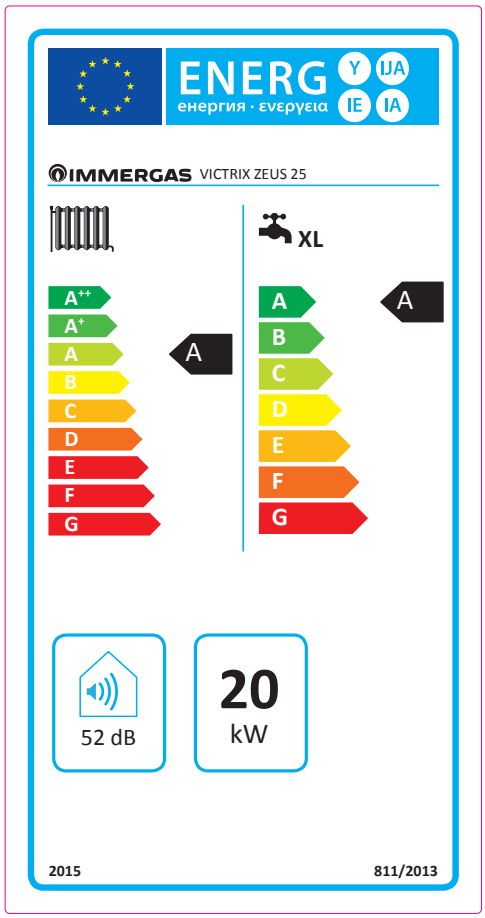
4.6 PRODUCT FICHE (IN COMPLIANCE WITH REGULATION 811/2013).

Victrix Zeus 25



Parameter	value
Annual energy consumption for the central heating mode (Q_{HE})	37 GJ
Annual electricity consumption for the domestic hot water function (AEC)	44 kWh
Annual fuel consumption for the domestic hot water function (AFC)	18 GJ
Seasonal space heating energy efficiency (η_s)	91 %
Water heating energy efficiency (η_{wh})	80 %

For proper installation of the device, refer to chapter 1 of this booklet (for the installer) and current installation regulations. For proper maintenance refer to chapter 3 of this booklet (for the maintenance technician) and adhere to the frequencies and methods set out herein.

4.5 TECHNICAL PARAMETERS FOR COMBINATION BOILERS (IN COMPLIANCE WITH REGULATION 813/2013).

The efficiencies and NO_x values in the following tables refer to the gross calorific value.

Model/s:			Victrix Zeus 25				
Condensing Boilers:			YES				
Low temperature boiler:			NO				
Boiler type B1:			NO				
Co-generation appliance for central heating:			NO	Fitted with supplementary heating system:			NO
Mixed heating appliance:			YES				
Element	Symbol	Value	Unit	Element	Symbol	Value	Unit
Nominal heat output	P_n	20	kW	Seasonal energy efficiency of central heating	η_s	91	%
For central heating only and combination boilers: useful heat output				For central heating only and combination boilers: useful efficiency			
At nominal heat output in high temperature mode (*)	P_4	20.0	kW	At nominal heat output in high temperature mode (*)	η_4	87.0	%
At 30% of nominal heat output in a low temperature mode (**)	P_1	6.6	kW	At 30% of nominal heat output in a low temperature mode (**)	η_1	95.7	%
Auxiliary electricity consumption				Other items			
At full load	el_{max}	0.018	kW	Heat loss in standby	P_{stby}	0.104	kW
At partial load	el_{min}	0.013	kW	Ignition burner energy consumption	P_{ign}	0.000	kW
In standby mode	P_{SB}	0.005	kW	Emissions of nitrogen oxides	NO_X	35	mg / kWh
For mixed central heating appliances							
Stated load profile	XL			Domestic hot water production efficiency	η_{WH}	80	%
Daily electrical power consumption	Q_{elec}	0.200	kWh	Daily gas consumption	Q_{fuel}	22.023	kWh
Contact information	IMMERGAS S.p.A. VIA CISA LIGURE, 95 - 42041 BRESCELLO (RE) ITALY						

(*) High temperature mode means 60°C on return and 80°C on flow.
(**) Low temperature mode for condensation Boilers means 30°C , for low temperature boilers 37°C and for other appliances 50°C of return temperature.

4.7 PARAMETERS FOR FILLING IN THE PACKAGE FICHE.

In case you should wish to install an assembly, starting from the Victrix Zeus 25 boiler, use the assembly charts in (Fig. 55 and 58). To complete it properly, fill the relevant spaces (as shown in the package fiche facsimile (Fig. 53 and 56) with the values shown in tables (Fig. 54 and 57).

The remaining values must be obtained from the technical data sheets of the products used to make up the assembly (e.g. solar devices, integration heat pumps, temperature controllers).
Use board (Fig. 55) for "assemblies" related to the central heating mode (e.g.: boiler + temperature controller).
Use board (Fig. 58) for "assemblies" related to the domestic hot water function (e.g.: boiler + solar thermal system).

Facsimile for filling in the package fiche for room central heating systems.

Seasonal central heating energy efficiency of the boiler — ❶ 'I' %

Temperature control From temperature control board — 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 % — ❷ + [ ] %

Supplementary boiler From boiler board — Seasonal central heating energy efficiency (in %) — ([ ] - 'I') x 0.1 = ❸ ± [ ] %

Solar contribution
From the board of the solar device
Dimensions of the manifold (in m²) — Volume of the tank (in m³) — Efficiency of the manifold (in %) — Classification of the tank A* = 0.95, A = 0.91, B = 0.86, C = 0.83, D-G = 0.81
('III' x [ ] + 'IV' x [ ]) x (0.9 x ([ ] / 100) x [ ] = ❹ + [ ] %

Supplementary heat pump *From the heat pump board* — Seasonal central heating energy efficiency (in %) — ([ ] - 'I') x 'II' = ❺ + [ ] %

Solar contribution and supplementary heat pump
Select the lowest value — 0.5 x ❹ [ ] O 0.5 x ❺ [ ] = ❻ - [ ] %

Seasonal central heating energy efficiency of the set — ❼ [ ] %

Seasonal central heating energy efficiency class of the set

G	F	E	D	C	B	A	A+	A++	A+++
< 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 the board of the heat pump — ❼ [ ] + (50 x 'II') = [ ] %

The energy efficiency of the set of products indicated in this sheet may not reflect the actual energy efficiency after installation since such efficiency is affected by additional factors, such as the heat loss in the distribution system and the size of the products compared to the size and features of the building.

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Parameters for filling in the assembly chart.

Parameter	Victrix Zeus 25
'I'	91
'II'	*
'III'	1.34
'IV'	0.52

* *to be established by means of table 5 of Regulation 811/2013 in case of "assembly" including a heat pump to integrate the boiler. In this case the boiler must be considered as the main appliance of the assembly.*

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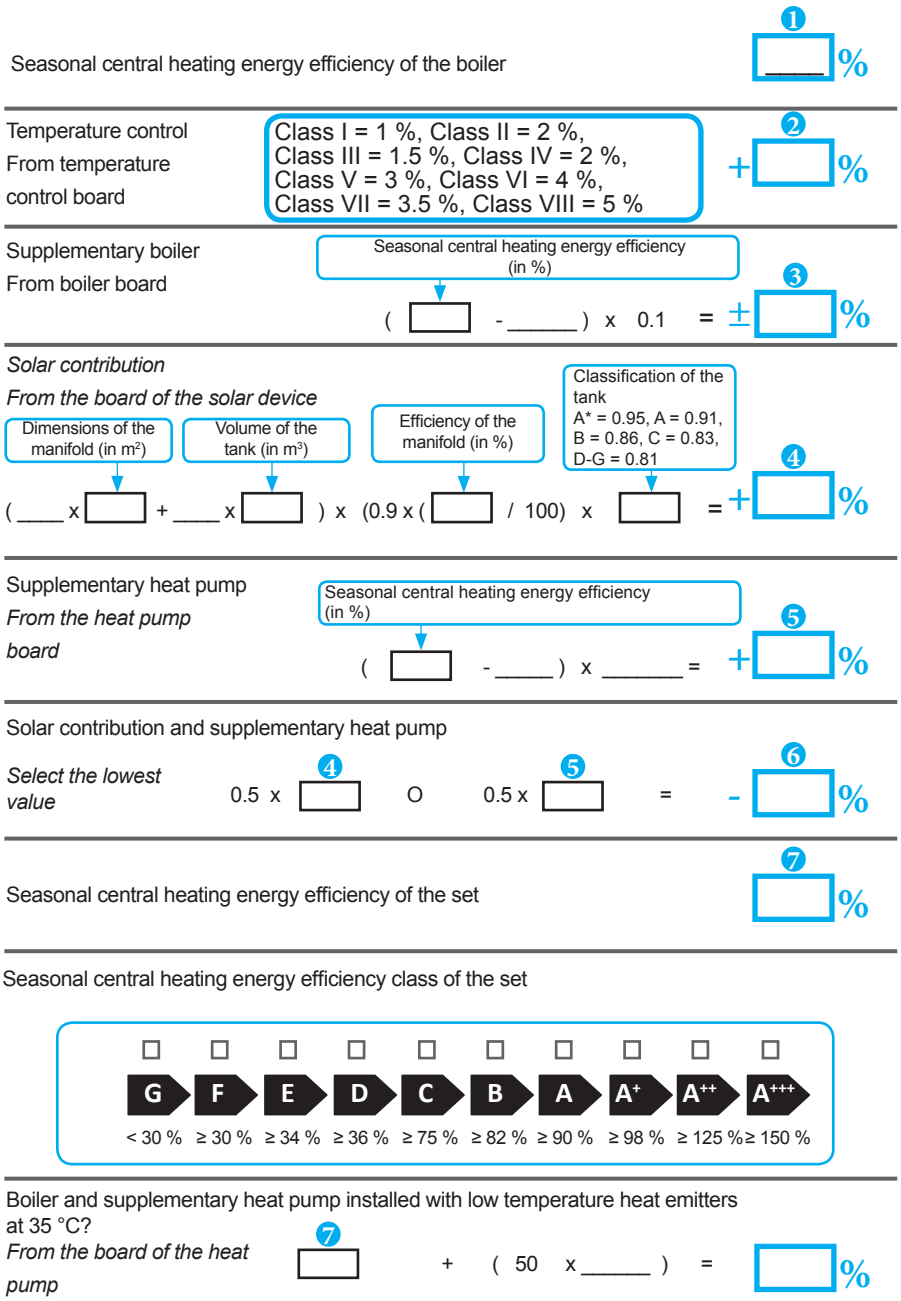
Room central heating system package fiche.



The energy efficiency of the set of products indicated in this sheet may not reflect the actual energy efficiency after installation since such efficiency is affected by additional factors, such as the heat loss in the distribution system and the size of the products compared to the size and features of the building.

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Facsimile for filling in the domestic hot water production system package fiche.

Water heating energy efficiency of combination boiler

❶ ‘I’ %

Stated load profile: ☐

Solar contribution

From the board of the solar device

Auxiliary electricity

(1.1 x ‘I’ - 10 %) x ‘II’ - ‘III’ - ‘I’ = + ❷ %

Water heating energy efficiency of the assembly in average climate conditions

❸ %

Water heating energy efficiency class of the assembly in average climate conditions

	G	F	E	D	C	B	A	A+	A++	A+++
☐ M	< 27 %	≥ 27 %	≥ 30 %	≥ 33 %	≥ 36 %	≥ 39 %	≥ 65 %	≥ 100 %	≥ 130 %	≥ 163 %
☐ L	< 27 %	≥ 27 %	≥ 30 %	≥ 34 %	≥ 37 %	≥ 50 %	≥ 75 %	≥ 115 %	≥ 150 %	≥ 188 %
☐ XL	< 27 %	≥ 27 %	≥ 30 %	≥ 35 %	≥ 38 %	≥ 55 %	≥ 80 %	≥ 123 %	≥ 160 %	≥ 200 %
☐ XXL	< 28 %	≥ 28 %	≥ 32 %	≥ 36 %	≥ 40 %	≥ 60 %	≥ 85 %	≥ 131 %	≥ 170 %	≥ 213 %

Water heating energy efficiency class in colder and hotter climate conditions

Colder: ❸ - 0.2 x ❷ = %

Hotter: ❸ + 0.4 x ❷ = %

The energy efficiency of the set of products indicated in this sheet may not reflect the actual energy efficiency after installation since such efficiency is affected by additional factors, such as the heat loss in the distribution system and the size of the products compared to the size and features of the building.

Parameters for filling in the DHW package fiche.

Parameter	Victrix Zeus 25
'I'	82
'II'	*
'III'	*

* *to be determined according to Regulation 811/2013 and transient calculation methods as per Notice of the European Community no. 207/2014.*

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Domestic hot water production system package fiche.

Water heating energy efficiency of combination boiler ❶ ____ %

Stated load profile: ☐

Solar contribution

From the board of the solar device

Auxiliary electricity

(1.1 x _____ - 10 %) x _____ - ____ - _____ = + ❷ ____ %

Water heating energy efficiency of the assembly in average climate conditions ❸ ____ %

Water heating energy efficiency class of the assembly in average climate conditions

	G	F	E	D	C	B	A	A+	A++	A+++
☐ M	< 27 %	≥ 27 %	≥ 30 %	≥ 33 %	≥ 36 %	≥ 39 %	≥ 65 %	≥ 100 %	≥ 130 %	≥ 163 %
☐ L	< 27 %	≥ 27 %	≥ 30 %	≥ 34 %	≥ 37 %	≥ 50 %	≥ 75 %	≥ 115 %	≥ 150 %	≥ 188 %
☐ XL	< 27 %	≥ 27 %	≥ 30 %	≥ 35 %	≥ 38 %	≥ 55 %	≥ 80 %	≥ 123 %	≥ 160 %	≥ 200 %
☐ XXL	< 28 %	≥ 28 %	≥ 32 %	≥ 36 %	≥ 40 %	≥ 60 %	≥ 85 %	≥ 131 %	≥ 170 %	≥ 213 %

Water heating energy efficiency class in colder and hotter climate conditions

Colder: ❸ ____ - 0.2 x ❷ ____ = ____ %

Hotter: ❸ ____ + 0.4 x ❷ ____ = ____ %

The energy efficiency of the set of products indicated in this sheet may not reflect the actual energy efficiency after installation since such efficiency is affected by additional factors, such as the heat loss in the distribution system and the size of the products compared to the size and features of the building.

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