

SIXEN







DESCRIPTION

The SIXEN range consists of monobloc reverse flame wet back fire tube steam boilers. This range is extremely versatile and suitable for use in different industrial processes, from food & beverage to the manufacturing industry.







It is also available as built-in and complete system (SIXEN STX).

FEATURES

-  **Design pressure: 12 or 15 bar**
-  **Heat output: 238 ÷ 3407 kW**
-  **Steam capacity: 350 to 5000 kg / h**
-  **Efficiency: > 90.0%**

The entire range is available, upon request, with maximum design pressure of 25 bar

ADVANTAGES

-  **constructive Functionality**
The rectangular design of the boiler transforms the top into an access walkway floor, facilitating access to the accessories installed. This feature is unique in boilers of this type.
-  **Efficiency at all costs**
Integrated solutions for increased performance and efficiency through flue gas heat recovery fully integrated into the structure of the boiler.
-  **Reliability and durability**
Maximum reliability and durability guaranteed through design with low surface heat losses.
-  **High steam quality**
At high load the internal separator prevents the entrainment of water droplets to the steam outlet, the steam produced is then always of high quality having a very high dryness fraction.
-  **Consistant supply of high quality steam**
Thanks to the generously dimensioned steam chamber the boiler can meet the varying demand of the system including instantaneous peak demands
-  **Maximum security**
The generator has been designed in accordance with the strictest international safety regulations in force.

High-pressure reverse flame steam boiler

MODELS



SIXEN



SIXEN STX

AVAILABLE CERTIFICATIONS



RECOMMENDED TECHNOLOGIES



MAIN APPLICATIONS

- ⊕ Paper industry
- ⊕ Wine farms
- ⊕ Food and beverage industry
- ⊕ Meat processing
- ⊕ Distilleries
- ⊕ Beer industry
- ⊕ Chemical and pharmaceutical industries
- ⊕ Manufacturing industry
- ⊕ Hospitals
- ⊕ Dairy Industry
- ⊕ Heavy industry
- ⊕ Petrochemical industry

SIXEN

Manufactured from steel that has been quality tested according to the prevailing standards and welded with automatic submerged arc welding processes. Suitable for liquid and gaseous fuels. Complete with regulation and safety accessories for automatic operation.



SIXEN 12 bar

Design pressure: 12 bar

Operating pressure: 8 - 11,5 bar

Heat output: 238 ÷ 3407 kW

Steam capacity: 350 to 5000 kg / h

Efficiency: > 90.0%

SIXEN 15 bar

Design pressure: 15 bar

Operating pressure: 12 - 14 bar

Heat output: 238 ÷ 3407 kW

Steam capacity: 350 to 5000 kg / h

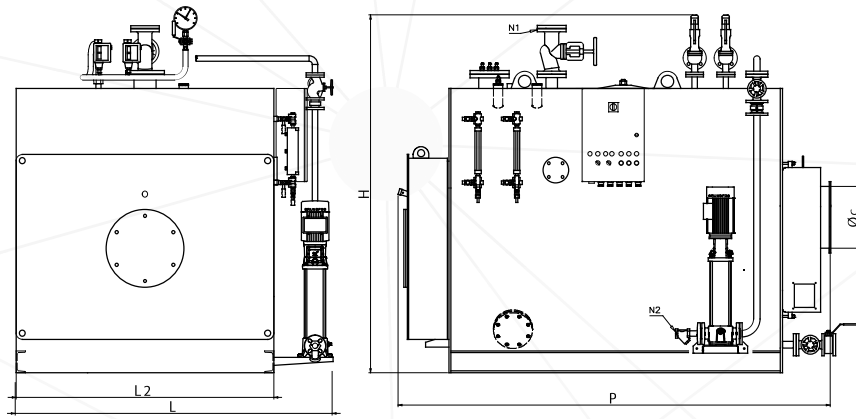
Efficiency: > 90.0%

TECHNICAL DATA

Model	Heat output	Flow thermal	Steam capacity *:	Total volume H2O	Flue gas pressure drop	Gas consump.	Diesel fuel consump.	Nafta consump.	Total weight **
SIXEN	kW	kW	kg/h	lt	mbar	Nm3/h	kg/h	kg/h	kg
350	238	265	350	810	5,0	27,1	22,3	23,5	1550
500	341	379	500	921	6,5	38,8	31,9	33,6	1688
650	443	492	650	1120	5,0	50,4	41,5	43,6	2020
800	545	606	800	1250	5,0	62,0	51,1	53,7	2220
1000	681	757	1000	1830	7,0	77,5	63,8	67,1	2720
1300	886	984	1300	2190	6,0	100,8	83	87,3	3020
1350	920	1022	1350	2190	6,5	104,6	86,2	90,6	3020
1700	1158	1287	1700	2640	9,5	131,8	108,5	114,1	3650
2000	1363	1514	2000	3050	10,0	155,0	127,7	134,2	4220
2500	1703	1893	2500	3380	6,5	193,8	159,6	167,8	5400
3000	2044	2271	3000	4020	9,0	232,5	191,5	201,4	6130
3500	2385	2650	3500	5000	9,0	271,3	223,4	234,9	7250
4000	2726	3028	4000	6950	10,0	310,0	255,3	268,5	9050
5000	3407	3786	5000	7400	11,0	387,6	319,2	335,6	10100

* Steam capacity with feed water at 80 ° C

* total weight referring to the single pump model, 12 bar



DIMENSIONS

Model	H	L	L2	P	ØC	N1	N2
SIXEN	mm	mm	mm	mm	mm	DN/in	DN/in
350	1825	1760	1180	1840	250	32	1"1/2
500	1825	1760	1180	2120	250	32	1"1/2
650	1930	1880	1300	2130	300	40	1"1/2
800	1943	1675	1300	2350	300	40	1"1/2
1000	2150	1900	1510	2350	350	50	1"1/2
1300	2150	1880	1510	2760	350	50	1"1/2
1350	2150	1880	1510	2760	350	50	1"1/2
1700	2300	2040	1660	2790	400**	65	1"1/2
2000	2300	1990	1660	3150	400**	65	2"
2500	2460	2215	1840	3200	450**	80	2"
3000	2540	2215	1840	3700	450**	80	2"
3500	2710	2350	1980	3791	500**	80	2"
4000	2850	2470	2100	4360	550**	100	2"
5000	2970	2730	2220	4740	600**	125	2"

STANDARD EQUIPMENT

Accessories on the steam side, including:

- Steam outlet/crown valve
- 2 spring safety valves
- 2 Reflex level indicator gauge
- 2 Level indicator guage drain and shut-off valve unit

Monitoring instrumentation, comprising:

- Large dial 3 way test valve manometer
- Limit pressure switch
- Manual reset safety pressure switch

Blow down system comprising:

- Purge shut-off valve
- Quick exhaust valve with manual lever

Automatic conductivity probe level control system comprising:

- Pump start and stop probes
- 1st and 2nd alarm and burner shut off probe for low level

Boiler control panel, IP 55 400V/3 +N/ 50Hz

AVAILABLE CONDITIONS

Single feed water pump

- 1 vertical multi-stage centrifugal electric pump for water at 120°C
- 1 shut-off globe valve
- 1 pump suction filter
- 2 non-return valves

Twin feed pumps

- 2 vertical multi-stage centrifugal electric pumps suitable for water at 120°C
- 3 delivery shut-off valves
- 2 pump suction filters
- 3 non-return valves
- 1 control pressure switch

PRODUCT CODES

Model	12 bar		15 bar	
	1 pump	2 pumps	1 pump	2 pumps
SIXEN 350	86240350	86240354	86250350	86250354
SIXEN 500	86240500	86240504	86250500	86250504
SIXEN 650	86240650	86240654	86250650	86250654
SIXEN 800	86240800	86240804	86250800	86250804
SIXEN 1000	86241000	86241004	86251000	86251004
SIXEN 1300	86241300	86241304	86251300	86251304
SIXEN 1350	86241350	86241354	86251350	86251354
SIXEN 1700	86241700	86241704	86251700	86251704
SIXEN 2000	86242000	86242004	86252000	86252004
SIXEN 2500	86242500	86242504	86252500	86252504
SIXEN 3000	86243000	86243004	86253000	86253004
SIXEN 3500	86243500	86243504	86253500	86253504
SIXEN 4000	86244000	86244004	86254000	86254004
SIXEN 5000	86245000	86245004	86255000	86255004



STEAM

SUPERHEATED WATER

THERMAL OIL

HOT WATER

ACCESSORIES

SYSTEM LAYOUTS