

INDUSTRIAL RANGE

HOT WATER

TNOX.e (2500-6000)

HOT WATER BOILER

Design pressure 6 bar

Heat output from 2.5 to 6 MW

EFFICIENCY



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.

It also features heat exchange acceleration elements to ensure highest possible efficiency of its category.

Designed for 110°C maximum temperature (available for 10 bar designed 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:

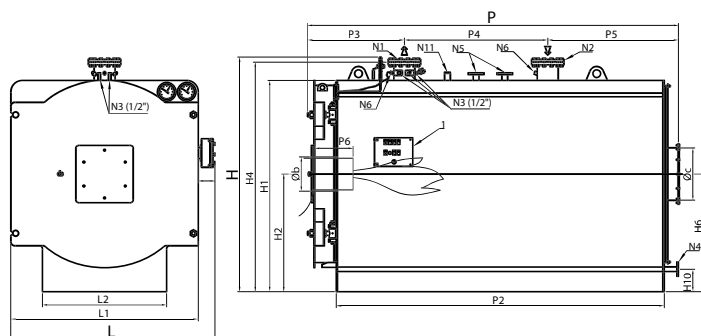
- P265GH UNI EN 10028/2 and P275NH UNI EN 10028/3 quality steel boiler body welded and tested with approved methods
- horizontal, single pass flame combustion chamber, with possible corrugated section.
- wetback combustion, supported and connected to a tube of 500 mm diameter with manhole facility.
- 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, endowed with special turbulence inductors designed and dimensioned in order to ensure stated efficiency achievement.
- 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 pipes; 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.

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HOT WATER

TNOX.e



- 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	Flow Thermal	100% efficiency (ref. C.O.P.)	Hydraulic pressure drop	Total volume H ₂ O	Flue gas pressure drop	Fuel consumption			Total weight
Model		kW	kW	%	mbar	lt	mbar	Gas Nm ³ /h	Diesel fuel kg/h	Nafta kg/h	kg
TNOX.e 2500	83472511	2500	2626	95,2	38	4.496	12,0	268,81	221,37	232,78	6.300
TNOX.e 3000	83473011	3000	3151	95,2	55	5.746	14,0	322,62	265,69	279,38	6.950
TNOX.e 3500	83473511	3500	3676	95,2	75	6.441	13,0	376,43	310,00	325,98	8.200
TNOX.e 4000	83474011	4100	4307	95,2	42	7.335	15,0	440,95	363,14	381,86	8.970
TNOX.e 5000	83475011	5000	5252	95,2	63	9.088	14,0	537,74	442,84	465,67	11.280
TNOX.e 6000	83476011	6000	6303	95,2	91	10.066	16,0	645,24	531,37	558,76	12.160

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.e 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.e 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.e 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	65	1/2"	3/4"	1/2"
TNOX.e 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.e 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.e 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.