



Hebei Top-Metal I/E Co.,Ltd

Burners and Steam Evaporator

Welcome to be our designated agent!

Riello be equalled on quality,
Price is really as China!



Add: 6th Floor, Block A ,Zhongliang Hebei Plaza. No.345 Youyi North Street, Shijiazhuang,Hebei, China.
Email :topmetal@126.com hebeitopmetal@126.com

Company profile

- TM brand own a professional manufacturer specializing in the production, installation, and after-sales service of ultra-low nitrogen burners, fully premixed low-nitrogen condensing silicon cast aluminum boilers, and steam evaporators.
- The company's key components are sourced from internationally renowned brands such as German Lamtec (control systems), Dungs and Siemens (valve groups, flame detection systems), and Danish Danfoss (ignition systems).
- The company's chief engineer is a professor from Hebei University of Science and Engineering, and the core technical team consists of more than 50 members. The company is the first in the region to obtain ISO9001:2015 international quality system certification, ISO14001:2015 environmental management system certification, ISO45001:2018 occupational health and safety management system certification, five-star after-sales service certification, and AAA credit certification.

Start

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**Steam
Evaporator**

TM-FGR Ultra-Low Nitrogen Integrated Burner (0.5-3T)

NOx Emissions: Consistently below 30mg/Nm³.
 Compact Integrated Design, Small Size, High Power

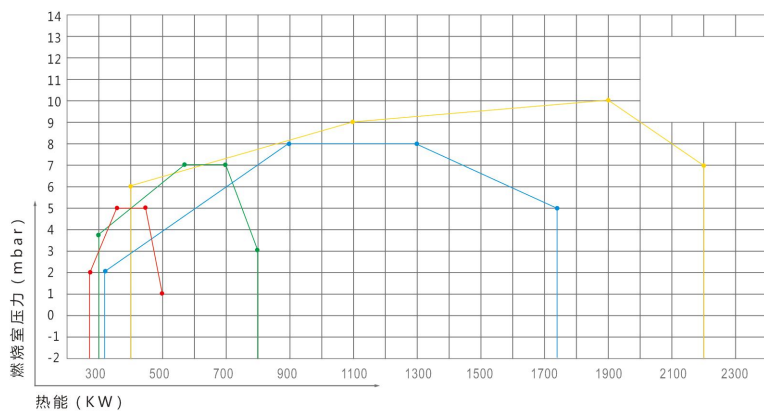
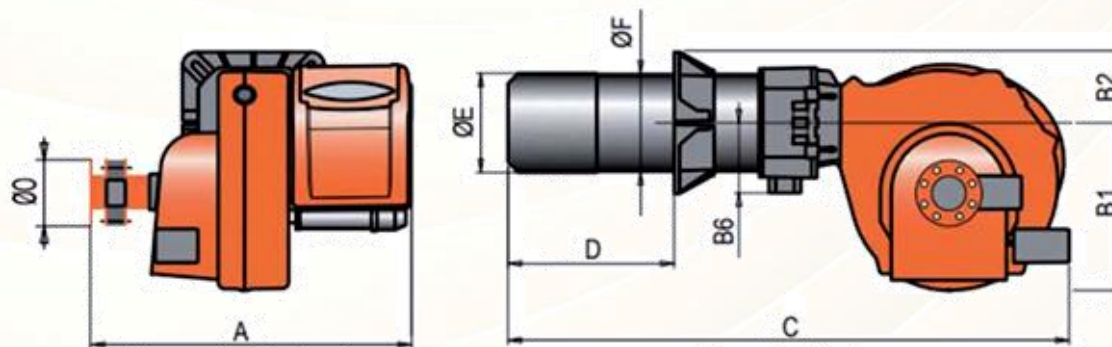
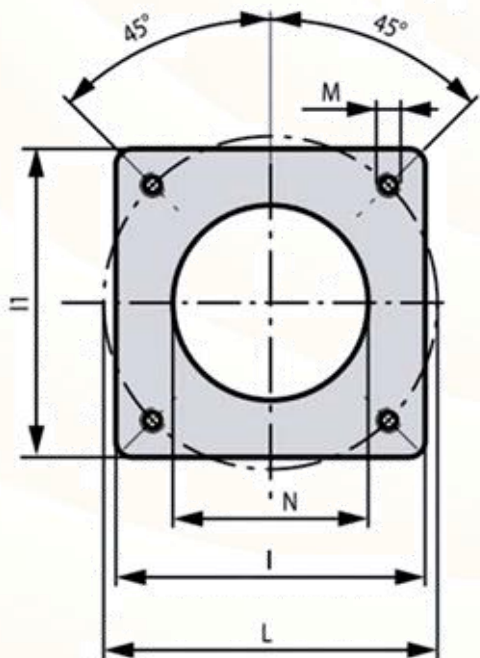
Technical Features:

- ※ Proportional control operation mode.
- ※ Equipped with an automatic P.I.D controller for proportional control operation. (Control components are ordered separately.)
- ※ Control Method: Electronic proportional control / Mechanical proportional control.
- ※ Independent servo motor adjusts the air damper opening.
- ※ The air damper automatically closes during pauses to reduce heat loss in the furnace.
- ※ Independent servo motors control fuel, air flow, and flue gas flow separately.
- ※ Air pressure switch ensures the presence of combustion air.
- UV flame detection.
- ※ Control panel complies with EN298 standards.
- ※ Programmable controller includes built-in valve leak detection.
- ※ Pipeline position: Upward or downward.
- ※ Fan motor meets European IE3 standards.
- ※ Electrical protection rating: IP40.



Model	Valve Model	Output Min-Max.KW	Gas pressure Kbar	Blower Power KW	Control Method	Thermal Efficiency	Modulation Ratio
0.5T	DN32	150-600	5	1.1	E or M	99.99%	1.5
1T	DN40	200-850	5-8	3	E or M	99.99%	1.5
2T	DN50	300-1750	8-12	5.5	E or M	99.99%	1.5
3T	DN50	400-2200	10-12	7.5	E or M	99.99%	1.5

Outline Drawing and Performance Curve Table



Model	A mm	B1 mm	B2 mm	B6 mm	C mm	D mm	E mm	F mm	O	I mm	I1 mm	L mm	M mm	N mm
0.5T	810	380	140	200	1240	175~400	159	178	DN65	280	280	250~325	M12	190
1T	810	380	160	200	1240	200~450	219	195	DN80	320	320	280~370	M12	235
2T	810	380	160	200	1240	200~450	225	219	DN100	320	320	280~370	M12	250
3T	815	380	160	200	1280	200~450	230	219	DN100	320	320	280~370	M12	255

TM-FGR Ultra-Low Nitrogen Integrated Burner (4-10T)

NOx Emissions: Consistently below 30mg/Nm³.
 Compact Integrated Design, Small Size, High Power

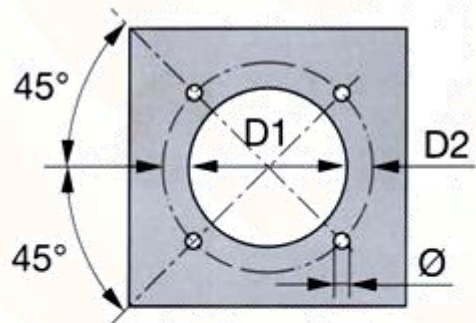
Technical Features:

- ※ Proportional control operation mode.
- ※ Equipped with an automatic P.I.D controller for proportional control operation. (Control components are ordered separately.)
- ※ Control Method: Electronic proportional control / Mechanical proportional control.
- ※ Independent servo motor adjusts the air damper opening.
- ※ The air damper automatically closes during pauses to reduce heat loss in the furnace.
- ※ Independent servo motors control fuel, air flow, and flue gas flow separately.
- ※ Air pressure switch ensures the presence of combustion air.
- UV flame detection.
- ※ Control panel complies with EN298 standards.
- ※ Programmable controller includes built-in valve leak detection.
- ※ Pipeline position: Upward or downward.
- ※ Fan motor meets European IE3 standards.
- ※ Electrical protection rating: IP40.

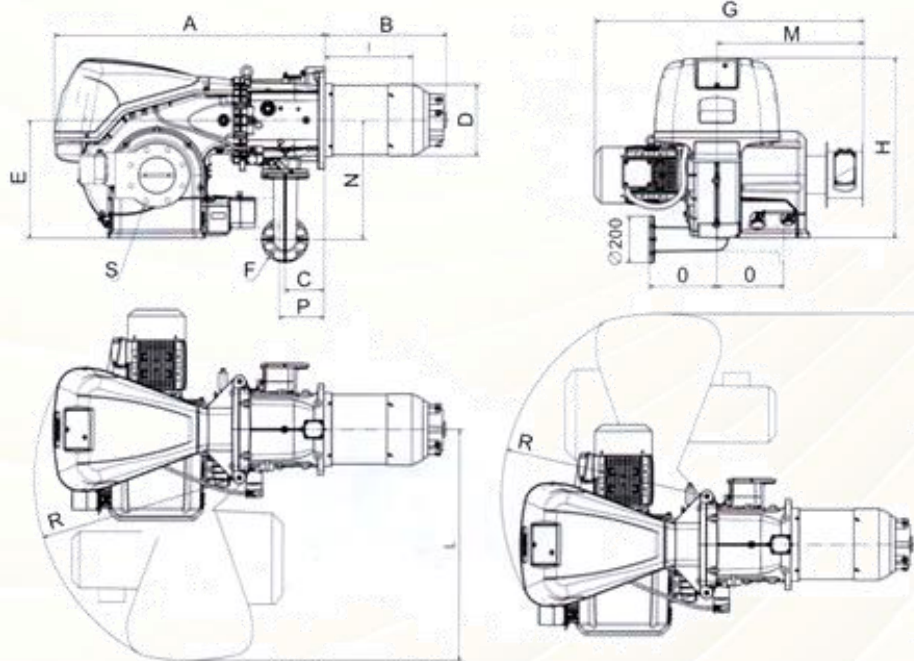


Model	Valve Model	Output Min-Max.KW	Gas pressure Kbar	Blower Power KW	Control Method	Thermal Efficiency	Modulation Ratio
4T	DN65	550-2800	10-15	12	E or M	99.99%	1.5
6T	DN65	700-4500	10-15	15	E or M	99.99%	1.5
8T	DN80	1000-5600	15-20	22	E or M	99.99%	1.5
10T	DN80 /100	1710-7700	15-20	30	E or M	99.99%	1.5

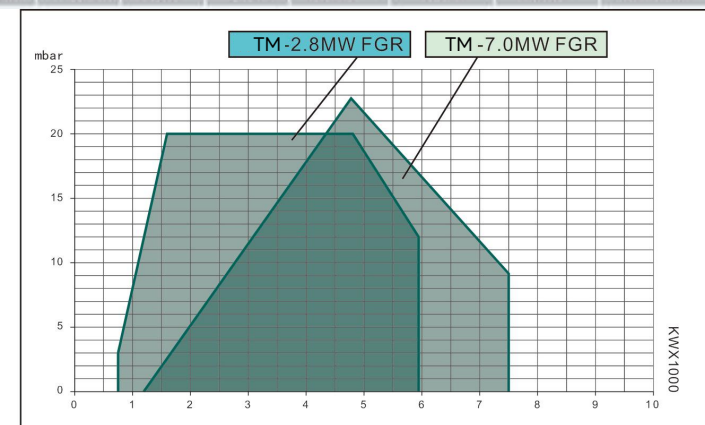
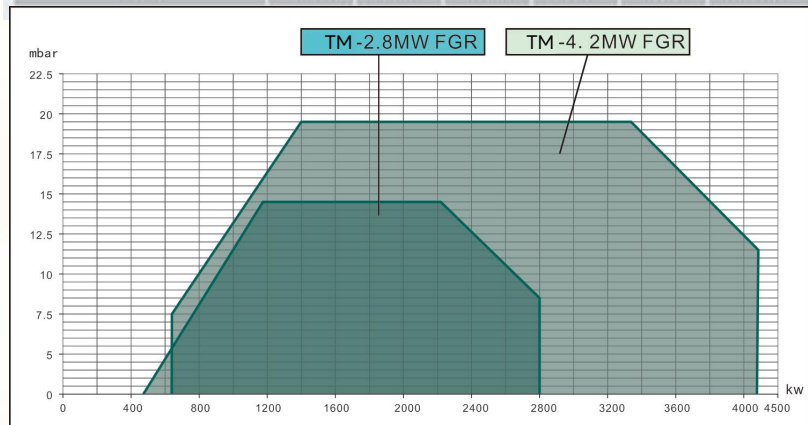
Outline Drawing and Performance Curve Table



TM Model	D1	D2	Ø
	305	452	M18
	305	452	M18



Model	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	I mm	L mm	M mm	N mm	O mm	P mm	R mm	S mm
4T	1178	720	178	305	520	DN65	1140	790	560	1015	615	528	290	177	890	DN150
6T	1260	720	178	340	520	DN65	1215	790	560	1015	632	528	290	177	890	DN150
8T	1260	760	178	380	520	DN80	1215	790	610	1015	632	528	290	177	890	DN200
10T	1260	760	178	420	520	DN80	1230	790	610	1015	632	528	290	177	890	DN200



Burner Accessories - Burner Nozzle

Natural Gas Burner nozzle

Liquefied Petroleum Gas (LPG) Burner nozzle

Coal Gas Burner nozzle

Diesel Burner nozzle

Dual Fuel Burner nozzle(Oil and Gas)

Pilot Burner nozzle

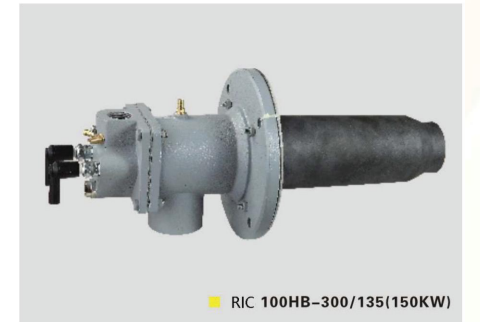
High-Power Burner nozzle

RIO/RIC Selection Guide

RIO: The flame guide tube is made of stainless steel.

RIC: The flame guide tube is made of silicon carbide.

Other parts and details please contact us.



Fully Premixed Condensing Silicon Cast Aluminum Boiler (0.2-4T)



Ideal for Large Volumes of Domestic Hot Water and Large-Area Heating

Heats to 60°C in Two and a Half Minutes, Energy Efficient
Normal hot Water at 80°C

Low-Pressure Pipeline Natural Gas (Dynamic Pressure 2000Pa–5000Pa) or LNG/CNG

PVC Exhaust Pipe at 55°C Energy Saving of 35%

Safe and Stable, Thermal Efficiency of 108%

All-Weather Low Nitrogen NOx <30mg/Nm³

Full-Color Touch Screen Control

Precise Control, Accurate Frequency Conversion, Fault Codes, One-Button Solution

Condensing Heat Exchanger (25-Year Lifespan, Patented Casting)

German EBM Fan, American Honeywell Dungs Valve Group

Full-Color Touch Screen Control with 0~100% Frequency Conversion

Compact Size, Lightweight, Portable (with Casters)

Single Unit Occupies 1.5 Square Meters

Optional Mobile Remote Control

Steam generator (0.5-1.2T)

Suitable for hotel laundries, providing rapid steam generation for disinfection and ironing.

In food processing, steam evaporators are widely used for steaming, drying, and disinfection processes, ensuring food safety and hygiene.

In the textile industry, steam evaporators are used for fiber heating and shaping, enhancing the texture and comfort of textiles.

Steam Generation in 3 Minutes, Ultra-Low Nitrogen Emissions

Thermal Efficiency up to 108%

Steam Temperature: 225°C, Pressure up to 25 kg

Comprehensive Energy Saving of 30%, Annual Savings of 50%

Complete Models and Accessories, Regular Free Inspections

Flameless Combustion Rod

High and Low Water Level Alarms

Apps Program Control Technology

Fully Premixed Surface Combustion

Combustion Proportional Control

Low Nitrogen Emissions

Steam Constant Pressure Output

