

INDUSTRIAL RANGE

HOT WATER

TNOX (2500-6000)

HOT WATER BOILER

Design pressure 6 bar

Heat output from 2.5 to 6 MW



Standard equipment:

- pressure monitoring instrumentation, containing:
 - large dial 3 way test valve manometer
- temperature monitoring instrumentation, containing:
 - 0-120°C large scale thermometer
 - INAIL approved regulating thermostat (100°C)
 - high temperature, INAIL approved (100°C) manual reset safety thermostat
 - PT1000 thermocouple
- purging unit containing:
 - drain valve x 2
 - male connection quick exhaust valve with manual lever
- boiler electric command panel, IP 55 electrical protection, composed of:
 - main switch
 - burner switch
 - condensate pump interrupt
 - electronic thermostatic control with flow temperature display (on-off command and second stage burner)
 - high pressure light and alarm reset button
 - high temperature light and alarm reset button
 - alarm reset button
 - alarm siren

The boilers for export will be equipped with:

- high pressure pressure gage with manual reset
- the regulatory thermostat is not supplied

Main features

Three pass, wet back boiler, suitable for liquid or gaseous fuel pressurized combustion, intended for heating systems with duties ranging between 2500 and 6000 kW and temperatures higher than 100 °C.

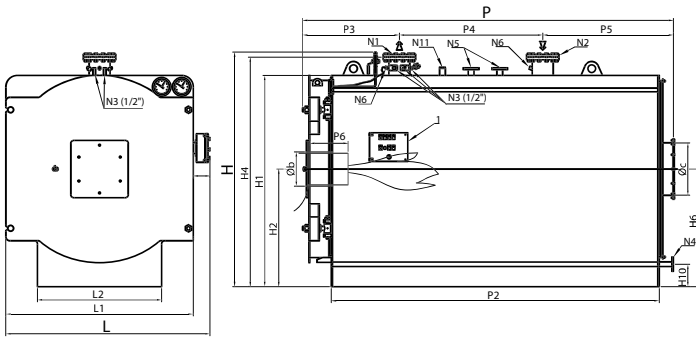
Designed for 110°C maximum temperature (available for 10 bar design pressure) In compliance with EN 303 European norm and has a CE label according to 2009/142/CE Gas Directive.

Some of the product's main features are related below:

- P265GH UNI EN 10028/2 and P275NH UNI EN 10028/3 quality steel boiler body welded and tested with approved methods
- horizontal, single pass flame combustion chamber, with possible corrugated section.
- wetback combustion, supported and connected to a tube of 500 mm diameter with manhole facility.
- Tube plates with drilled holes and then subsequently re-bored for smoke tube welded and expanded; the tube plate front the reverse chamber is completely flanged towards the combustion chamber, with butt welds rather than T-Butt welds.
- plate containment with flanged PN 16 or PN 40 EN 1092-1 connections for equipment operation; equipped with man-hole, and head-hole, and lifting eye bolts.
- P235GH UNI EN 10216/2 smoke ducts, thickness 3.2mm, expanded and welded into the tube sheet.
- steel sheet front door, thermally insulated refractive materials with high aluminum content, mounted on adjustable hinges, easily opened by handwheel bolts without the need to remove the burner; equipped with light indicator for combustion control.
- insulated steel sheet posterior smoke box equipped with an easily opened door can be removed using equipped bolts using brass bolts in order to clean the smoke tubes; provided with cleaning door and chimney connection
- support built form carbon steel sections able to support the entire unit.
- embossed metal sheet upper walkway for accessories service, parts located above the boiler
- high density, mineral wool mattress, 80 mm thickness thermal insulation, with round embossed aluminum case.
- Accessories equipment needed for automatic operation with mechanical and hydraulic assembly for all equipment.
- Electrical wiring converging to a single centralized control panel, having silicone insulated wires inserted in PVC protective sheaths all subjected to final functionality test

For each product always indicate the code at the time of the order.

INDUSTRIAL RANGE
HOT WATER
TNOX



- Legend:**
 N1 Boiler flow
 N2 Boiler return
 N3 Equipment connections
 N4 System load/drain connection
 N5 Safety valve connections
 N6 Bulb sheath
 N8 Control cover
 N11 Minimum level probe connection

Characteristics	Code product	Nominal Power kW	Flow Thermal kW	100% efficiency (ref. C.O.P.) %	Hydraulic pressure drop mbar	Total volume H ₂ O lt	Flue gas pressure drop mbar	Fuel consumption			Total weight kg
								Gas Nm ³ /h	Diesel fuel kg/h	Nafta kg/h	
TNOX 2500	83472510	2500	2688	93,0	38	4496	9,1	275,2	226,7	238,4	6300
TNOX 3000	83473010	3000	3226	93,0	55	5000	12,5	330,2	272,0	286,0	6950
TNOX 3500	83473510	3500	3763	93,0	75	6441	10,7	385,2	317,3	333,6	8200
TNOX 4000	83474010	4100	4409	93,0	42	7335	11,5	451,4	371,8	390,9	8970
TNOX 5000	83475010	5000	5376	93,0	63	9088	10,0	550,4	453,2	476,6	11280
TNOX 6000	83476010	6000	6452	93,0	91	10066	11,0	660,6	544,0	572,1	12160

Dimensions	H	H1	H2	H4	H6	H10	L	L1	L2	P	P2	P3	P4	P5	P6	Øb	Øc	N1	N2	N1/N2	N3	N4	N5	N6	N8	N11
Model	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	DN/in	DN/in	PN	DN/in	DN/in	DN/in	DN/in	DN/in	DN/in
TNOX 2500	2460	2210	1230	2400	1230	125	2135	1960	1300	3872	3430	1005	1500	1367	300-400	400	550	200	200	16	1/2"-3/4"	40	50	1/2"	3/4"	1/2"
TNOX 3000	2460	2210	1230	2400	1230	125	2135	1960	1300	4372	3930	1005	2000	1367	300-400	400	550	200	200	16	1/2"-3/4"	40	50	1/2"	3/4"	1/2"
TNOX 3500	2700	2420	1335	2610	1335	125	2345	2170	1400	4372	3930	1006	2000	1367	300-400	450	600	200	200	16	1/2"-3/4"	40	50	1/2"	3/4"	1/2"
TNOX 4000	2700	2420	1335	2615	1335	125	2345	2170	1400	4872	4430	1255	2200	1417	300-400	450	600	250	250	16	1/2"-3/4"	40	65	1/2"	3/4"	1/2"
TNOX 5000	2820	2570	1410	2765	1410	125	2495	2320	1600	5382	4930	1257	2700	1425	300-400	450	700	250	250	16	1/2"-3/4"	40	65	1/2"	3/4"	1/2"
TNOX 6000	2820	2570	1410	2765	1410	125	2495	2320	1600	5882	5430	1257	3200	1425	300-400	450	700	250	250	16	1/2"-3/4"	40	65	1/2"	3/4"	1/2"

For higher pressures see our commercial department.