

Product fiche for combination boilers

<b>Baxi Platinum + 40 Combi</b>		
Space heating - Temperature application		Medium
Water heating - Declared load profile		XL
Seasonal space heating energy efficiency class		<b>A</b>
Water heating energy efficiency class		<b>A</b>
Rated heat output ( <i>Prated or Psup</i> )	kW	32
Space heating - Annual energy consumption	kWh GJ	27826 100
Water heating - Annual energy consumption	kWh (1) GJ (2)	23 18
Seasonal space heating energy efficiency	%	92
Water heating energy efficiency	%	84
Sound power level $L_{WA}$ indoors	dB	50

(1) Electricity

(2) Fuel

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  
 (  - 'I' ) x 0.1 = ±  %

**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

$$('III' \times \text{Collector size} + 'IV' \times \text{Tank volume}) \times 0.9 \times (\text{Collector efficiency} / 100) \times \text{Tank rating} = + \text{Result} \%$$

(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  
 (  - 'I' ) x 'II' = +  %

**Solar contribution AND Supplementary heat pump**

select smaller value

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

**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*</b>	<b>A**</b>	<b>A***</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  
 + (50 x 'II') =  %

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.

Package Fiche - Boilers (cont)

- 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

$\text{P}_{\text{sup}} / (\text{Prated} + \text{P}_{\text{sup}})^{(1)(2)}$	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.  
(2) Prated is related to the preferential space heater or combination heater.

Package efficiency

<b>Baxi Platinum+ 40 Combi</b>		
Temperature control X	%	
Temperature control Y	%	

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**

①  
 %

Declared load profile:

**Solar contribution**

from fiche of solar device

Auxiliary electricity

②  
 $(1.1 \times \text{'I'} - 10\%) \times \text{'II'} - \text{'III'} - \text{'I'} = +$   %

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

③  
 %

**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>	<b>A<sup>+++</sup></b>
<input type="checkbox"/> <b>M</b>	<27%	≥27%	≥30%	≥33%	≥36%	≥39%	≥65%	≥100%	≥130%	≥163%	
<input type="checkbox"/> <b>L</b>	<27%	≥27%	≥30%	≥34%	≥37%	≥50%	≥75%	≥115%	≥150%	≥188%	
<input type="checkbox"/> <b>XL</b>	<27%	≥27%	≥30%	≥35%	≥38%	≥55%	≥80%	≥123%	≥160%	≥200%	
<input type="checkbox"/> <b>XXL</b>	<28%	≥28%	≥32%	≥36%	≥40%	≥60%	≥85%	≥131%	≥170%	≥213%	

**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> =  %

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- 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.