> )    | 3<br>(1.5 kW with AKU <sup>1</sup> ) |
| Weight of the base model                                                             | kg                                                                                                                     | 217                                   | 232                                  |
| External dimensions (height x width x depth)                                         | mm                                                                                                                     | 1100 x 460 x 480                      | 1100 x 540 x 480                     |
| Flue diameter                                                                        | mm                                                                                                                     | 150                                   |                                      |
| External air inlet diameter                                                          | mm                                                                                                                     | 100                                   |                                      |
| Chimney draft                                                                        | Pa                                                                                                                     | 10                                    |                                      |
| Energy efficiency class                                                              |                                                                                                                        | A                                     |                                      |
| Burning time per fuel load                                                           | hours                                                                                                                  | 2                                     |                                      |
| Fuel consumption at rated output                                                     | kg/h                                                                                                                   | 2.0                                   | 3.4                                  |
| Stove class according to EN 16510-1                                                  |                                                                                                                        | BE                                    |                                      |
| Ecodesign                                                                            |                                                                                                                        | Yes                                   |                                      |
| CO (13% O <sub>2</sub> )                                                             | mg/Nm <sup>3</sup>                                                                                                     | 432                                   | 570                                  |
| OGC (13% O <sub>2</sub> )                                                            | mg/Nm <sup>3</sup>                                                                                                     | 9                                     | 25                                   |
| Dust (13% O <sub>2</sub> )                                                           | mg/Nm <sup>3</sup>                                                                                                     | 22                                    | 26                                   |
| NOx (13% O <sub>2</sub> )                                                            | mg/Nm <sup>3</sup>                                                                                                     | 95                                    | 78                                   |
| CO <sub>2</sub>                                                                      | %                                                                                                                      | 10.4                                  | 10.9                                 |
| Flue gas temperature at rated output                                                 | °C                                                                                                                     | 304                                   | 316                                  |
| Flue gas mass flow rate                                                              | g/s                                                                                                                    | 6.5                                   | 10.3                                 |
| Efficiency                                                                           | %                                                                                                                      | 77.9                                  | 77.7                                 |
| Fuel type                                                                            |                                                                                                                        | Dry wood (up to 20% moisture content) |                                      |
| Recommended (maximum) log length                                                     | mm                                                                                                                     | 250 (280)                             | 330 (365)                            |
| Recommended (maximum) log diameter                                                   | mm                                                                                                                     | 150 (200)                             |                                      |
| Combustion chamber volume                                                            | liters                                                                                                                 | 70                                    | 90                                   |
| Ash pan capacity                                                                     | liters                                                                                                                 | 10                                    | 13                                   |

The appliance was manufactured and tested in accordance with applicable documentation and complies with EN 16510-1 Domestic solid fuel appliances – Part 1: General requirements and test methods.

\*The building's heat loss and methods for determining it are described in more detail in Chapter 9.4. - see Operating and Installation Instructions.

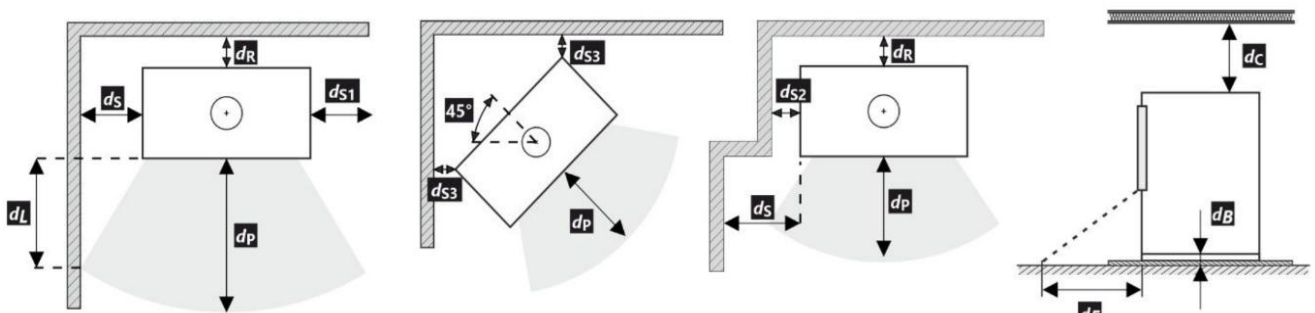
- <sup>1</sup> AKU – storage extension ... reduces temperature fluctuations inside the room by about half.
- <sup>2</sup> Operating at a higher output than permitted may shorten the service life of the stove's heat-stressed components.
- <sup>3</sup> Continuous burning ... the prescribed amount of fuel is added at 2-hour intervals ... 100% output ... used only in exceptional cases, e.g., when heating a very cold building.
- <sup>4</sup> Intermittent burning – After the fuel has burned out, the stove automatically switches to a smoldering standby mode (the air supply closes) and the stove continues to heat slowly for up to 12 hours. Then, thanks to the glowing layer, operation can be comfortably resumed without relighting. A lower average output is achieved with a longer refueling interval:

**4-hour interval ... 50% average output** ... used occasionally, e.g., when heating a cold building

**6-hour interval ... 30% average output** (4 times a day ... usually minimal fluctuations in indoor temperature)

**8-hour interval ... 25% average output** (3 times a day ... usually acceptable indoor temperature fluctuations)

**12-hour interval ... 15% average output** (twice a day ... usually noticeable fluctuations in indoor temperature)

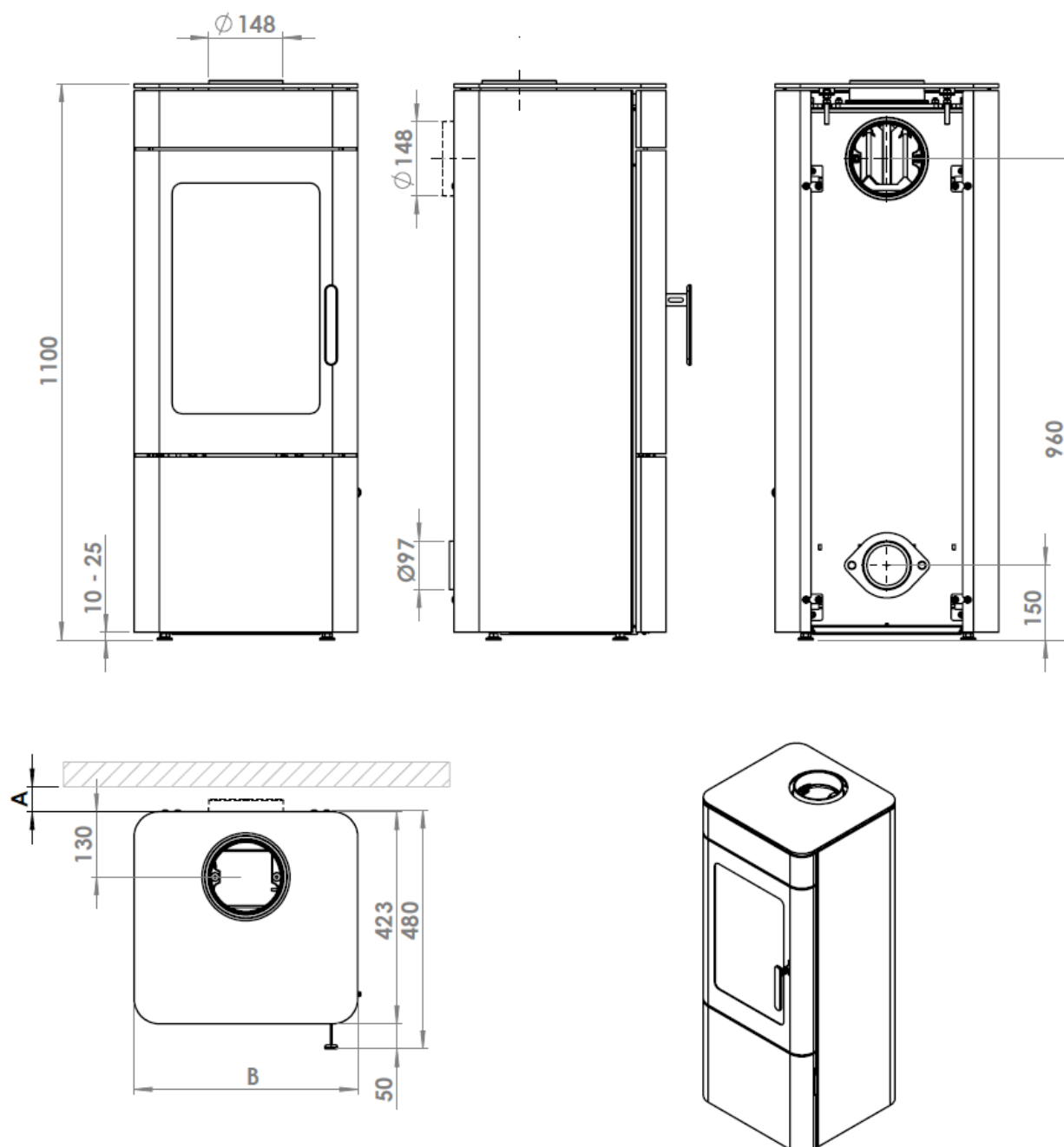


### Minimum distance from combustible and non-combustible materials (mm)

|                      | Minimum distance<br>from combustible materials * | Minimum distance<br>from non-combustible materials |
|----------------------|--------------------------------------------------|----------------------------------------------------|
| Front wall ( $d_F$ ) | 800                                              | 800                                                |
| Top wall ( $d_C$ )   | 800                                              | 500                                                |
| Rear wall ( $d_R$ )  | 200                                              | 50                                                 |
| Side walls ( $d_S$ ) | 200                                              | 100                                                |

\* Applies to building materials classified as fire reaction classes B, C, D (e.g., expanded polystyrene, structural timber, wood-based panels)

## Dimensions of the BLAZE SPIRIT stove



| Dimension (mm)                                     | BS06 | BS10 |
|----------------------------------------------------|------|------|
| A ... minimum distance from a non-combustible wall | 50   |      |
| A ... minimum distance from a combustible wall     | 200  |      |
| B ... width of the stove                           | 460  | 540  |