





TReVAPOR GT









DESCRIPTION

TReVAPOR GT is a **Low Nox boiler with 72-hour exemption** that guarantees high performance and reliability over time thanks to the perfect integration of its components, including the innovative **NeOX burner**. It is managed thanks to a single user interface with simple and user-friendly graphics and the possibility of remote control via standard **ModBus** protocol or **eterm** platform.

FEATURES

-  **Design pressure: 12 bar**
-  **Heat output: 818 ÷ 4088 kW**
-  **Steam capacity: 1200 ÷ 6000 kg/h**
-  **Efficiency: 90,5 %**
Efficiency with economiser: **95,0 %**
Emissions that can be obtained: **NOx < 100 mg**

ADVANTAGES

-  **Guarantee of performance and reliability**
Designed, guaranteed and certified as a whole unit by ICI CALDAIE, can be monitored through a single user interface both locally and remotely.
-  **High performance**
Maximum seasonal efficiency is guaranteed as the system adapts in real time to changing environmental variables.
-  **Easy installation**
A compact design means more living space. All components are assembled and tested at the factory before shipment.
-  **Low maintenance costs**
Combustion is controlled (in compliance with Italian Legislative Decree 183/2017) without the O₂ probe and requires no maintenance or replacement of parts. Adjustments can be made in just a few minutes using a fully automated system.
-  **High level of safety in the plant room**
Designed to ensure that all external parts are at temperatures lower than 50°C.
-  **Configurable to specific requirements**
A wide range of optional accessories are available to customize the product to meet specific requirements.

AVAILABLE CERTIFICATIONS



RECOMMENDED TECHNOLOGIES



MAIN APPLICATIONS

- ⊕ Paper industry
- ⊕ Chemical and pharmaceutical industries
- ⊕ Tanning industry
- ⊕ Manufacturing industry
- ⊕ Food and beverage industry
- ⊕ Hospitals
- ⊕ Meat processing
- ⊕ Heavy industry
- ⊕ Distilleries
- ⊕ Petrochemical industry
- ⊕ Beer industry
- ⊕ Dairy Industry
- ⊕ Wine farms

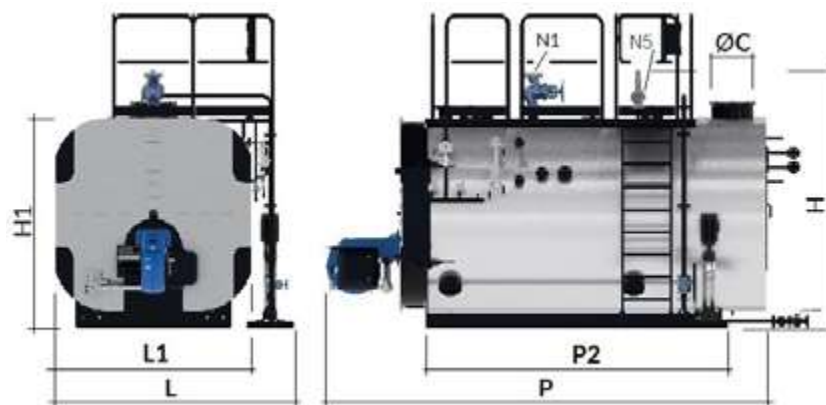
TECHNICAL DATA

Model	Heat Output	Flow thermal	Steam capacity *	Total volume H2O	Flue gas pressure drop	Gas consumption	Diesel fuel consumption	Nafta consumption	Empty weight *
TREVAPOR GT	kW	kW	kg/h	lt	mbar	Nm3/h	kg/h	kg/h	kg
1200	818	904	1200	2300	9.8	92.5	76.2	80.1	5700
1500	1022	1129	1500	3650	4.8	115.6	95.2	100.1	6300
2000	1363	1506	2000	4450	7.9	154.2	127	133.5	7050
2500	1703	1882	2500	5500	8.6	192.7	158.7	166.9	8950
3000	2044	2259	3000	6400	11.5	231.3	190.4	200.3	10050
3500	2385	2635	3500	7780	7.4	269.8	222.2	233.6	10550
4000	2726	3012	4000	8800	11.2	308.3	253.9	267	11950
5000	3407	3765	5000	9730	9.9	385.4	317.4	333.8	13550
6000	4088	4518	6000	10980	13.5	462.5	380.9	400.5	14750

* steam capacity with feed water at 80 °C

* empty weight refers to the model with single pump 12 bar

DIMENSIONS



Model	H	L	L2	P	P2	ØC	N1	N5
TREVAPOR GT	mm	mm	mm	mm	mm	mm	DN/in	DN/in
1200	2260	2065	1200	4638	2438	350	65	25
1500	2570	2370	1500	4684	2442	400	80	25
2000	2641	2370	1500	5296	2942	400	80	32
2500	2641	2370	1500	5385	2942	450	100	32
3000	2844	2595	1700	5885	3442	450	100	32
3500	3041	2770	1900	6299	3442	550	100	32
4000	3108	2770	1900	6797	3942	550	100	40
5000	3351.79	2925	2050	6797	3942	600	125	40
6000	3351.79	2925	2050	7357	4442	600	125	40

STANDARD EQUIPMENT

Accessories on the steam side, including:

- Steam outlet/crown valve
- 1 spring safety valve up to model 2500 (n°2 for higher models)
- Reflex level indicator gauge
- Level indicator guage drain and shut-off valve unit

Monitoring instrumentation, comprising:

- Large dial 3 way test valve manometer
- Manual reset safety pressure switch
- Analogue pressure transducer

Feed water delivery system containing:

- 1 vertical multi-stage centrifugal electric pump for water at 120°C
- 1 shut-off globe valve
- 2 non-return valves

Blow down system comprising:

- Purge shut-off valve
- Rapid opening drain ball valve, with steel body, pneumatic actuator and return spring equipped with compressed air solenoid valve

Level adjustment unit containing:

- Capacitive probe for level control and management
- 1st alarm and burner shut off probe for low level with self-checking
- 2nd alarm and burner shut off probe for low level with self-checking
- High level safety probe

Pneumatic salinity control unit TDS:

For TReVAPOR GT 800 + 2000 models

Salinity control unit TDS electrical light containing:

- Conductivity probe with measurement chamber
- Drain solenoid valve
- Filter
- 2 shut-off valves
- Non-return valve
- Electric regulator on board of control panel

For TReVAPOR GT 2500 + 6000

Electric or pneumatic TDS salinity control containing:

- Conductivity probe
- Salinity regulation and control unit
- Electric or pneumatic blowdown system complete with shut-off valves
- Electrical controls in general control panel of the boiler
- Mechanical and electric parts

Sample cooler containing:

- AISI 304 barrel with an internal water-cooling coil
- Cooling water injection ball valve
- Handwheel valve for sampling
- **Boiler control panel**, IP 55 protection grade, painted steel cabinet version, connected to the boiler trough pins, including internal certified safety circuits, controllers and management PLC and featuring main disconnecting switch and alarm reset button at the operator panel front side.

PRODUCT CODES

Model	Code
TReVAPOR 1200 GT	87741210
TReVAPOR 1500 GT	87741510
TReVAPOR 2000 GT	87742010
TReVAPOR 2500 GT	87742510
TReVAPOR 3000 GT	87743010
TReVAPOR 3500 GT	87743510
TReVAPOR 4000 GT	87744010
TReVAPOR 5000 GT	87745010
TReVAPOR 6000 GT	87746010

ACCESSORIES AVAILABLE FOR THE RANGE

Code	Description	12 bar
		1 pump
See "Accessories" section	Standby feed water pump	■
See "Accessories" section	Modulating level regulation with electric valve	■
39050001	Modulating level regulation with pump + inverter	■
39050100	Modulating feed of electrical two-way valve and pump with inverter	■
90060105	Ladder and handrail for TReVAPOR boilers	■
90060090	Side platform	■
QCTETERM	Eterm Easy manager panel	■

COMPONENTS FOR HEATING PLANT ROOM COMPATIBLE WITH THE RANGE



ECO-T
Economiser for steam boilers series TReVAPOR
ECO-TN
Economiser for steam boilers series TReVAPOR



ADD
Feed water treatment unit for steam boilers



VRC
Condensate collection tank



BDV
Blowdown vessel



VRC-V
Condensate collection tank



VEX
Steam accumulator



DEG
Atmospheric deaerator



DEG/P
Pressurised deaerator