

TECHNICAL SPECIFICATIONS OF ATMOSPHERIC BOILERS

Technical specifications	um	Minorca	Minorca	Minorca	Minorca	Minorca	Minorca
Model	-	CTFS 9	CTFS 11	CTFS 13	CTFS 15	CTFS 18	CTFS 24
Type	-	B22-C12-C12X-C32-C42-C52-C62-C82	B22-C12-C12X-C32-C42-C52-C62-C82	B22-C12-C12X-C32-C42-C52-C62-C82	B22-C12-C12X-C32-C42-C52-C62-C82	B22-C12-C12X-C32-C42-C52-C62-C82	B22-C12-C12X-C32-C42-C52-C62-C82
Nominal heat input (Qn)	kW	10,4	12,3	14,2	16,4	20,0	25,5
Reduced heat input (Qr)	kW	7,0	7,0	7,0	7,0	7,0	11,5
Nominal heat output (80-60°C) (Pn)	kW	9,3	11,1	13,0	15,1	18,6	23,3
Reduced heat output (80-60°C) (Pr)	kW	6,0	6,0	6,0	6,0	6,0	9,9
Useful efficiency at nominal input (80-60°C)	%	89,2	90,2	91,2	91,8	93,2	91,2
Useful efficiency at 30% (30°C return)	%	86,2	86,9	87,6	87,7	88,2	87,4
Heating circuit working pressure (min-max)	bar	0,5-3,0	0,5-3,0	0,5-3,0	0,5-3,0	0,5-3,0	0,5-3,0
CH temperature setting range	°C	35-78	35-78	35-78	35-78	35-78	35-78
CH maximum working temperature	°C	83	83	83	83	83	83
Heating expansion vessel capacity	l	6	6	6	6	6	6
DHW nominal heat input	kW	20,0	20,0	20,0	20,0	20,0	25,5
DHW minimum heat input	kW	18,6	18,6	18,6	18,6	18,6	23,1
DHW nominal heat output (ΔT 30°C)	kW	7,0	7,0	7,0	7,0	7,0	11,5
DHW minimum heat output (ΔT 30°C)	kW	6,0	6,0	6,0	6,0	6,0	9,9
DHW circuit working pressure (min-max)	bar	0,5-6,0	0,5-6,0	0,5-6,0	0,5-6,0	0,5-6,0	0,5-6,0
Specific DHW flow ΔT=25K	l/min	11,4	11,4	11,4	11,4	11,4	14,0
Specific DHW flow ΔT=30K	l/min	9,5	9,5	9,5	9,5	9,5	11,7
DHW temperature range	°C	35-57	35-57	35-57	35-57	35-57	35-57
DHW maximum working temperature	°C	62	62	62	62	62	62
NOx emission class	-	3	3	3	3	3	3
Casing heat loss with burner on at nominal heat input	%	1,59	1,46	1,46	1,37	1,55	1,96
Casing heat loss with burner off	%	0,31	0,25	0,22	0,19	0,16	0,11
Chimney heat loss with burner on at nominal heat input	%	9,05	7,90	7,32	6,83	5,25	6,84
Air-flue ΔT at nominal heat input	°C	101,3	101,3	101,3	101,3	101,3	125,5
Flue gas flow at nominal heat input	g/s	11,5	11,5	11,5	11,5	11,5	15,4
CO2 at nominal heat input of heating (Natural gas)	%	7,0	7,0	7,0	7,0	7,0	6,7
CO2 at nominal heat input of heating (Propane)	%	7,6	7,6	7,6	7,6	7,6	7,9
CO2 at nominal heat input of heating (Butane gas)	%	8,1	8,1	8,1	8,1	8,1	7,9
Power supply voltage/frequency	V/Hz	230/50	230/50	230/50	230/50	230/50	230/50
Maximum power consumption	W	102	102	102	102	102	102
Circulation pump power input	W	66	66	66	66	66	66
Electric protection rating	IP	X4D	X4D	X4D	X4D	X4D	X4D
Air intake/flue gas vent pipe diameter	mm	80+80 100/60	80+80 100/60	80+80 100/60	80+80 100/60	80+80 100/60	80+80 100/60

