

Seasonal space heating energy efficiency of heat pump

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 %)

(- 'I') × 'II' = - ³ %

Solar contribution

From fiche of solar device

Collector size (in m²)

Tank volume (in m³)

Collector efficiency (in %)

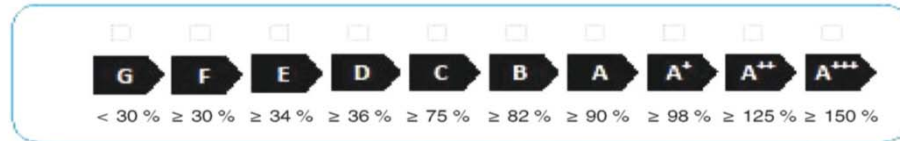
Tank rating
A* = 0,95, A = 0,91,
B = 0,86, C = 0,83,
D-G = 0,81

('III' × + 'IV' ×) × 0,45 × (/ 100) × = + ⁴ %

Seasonal space heating energy efficiency of package under average climate

⁵ %

Seasonal space heating energy efficiency class of package under average climate



Seasonal space heating energy efficiency under colder and warmer climate conditions

Colder: ⁵ - 'V' = %

Warmer: ⁵ + 'VI' = %

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 the 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	II	III	IV	V	VI
55°C	125%	0.02	3.88	1.52	33%	42%
35°C	179%	0.02	4.45	1.74	51%	87%

Seasonal space heating energy efficiency of heat pump

%

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 %

+ %

Supplementary boiler

From fiche of boiler

Seasonal space heating energy efficiency (in %)

$(\text{III} - \text{I}) \times \text{IV} = - \text{III} \%$

Solar contribution

From fiche of solar device

Collector size (in m²)

Tank volume (in m³)

Collector efficiency (in %)

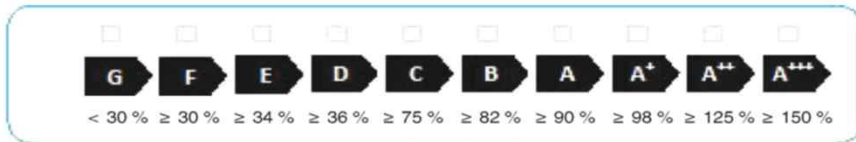
Tank rating
A* = 0,95, A = 0,91,
B = 0,86, C = 0,83,
D-G = 0,81

$(\text{III} \times \text{I} + \text{IV} \times \text{II}) \times 0,45 \times (\text{III} / 100) \times \text{IV} = + \text{III} \%$

Seasonal space heating energy efficiency of package under average climate

%

Seasonal space heating energy efficiency class of package under average climate



Seasonal space heating energy efficiency under colder and warmer climate conditions

Colder: $\text{III} - \text{V} = \text{VI} \%$ Warmer: $\text{III} + \text{VI} = \text{VI} \%$

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	I	II	III	IV	V	VI
55°C	125%	0.02	3.88	1.52	33%	42%
35°C	179%	0.02	4.45	1.74	51%	87%

Water heating energy efficiency of combination heater

%

Declared load profile:

Solar contribution

From fiche of solar device

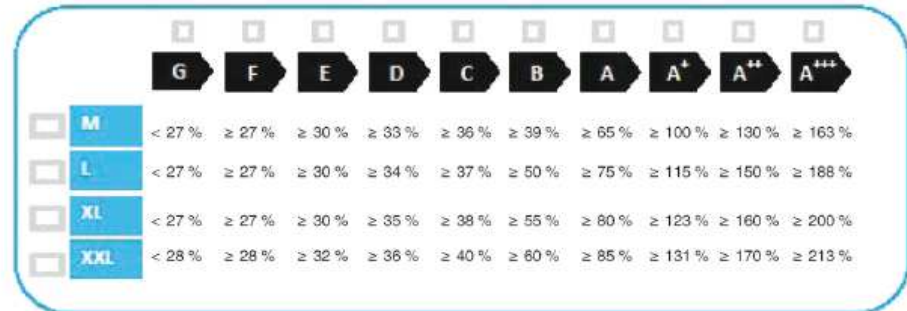
Auxiliary electricity

$(1,1 \times \text{I} - 10 \%) \times \text{II} - \text{III} - \text{I} = + \text{III} \%$

Water heating energy efficiency of package under average climate

%

Water heating energy efficiency class of package under average climate



Water heating energy efficiency under colder and warmer climate conditions

Colder: $\text{III} - 0,2 \times \text{II} = \text{VI} \%$

Warmer: $\text{III} + 0,4 \times \text{II} = \text{VI} \%$

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