

Integrated Solutions

TORRENT[®]
ECO

B



**Output up to
97.0%**

From 24 kW up to 1400 kW

Sun

Galaxy

Matrix

Star

Megastar

Rebuild the future!

**TORRENT**[®]
Cast Iron Boilers

New generation high efficiency boilers

New generation **TORRENT** boilers meet the most recent regulations, both in terms of **fuel oil** as well as **natural gas**, while the product range ensures energy saving and high performance. A boiler's efficiency is rather important for reducing consumption and energy saving. New generation **TORRENT** boilers are suitable both for new installations, as well as for improving/upgrading existing installations.

New generation **TORRENT** boilers meet all requirements and are available in four different models, **Sun, Galaxy, Matrix, Star & Megastar**, according to the needs of each individual installation.

High efficiency, energy and cost saving

- ✓ Certification according to ErP 2015, Conformance to the new European Regulations
- ✓ Maximum fuel efficiency
- ✓ Environmentally friendly
- ✓ Rated efficiency over 97%
- ✓ High performance in affordable and competitive prices



"According to research conducted in the United Kingdom, 22 million households consumed 380 TWh for heating and warm water with fuel oil and gas boilers, while if condensing boilers had been used, a saving of up to 57 TWh per year could have been achieved, while reducing carbon dioxide (CO₂) emissions by 13 million tonnes per year."¹

¹<http://www.energyadvisoryassociates.co.uk/resources/facts-and-figures/>

Environmental awareness, stability and reliability

- ✓ Fuel saving, protecting the environment.
- ✓ Reduced carbon dioxide (CO₂) emissions, sulfur dioxide (SO₂) reduced up to 80% and nitrogen oxides (NO_x) up to 50%, all pollutants responsible for damaging forest via acid rain.
- ✓ Manufactured in Europe, where environmental standards are more strict and fuel prices are higher, they provide high efficiency and a consistent, reliable solution that **lasts a lifetime**.

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Control Panels

New generation **TORRENT** boilers provide a wide selection of control panels, which ensure full control and safe operation, according to the needs of each individual heating installation. Instrument panels are certified according to European specifications EN 60730-1:1993 and EN 60730-2-1:1989.

One-stage control panel

Provides full control and safe operation at low cost. Includes two distance thermostats (for the burner and the circulator) with operation indicators, a safety thermostat, a thermometer and an on-off switch with light indicator.



Two-stage control panel

Includes all necessary equipment for full control and safe operation of the heating installation, in two-stage partial or full operation. Includes integrated hour meters and exhaust gas and water thermometers, as well as an overheating test switch, in order to meet most needs.



Comfort Control Panel

Provides central heating control with environmental temperature compensation, by directly acting on the boiler via an ON-OFF control switch. Moreover, it provides scheduling features with 6 special time periods, as well as an ECO/NIGHT function, for even more cost efficient operation. Can be connected with up to three inlet sensors. Provides the ability to take advantage of dynamically variable energy sources, such as fireplaces, solar collectors, etc.



Super Comfort Control Panel

Provides central heating control with environmental temperature compensation, by acting on a three-way or four-way progressive mode valve, or directly on the boiler. It also provides scheduling features with 6 special time periods, as well as an ECO/NIGHT function for even more cost efficient operation. Can be connected with up to three inlet sensors, providing the ability to take advantage of dynamically variable energy sources, such as fireplaces, solar collectors, etc.



TORRENT ECO High Efficiency Boilers SUN-GALAXY-MATRIX-STAR-MEGASTAR

Technical characteristics

Type No. of elements	Nominal power according to ErP 2015		Maximum power output according to EN 303-2	Water content	Operating pressure	Boiler length	Chimney diameter/ chimney center	Weight
	kcal/ h	kW	kcal/ h	lt	bar	mm	Φ/ mm	kg
SUN								
SUN 4	17.196	20,0	41.255	22.5	4	555	Φ 150/ 477	170
SUN 5	20.636	24,0	51.204	19.0		655	Φ 150/ 477	199
SUN 6	30.095	35,0	61.101	23.0		755	Φ 150/ 477	226
SUN 7	37.833	44,0	69.828	25.0		855	Φ 150/ 477	256
GALAXY								
GLX 4	20.199	23,5	50.499	23.0	6	661	Φ 150/ 400	212
GLX 5	31.161	36,2	62.485	29.0		782	Φ 150/ 400	249
GLX 6	48.151	56,0	74.592	35.0		903	Φ 180/ 400	290
GLX 7	64.488	75,0	91.178	41.0		1024	Φ 180/ 400	330
GLX 8	73.946	86,0	107.902	47.0		1145	Φ 180/ 400	369
MATRIX								
MTX 5	94.583	110,0	129.407	67.0	8	925	Φ 250/ 567	529
MTX 6	107.480	125,0	165.004	80.0		1055	Φ 250/ 567	610
MTX 7	124.677	145,0	198.280	93.0		1185	Φ 250/ 567	863
MTX 8	137.575	160,0	229.493	106.0		1315	Φ 250/ 567	760
MTX 9	150.473	175,0	260.017	119.0		1445	Φ 250/ 567	834
MTX 10	171.969	200,0	290.026	132.0		1575	Φ 250/ 567	907
STAR								
STAR 6	120.378	140,0	186.930	73.0	8	998	Φ 250/ 420	726
STAR 7	154.772	180,0	238.005	85.0		1131	Φ 250/ 420	832
STAR 8	189.166	220,0	288.908	97.0		1264	Φ 250/ 420	931
STAR 9	223.560	260,0	344.798	109.0		1397	Φ 250/ 420	1.029
STAR 10	253.654	295,0	484.093	121.0		1530	Φ 250/ 420	1.127
STAR 11	297.450	325,0	429.923	138.0		1663	Φ 250/ 420	1.225
MEGASTAR								
MS 7	Do not fall under regulation 813/ 2013.		431.298	305.0	8	1440	Φ 350/ 600	2,015
MS 8			515.907	350.0		1620	Φ 350/ 600	2,260
MS 9			593.293	395.0		1800	Φ 350/ 600	2,510
MS 10			670.679	440.0		1980	Φ 350/ 600	2,715
MS 11			748.065	485.0		2160	Φ 400/ 600	2,960
MS 12			825.451	530.0		2340	Φ 400/ 600	3,210
MS 13			911.436	575.0		2520	Φ 400/ 600	3,450
MS 14			997.420	620.0		2700	Φ 400/ 600	3,695
MS 15			1.100.602	665.0		2880	Φ 400/ 600	3,940
MS 16			1.203.783	710.0		3060	Φ 400/ 600	4,185

Seasonal efficiency up to 87%.


Boiler width x height (mm): Sun 480x760, Galaxy 520x880, Matrix 770x1168, Star 818x1028 & Megastar 1150x1428.

For optimal performance with TORRENT boilers, we suggest using Comfort or Super Comfort instrument panels with compensation.

Reliable boilers with MAXIMUM energy efficiency

Boiler design: Robust and user-friendly

- ✓ Easy, fast installation and low operational cost.
- ✓ **GG20 quality cast iron boiler (body)** according to DIN 1691 and three complete exhaust gas routes in every element.
- ✓ **Fins**, their design increases heat exchange surface when operating in low temperatures.
- ✓ The **door of the combustion chamber** can be opened both left and right, in order to facilitate access for cleaning and maintenance.
- ✓ **Resistance to thermal shock** as it has been designed and manufactured with cast iron with elastic properties and extremely high resistance to mechanical stress.
- ✓ Excellent **thermal insulation with ceramic blanket**, between 50mm and 90 mm, ensuring lower heat loss to the environment and increasing boiler efficiency.
- ✓ All models are suitable for use with **fuel oil or gas**.
- ✓ Long-term durability
- ✓ **10 year guarantee**

	Seasonal efficiency up to 87.0%	Class B
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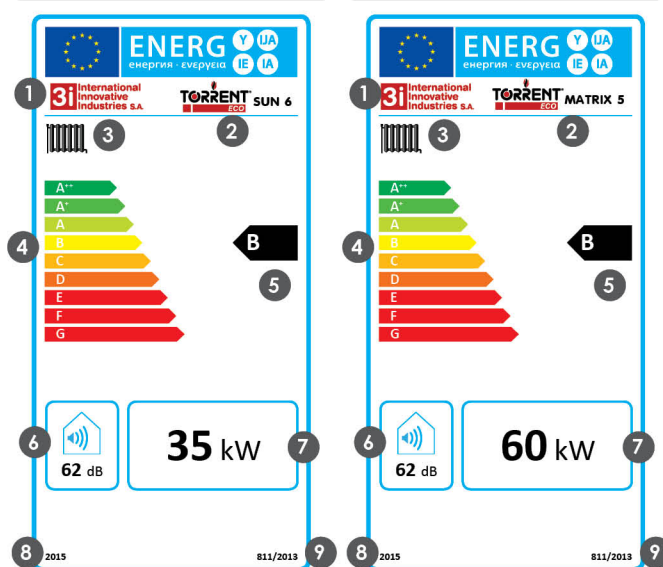
TORRENT boilers have been designed and developed in order to achieve maximum resistance and high thermal efficiency, according to German specifications DIN 1691 & DIN 4702, European Standards EN 304, EN 303-1, EN 303-2 & EN 303-3, as well as European Regulations 811/2013 for Directive 2010/30/EU & 813/213 for Directive 2009/125/EC.



From September 26th, 2015, directive Ecodesign, also known as ErP, has been in effect in the EU, according to regulations 811,812,813 and 814/2013, as well as directives 2009/125/EC and 2010/30/EU of the European Commission. This directive aims at reducing energy consumed for heating and pollutants emitted, as well as providing complete and clearer information to the consumer regarding the performance of the heating products. According to the aforementioned directive, **convective boilers can still be used in existing heating installations, as well as for the replacement of identical boilers.** However, new generation, highly energy-efficient boilers must be used in new installations.



Label instructions



1. Manufacturer
2. Trademark, boiler model & type
3. Heating function
4. Energy rating
5. Energy class
6. TORRENT boiler noise level
7. TORRENT boiler heat output
8. Regulation validity date
9. Directive No.

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