

## 14 Appendix

### 14.1 Product fiche - Combination boilers

Product fiche for combination boilers

| <b>Baxi 600 Combi 2</b>                                                  |           | <b>624</b> | <b>630</b> | <b>636</b> |
|--------------------------------------------------------------------------|-----------|------------|------------|------------|
| Space heating - Temperature application                                  |           | Medium     | Medium     | Medium     |
| Water heating - Declared load profile                                    |           | XL         | XL         | XL         |
| Seasonal space heating energy efficiency class                           |           | <b>A</b>   | <b>A</b>   | <b>A</b>   |
| Water heating energy efficiency class                                    |           | <b>A</b>   | <b>A</b>   | <b>A</b>   |
| Rated heat output ( <i>P<sub>rated</sub></i> or <i>P<sub>sup</sub></i> ) | kW        | 20         | 25         | 25         |
| Space heating - Annual energy consumption                                | kWh<br>GJ | 62         | 77         | 77         |
| Water heating - Annual energy consumption                                | kWh<br>GJ | 16         | 16         | 16         |
| Seasonal space heating energy efficiency                                 | %         | 99.0       | 98.8       | 98.8       |
| Water heating energy efficiency                                          | %         |            |            |            |
| Sound power level L <sub>WA</sub> indoors                                | dB        | 50         | 51         | 51         |



**See**

For specific precautions about assembling, installing and maintaining consult the relevant section as detailed on the Contents page.

## 14.2 Package fiche - boilers

Package fiche for boilers indicating the space heating energy efficiency of the package

### Seasonal space heating energy efficiency of boiler

①  
 %

### Temperature control

from fiche of temperature control

Class I = 1%, Class II = 2%, Class III = 1.5%,  
 Class IV = 2%, Class V = 3%, Class VI = 4%,  
 Class VII = 3.5%, Class VIII = 5%

②  
 +  %

### Supplementary boiler

from fiche of boiler

Seasonal space heating energy efficiency (in %)

③  
 $(\text{ } - 'I') \times 0.1 = \pm \text{ } \%$

### Solar contribution

from fiche of solar device

Collector size (in m<sup>2</sup>)

Tank volume (in m<sup>3</sup>)

Collector efficiency (in %)

Tank rating <sup>(1)</sup>  
 A\* = 0.95, A = 0.91,  
 B = 0.86, C = 0.83,  
 D - G = 0.81

④  
 $(\text{'III'} \times \text{ } + \text{'IV'} \times \text{ }) \times 0.9 \times (\text{ } / 100) \times \text{ } = + \text{ } \%$

(1) If tank rating is above A, use 0.95

### Supplementary heat pump

from fiche of heat pump

Seasonal space heating energy efficiency (in %)

⑤  
 $(\text{ } - 'I') \times 'II' = + \text{ } \%$

### Solar contribution AND Supplementary heat pump

select smaller value

④      ⑤      ⑥  
 $0.5 \times \text{ } \text{ OR } 0.5 \times \text{ } = - \text{ } \%$

### Seasonal space heating energy efficiency of package

⑦  
 %

### Seasonal space heating energy efficiency class of package

|                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |
|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <b>G</b>                 | <b>F</b>                 | <b>E</b>                 | <b>D</b>                 | <b>C</b>                 | <b>B</b>                 | <b>A</b>                 | <b>A<sup>+</sup></b>     | <b>A<sup>++</sup></b>    | <b>A<sup>+++</sup></b>   |
| <30%                     | ≥30%                     | ≥34%                     | ≥36%                     | ≥75%                     | ≥82%                     | ≥90%                     | ≥98%                     | ≥125%                    | ≥150%                    |

### Boiler and supplementary heat pump installed with low temperature heat emitters at 35°C ?

from fiche of heat pump

⑦  
 $\text{ } + (50 \times 'II') = \text{ } \%$

The energy efficiency of the package of products provided for in this fiche may not correspond to its actual energy efficiency once installed in a building, as this efficiency is influenced by further factors such as heat loss in the distribution system and the dimensioning of the products in relation to building size and characteristics.

- I The value of the seasonal space heating energy efficiency of the preferential space heater, expressed in %.
- II The factor for weighting the heat output of preferential and supplementary heaters of a package as set out in the following table.

- III The value of the mathematical expression:  $294 / (11 \cdot \text{Prated})$ , whereby 'Prated' is related to the preferential space heater.
- IV The value of the mathematical expression  $115 / (11 \cdot \text{Prated})$ , whereby 'Prated' is related to the preferential space heater.

## Weighting of boilers

| $P_{sup} / (P_{rated} + P_{sup})^{(1)(2)}$                                                                                                                                                | II, package without hot water storage tank | II, package with hot water storage tank |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|-----------------------------------------|
| 0                                                                                                                                                                                         | 0                                          | 0                                       |
| 0.1                                                                                                                                                                                       | 0.3                                        | 0.37                                    |
| 0.2                                                                                                                                                                                       | 0.55                                       | 0.70                                    |
| 0.3                                                                                                                                                                                       | 0.75                                       | 0.85                                    |
| 0.4                                                                                                                                                                                       | 0.85                                       | 0.94                                    |
| 0.5                                                                                                                                                                                       | 0.95                                       | 0.98                                    |
| 0.6                                                                                                                                                                                       | 0.98                                       | 1.00                                    |
| $\geq 0.7$                                                                                                                                                                                | 1.00                                       | 1.00                                    |
| (1) The intermediate values are calculated by linear interpolation between the two adjacent values.<br>(2) $P_{rated}$ is related to the preferential space heater or combination heater. |                                            |                                         |

## Package efficiency

| <b>Baxi 600 Combi 2</b> |   | <b>624</b> | <b>630</b> | <b>636</b> |
|-------------------------|---|------------|------------|------------|
| Temperature control X   | % |            |            |            |
| Temperature control Y   | % |            |            |            |

### 14.3 Package fiche - Combination heaters (boilers or heat pumps)

Package fiche for combination heaters (boilers or heat pumps) indicating the water heating energy efficiency of the package

**Water heating energy efficiency of combination heater**

<sup>①</sup>  
 %

Declared load profile:

**Solar contribution**

from fiche of solar device

Auxiliary electricity

<sup>②</sup>  
 $(1.1 \times 'I' - 10\%) \times 'II' - 'III' - 'I' = +$   %

**Water heating energy efficiency of package under average climate**

<sup>③</sup>  
 %

**Water heating energy efficiency class of package under average climate**

|                          |            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|--------------------------|------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
|                          |            | <b>G</b>                 | <b>F</b>                 | <b>E</b>                 | <b>D</b>                 | <b>C</b>                 | <b>B</b>                 | <b>A</b>                 | <b>A<sup>+</sup></b>     | <b>A<sup>++</sup></b>    |
| <input type="checkbox"/> | <b>M</b>   | <27%                     | ≥27%                     | ≥30%                     | ≥33%                     | ≥36%                     | ≥39%                     | ≥65%                     | ≥100%                    | ≥130%                    |
| <input type="checkbox"/> | <b>L</b>   | <27%                     | ≥27%                     | ≥30%                     | ≥34%                     | ≥37%                     | ≥50%                     | ≥75%                     | ≥115%                    | ≥150%                    |
| <input type="checkbox"/> | <b>XL</b>  | <27%                     | ≥27%                     | ≥30%                     | ≥35%                     | ≥38%                     | ≥55%                     | ≥80%                     | ≥123%                    | ≥160%                    |
| <input type="checkbox"/> | <b>XXL</b> | <28%                     | ≥28%                     | ≥32%                     | ≥36%                     | ≥40%                     | ≥60%                     | ≥85%                     | ≥131%                    | ≥170%                    |

**Water heating energy efficiency under colder and warmer climate conditions**

**Colder:** <sup>③</sup>  
 - 0.2 x <sup>②</sup>  
 =  %

**Warmer:** <sup>③</sup>  
 + 0.4 x <sup>②</sup>  
 =  %

The energy efficiency of the package of products provided for in this fiche may not correspond to its actual energy efficiency once installed in a building, as this efficiency is influenced by further factors such as heat loss in the distribution system and the dimensioning of the products in relation to building size and characteristics.

- I The value of the water heating energy efficiency of the combination heater, expressed in %.
- II The value of the mathematical expression  $(220 \cdot Q_{ref})/Q_{nonsol}$ , where  $Q_{ref}$  is taken from Regulation EU 811/2013, Annex VII Table 15 and  $Q_{nonsol}$  from the product fiche of the solar device for the declared load profile M, L, XL or XXL of the combination heater.
- III The value of the mathematical expression  $(Q_{aux} \cdot 2,5)/(220 \cdot Q_{ref})$ , expressed in %, where  $Q_{aux}$  is taken from the product fiche of the solar device and  $Q_{ref}$  from Regulation EU 811/2013, Annex VII Table 15 for the declared load profile M, L, XL or XXL.

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