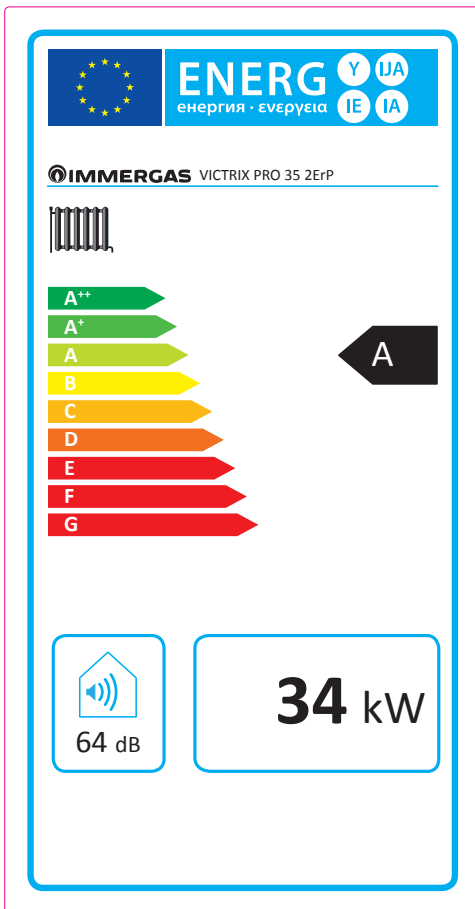
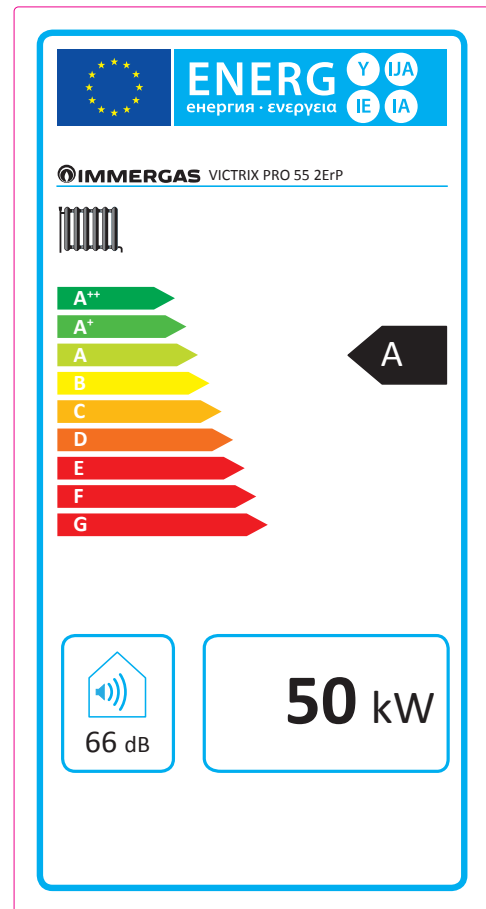


Victrix Pro 35 2 ErP



Victrix Pro 55 2 ErP



Parameter	value
Yearly energy consumption for the heating function ( $Q_{HE}$ )	59.4 GJ
Yearly electricity consumption for the domestic hot water function (AEC)	--
Yearly fuel consumption for the domestic hot water function (AFC)	--
Seasonal room heating yield ( $\eta_s$ )	91 %
Domestic hot water production yield ( $\eta_{wh}$ )	--

Parameter	value
Yearly energy consumption for the heating function ( $Q_{HE}$ )	86.8 GJ
Yearly electricity consumption for the domestic hot water function (AEC)	--
Yearly fuel consumption for the domestic hot water function (AFC)	--
Seasonal room heating yield ( $\eta_s$ )	91 %
Domestic hot water production yield ( $\eta_{wh}$ )	--

For proper installation of the appliance 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.

### 3.27 TECHNICAL PARAMETERS FOR MIXED BOILERS (IN COMPLIANCE WITH REGULATION 813/2013).

The yields in the following tables refer to the higher heating value.

Model/s:				Victrix Pro 35 2ErP					
Condensing Boilers:				SI					
Low temperature boiler:				NO					
Boiler type B1:				NO					
Co-generation appliance for central heating:				NO			Fitted with supplementary heating system:	NO	
Mixed heating appliance:				SI					
Element	Symbol	Value	Unit	Element	Symbol	Value	Unit		
Nominal heat output	$P_n$	34	kW	Seasonal energy efficiency of central heating	$\eta_s$	91	%		
For central heating only and mixed boilers: useful heat output				For central heating only and mixed boilers: useful efficiency					
At nominal heat output in high temperature mode (*)	$P_4$	34.0	kW	At nominal heat output in high temperature mode (*)	$\eta_4$	86.8	%		
At 30% of nominal heat output in a low temperature mode (**)	$P_1$	10.2	kW	At 30% of nominal heat output in a low temperature mode (**)	$\eta_1$	95.6	%		
Auxiliary electricity consumption				Other items					
At full load	$el_{max}$	0.043	kW	Heat loss in standby	$P_{stby}$	0.091	kW		
At partial load	$el_{min}$	0.015	kW	Ignition burner energy consumption	$P_{ign}$	0.000	kW		
In standby mode	$P_{SB}$	0.006	kW	Emissions of nitrogen oxides	$NO_x$	23	mg / kWh		
For mixed central heating appliances									
Stated load profile				Domestic hot water production efficiency				$\eta_{WH}$	%
Daily electrical power consumption	$Q_{elec}$		kWh	Daily gas consumption	$Q_{fuel}$		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.									

Model/s:				Victrix Pro 55 2ErP					
Condensing Boilers:				SI					
Low temperature boiler:				NO					
Boiler type B1:				NO					
Co-generation appliance for central heating:				NO			Fitted with supplementary heating system:	NO	
Mixed heating appliance:				SI					
Element	Symbol	Value	Unit	Element	Symbol	Value	Unit		
Nominal heat output	$P_n$	50	kW	Seasonal energy efficiency of central heating	$\eta_s$	91	%		
For central heating only and mixed boilers: useful heat output				For central heating only and mixed boilers: useful efficiency					
At nominal heat output in high temperature mode (*)	$P_4$	49.9	kW	At nominal heat output in high temperature mode (*)	$\eta_4$	87.7	%		
At 30% of nominal heat output in a low temperature mode (**)	$P_1$	15.0	kW	At 30% of nominal heat output in a low temperature mode (**)	$\eta_1$	95.8	%		
Auxiliary electricity consumption				Other items					
At full load	$el_{max}$	0.091	kW	Heat loss in standby	$P_{stby}$	0.091	kW		
At partial load	$el_{min}$	0.015	kW	Ignition burner energy consumption	$P_{ign}$	0.000	kW		
In standby mode	$P_{SB}$	0.006	kW	Emissions of nitrogen oxides	$NO_x$	36	mg / kWh		
For mixed central heating appliances									
Stated load profile				Domestic hot water production efficiency				$\eta_{WH}$	%
Daily electrical power consumption	$Q_{elec}$		kWh	Daily gas consumption	$Q_{fuel}$		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.									

**3.29 PARAMETERS FOR FILLING IN THE ASSEMBLY SHEET.**

In case you should wish to install an assembly, starting from the Victrix Pro 35-55 2ErP boiler, use the assembly charts in fig. 3-13 and 3-16. To complete it properly, fill the relevant spaces (as shown in the assembly sheet facsimile Fig. 3-11 and 3-14) with the values shown in tables Fig. 3-12 and 3-15.

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. 3-13 for “assemblies” related to the central heating mode (e.g.: boiler + temperature controller). Use board Fig. 3-16 for “assemblies” related to the domestic hot water function (e.g.: boiler + solar thermal system).

**Example to fill in the room heating system assembly chart.**

Seasonal space heating energy efficiency of boiler ①  %

---

Temperature control  
From fiche of temperature control ②  %

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 ③  %

Seasonal space heating energy efficiency (in %)

$$\left( \text{[ ]} - \text{'I'} \right) \times 0.1 = \pm \text{[ ]} \%$$


---

*Solar contribution*  
From fiche of solar device ④  %

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

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

Collector efficiency (in %)

Tank rating  
A\* = 0.95, A = 0.91,  
B = 0.86, C = 0.83,  
D-G = 0.81

$$\left( \text{'III'} \times \text{[ ]} + \text{'IV'} \times \text{[ ]} \right) \times \left( 0.9 \times \left( \text{[ ]} / 100 \right) \times \text{[ ]} \right) = + \text{[ ]} \%$$


---

Supplementary heat pump  
From fiche of heat pump ⑤  %

Seasonal space heating energy efficiency (in %)

$$\left( \text{[ ]} - \text{'I'} \right) \times \text{'II'} = + \text{[ ]} \%$$


---

Solar contribution and Supplementary heat pump  
Select smaller value ⑥  %

$$0.5 \times \text{[ ]} \quad \text{OR} \quad 0.5 \times \text{[ ]} = - \text{[ ]} \%$$


---

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"/>
G	F	E	D	C	B	A	A <sup>+</sup>	A <sup>++</sup>	A <sup>+++</sup>
< 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  %

$$\text{[ ]} + \left( 50 \times \text{'II'} \right) = \text{[ ]} \%$$


---

*The energy efficiency of the package of products provided far 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.*

Parameters for filling in the assembly chart.

Parameter	Victrix Pro 35 2ErP	Victrix Pro 55 2ErP
'I'	91	91
'II'	*	*
'III'	0,79	0,53
'IV'	0,31	0,21

\* 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.

3-12

Room heating system assembly chart.

Seasonal space heating energy efficiency of boiler ①  %

---

Temperature control ②  %  
 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 ③  %  
 From fiche of boiler

Seasonal space heating energy efficiency (in %)

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


---

Solar contribution ④  %  
 From fiche of solar device

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

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

Collector efficiency (in %)

Tank rating  
A\* = 0.95, A = 0.91,  
B = 0.86, C = 0.83,  
D-G = 0.81

$$(\text{ } \times \text{ } + \text{ } \times \text{ } ) \times (0.9 \times ( \text{ } / 100 ) \times \text{ } = + \text{ } \%$$


---

Supplementary heat pump ⑤  %  
 From fiche of heat pump

Seasonal space heating energy efficiency (in %)

$$( \text{ } - \text{ } ) \times \text{ } = + \text{ } \%$$


---

Solar contribution and Supplementary heat pump ⑥  %

Select smaller value  $0.5 \times \text{ } \text{ OR } 0.5 \times \text{ } = - \text{ } \%$

---

Seasonal space heating energy efficiency of package ⑦  %

---

Seasonal space heating energy efficiency class of package

□

□

□

□

□

□

□

□

□

□

G

F

E

D

C

B

A

A<sup>+</sup>

A<sup>++</sup>

A<sup>+++</sup>

< 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  ) =  %

---

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.

3-13

Example to fill in the domestic hot water production system assembly chart.

Water heating energy efficiency of combination heater

<sup>1</sup>  
 %

Declared load profile:

Solar contribution

From fiche of solar device

Auxiliary electricity

$(1,1 \times 'I' - 10\%) \times 'II' - 'III' - 'I' = +$   %

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

Water heating energy efficiency under colder and warmer climate conditions

Colder:  - 0.2 x  =  %

Warmer:  + 0.4 x  =  %

*The energy efficiency of the package of products provided far 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.*

Parameters for filling in DHW package assembly chart.

Parameter	Victrix Pro 35 2ErP	Victrix Pro 55 2ErP
'I'	--	--
'II'	*	*
'III'	*	*

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

3-15

Domestic hot water production system assembly chart.

Water heating energy efficiency of combination heater

%

Declared load profile:

Solar contribution

From fiche of solar device

Auxiliary electricity

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

Water heating energy efficiency of package under average climate

%

Water heating energy efficiency class of package under average climate

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

Water heating energy efficiency under colder and warmer climate conditions

Colder:  $\text{---} - 0.2 \times \text{---} = \text{---} \%$

Warmer:  $\text{---} + 0.4 \times \text{---} = \text{---} \%$

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 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.

3-16