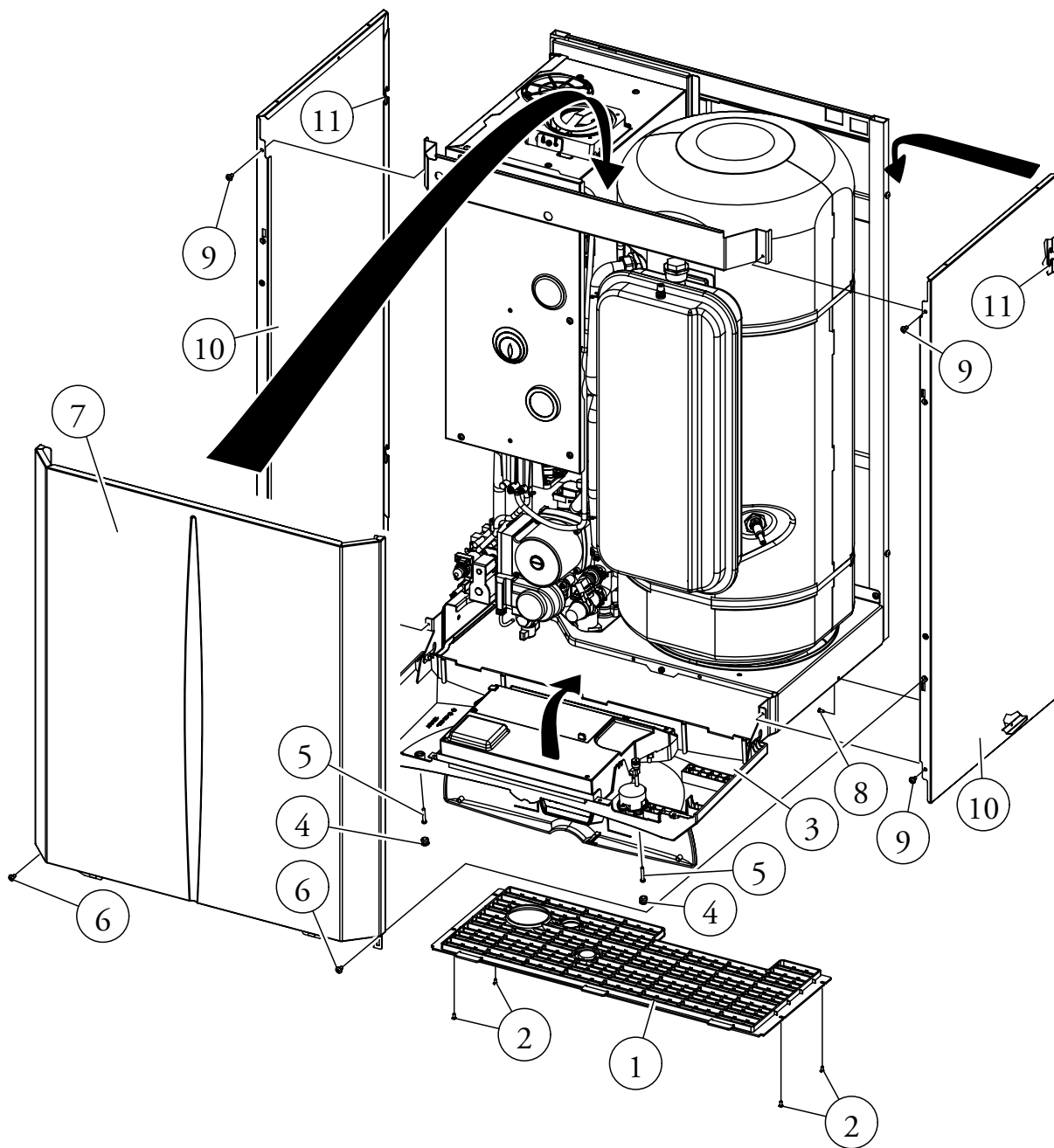


INSTALLER

USER

MAINTENANCE TECHNICIAN



3.18 TECHNICAL DATA.

		Zeus Superior 24 kW	Zeus Superior 28 kW	Zeus Superior 32 kW
Nominal heat input	kW (kcal/h)	25,6 (22028)	29,8 (25644)	33,6 (28910)
Minimum heat input	kW (kcal/h)	10,6 (9120)	13,3 (11402)	14,2 (12188)
Nominal (useful) heat output	kW (kcal/h)	24,0 (20640)	28,0 (24080)	31,7 (27262)
Minimum (useful) heat output	kW (kcal/h)	9,3 (7998)	11,8 (10148)	12,5 (10750)
Efficiency at nominal heat output	%	93,7	93,9	94,3
Efficiency at 30% nominal heat output	%	90,3	91,2	90,8
Casing losses with burner On/Off	%	0,40 / 0,61	0,60 / 0,62	0,40 / 0,60
Chimney losses with burner On/Off	%	5,90 / 0,05	5,50 / 0,01	5,80 / 0,01
Maximum working pressure of C.H. circuit	bar	3	3	3
Maximum working temperature of C.H. circuit	°C	90	90	90
Central heating temperature range	°C	35 - 85	35 - 85	35 - 85
Total volume of system expansion vessel	l	7,1	7,1	7,1
Expansion vessel factory-set pressure	bar	1	1	1
Total volume of DHW expansion vessel	l	1,2	1,2	1,2
DHW expansion vessel factory-set pressure	bar	3,5	3,5	3,5
Appliance water content	l	3,5	4,0	4,5
Available head at 1000 litres/hours flow rate	kPa (m H ₂ O)	32,9 (3,36)	37,26 (3,8)	39,22 (4,0)
Hot water production useful heat output	kW (kcal/h)	24,0 (20640)	28,0 (24080)	31,7 (27262)
DHW temperature adjustable range	°C	20 - 60	20 - 60	20 - 60
2-bar DHW flow limiter	l/min	10,0	12,0	14,0
DHW circuit minimum (dynamic) pressure	bar	0,3	0,3	0,3
Maximum working pressure of DHW circuit	bar	8	8	8
*Specific capacity "D" according to EN 625	l/min	15,3	16,6	18,9
Continuous service capacity (ΔT 30°C)	l/min	11,3	13,7	15,3
Domestic water performance classification according to EN13203-1		★★★		
Loaded boiler weight	kg	126,93	128,64	131,34
Empty boiler weight	kg	66,1	68	70,2
Power supply connection	V/Hz	230/50	230/50	230/50
Nominal power input	A	0,68	0,7	0,87
Installed electric power	W	135	140	165
Pump consumption	W	85	90	99
Fan consumption	W	33	37	48
Appliance electric insulation rating	-	IPX5D	IPX5D	IPX5D
NO _x class	-	3	3	3
Weighted NO _x	mg/kWh	139	130	146
Weighted CO	mg/kWh	101	106	100
Type of appliance	C12 / C32 / C42 / C52 / C82 / B22 / B32			
Category	II2H3+			

- Fume temperature values refer to an air inlet temperature of 15°C.
- The data relevant 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 directly at the boiler outlet considering that to obtain the data declared mixing with cold water is necessary.
- * Specific capacity "D": domestic hot water flow rate corresponding to an average increase of 30K, which the boiler can supply in two successive withdrawals.

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MAINTENANCE TECHNICIAN

3.19 COMBUSTION PARAMETERS.

		G20	G30	G31
Zeus Superior 24 kW				
Gas nozzle diameter	mm	1,35	0,79	0,79
Supply pressure	mbar (mm H ₂ O)	20 (204)	29 (296)	37 (377)
Flue flow rate at nominal heat output	kg/h	50	49	51
Flue flow rate at minimum heat output	kg/h	50	48	49
CO ₂ at Q. Nom./Min.	%	7,50 / 2,90	8,70 / 3,50	8,30 / 3,40
CO at 0% of O ₂ at Q. Nom./Min.	ppm	73 / 93	88 / 116	62 / 113
NO _x at 0% of O ₂ at Q. Nom./Min.	ppm	138 / 75	186 / 83	181 / 87
Flue temperature at nominal heat output	°C	115	118	114
Flue temperature at minimum heat output	°C	98	102	100
Zeus Superior 28 kW				
Gas nozzle diameter	mm	1,35	0,79	0,79
Supply pressure	mbar (mm H ₂ O)	20 (204)	29 (296)	37 (377)
Flue flow rate at nominal heat output	kg/h	58	55	57
Flue flow rate at minimum heat output	kg/h	61	59	60
CO ₂ at Q. Nom./Min.	%	7,50 / 2,94	9,10 / 3,55	8,70 / 3,46
CO at 0% of O ₂ at Q. Nom./Min.	ppm	97 / 104	179 / 103	90 / 99
NO _x at 0% of O ₂ at Q. Nom./Min.	ppm	123 / 77	184 / 89	168 / 88
Flue temperature at nominal heat output	°C	108	115	111
Flue temperature at minimum heat output	°C	79	82	81
Zeus Superior 32 kW				
Gas nozzle diameter	mm	1,35	0,79	0,79
Supply pressure	mbar (mm H ₂ O)	20 (204)	29 (296)	37 (377)
Flue flow rate at nominal heat output	kg/h	66	66	68
Flue flow rate at minimum heat output	kg/h	66	66	69
CO ₂ at Q. Nom./Min.	%	7,40 / 2,90	8,50 / 3,40	8,20 / 3,20
CO at 0% of O ₂ at Q. Nom./Min.	ppm	58 / 89	50 / 25	30 / 20
NO _x at 0% of O ₂ at Q. Nom./Min.	ppm	119 / 65	153 / 84	167 / 137
Flue temperature at nominal heat output	°C	119	121	118
Flue temperature at minimum heat output	°C	95	96	92