



TC100

Oil or gas-fired
cast-iron boilers



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TC100

The **TC100** are floor-standing heat generators with high efficiency (up to the 90%) suitable for jet burners on liquid fuel (oil) or gas (natural gas or LPG), with partial flame reversal and one flue pass, cooled combustion chamber, for the production of hot water for central heating. The boiler bodies are made from G20 cast-iron elements pre-assembled using steel cone inserts and boiler studs. The quality of the cast iron used complies with the strictest European standards. The special path of the flue gas and the high exchange surface ensure both high performance and low operating noise.

RANGE

The range of outputs, from 23.3 to 93 kW over 7 different models, can satisfy any specific need for small/medium central heating systems.

APPEARANCE

The new and harmonious design, with the new control panel, give the boilers a modern and attractive appearance.

CONTROLS

Essential, but at the same time complete, including a main switch, a control thermostat, a safety thermostat with manual reset, a thermometer and designed to house a temperature control unit.

WATER-SIDE PRESSURE DROP

The pressure drop in the water circuit can be calculated using the diagram shown above, and refers to flow-rates corresponding to Δt between 10°C and 20°C.

INSULATION AND CASING

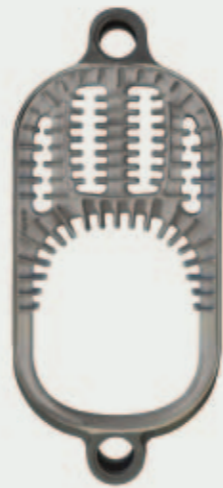
The boiler body is perfectly insulated using a 60mm thick layer of high density glass wool, supported by special tear-proof material, designed to minimise any passive heat losses. The integral casing is made from prepainted steel sheet.

MAINTENANCE

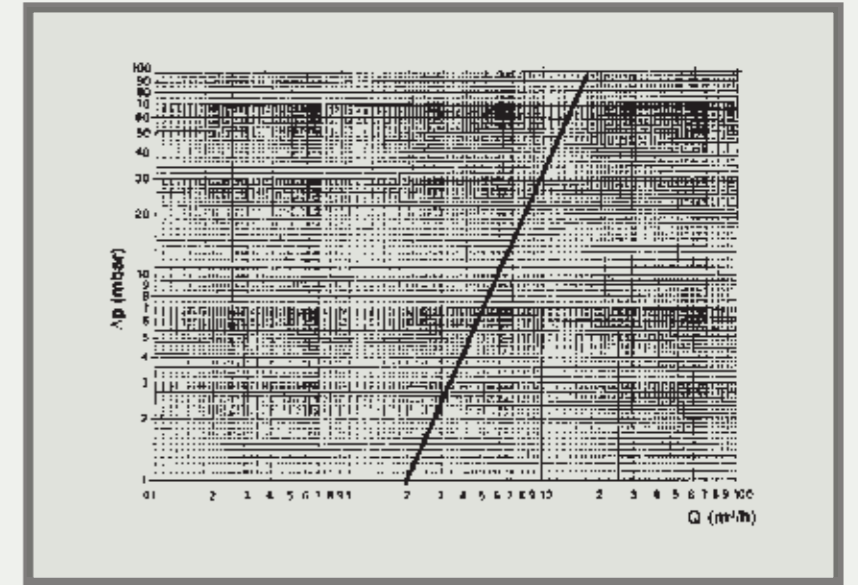
The generator can be accessed easily from the front for the normal cleaning of both the furnace and the flue gas path, so as to guarantee consistently high efficiency.

PACKAGING

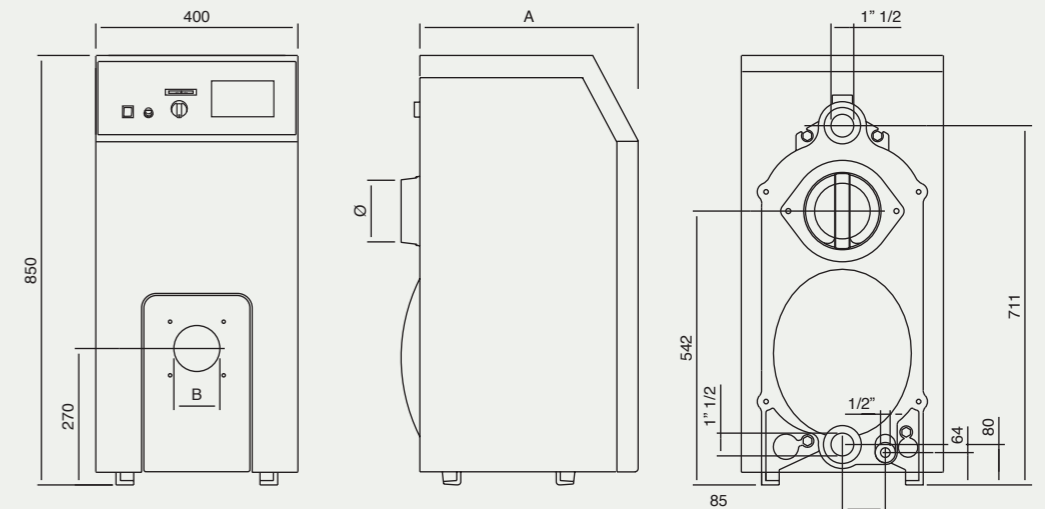
All models are delivered in a single package in a wooden crate



The middle element



Technical Data



MODELS		TC100/2	TC100/3	TC100/4	TC100/5	TC100/6	TC100/7	TC100/8
Rated heat output	kW	23,3	31,4	46,5	58,1	69,8	81,4	93,0
	kcal/h	20.000	27.000	40.000	50.000	60.000	70.000	80.000
Minimum heat output	kW	15	24,4	32,5	40,5	48,8	57	65
Rated heat input	kW	25,8	34,8	51,6	64,5	77,5	90,4	103,3
	kcal/h	22.200	29.900	44.400	55.500	66.600	77.700	88.800
Water content	litres	11	14	17	20	23	26	29
Combustion chamber length	mm	286	386	486	586	686	786	886
Operating pressure	bar	4	4	4	4	4	4	4
Pressure drop	Combustion chamber	mbar	0,2	0,2	0,2	0,2	0,2	0,2
	Water side Δt 10°C	mbar	1,0	1,8	4,2	7,2	11	15
	Water side Δt 20°C	mbar	—	—	1	1,6	2,3	3,3
Dimensions	A	mm	332	432	532	632	732	832
	B	mm	105	105	105	105	125	125
	\emptyset	mm	130	130	130	180	180	180
Index of protection		IP 40	IP 40	IP 40	IP 40	IP 40	IP 40	IP 40
Weight (empty)	kg	75	100	125	150	175	200	225

Control panel



KEY

- 1 housing for electronic control unit
- 2 thermometer
- 3 safety thermostat with manual reset
- 4 main switch
- 5 control thermostat