USER'S MANUAL

Instructions and recommendations
Installer
User
Maintenance technician

IE

1.045260ENG

IMMERGAS

VICTRIX ZEUS SUPERIOR 25-30-35

3.25 CASING REMOVAL

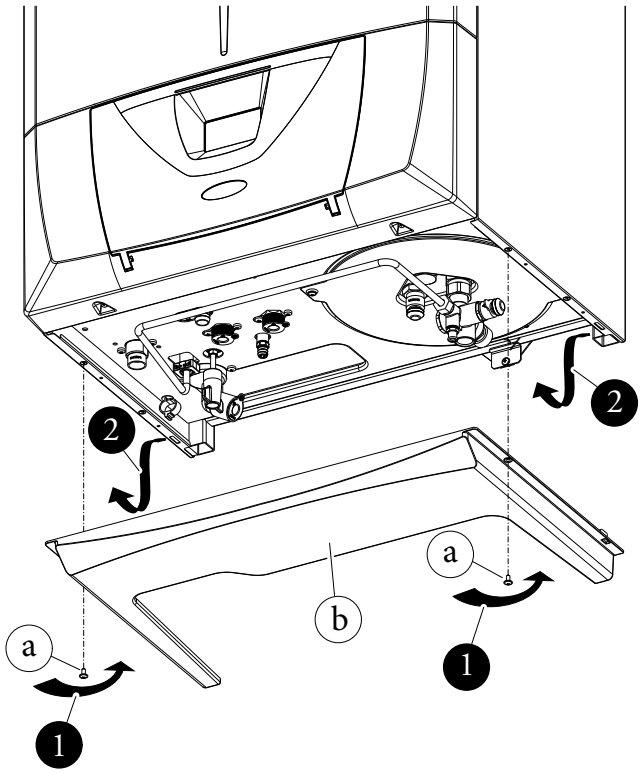
To facilitate boiler maintenance the casing can be completely removed as follows:

Lower grid (Fig. 64)

1. Loosen the two screws (a).
2. Remove the grid (b).

Front panel (Fig. 65)

3. Remove the cover caps (c) and loosen screws (d).
4. Loosen the two screws (e) secured under the hinges.
5. Pull the front panel (f) towards you and release it from its lower seat.



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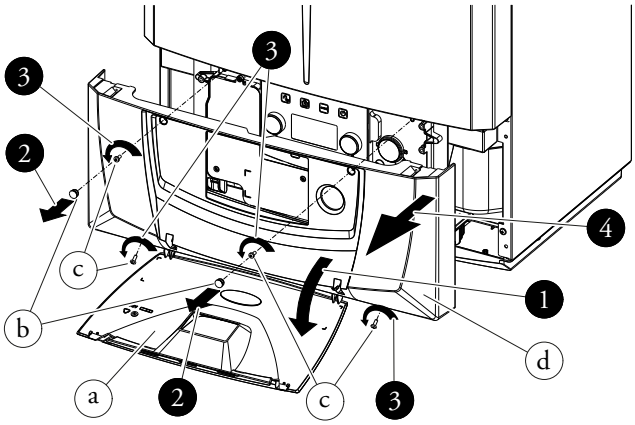

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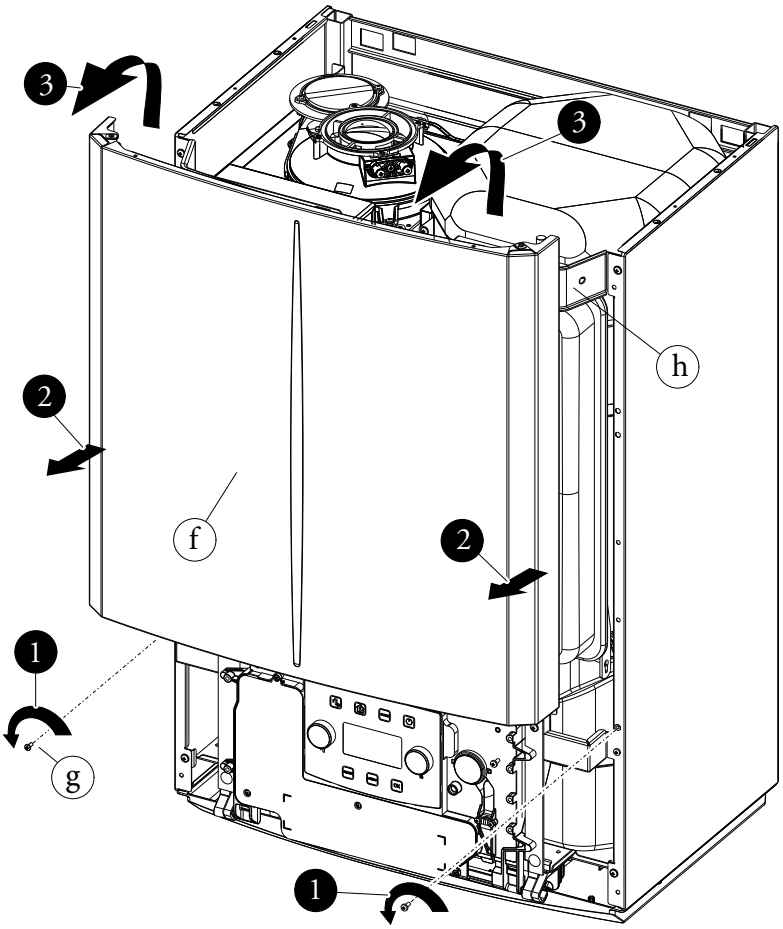
Front (Fig. 66)

6. Loosen the two screws (g).
7. Pull the front (f) slightly towards you.
8. Release the front (f) from the bracket (h) by pushing upwards and towards you.



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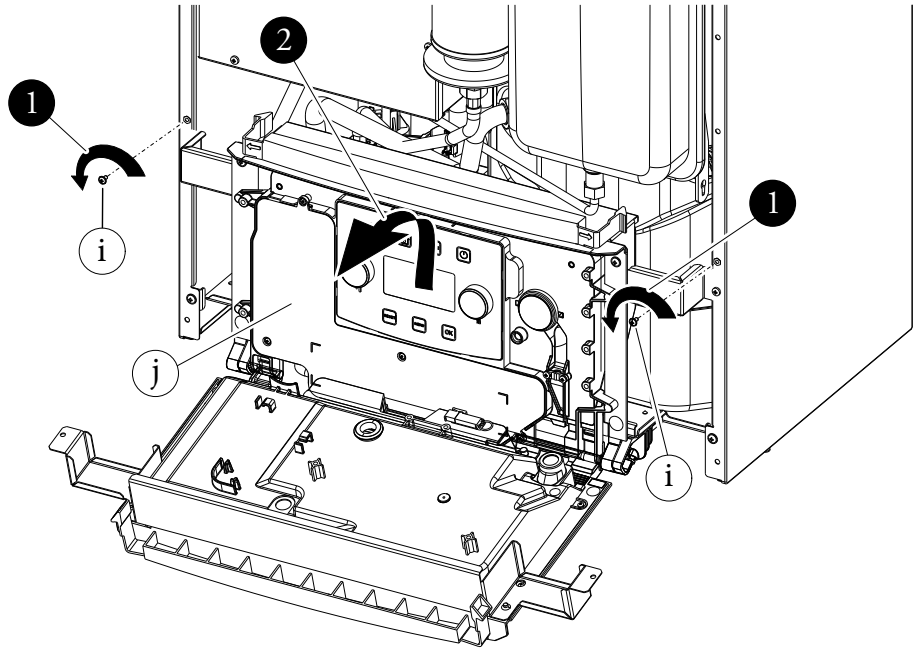
Control panel (Fig. 67)

9. Loosen the fixing screws (i) from the front panel.
10. Tilt the control panel (j) towards you.



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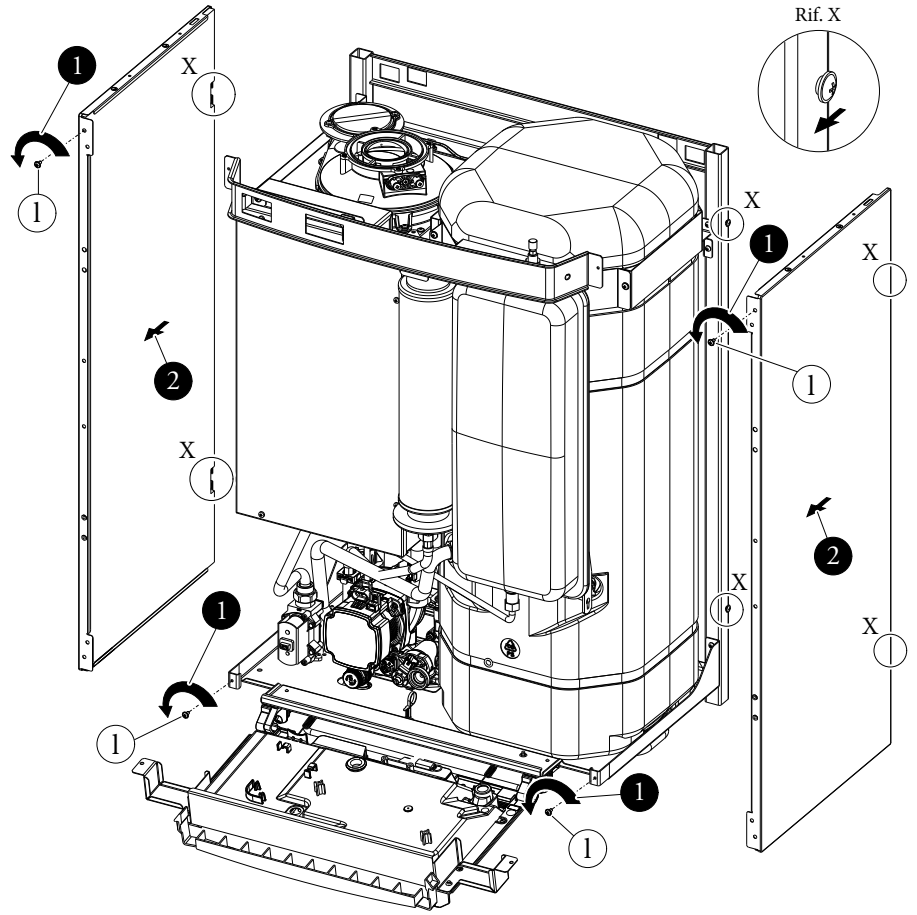
Sides (Fig. 68)

11. Unscrew the side (k) fastening screws (l).
12. Remove the sides by extracting them from their rear seat (Ref. X).



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4 TECHNICAL DATA

4.1 VARIABLE HEAT OUTPUT

The power data in the table has been obtained with intake-exhaust pipe measuring 0.5 m in length. Gas flow rates refer to net calorific value below a temperature of 15°C and at a pressure of 1013 mbar.

Victrix Zeus Superior 25

			METHANE (G20)		PROPANE (G31)	
HEAT OUTPUT	HEAT OUTPUT		MODULATION	GAS FLOW RATE BURNER	MODULATION	GAS FLOW RATE BURNER
(kW)	(kcal/h)		(%)	(m^3/h)	(%)	(kg/h)
25,0	21500	D.H.W.	99	2,74	99	2,01
24,0	20640		93	2,63	92	1,93
23,0	19780		86	2,52	85	1,85
22,0	18920		81	2,41	79	1,77
21,0	18060		76	2,29	74	1,68
20,2	17372	HEAT. + D.H.W.	73	2,20	70	1,62
19,0	16340		69	2,07	62	1,52
18,0	15480		64	1,96	59	1,44
17,0	14620		60	1,85	57	1,36
16,0	13760		57	1,74	55	1,28
15,0	12900		53	1,63	53	1,20
14,0	12040		50	1,52	51	1,12
13,0	11180		46	1,41	48	1,04
12,0	10320		44	1,30	44	0,96
11,0	9460		40	1,20	40	0,88
10,0	8600		38	1,09	37	0,80
9,0	7740		34	0,98	34	0,72
8,0	6880		32	0,87	31	0,64
7,0	6020		30	0,77	26	0,56
6,0	5160		27	0,66	23	0,49
5,0	4300		23	0,55	20	0,41
4,7	4042		22	0,52	18	0,38
3.0	2580		11	0.34	11	0.25
2.3	2012		1	0.26	1	0.19

Victrix Zeus Superior 30

			METHANE (G20)		PROPANE (G31)	
HEAT OUTPUT	**HEAT OUTPUT**		**MODULATION**	**GAS FLOW RATE BURNER**	**MODULATION**	**GAS FLOW RATE BURNER**
(kW)	**(kcal/h)**		**(%)**	**(m^3/h)**	**(%)**	**(kg/h)**
30,0	25800	D.H.W.	83	3,27	80	2,40
29,0	24940		79	3,16	76	2,32
28,2	24252	HEAT. + D.H.W.	75	3,07	73	2,26
27,0	23220		70	2,94	70	2,16
26,0	22360		65	2,83	65	2,07
25,0	21500		60	2,71	60	1,99
24,0	20640		55	2,60	55	1,91
23,0	19780		50	2,49	50	1,83
22,0	18920		55	2,38	47	1,74
21,0	18060		40	2,26	43	1,66
20,0	17200		38	2,15	40	1,58
19,0	16340		36	2,04	38	1,50
18,0	15480		34	1,93	36	1,42
17,0	14620		32	1,82	34	1,34
16,0	13760		30	1,71	32	1,26
15,0	12900		29	1,61	30	1,18
14,0	12040		27	1,50	29	1,10
13,0	11180		26	1,39	28	1,02
12,0	10320		25	1,29	26	0,94
11,0	9460		24	1,18	25	0,87
10,0	8600		22	1,08	23	0,79
9,0	7740		20	0,97	21	0,71
8.0	6880		19	0.87	20	0.64
7.0	6020		17	0.76	13	0.56
6.0	5160		14	0.66	11	0.48
5.0	4300		10	0.55	10	0.41
4.0	3440		5	0.44	7	0.33
3.0	2580		2	0.34	3	0.25
2.8	2408		1	0.31	1	0.23

Victrix Zeus Superior 35

			METHANE (G20)		PROPANE (G31)	
HEAT OUTPUT	**HEAT OUTPUT**		**MODULATION**	**GAS FLOW RATE BURNER**	**MODULATION**	**GAS FLOW RATE BURNER**
(kW)	**(kcal/h)**		**(%)**	**(m^3/h)**	**(%)**	**(kg/h)**
33,8	29068	D.H.W.	99	3,69	99	2,71
33,0	28380		95	3,60	95	2,64
32,0	27520		90	3,49	90	2,56
31,0	26660		86	3,38	85	2,48
30,0	25800		82	3,27	80	2,40
29,0	24940		78	3,16	76	2,32
28,2	24252	HEAT. + D.H.W.	75	3,07	73	2,26
27,0	23220		70	2,94	70	2,16
26,0	22360		65	2,83	65	2,07
25,0	21500		60	2,71	60	1,99
24,0	20640		55	2,60	55	1,91
23,0	19780		50	2,49	50	1,83
22,0	18920		55	2,37	47	1,74
21,0	18060		40	2,26	43	1,66
20,0	17200		38	2,15	40	1,58
19,0	16340		37	2,04	38	1,50
18,0	15480		34	1,93	36	1,42
17,0	14620		32	1,82	34	1,34
16,0	13760		30	1,71	32	1,26
15,0	12900		29	1,60	30	1,18
14,0	12040		27	1,50	29	1,10
13,0	11180		26	1,39	28	1,02
12.0	10320		25	1.29	26	0.94
11.0	9460		24	1.18	25	0.87
10.0	8600		22	1.08	23	0.79
9.0	7740		20	0.97	21	0.71
8.0	6880		19	0.87	20	0.64
7.0	6020		17	0.76	13	0.56
6.0	5160		14	0.66	11	0.48
5.0	4300		10	0.55	10	0.41
4.0	3440		5	0.44	7	0.33
3.0	2580		2	0.34	3	0.25
2.8	2408		1	0.31	1	0.23

4.2 COMBUSTION PARAMETERS

Combustion parameters: measuring conditions of useful efficiency (flow temperature/return temperature= 80 / 60 °C), ambient temperature reference = 15°C.

Victrix Zeus Superior 25

Gas type		**G20**	**G31**
Supply pressure	mbar (mm H_2O)	20 (204)	31 (377)
Gas nozzle diameter	mm	5	5
Flue flow rate at D.H.W. nominal heat output	kg/h (g/s)	43 (12.08)	43 (11.81)
Flue flow rate at heating nominal heat output	kg/h (g/s)	35 (9.71)	33 (9.18)
Flue flow rate at min heat output	kg/h (g/s)	4 (1.16)	4 (1.18)
CO_2 to nominal Q.	%	8.8 (± 0,2)	10.3 (± 0,2)
CO_2 to ignition Q.	%	8.8 (± 0,2)	9.9 (± 0,2)
CO_2 to minimum Q.	%	8.8 (± 0,2)	9.9 (± 0,2)
CO with 0% O_2 at Nom./Min. Q.	ppm	155 / 5	215 / 6
NO_x with 0% O_2 at Nom./Min. Q.	mg/kWh	31 / 21	53 / 23
Flue temperature at nominal output	°C	70	71
Flue temperature at minimum output	°C	60	53
Max air combustion temperature	°C	50	50

Intake / exhaust available head with Min	**Intake / exhaust available head with Med**	**Intake / exhaust available head with Max**
Pa	Pa	Pa
48	112	151

Victrix Zeus Superior 30

Gas type		**G20**	**G31**
Supply pressure	mbar (mm H_2O)	20 (204)	31 (377)
Gas nozzle diameter	mm	5.7	5.7
Flue flow rate at D.H.W. nominal heat output	kg/h (g/s)	52 (14.43)	50 (13.86)
Flue flow rate at heating nominal heat output	kg/h (g/s)	49 (13.55)	47 (13.02)
Flue flow rate at min heat output	kg/h (g/s)	5 (1.38)	5 (1.35)
CO_2 to nominal Q.	%	8.8 (± 0,2)	10.5 (± 0,2)
CO_2 to ignition Q.	%	8.8 (± 0,2)	10.3 (± 0,2)
CO_2 to minimum Q.	%	8.8 (± 0,2)	10.3 (± 0,2)
CO with 0% O_2 at Nom./Min. Q.	ppm	134 / 3	233 / 3
NO_x with 0% O_2 at Nom./Min. Q.	mg/kWh	22 / 15	41 / 25
Flue temperature at nominal output	°C	44	41
Flue temperature at minimum output	°C	47	42
Max air combustion temperature	°C	50	50

Intake / exhaust available head with Min	**Intake / exhaust available head with Med**	**Intake / exhaust available head with Max**
Pa	Pa	Pa
76	155	233

Victrix Zeus Superior 35

Gas type		**G20**	**G31**
Supply pressure	mbar (mm H_2O)	20 (204)	31 (377)
Gas nozzle diameter	mm	5.7	5.7
Flue flow rate at D.H.W. nominal heat output	kg/h (g/s)	59 (16.25)	57 (15.89)
Flue flow rate at heating nominal heat output	kg/h (g/s)	49 (13.55)	47 (13.02)
Flue flow rate at min heat output	kg/h (g/s)	5 (1.38)	5 (1.35)
CO_2 to nominal Q.	%	8.8 (± 0,2)	10.3 (± 0,2)
CO_2 to ignition Q.	%	8.8 (± 0,2)	10.3 (± 0,2)
CO_2 to minimum Q.	%	8.8 (± 0,2)	10.3 (± 0,2)
CO with 0% O_2 at Nom./Min. Q.	ppm	141 / 3	227 / 3
NO_x with 0% O_2 at Nom./Min. Q.	mg/kWh	22 / 15	34 / 25
Flue temperature at nominal output	°C	44	41
Flue temperature at minimum output	°C	47	42
Max air combustion temperature	°C	50	50

Intake / exhaust available head with Min	**Intake / exhaust available head with Med**	**Intake / exhaust available head with Max**
Pa	Pa	Pa
97	197	295

4.3 TECHNICAL DATA TABLE

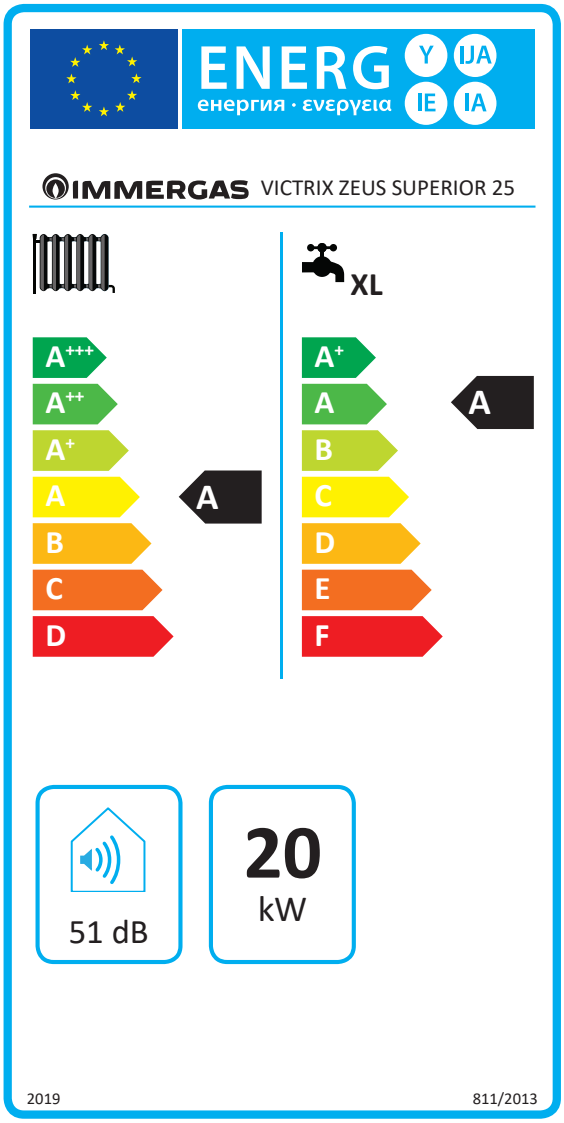
		Victrix Zeus Superior 25	Victrix Zeus Superior 30	Victrix Zeus Superior 35
Domestic hot water nominal heat input	kW (kcal/h)	25.9 (22280)	30.9 (26598)	34.8 (29967)
Central heating nominal heat input	kW (kcal/h)	20.8 (17909)	29 (24976)	
Minimum heat input	kW (kcal/h)	2.5 (2143)	3 (2554)	
Domestic hot water nominal heat output (useful)	kW (kcal/h)	25 (21500)	30 (25800)	33.8 (29068)
Central heating nominal heat output (useful)	kW (kcal/h)	20.2 (17372)	28.2 (24252)	
Minimum heat output (useful)	kW (kcal/h)	2.3 (2012)	2.8 (2408)	
*Effective thermal efficiency 80/60 Nom./Min.	%	97 / 95.4	97.1 / 94.3	
*Effective thermal efficiency 50/30 Nom./Min.	%	105.1 / 105.7	105.4 / 103.7	
*Effective thermal efficiency 40/30 Nom./Min.	%	107.1 / 108,8	106.8 / 108,0	
Casing losses with burner On/Off (80-60°C)	%	0,38 / 1,40	0,57 / 1,40	0,51 / 1,40
Chimney losses with burner On/Off (80-60°C)	%	0,01 / 2,10	0,01 / 1,60	
Central heating circuit max. operating pressure	bar (MPa)	3,0 (0,30)		
Maximum heating temperature	°C	90		
Adjustable central heating temperature (min. operating field)	°C	20		
Adjustable central heating temperature (max operating field)	°C	85		
System expansion vessel total volume	l	5.8	7.1	
Expansion vessel pre-charged pressure	bar (MPa)	1,0 (0,10)		
Appliance water content	l	4.7	7.3	
Head available with 1000 l/h flow rate	kPa (m H_2O)	1,03 (mca/kPa)	1,2 (mca/kPa)	
Hot water production useful heat output	kW (kcal/h)	25 (21500)	30 (25800)	33.8 (29068)
Domestic hot water adjustable temperature	°C	10-60		
Domestic hot water circuit min. pressure (dynamic)	bar (MPa)	0,6 (0,06)		
Domestic hot water circuit max. operating pressure	bar (MPa)	8,0 (0,80)		
Flow rate capacity in continuous duty (ΔT 30°C)	l/min	12.4	15	16.9
Weight of full boiler	kg	119	121.9	
Weight of empty boiler	kg	63.9	64.2	
Electrical connection	V/Hz	230 / 50		
Nominal power absorption	A	0.7	0.8	1
Installed electric power	W	95	110	130
Pump absorbed power	W	45	57	59
EEI value	-	≤ 0.20 - Det. 3		
Fan power absorbed power	W	40	42	68
Equipment electrical system protection	-	IPX5D		
Max temperature of combustion products	°C	75		
Max. flue overheating temperature	°C	120		
Ambient operating temperature range	°C	0 ÷ 40		
Ambient operating temperature range with optional antifreeze kit	°C	-15 ÷ 40		
NO_x class	-	6		
Weighted NO_x	mg/kWh	23	21	
Weighted CO	mg/kWh	15	16	
**Type of appliance	-	C13-C13x-C33-C33x-C43-C43x-C53-C53x-C63-C63x-C83-C83x-C93-C93x-C(10)3-C(12)3-C(15)3-C(10)3x-C(12)3x-C(15)3x-B23p-B33-B53p		

Category	-	II 2H3P - I 3P

* The efficiency values refer to the lower calorific value.
The data relating to domestic hot water performance refer to a dynamic inlet pressure of 2 bar and an inlet temperature of 15°C; the values are measured immediately at the boiler outlet, considering that to obtain the data declared, mixing with cold water is required.
The weighted NO_x value refer to the net calorific value.
** For type C63 it is forbidden to install the appliance as it came out of the factory, in configurations that require shared flues in positive pressure.

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

Victrix Zeus Superior 25



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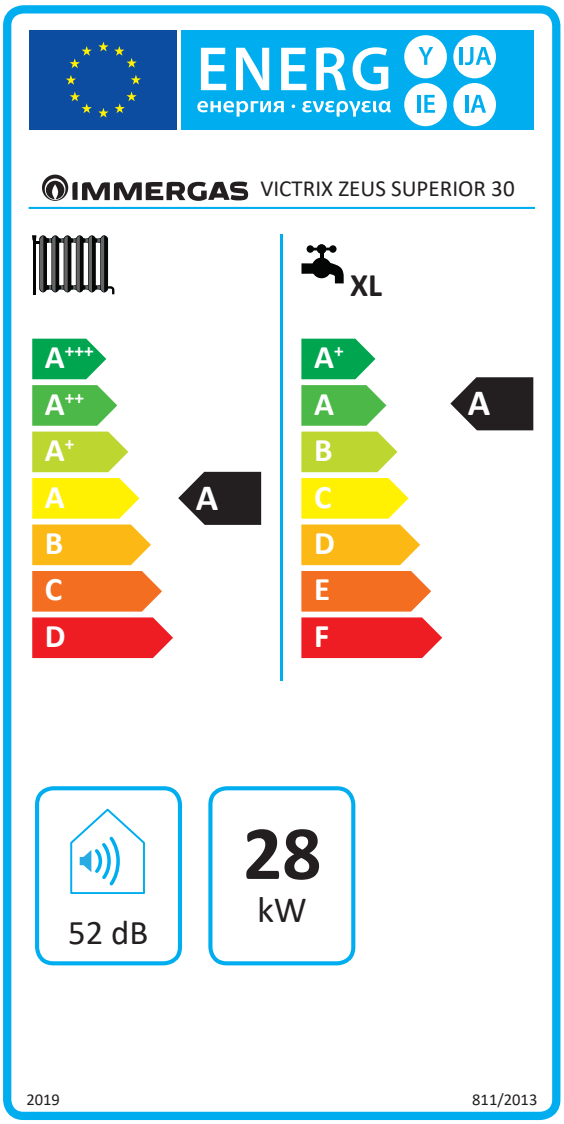
Parameter	value
Annual energy consumption for the central heating mode (QHE)	34,7 GJ
Annual electricity consumption for the domestic hot water function (AEC)	51 kWh
Annual fuel consumption for the domestic hot water function (AFC)	20 GJ
Seasonal space heating energy efficiency (ηs)	94 %
Water heating energy efficiency (ηwh)	80 %



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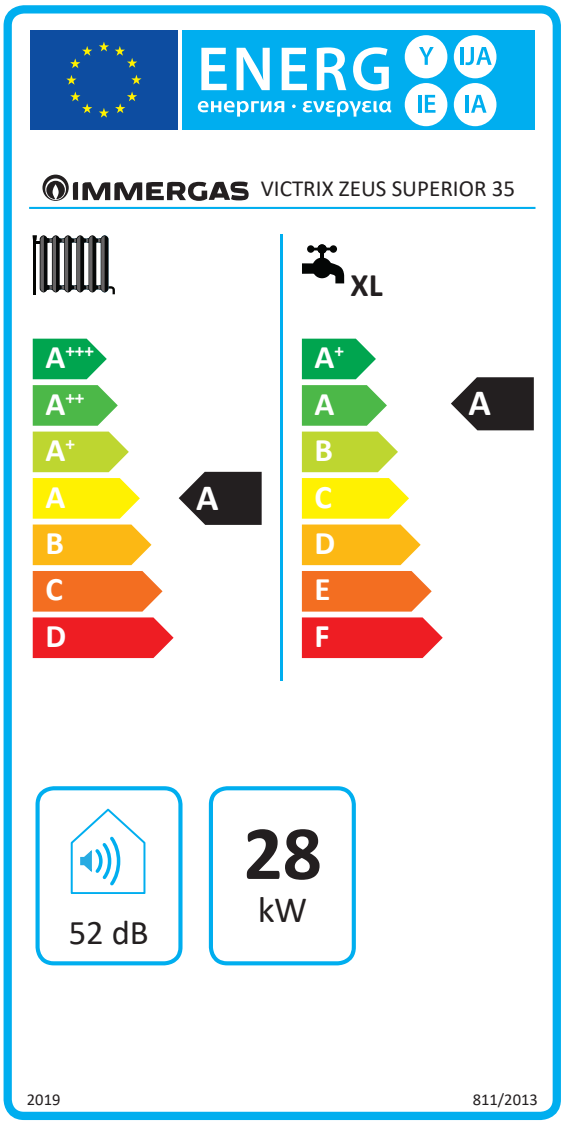
Parameter	value
Annual energy consumption for the central heating mode (QHE)	47,7 GJ
Annual electricity consumption for the domestic hot water function (AEC)	53 kWh
Annual fuel consumption for the domestic hot water function (AFC)	19 GJ
Seasonal space heating energy efficiency (ηs)	94 %
Water heating energy efficiency (ηwh)	80 %

Victrix Zeus Superior 35



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Parameter	value
Annual energy consumption for the central heating mode (QHE)	47,7 GJ
Annual electricity consumption for the domestic hot water function (AEC)	54 kWh
Annual fuel consumption for the domestic hot water function (AFC)	19 GJ
Seasonal space heating energy efficiency (ηs)	94 %
Water heating energy efficiency (ηwh)	80 %

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.