ASGX EN

DESCRIPTION

The ASGX EN range provides super-heated water boilers with three flue gas passes and completely wet furnace back. Manufactured from steel, 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. Intended for heating or technological systems with operating temperature above 110°C.

FEATURES

Design pressure: 12 bar

Heat output: 3000 ÷ 17000 kW

Efficiency: > 90.0%

For higher or lower pressures see our commercial department

ADVANTAGES

Advanced management technology
The boiler can be equiped with programmable logic technology that allows complete compatibility with any data acquisition system, also allowing the adjustment of parameters through the display.

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.

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

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

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

Superheated water boiler with three flue gas passes

MODELS

ASGX EN 3000-7000

ASGX EN 8000-17000

AVAILABLE CERTIFICATIONS

RECOMMENDED TECHNOLOGIES

MAIN APPLICATIONS

- Food and beverage industry
- Manufacturing industry
- District heating
- Pasta industry

ASGX EN 3000-7000

The ASGX EN 3000-7000 model is designed for heating or technological systems with power between 3000 and 7000 kW and operating temperatures above 110°C.

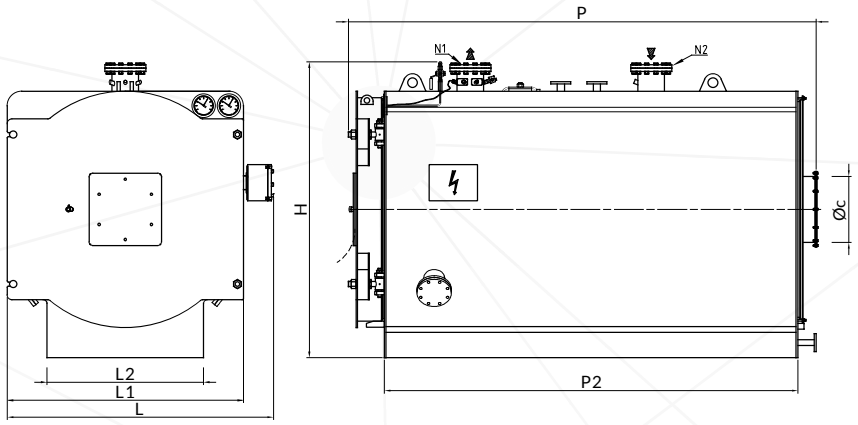
Design pressure: 12 bar
Operating pressure: * (see note)
Heat output: 3000 ÷ 7000 kW
Efficiency: > 90.0%

** According to the requested delivery temperature (see graph below)*

TECHNICAL DATA

Model	Heat output	Flow thermal	100% efficiency	Water side pressure drop	Total volume H2O	Flue gas pressure drop	Gas consump.	Diesel fuel consump.	Nafta consump.	Total weight
ASGX EN	kW	kW	%	mbar	lt	mbar	Nm3/h	kg/h	kg/h	kg
3000	3000	3333	90,00	55	4520	15,0	341,2	281,0	295,5	7000
3500	3500	3888	90,00	75	5300	18,0	398,1	327,8	344,7	7800
4000	4000	4444	90,00	98	6650	15,0	455,0	374,7	394,0	9000
5000	5000	5556	90,00	154	8600	20,0	568,8	468,4	492,6	11000
6000	6000	6666	90,00	91	9150	13,0	682,5	562,1	591,0	13000
7000	7000	7777	90,00	123	10200	15,0	796,2	655,7	689,5	14500

Graph of minimum recommended pressure based on the feed water temperature



DIMENSIONS

Model	H	L	L1	L2	P	P2	ØC	N1	N2
ASGX EN	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	5373	4930	600	200	200
6000	2820	2560	2320	1600	5389	4930	700	250	250
7000	2820	2560	2320	1600	5889	5430	700	250	250

STANDARD EQUIPMENT

Pressure control instruments including:
2 safety valves
Large dial 3 way test valve manometer
Maximum safety pressure switch
Minimum safety pressure switch

Temperature control instruments including:
Delivery large dial thermometer
Thermoresistance connected to on-board thermoregulator
Safety thermostat

Bottom discharge unit including:
1 shut-off globe valve

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

PRODUCT CODES

Model	Code
ASGX EN 3000	86803000
ASGX EN 3500	86803500
ASGX EN 4000	86804000
ASGX EN 5000	86805000
ASGX EN 6000	86806000
ASGX EN 7000	86807000

ASGX EN 8000-17000

The ASGX EN 8000-17000 model is designed for heating or processl systems requiring between 8000 and 17000 kW and operating temperatures above 110°C.

Design pressure: 12 bar
Operating pressure: * (see note)
Heat output: 8000 ÷ 17000 kW
Efficiency: > 91,0 %

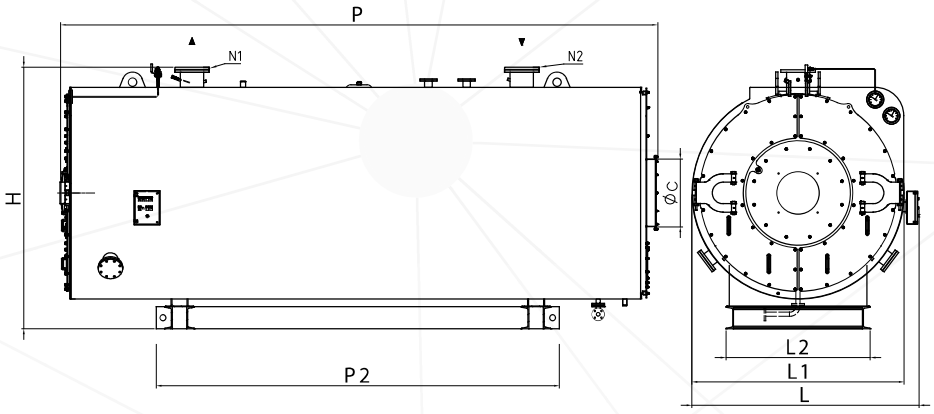
** According to the requested delivery temperature (see graph below)*

TECHNICAL DATA

Model	Heat output **	Flow thermal	100% efficiency	Water side pressure drop	Total volume H2O	Flue gas pressure drop	Gas consump.	Diesel fuel consump.	Nafta consump.	Total weight
ASGX EN	kW	kW	%	mbar	lt	mbar	Nm3/h	kg/h	kg/h	kg
8000	8000	8791	91,00	161	14950	17,5	900,0	741,2	779,4	15400
9000	9000	9890	91,00	98	16200	22,5	1012,5	833,8	876,8	16300
10000	10000	10989	91,00	66	20200	15,0	1125,1	926,6	974,3	24940
11000	11000	12088	91,00	79	20200	19,0	1237,6	1019,2	1071,8	24940
12000	12000	13158	91,20	94	21800	22,0	1347,1	1109,4	1166,6	25400
13000	13000	14286	91,00	111	21800	26,0	1462,6	1204,5	1266,6	25400
14000	14000	15385	91,00	128	23800	23,5	1575,1	1297,2	1364,0	28050
15000	15000	16340	91,80	86	33000	19,5	1672,9	1377,6	1448,7	37500
16000	16000	17486	91,50	98	33000	22,0	1790,2	1474,3	1550,3	37500
17000	17000	18681	91,00	111	35100	23,0	1912,6	1575,1	1656,3	45000

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

Graph of minimum recommended pressure based on the feed water temperature



DIMENSIONS

Model	H	L	L1	L2	P	P2	ØC	N1	N2
ASGX 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	3400	3140	2940	2000	7735	5400	900	350	350
11000	3400	3140	2940	2000	7735	5400	900	350	350
12000	3400	3140	2940	2000	8235	5900	900	350	350
13000	3400	3140	2940	2000	8235	5900	900	350	350
14000	3500	3265	3065	2000	8183	5900	1000	350	350
15000	3960	3650	3450	2250	8820	6500	1100	400	400
16000	3960	3650	3450	2250	8820	6500	1100	400	400
17000	3960	3650	3450	2250	9320	7000	1100	400	400

STANDARD EQUIPMENT

Pressure control instruments including:
2 safety valves
Large dial 3 way test valve manometer
Maximum safety pressure switch
Minimum safety pressure switch

Temperature control instruments including:
Delivery large dial thermometer
Thermoresistance connected to on-board thermoregulator
Safety thermostat

Bottom discharge unit including:
1 shut-off globe valve

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

PRODUCT CODES

Model	Code
ASGX EN 8000	86808000
ASGX EN 9000	86809000
ASGX EN 10000	86810000
ASGX EN 11000	86811000
ASGX EN 12000	86812000
ASGX EN 13000	86813000
ASGX EN 14000	86814000
ASGX EN 15000	86815000
ASGX EN 16000	86816000
ASGX EN 17000	86817000

ACCESSORIES AVAILABLE FOR THE RANGE

Code	Description	3000 - 7000	8000 - 17000
		1 pump	1 pump
86900074	GSS 72 global safety system	■	■
90060060	Ladder and handrail	■	■
90060090	Side platform	■	■
QATRXETERM01	Boiler MASTER control panel	■	■
QATRXETERM02	Boiler SLAVE control panel	■	■
QCTETERM	Eterm Easy manager panel	■	■

COMPONENTS FOR HEATING PLANT ROOM COMPATIBLE WITH THE RANGE

VEA
Super-heated water expansion vessel
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