TNX

DESCRIPTION

The TNX range includes boilers with three flue gas passes, wet back and automatic operation, suitable for the operation on liquid or gaseous fuels. Designed for large heating systems with power requirements between 3000 and 20000 kW and operating temperature between 60 and 100°C.
The boilers are designed for a maximum safety temperature of 110°C.

FEATURES

- **Design pressure:** 6 bar
- **Heat output:** 3000 ÷ 20000 kW
- **Efficiency:** > 92,0 %

Upon request it is possible to have a maximum design pressure of 25 bar - maximum heat output 25000 kW

ADVANTAGES

Maximum operating flexibility

Thanks to the very high water content and the very high thermal inertia, the boiler is suitable for any system solution, even in the most difficult operating conditions.

High efficiency and large exchange surfaces

Extremely high energy efficiency thanks to the large exchange surfaces allowing top efficiency values under all operating conditions.

Efficiency at all costs

Integrated solutions for increased performance and efficiency through flue gas heat recovery fully integrated into the structure of the boiler.

Maximum security

The generator has been designed in accordance with the strictest international safety regulations in force.

Configurable to specific requirements

A wide range of optional accessories are available to customize the product to meet specific requirements.

Reliability and durability

Maximum reliability and durability guaranteed through design with low surface heat losses.

Three-pass boiler

MODELS

TNX

TNX EN

AVAILABLE CERTIFICATIONS

RECOMMENDED TECHNOLOGIES

MAIN APPLICATIONS

- Hospitals
- Commercial facilities
- Accommodation facilities
- District heating
- Industrial heating systems
- Sports centers

TNX

The TNX model is designed for large heating systems with power between 3000 and 7000 kW and operating temperature between 60 and 100°C.

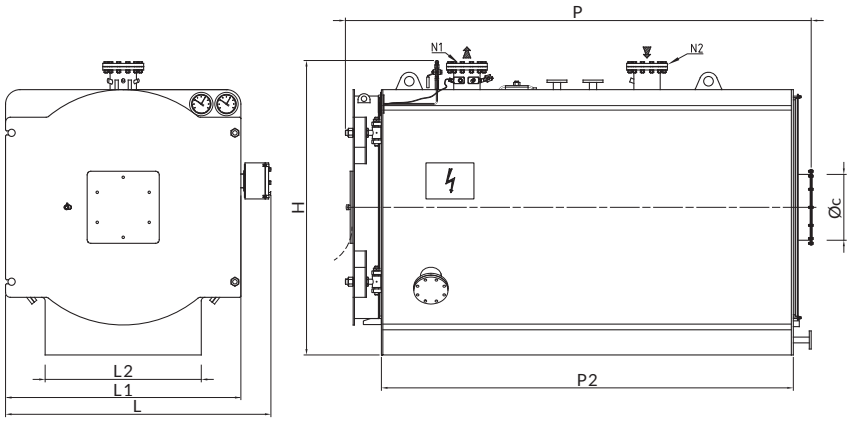
Design pressure: 6 bar

Heat output: 3000 ÷ 7000 kW

Efficiency: 92,0 %

TECHNICAL DATA

Model	Heat Output	Flow thermal	100% efficiency	Water side pressure drop	Total volume H2O	Flue gas pressure drop	Gas consumption	Diesel fuel consumption	Nafta consuption	Empty weight
TNX	kW	kW	%	mbar	lt	mbar	Nm3/h	kg/h	kg/h	kg
3000	3000	3261	92,00	55	4496	13,5	333,8	274,9	289,1	6300
3500	3500	3803	92,00	75	5746	16,0	389,4	320,7	337,2	6950
4000	4100	4457	92,00	103	6441	12,0	456,3	375,8	395,2	8200
5000	5000	5435	92,00	63	7335	14,0	556,4	458,2	481,9	8970
6000	6000	6522	92,00	91	9088	12,0	667,7	549,9	578,2	11280
7000	7000	7609	92,00	123	10066	14,0	779,0	641,6	674,6	12160



DIMENSIONS

Model	H	L	L1	L2	P	P2	ØC	N1	N2
TNX	mm	mm	mm	mm	mm	mm	mm	DN/in	DN/in
3000	2460	2200	1960	1300	3879	3430	550	200	200
3500	2460	2200	1960	1300	4379	3930	550	200	200
4000	2700	2410	2170	1400	4379	3930	600	200	200
5000	2700	2410	2170	1400	4879	4430	600	250	250
6000	2820	2560	2320	1600	5389	4930	700	250	250
7000	2820	2560	2320	1600	5889	5430	700	250	250

STANDARD EQUIPMENT

Instruments for pressure control, including:

- Large dial 3 way test valve manometer

Instruments for temperature control, including:

- Thermometer with large dial, scale 0-120°C
- Regulation thermostat (100°C)
- High temperature safety thermostat with manual reset (110°C)
- PT100 thermocouple

Bottom discharge unit including:

- Shut-off globe valve

Boiler control panel IP55 1/N ~ 230V 50 Hz

- The safety thermostat with manual reset (110°C) is INAIL approved

The boilers destined to foreign countries will be provided with:

- High-pressure safety switch with manual reset

PRODUCT CODES

Model	Code
TNX 3000	83473000
TNX 3500	83473500
TNX 4000	83474000
TNX 5000	83475000
TNX 6000	83476000
TNX 7000	83477000

TNX EN

The TNX EN model is designed for large heating systems with power between 8000 and 20000 kW and operating temperature between 60 and 100°C.

Design pressure: 6 bar

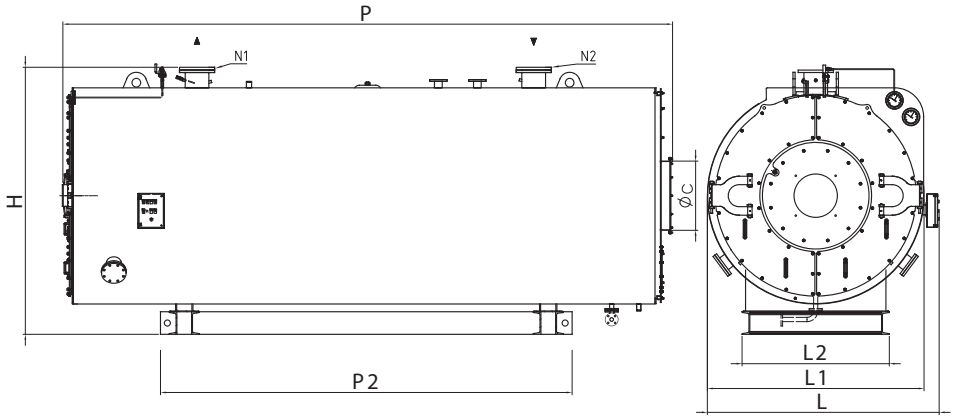
Heat output: 8000 ÷ 20000 kW

Efficiency: > 91,0 %

TECHNICAL DATA

Model	Heat output **	Flow thermal	100% efficiency	Water side pressure drop	Total volume H2O	Flue gas pressure drop	Gas consumption	Diesel fuel consumption	Nafta consuption	Empty weight
TNX EN	kW	kW	%	mbar	lt	mbar	Nm3/h	kg/h	kg/h	kg
8000	8000	8791	91,00	161	14950	15,0	900,0	741,2	779,4	15400
9000	9000	9836	91,50	98	16200	20,0	1007,0	829,3	872,1	16300
10000	10000	10965	91,20	121	16200	23,0	1122,6	924,5	972,2	16300
11000	11000	11957	92,00	79	20200	15,5	1224,2	1008,1	1060,1	24940
12000	12000	13086	91,70	94	20200	18,0	1339,8	1103,3	1160,2	24940
13000	13000	14100	92,20	111	21800	21,0	1443,6	1188,8	1250,1	25400
14000	14000	15217	92,00	128	21800	24,0	1558,0	1283,0	1349,2	25400
15000	15000	16287	92,10	147	23800	24,0	1667,5	1373,2	1444,0	28050
16000	16000	17410	91,90	168	23800	27,0	1782,5	1467,9	1543,6	28050
17000	17000	18299	92,90	111	33000	20,5	1873,5	1542,8	1622,4	37500
18000	18000	19417	92,70	124	33000	22,0	1988,0	1637,2	1721,5	37500
19000	19000	20386	93,20	139	35100	25,0	2087,1	1718,8	1807,4	40000
20000	20000	21505	93,00	154	35100	28,0	2201,8	1813,2	1906,7	40000

** powers referring to methane gas; For diesel or naphtha operation the rule may provide for a downgrade



DIMENSIONS

Model	H	L	L1	L2	P	P2	ØC	N1	N2
TNX EN	mm	mm	mm	mm	mm	mm	mm	DN/in	DN/in
8000	3050	2700	2490	1700	7035	4750	800	250	250
9000	3050	2700	2490	1700	7535	5250	800	300	300
10000	3050	2700	2490	1700	7535	5250	800	300	300
11000	3400	3140	2940	2000	7735	5400	900	350	350
12000	3400	3140	2940	2000	7735	5400	900	350	350
13000	3400	3140	2940	2000	8235	5900	900	350	350
14000	3400	3140	2940	2000	8235	5900	900	350	350
15000	3500	3265	3065	2000	8183	5900	1000	350	350
16000	3500	3265	3065	2000	8183	5900	1000	350	350
17000	3960	3650	3450	2250	8820	6500	1100	400	400
18000	3960	3650	3450	2250	8820	6500	1100	400	400
19000	3960	3650	3450	2250	9320	7000	1100	400	400
20000	3960	3650	3450	2250	9320	7000	1100	400	400

STANDARD EQUIPMENT

Instruments for pressure control, including:

- Large dial 3 way test valve manometer

Instruments for temperature control, including:

- Thermometer with large dial, scale 0-120°C
- Regulation thermostat (100°C)
- High temperature safety thermostat with manual reset (110°C)
- PT100 thermocouple

Bottom discharge unit including:

- Shut-off globe valve

Boiler control panel IP55 1/N ~ 230V 50 Hz

- The safety thermostat with manual reset (110°C) is INAIL approved

The boilers destined to foreign countries will be provided with:

- High-pressure safety switch with manual reset

PRODUCT CODES

Model	Code
TNX EN 8000	83478000
TNX EN 9000	83479000
TNX EN 10000	83481000
TNX EN 11000	83481100
TNX EN 12000	83481200
TNX EN 13000	83481300
TNX EN 14000	83481400
TNX EN 15000	83481500
TNX EN 16000	83481600
TNX EN 17000	83481700
TNX EN 18000	83481800
TNX EN 19000	83481900
TNX EN 20000	83482000

ACCESSORIES AVAILABLE FOR THE RANGE

Code	Description	TNX	TNX EN
		6 bar	6 bar
QATRXETERM01	Boiler management control panel	■	■
QATRXETERM02	Boiler management control panel	■	■
QCTETERM	Eterm Easy manager panel	■	■
90060061	Ladder and handrail	■	
90060062	Ladder and handrail		■
90060090	Side platform	■	■