

The new market benchmark





The most efficient Boiler built ever.



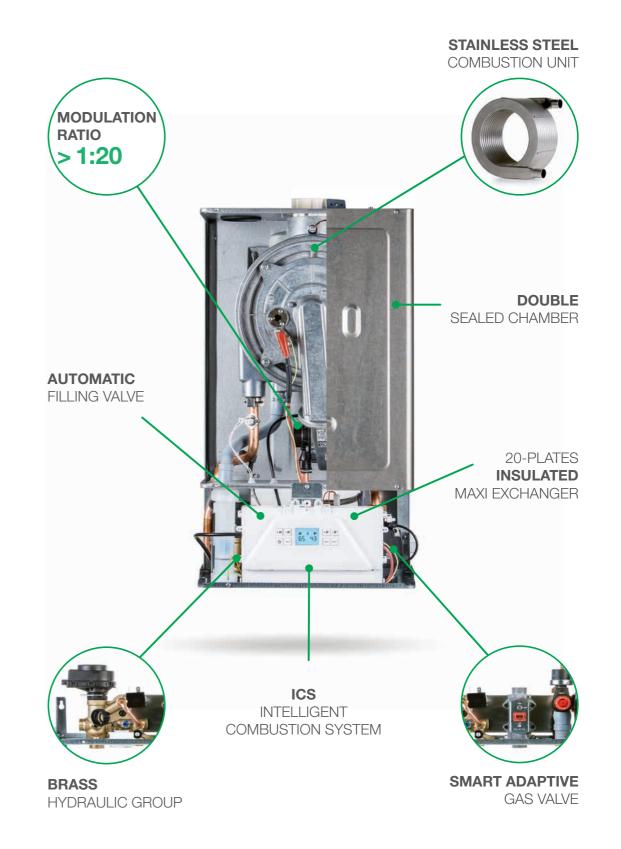




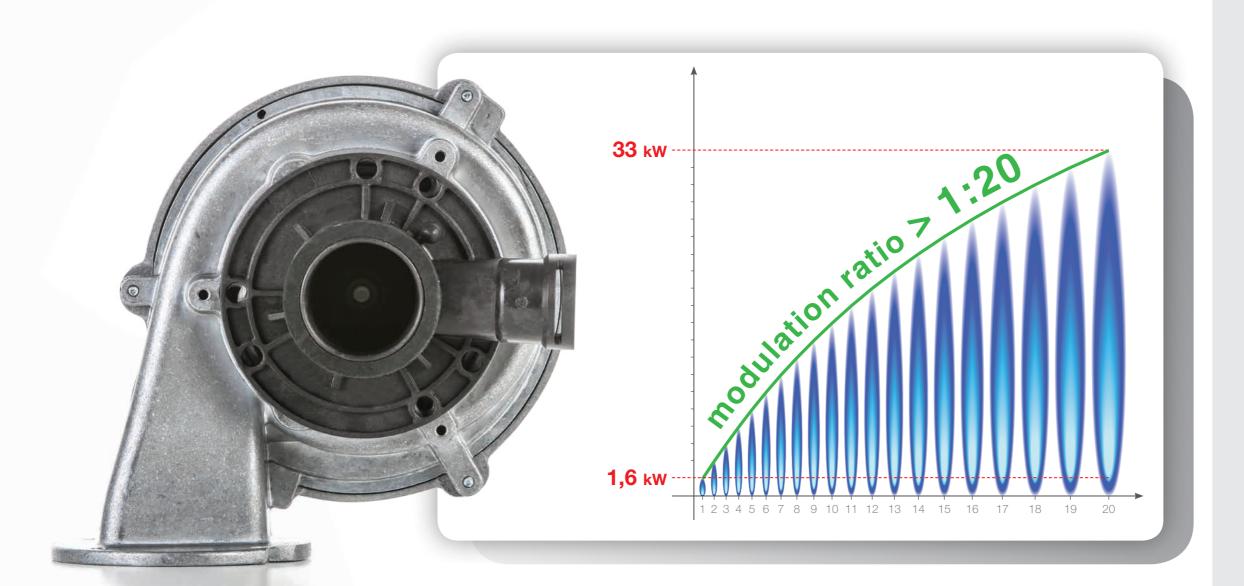












City Top is the only boiler on the market with a **modulation range higher than 1:20.**

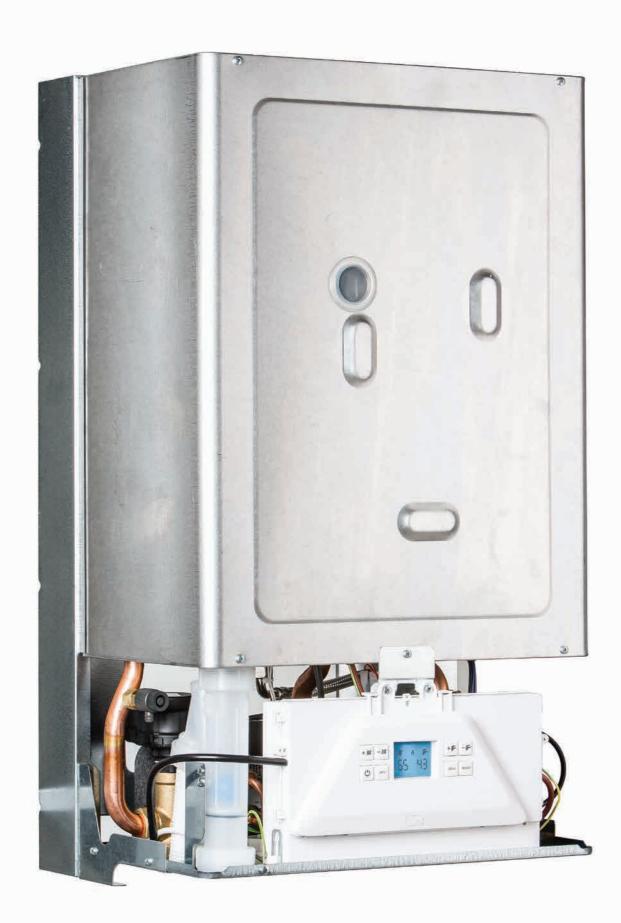
This allows:

- a reduction of ignitions and shutdowns
- silent operation
- a reduction of gas consumption and polluting emissions
- a longer life of the boiler.

City Top is the most efficient and flexible boiler on the market, able to adapt to the actual heat requirement of the system.







City Top ensures the highest safety standards in the market thanks to the double sealing of the combustion group.

The double sealed chamber, further increasing the level of safety, improves the acoustic performance of City Top inside the home.

Within this objective, Italtherm R&D, after a series of tests on various materials, has decided to coat the City

Top combustion chamber with a material having high soundproofing and noise-absorbing properties.

City Top has thus reached

the lowest noise levels in

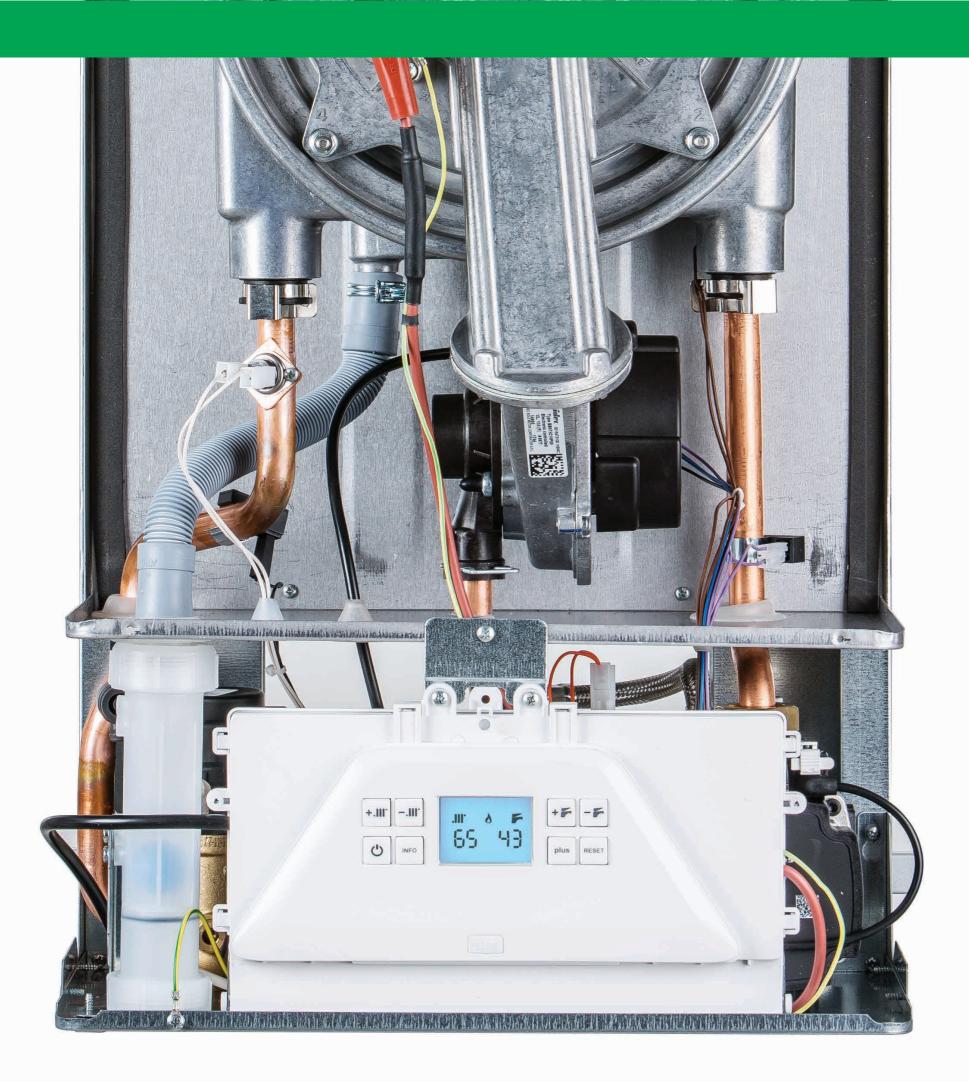
the market, to the benefit of
comfort.





Italtherm has designed and developed a new stainless steel heat exchanger with extra wide water passages: the inner section of the coils has been increased by 4 times in comparison to the market standards.

Thanks to the new heat exchanger, City Top has better thermal efficiency, better resistance to limescale and plant dirty stuff, making City Top ideal even when replacing boilers on pre-existing plants; in addition, the single coil design of the new exchanger guarantees high flow rates, low hydraulic load losses, easier cleaning and maintenance.



Italtherm has designed and developed the ICS -

Intelligent Combustion

System - a system making the City Top a smart boiler, the only boiler that controls, adjusts and fits itself independently.

The ICS - Intelligent Combustion System -

controls the combustion values and adjusts the gas flow rate in order to always get the correct air / gas ratio, thus obtaining:

- reduction of the gas consumption
- lower CO/CO2 emissions
- less installation time (there are no manual rules to run).

The City Top is a particularly efficient boiler:

- modulation ratio 1:20
- always optimum ignition
 (the system is self-tuning to operating conditions)
- perfect combustion (getting a longer boiler life for an increasingly reliable product)
- reduction of on / off cycles
 (increasing efficiency and reducing boiler noise).

Finally, thanks to the adaptive gas function, the City Top can operate with all types of gas without requiring the replacement of the nozzles (the boiler is supplied with a single product code)







Italtherm keeps using the brass on its hydraulic units to
ensure maximum reliability and
robustness of its products

The new brass hydraulic group is equipped with:

- 20-plates insulated maxi exchanger
- automatic filling valve
- external by pass
- flow regulator
- one-way valve
- high modulating pump with degasser













compact as no other technical data



MODEL		City Top 25 K	City Top 35 K
Gas type		G20	G20
Max heat input Qn	kW	25	34.9
Max heat input Heating	kW	25	33
Min heat input Qr	kW	1.6	1.6
Max heat output 60°/80°C *	kW	24.1	32.2
Min heat output 60°/80°C *	kW	1.5	1.5
Max heat output 30°/50°C *	kW	26.7	35.3
Min heat output 30°/50°C *	kW	1.7	1.7
NOx Class		6	6
EFFICIENCY		,	
Nominal efficiency (NCV) at 60°/80°C *	%	96.2	97.1
Nominal efficiency (NCV) at 30°/50°C *	%	104.4	105.1
Efficiency at 30% Qa (NCV) at 30°C	%	105.3	105.6
* return temperature / flow temperature; NCV = Net Calorific Value (= Hi) • N		l	
HEATING	.o.o. ano data word de	States with nonzontal boarial hab N	. Hiotoi
Temperature ranges (min÷max) • main zone	°C	35÷	-80
Temperature range (min÷max) • secondary zone	°C	20÷45	
Expansion vessel	1	10	10
Expansion vessel pre-load pressure	bar	1	1
.oss of water switch pressure on / off	bar	0.5 / 1.0	0.5 / 1.0
Max working pressure	bar	3	3
Max temperature	°C	90	90
Antifreeze function temperature on / off	°C	5÷30	5÷30
DOMESTIC HOT WATER	C	3-30	3-30
Flow rate at ΔT 25°C	l/min	15	19.5
Flow rate at ΔT 30°C	l/min	12.3	16.1
Min DHW flow (for DHW activation)	l/min	2.8	2.8
Min DHW pressure (for DHW activation)	bar	0.2	0.2
Max DHW pressure inlet	bar	6	6
DHW range temperature (min÷max)	°C		-
CHECTRICAL DATA	C	30 .	-00
	1/ / / /=	230V / 50	
/oltage / Frequency (nominal voltage)	V / Hz	87	
Power consumption Protection level	VV	O7	110
		IPA	טט
DIMENSIONS	49.00	400 v 70	0.2.204
Vidth - Height - Depth	mm	400 x 70 36.8	36.8
Veight	kg	30.0	30.0
CONNECTIONS Provided 6 50 (100 mm, may longth (inlet / outlet)	200		
Coaxial Ø 60/100 mm max length (inlet / outlet)	m	10	
Split Ø 80 mm max length (inlet / outlet)	m	62	
Split Ø 60 mm max length (inlet / outlet)	m	18	<u></u>
AS PRESSURE INLET	,		
lominal pressure	mbar	20	
nlet pressure (min÷max)	mbar	17-	25
ETP DATA SHEET			
NUM dealared load profile		XL	XXL
-	1		
DHW declared load profile Seasonal heating energy efficiency class		А	A
	(η _s) %	A A 9	А



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