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HOT WATER BOILERS

ASGX EN 8000 kW – 17000 kW



Design pressure: 12 bar*
Heat Output: 8000 ÷ 17000 kW
Efficiency: 91%

*Different outputs and pressures available upon request.



Benefits

- Three pass wet back;
- Low NOx designed;
- Package boiler for simple installation;
- High water volume for high working flexibility;
- eterm compatible;
- High water content;
- Assembly and testing conducted at the manufacturer's premises;
- Simple, quick and safe installation;
- Project pressure values up to 25 bar;
- High operating flexibility;
- Minimum running costs;
- Minimum maintenance costs;
- Easy to access for internal maintenance.

Three pass wetback, boiler suitable for liquid or gaseous fuel pressurized combustion, intended for heating or process systems or with power ranging between 8000 and 17000 kW and temperatures higher than 110°C.

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

- **Boiler body** built from steel quality P265GH UNI EN 10028/2 or P275NH UNI EN 10028/3 welded and tested by certified procedures;
- **Combustion chamber** horizontal single pass design with possible hot formed corrugated section;
- **Gas reversal chamber** fully submerged in the boiler water (wet back design), supported and stayed to the rear plate by a support pipe 500 mm diameter used as manhole for fireside access;
- **Tube plates** with drilled holes for the tubes which are first expanded and then welded; the hot gas entry to the reversal chamber is completely hot rimmed, thus avoiding T-butt weld;
- **Shell** with flanged attachments PN 16 or PN 40 EN 1092-1 for the operating instruments; complete with upper manhole and lower headhole and lifting lugs;
- **Convection tubes** in P235GH UNI EN 10216/2 welded to the tube plates, without turbolators;
- **Front smokebox** built from steel plate, insulated using refractory materials with high alumina content; fitted with two separate doors internally insulated in ceramic fiber and rotating on double pin joint hinges; complete with burner hole and burner mounting plate
- **Rear smokebox** built from steel plate insulated using refractory materials supplied with two separate doors fitted by brass bolts; complete with clearing door, flue connection, manhole for fireside access incorporating an inspection port for viewing;
- **Base frame** built from steel profile pieces for the support of the whole package;
- **Top platform** in steel checker plate for the access to the accessories installed on top of the boiler;
- **Insulation** of the shell made by thick high density rock wool slabs; outer cladding in aluminum sheet;
- **Regulation and safety accessories** included for fully automatic boiler operation; fitting and wiring of all devices;
- **Electrical wiring** by silicon insulated cables in PVC coated sheaths converging to a unique control panel, undergoing to final test at factory.

Technical data

Model	Heat output		Heat input		Efficiency 100% (N.C.V.)	NG max flow rate G20	NG max flow rate G30	NG max flow rate G31	Max flow rate of flues	Efficiency at 30% (N.C.V.)
	kW	kcal/h	kW	kcal/h	%	Stm ³ /h	kg/h	kg/h	kg/h	%
	Medium Temp. 130°C				Medium Temp. 130°C					Medium Temp. 130°C
ASGX EN 8000	8000	6.880.000	8791	7.560.000	91,00	930,23	690,41	682,93	13860,43	93,00
ASGX EN 9000	9000	7.740.000	9890	8.505.000	91,00	1046,51	776,71	768,29	15593,00	93,00
ASGX EN 10000	10000	8.600.000	10989	9.451.000	91,00	1162,91	863,11	853,75	17327,36	93,00
ASGX EN 11000	11000	9.460.000	12088	10.396.000	91,00	1279,19	949,41	939,11	19059,93	93,00
ASGX EN 12000	12000	10.320.000	13158	11.316.000	91,20	1392,40	1033,42	1022,22	20746,76	93,20
ASGX EN 13000	13000	11.180.000	14286	12.286.000	91,00	1511,75	1122,01	1109,85	22525,08	93,00
ASGX EN 14000	14000	12.040.000	15385	13.231.000	91,00	1628,03	1208,31	1195,21	24257,65	93,00
ASGX EN 15000	15000	12.900.000	16340	14.052.000	91,80	1729,05	1283,29	1269,38	25762,85	93,80
ASGX EN 16000	16000	13.760.000	17486	15.038.000	91,50	1850,38	1373,33	1358,45	27570,66	93,50
ASGX EN 17000	17000	14.620.000	18681	16.066.000	91,00	1976,87	1467,21	1451,31	29455,36	93,00

Characteristics	Pressure losses flue gas side		Heat losses through the casing		Flue gas temp. at boiler output and air at 20 deg. C	CO2	Press. losses water side	Design Pressure	Total capacity	Total weight	Electric supply	Frequency	Insulation class	Electric power	Fuel												
	mbar	%	%	%											°C	%	mbar	bar	l	kg	Volt ~	Hz	IP	W	Nat. gas	Lpg	Heavy oil
ASGX EN 8000	18	9	0	0	212,48	10,00	161,11	12,00	14950	15400	230,00	50,00	IP55	1000,00	X	X	X	X									
ASGX EN 9000	23	9	0	0	212,48	10,00	98,34	12,00	16200	16300	230,00	50,00	IP55	1000,00	X	X	X	X									
ASGX EN 10000	15	9	0	0	212,48	10,00	65,53	12,00	20200	24940	230,00	50,00	IP55	1000,00	X	X	X	X									
ASGX EN 11000	19	9	0	0	212,48	10,00	79,29	12,00	20200	24940	230,00	50,00	IP55	1000,00	X	X	X	X									
ASGX EN 12000	18	9	0	0	208,05	10,00	94,36	12,00	21800	25400	230,00	50,00	IP55	1000,00	X	X	X	X									
ASGX EN 13000	26	9	0	0	212,48	10,00	110,75	12,00	21800	25400	230,00	50,00	IP55	1000,00	X	X	X	X									
ASGX EN 14000	24	9	0	0	212,48	10,00	128,44	12,00	23800	28050	230,00	50,00	IP55	1000,00	X	X	X	X									
ASGX EN 15000	20	8	0	0	194,78	10,00	86,43	12,00	33000	37500	230,00	50,00	IP55	1000,00	X	X	X	X									
ASGX EN 16000	22	8	0	0	201,42	10,00	98,34	12,00	33000	37500	230,00	50,00	IP55	1000,00	X	X	X	X									
ASGX EN 17000	23	9	0	0	212,48	10,00	111,01	12,00	35100	40000	230,00	50,00	IP55	1000,00	X	X	X	X									

Technical data

Dimensions	H	H1	H2	H4	H6	H10	L	L1	L2	P	P2	P3	P4	P5	P6	Øb	Øc
	mm																
ASGX EN 8000	3050	2850	1600	3050	1600	171	2700	2490	1700	7035	4750	1548	3885	1602	600-700	500	800
ASGX EN 9000	3050	2850	1600	3050	1600	171	2700	2490	1700	7535	5250	1548	4255	1732	600-700	500	800
ASGX EN 10000	3400	3200	1730	3400	2450	105	3140	2940	2000	7735	5400	1800	4135	1800	650-800	580	900
ASGX EN 11000	3400	3200	1730	3400	2450	105	3140	2940	2000	7735	5400	1800	4135	1800	650-800	580	900
ASGX EN 12000	3400	3200	1730	3400	2450	105	3140	2940	2000	8235	5900	1800	4635	1800	650-800	580	900
ASGX EN 13000	3400	3200	1730	3400	2450	105	3140	2940	2000	8235	5900	1800	4635	1800	650-800	580	900
ASGX EN 14000	3500	3276	1764	3500	2530	128	3265	3065	2000	8183	5900	1673	4670	1840	650-800	580	1000
ASGX EN 15000	3960	3700	1975	3960	2840	200	3650	3450	2250	8820	6500	1706	5144	1970	600-700	740	1100
ASGX EN 16000	3960	3700	1975	3960	2840	200	3650	3450	2250	8820	6500	1706	5144	1970	600-700	740	1100
ASGX EN 17000	3960	3700	1975	3960	2840	200	3650	3450	2250	9320	7000	1706	5644	1970	600-700	740	1100

Dimensions	N1	N2	N1/N2	N3	N4	N5	N6	N8	N11
	DN/in		PN			DN/in			
ASGX EN 8000	250	250	16	1/2"-3/4"	40	80	1/2"	3/4"	1/2"
ASGX EN 9000	300	300	16	1/2"-3/4"	40	80	1/2"	3/4"	1/2"
ASGX EN 10000	350	350	16	1/2"-3/4"	40	80	1/2"	3/4"	1/2"
ASGX EN 11000	350	350	16	1/2"-3/4"	40	80	1/2"	3/4"	1/2"
ASGX EN 12000	350	350	16	1/2"-3/4"	40	80	1/2"	3/4"	1/2"
ASGX EN 13000	350	350	16	1/2"-3/4"	40	80	1/2"	3/4"	1/2"
ASGX EN 14000	350	350	16	1/2"-3/4"	40	80	1/2"	3/4"	1/2"
ASGX EN 15000	400	400	16	1/2"-3/4"	40	80	1/2"	3/4"	1/2"
ASGX EN 16000	400	400	16	1/2"-3/4"	40	80	1/2"	3/4"	1/2"
ASGX EN 17000	400	400	16	1/2"-3/4"	40	80	1/2"	3/4"	1/2"

Standard Equipment

Pressure monitoring instrumentation unit , containing:

- 2 safety valves;
- large dial 3 way test valve manometer;
- safety pressure gage.

Temperature monitoring instrumentation unit , containing:

- delivery large dial thermometer;
- delivery thermoresistance connected to a framework thermo regulator;
- safety thermostat.

Purging unit containing:

- purge shut-off valve at flow start.

Boiler electric command panel, IP 55 electrical protection, composed of:

- main switch;
- burner switch;
- electronic temperature regulator for two-stage burner control;
- high pressure light and alarm reset button;
- high temperature light and alarm reset button;
- alarm siren.