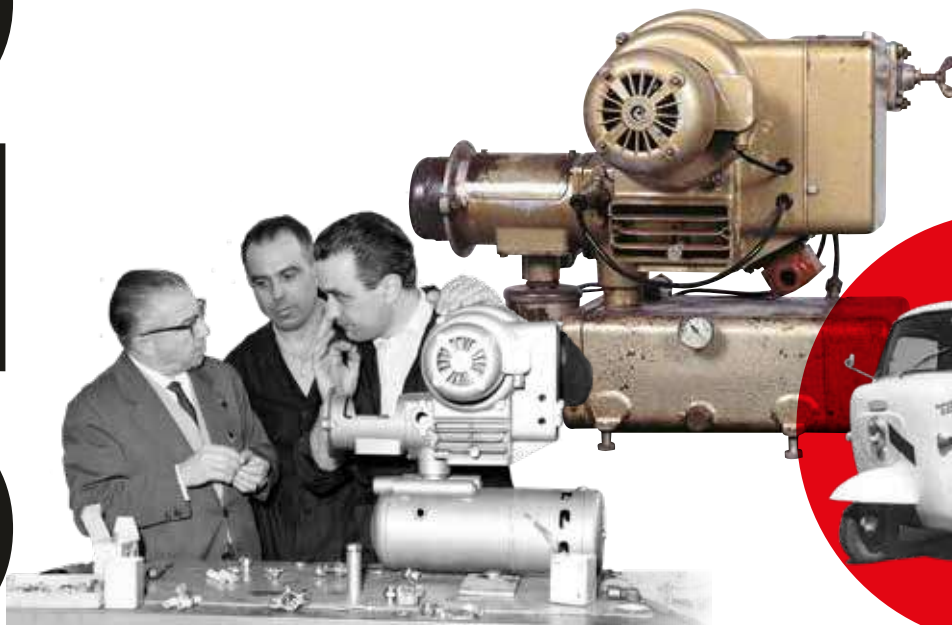




75   
1950 - 2025  
**baltur**

for 75 years  
Energy for the People

1950  
2005  
2025



**1950**

Ballanti and Tura establish Baltur S.r.l. The company produces oil burners for residential use

**1960**

The Fava family joins the company and builds the new factory



## 75 YEARS OF INNOVATION, THE E

**2007**

Initiating the conversion of business processes to the logic and techniques of Lean Management and Industry 4.0

**2015**

R&D is equipped with an ISO 1800 (25 MW) tube, the largest in the world



**2004**

The new TB burner range built on an automated line is born



**2012**

8000 kW burner development



**1990**

Baltur launches  
the first split-head  
burners



**1995**

Low NOx burner  
production



**1994**

Baltur is among the  
first Italian companies  
to obtain ISO 9001  
certification



**2000**

Baltur inaugurates its  
office in Shanghai

**ENERGY TO ALWAYS LOOK AHEAD**

**75**  
1950 - 2025



**2019**

Inauguration of the new  
R&D laboratory and  
automated production  
line for industrial burners

**2021**

New Super Low NOx  
burners



**2023**

New biogas/syngas  
multi-fuel burners



**2024**

New burners operating with  
a mixture of methane and  
hydrogen

**2025**

New burners with  
integrated motor  
inverter, class IE5



The background of the entire page is a photograph of industrial machinery, likely a large pump or compressor. The top half of the image is in grayscale, showing various pipes, valves, and electrical control panels. The bottom half of the image is overlaid with a solid red color, which serves as a backdrop for the quote and the CEO's name. The machinery appears to be part of a large-scale industrial system, possibly for water treatment or power generation.

# ITALY IS OUR HEART, **THE WORLD** IS OUR HOME

“

Since 1950, Baltur has been a reference point in climate technologies. 75 years during which we have developed increasingly efficient and environmentally friendly products.

”

**Dr. Riccardo Fava**  
CEO and General Manager

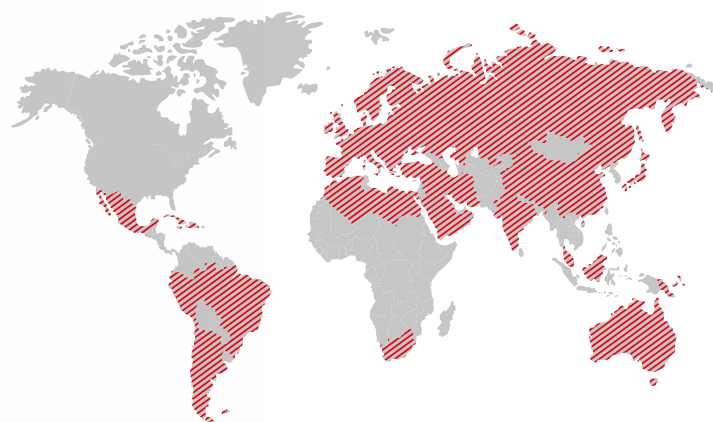


## Baltur network: a family that speaks all the languages of the world

Baltur flexible and competitive company that's capable of managing its international relationships in an entirely informal manner.

### OUR NETWORK:

Production site	<b>100% MADE IN ITALY</b>
Branch	SHANGHAI



# 60 countries

around the world have chosen  
Baltur technologies



# INNOVATE FOR A RESPONSIBLE ENERGY MANAGEMENT

Every year we invest new resources in our Research and Development laboratories in order to innovate, reduce environmental impact and make the entire product range more efficient and effective.

## 50 MW TEST POWER

**14 test stations  
for burners**

(CEN ISO test tubes and boilers)

**3 test stations for free  
standing boilers**

Up to 2 mw

**1 test stations  
for burner fans**

Up to 30.000 m<sup>3</sup>/h

**1 test stations for free  
standing boilers**

Up to 10 mw

Huge investments for medium/high power burners  
Constant development of alternative fuel burners



## NEW R&D LABORATORY, TECHNOLOGY AND DESIGN MADE IN ITALY

**New combustion technologies, new materials, remote monitoring and transmission of operational parameters, applied to the development of ultra-low emission burners for the most energy-intensive industrial sectors. Every year we invest new resources in the research and development laboratory to conduct continuous tests and experiments on burners up to 50 MW of power.**

Baltur has been able to bring Italian taste into its solutions, offering reliable and high-performance products and made in Italy with the best technologies and the utmost attention to detail, compact and elegant in design.

This combination of innovation and “Made in Italy” design has allowed the company to establish itself as a leader in its sector, exceeding customer expectations with ever-improving products.



# IN A CHANGING WORLD, WE ANTICIPATE THE FUTURE

Baltur's quality progresses day by day through continuous investment. Application engineering and pre-sales offices support customers with tailor-made burners and specific applications, both for large industrial plants and small thermal energy generation systems.

**2 Mln €**

Investment in new automated  
production line

**50 MW**

test power

**7,4 Mln €**

Investment in new R&D laboratory

**30.500 sqm**

area





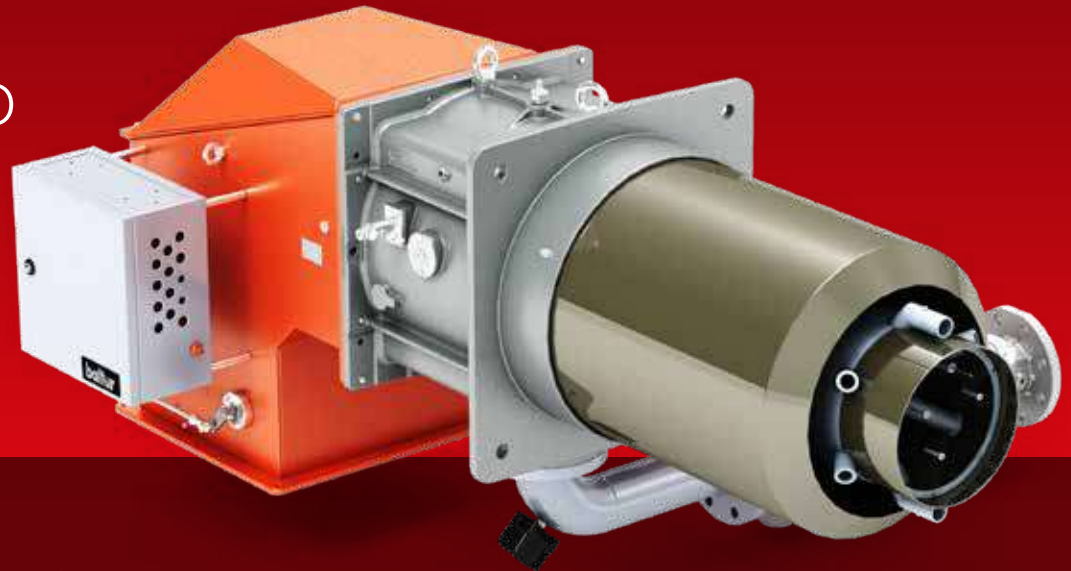
## MAXIMUM CUSTOMARE FOCUS

**Baltur has always placed customer service at the heart of its business philosophy, offering comprehensive support both during the pre-sales and the after-sales stages. Our team is always ready to provide tailored solutions, technical assistance, and training providing high-quality service sets us apart and strengthens our relationships with our customers.**

Baltur's offer is tangible proof of its commitment to environmental sustainability. This comes from the company's working method aligned with the principles of Lean Management and Industry 4.0. They use advanced methodologies that reduce waste and improve the performance of company processes and services. The aim is to manage energy rationally and efficiently, respecting people and the environment.

# IB SERIE INDUSTRIAL DUAL-BLOCK

## BURNERS WITH SEPARATED FAN



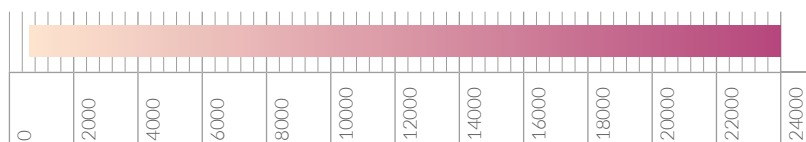
**IB serie:**  
standard, FGR, SLX,  
high temperature operation for industrial application

**T**he IB burner serie has been designed to meet the most demanding request of industrial applications. The maximum flexibility of configuration thanks to

the modular design concept enables the IB burner to be the best solution for a variety of industrial applications. The IB burner is composed by different functional blocks:

- Combustion head
- Ventilating unit
- Control panel
- Gas valve train (for gas applications)
- Pumping skid (for liquid fuel applications)
- High modulation ratio up to **1:10**.
- Available with **different fuel type**: gas, light oil, LPG, biogas and dual fuel.
- **Super Low NOx** and **FGR version**.
- Available with O<sub>2</sub> and CO control system: for optimal combustion.
- Combustion air temperature: standard construction up to 50°C.
- Special construction for air temperature operation at **250°C**.
- Flexible **air inlet** position: from above, below, right or left.
- **Easy maintenance**: maintenance operations are quick and easy. The large lid opening grants total accessibility to the mixing head and internal components.

THE IB SERIE INCLUDES 8 MODELS FULLY CUSTOMIZABLE, FROM **200 KW** TO **24000 KW**





# TBR SERIE

## INDUSTRIAL DUAL-BLOCK BURNERS

### WITH ADJUSTABLE FLAME GEOMETRY



**TBR serie:**  
standard, FGR, pre-heater  
air versions, tailor-made burners

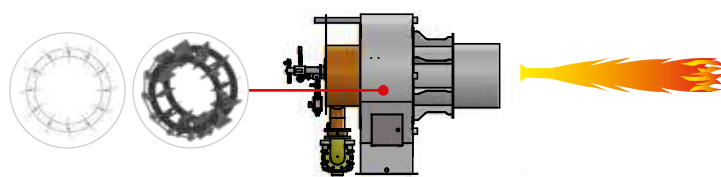
**T**he new TBR serie features an innovative design and a very functional.

Burner's body made with special steel and painted to ensure greater protection and preservation over the years.

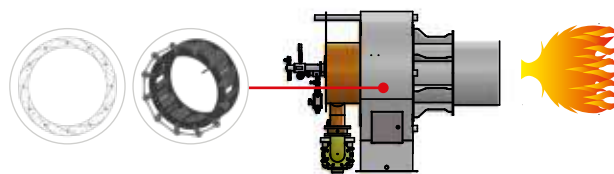
- **Adjustable flame shape** (diameter-length) to adapt it to the furnace geometry.
- Modulation ratio up to **1:8**.
- Available with **different fuel type**: gas, light and heavy oil, LPG, biogas, dual fuel (gas-light oil, gas-heavy oil).
- ME version.
- Easy combustion **head extraction** system.
- Flame sensor for **continuous operation**.
- Version for pre-heated combustion air **up to 250° C**.

These burners are equipped with electronic control that allows a precise regulation of the air-fuel mix, reducing energy consumption.

Burners are designed to be installed on the heat generator in several directions, up and down.

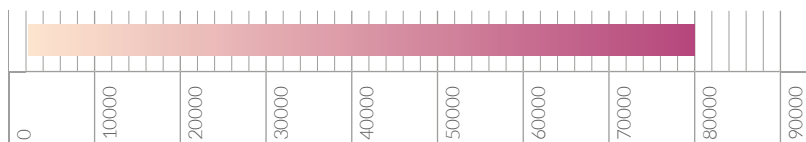


**90° angle** Radially positioned dampers, minimum air turbulence. Long, narrow flame.



**20° angle** High dampers inclination, strong air turbulence. Short, wide flame.

TBR RANGE FROM 500 KW TO **80000 KW**



# TBG SERIE

## BIOGAS AND SYNGAS BURNERS



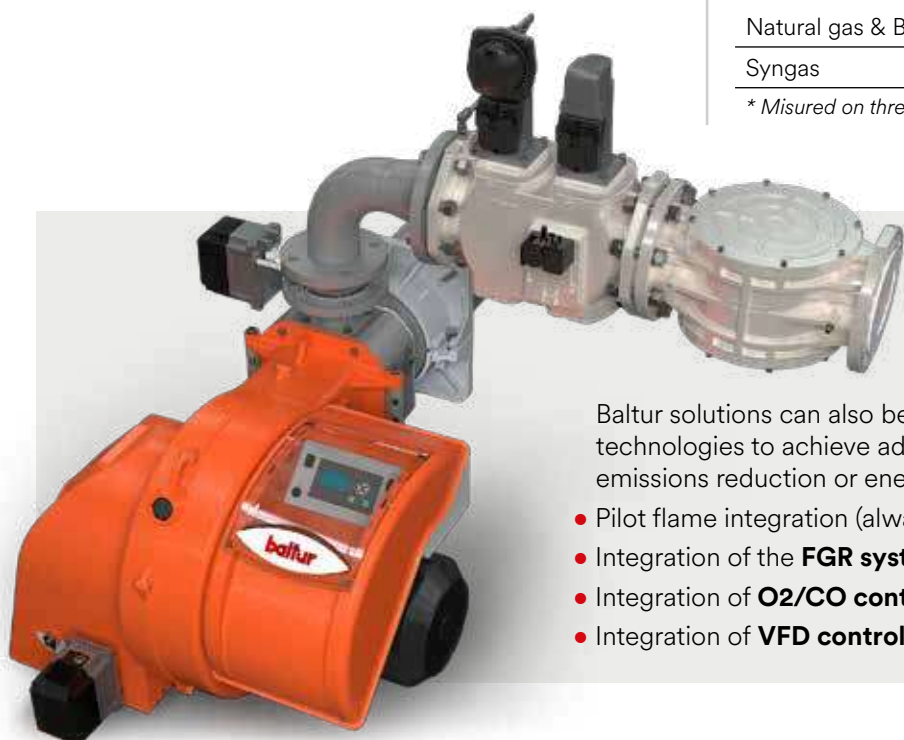
Innovative with  
alternative energy sources

**T**hanks to the design of the combustion head, Baltur burners are able to process biogas and syngas with power calorific value as low as 3.4 kWh/Nm<sup>3</sup>, while ensuring stable performance.

Baltur burners can ensure low NO<sub>x</sub> emissions for both natural gas and biogas/syngas as follows:

FUEL	EMISSION LEVEL
Natural gas & Biogas	<b>NO<sub>x</sub> &lt; 100 mg/kWh*</b>
Syngas	<b>NO<sub>x</sub> &lt; 200 mg/kWh*</b>

*\* Measured on three-pass steam generator*



Baltur solutions can also be integrated with innovative technologies to achieve additional goals in the areas of safety, emissions reduction or energy savings. These are:

- Pilot flame integration (always present for Syngas applications).
- Integration of the **FGR system** to further reduce NO<sub>x</sub> emissions.
- Integration of **O<sub>2</sub>/CO control** to provide further fuel economy.
- Integration of **VFD control** to ensure further energy savings.



# TBG SLX SERIE

## SUPER LOW NOX (FIR) GAS BURNERS



NOx emissions  
**<30/50 mg/kWh**

**PATENTED**



**TBG SLX:**  
stability, performance  
and Super Low NOx emissions

**T**he new concept of combustion head is designed to ensure the **maximum stability and performance with ease of operation.**

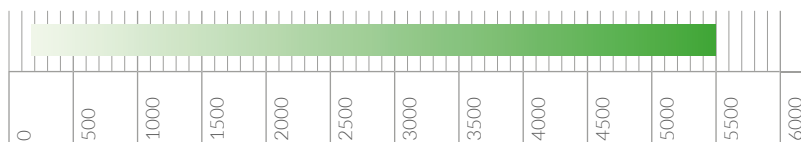
### FEATURES

- **New head design** with double distribution system.
- Independent gas regulation over two channels.
- **Hinged-opening** for a facilitated maintenance.
- Programmable **electronic cam**.
- Available in combination with inverter and **O<sub>2</sub>/CO sensor**.
- Suitable for **72 h continuous operation**.
- **LPG** operation.

### BENEFITS

- Granted **NOx emission** < 30/50 mg/kWh.
- **Lower electrical consumption**.
- Higher combustion efficiency and fuel saving.
- Allows you to **adapt the thermal power** plants without replacing the boiler

THE TBG SLX RANGE INCLUDES 5 MODELS FROM **165 KW** TO **5500 KW**



# BTG - TBG - BPM SERIE

## GAS BURNERS



Wide range for every needs

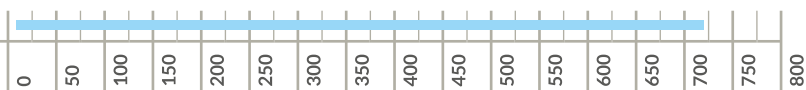
- **From 22 kW up to 22000 KW** available in different variant.
- Possibility to add the **inverter** frequency converter as available with **O2 and CO control system**, for optimal combustion.
- **Long head kit**, to adapt burner for specific installation.
- **Low NOx.**
- Available with electronic or mechanical cam.

### CONFORM TO:

GAR DIRECTIVE 2016/426/CE |  
E.M.C. DIRECTIVE 2014/30/UE | L.V.  
DIRECTIVE 2014/35/UE | MACHINERY  
DIRECTIVE 2006/42/CE | REFERENCE  
STANDARD EN676.

#### PREMIX

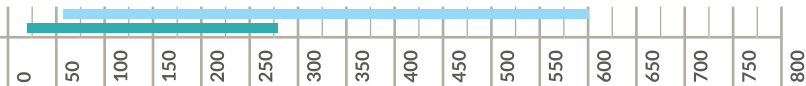
kW



Low NOx

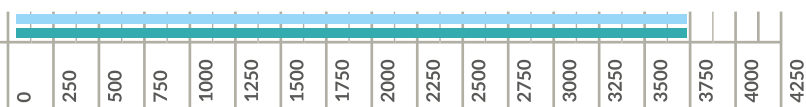
#### SINGLE - STAGE

kW



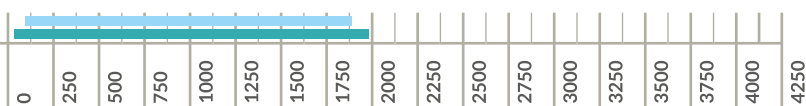
#### TWO - STAGE PROGRESSIVE

kW



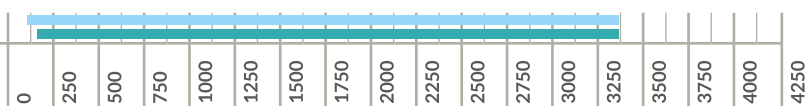
#### TWO-STAGE

kW



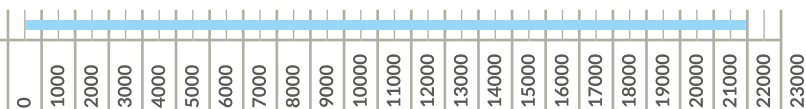
#### MODULATING

kW



#### INDUSTRIAL

kW





# TBML - TBMN SERIE

## DUAL FUEL

### BURNERS



Gas/Light Oil  
Gas/Heavy Oil

- From 100 kW up to 20000 KW.
- Two configurations: two-stage both gas and oil, or modulating with **electronic cam** on gas side and **two stage** on the oil side.
- Two combinations: **gas** and **light oil** or **heavy oil**.
- **Manual switch** from first to second fuel.
- Modulating ratio up to **1:10**.

#### CONFORM TO:

E.M.C. DIRECTIVE 2014/30/UE | L.V. DIRECTIVE 2014/35/UE | MACHINERY DIRECTIVE 2006/42/CE | REFERENCE STANDARD EN676.

#### TWO-STAGE (LIGHT OIL)

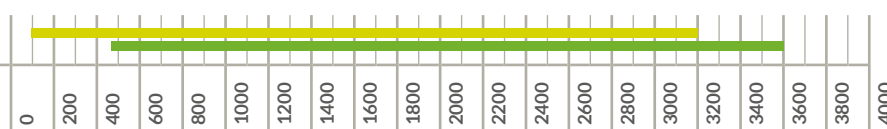
kW



**Low NOx**  
gas side

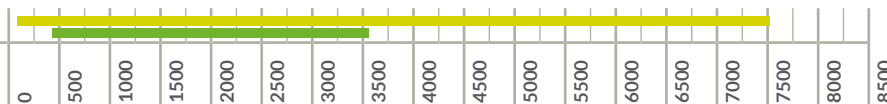
#### TWO-STAGE PROGRESSIVE (LIGHT OIL)

kW



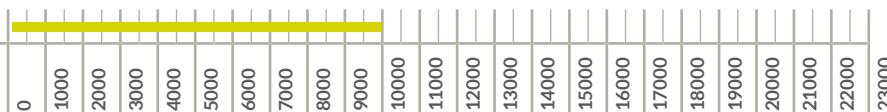
#### MODULATING (LIGHT OIL)

kW



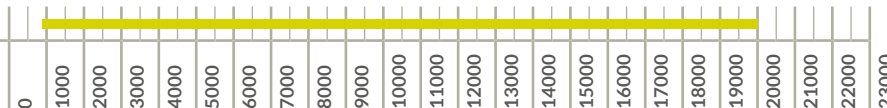
#### MODULATING (HEAVY OIL)

kW



#### INDUSTRIAL (LIGHT OIL)

kW



# BT - BTL - TBL SERIE

## LIGHT OIL

### BURNERS



Several choices for one certainty

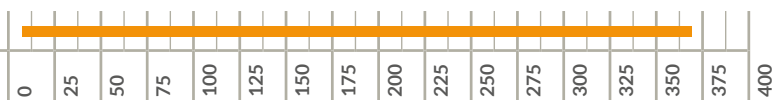
- **From 16 kW up to 12000 KW.**
- **Long combustion head** available on request.
- Version with preheater for light oil.
- **Fully closing air damper** or shutdown to avoid loss of heat through the chimney.
- **Low NOx version** from 150 kW to 750 kW (cass 3).
- Available with **hydraulic jack, electronic or echanical cam.**

#### CONFORM TO:

E.M.C DIRECTIVE 2014/30/UE  
| L.V. DIRECTIVE 2014/35/EU |  
MACHINERY DIRECTIVE 2006/42/CE |  
COMMISSION REGULATION  
ERP 2013/811/UE | REFERENCE  
STANDARD EN267.

#### SINGLE-STAGE

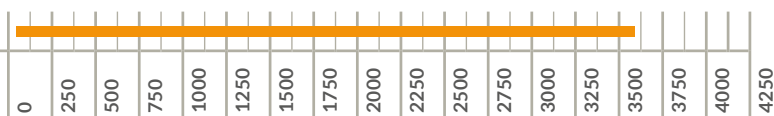
kW



Low NOx

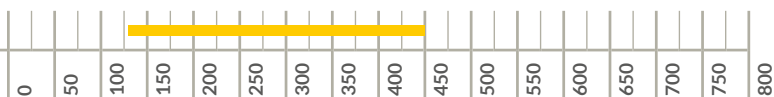
#### TWO-STAGE

kW



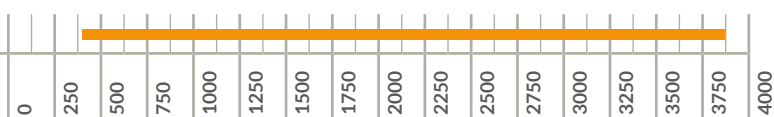
#### LOW NOx

kW



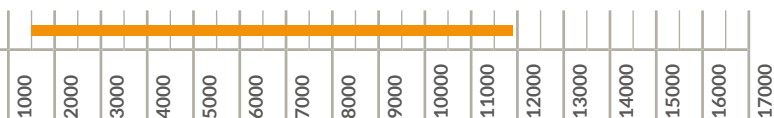
#### TWO-STAGE PROGRESSIVE

kW



#### TWO - STAGE PROGRESSIVE

kW





# TBN SERIE HEAVY OIL BURNERS



Heavy duty reliability

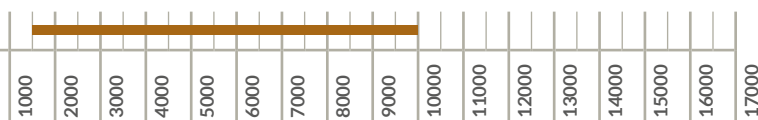
- Heavy oil burners available in 5 models **from 1000 kW to 10000 kW.**
- **Two stage pregressive or modulating** version.
- **Electronic motor** for pump drive.
- Easy maintenance thanks to the **two-slide hinge.**
- **Fully closing air damper** on shut down to avoid loss of heat through the chimney.
- Suitable for fuel oil with a maximum viscosity of 50°E at 50°C.

## CONFORM TO:

E.M.C. DIRECTIVE 2014/30/UE | L.V. DIRECTIVE 2014/35/ UE | MACHINERY DIRECTIVE 2006/42/CE | REFERENCE STANDARD EN267

## TWO - STAGE PROGRESSIVE

kW



Low NOx



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