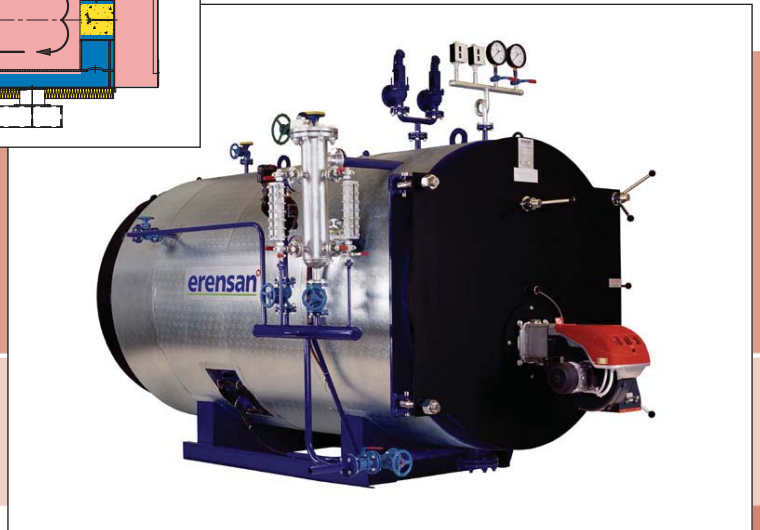
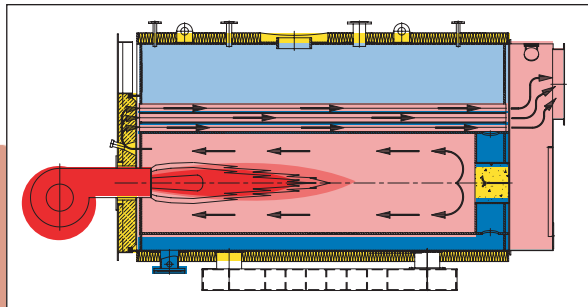


HDR

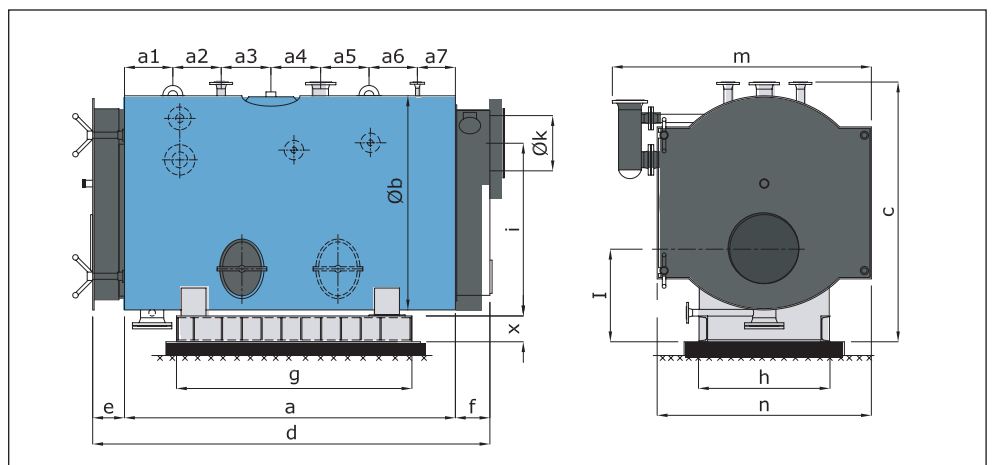
Reverse-flame steam boilers

- Computer aided design in compliance with latest CE pressure equipment directives and EN harmonised standards
- Production with plasma cutting machines and submerged arc welding/gas welding technologies
- Lloyds' approved hydraulic test certification
- 80% GCV efficiency oil or gas
- Add-on condensing economisers for further fuel saving
- Safe & easy to operate and maintain
- Skid-mounted package systems readily available



A TLANTIC
B OILERS
C
D B
E
F
G
H DR HPS HWR

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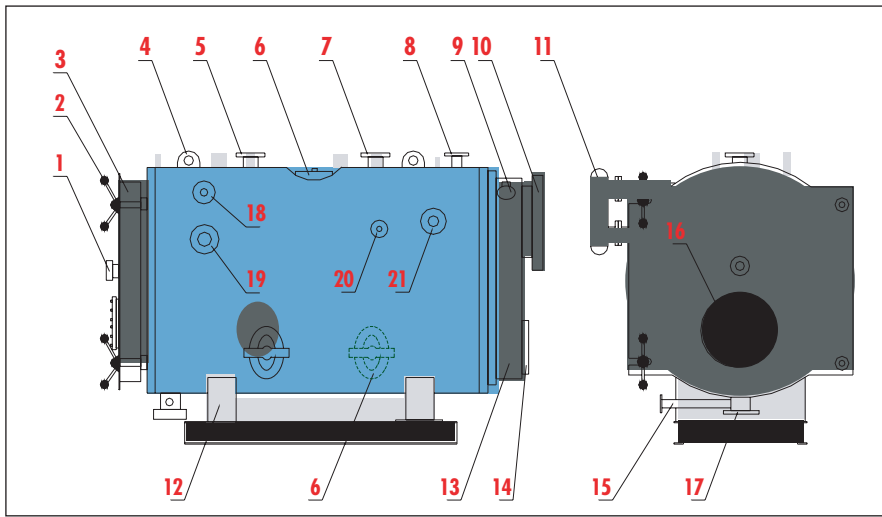


STANDARDS

Directive: 97/23/EEC PED Modules B & F
 Electrical appliances: 89/336/EEC EMC, 73/23 EEC LVD
 Steel plate material: P 295 GH & EN 10028 PART 1,2
 Tubes material: P 235 GH & EN 10216 PART 2
 Flanges material: P 265 GH & EN 1092 PART 1

Norms applied: EN 12953

Certification: EN 10204 - 3.1.C
 Certification: EN 10204 - 3.1.B
 Certification: EN 10204 - 3.1.B



OUTPUTS:
 250 kg/Hr to 5500 kg/Hr
 174kW to 3837kW

OPERATING PRESSURE
 6, 8, 10 & 12 BARS
OPERATING TEMP 165°C to 190°C

- | | | |
|----------------------|------------------------|---------------------|
| 1 Flame inspection | 10 Flue gases outlet | 17 Bottom mud |
| 2 Door handle | 11 Water level | blowdown outlet |
| 3 Access door | indicator | 18 level control |
| 4 Lifting bolt | 12 Boiler skid | connections |
| 5 Safety valve | 13 Flue outlet chamber | 19 Upper blowdown |
| connection | 14 Chamber cleaning | outlet |
| 6 Inspection manhole | door | 20 Water feed inlet |
| 7 Steam outlet | 15 Bottom blowdown | |
| 8 Air vent | outlet | |
| 9 Rupture aperture | 16 Burner flange | |

PERFORMANCE

Type: HDR	25	32	40	50	65	80	100	125	160	200	250	300	400	550
Steam output kg/hr	250	320	400	500	650	800	1000	1250	1600	2000	2500	3000	4000	5500
kW	174	223	279	349	453	558	698	872	1116	1395	1744	2093	2791	3837
Gas Input Nm ³ /h	221	283	354	443	575	708	885	1106	1416	1770	2213	2655	3540	4868
Oil Input kg/h	17	22	28	34	45	55	69	86	110	138	172	206	275	378
Flue Gas Pressure Drop mbar 0.8-1.2	1-1.5	2-2.5	2-2.5	2.5-3	3-3.5	4.5-5	5-5.5	5.5-6	5.5-6	6-6.5	6.5-7	7-7.5	7.5-8	
Dry Weight kg	1194	1194	1568	1568	1861	1861	2146	2516	2881	3609	4627	5430	6368	8007
Water Content lt	510	510	750	750	930	930	1150	1530	1860	2170	3100	3460	4380	6490
Steam Content lt	175	175	220	220	249	249	286	329	383	604	1003	1388	1611	2521
Burner head minimum projection mm	318	318	320	320	320	320	320	320	320	362	503	502	497	498

DIMENSIONS mm

Type: HDR	25	32	40	50	65	80	100	125	160	200	250	300	400	550
a	1325	1325	1645	1645	1800	1800	1985	2200	2395	2670	2850	3200	3425	3640
a1	236	236	280	280	320	320	355	379	410	495	419	450	460	685
a2	164	164	180	180	250	250	215	235	290	330	290	300	300	495
a3	220	220	265	265	260	260	330	345	460	380	465	400	399	610
a4	235	235	305	305	295	295	400	365	435	465	610	900	930	660
a5	170	170	200	200	210	210	370	340	360	400	315	310	579	330
a6	175	175	180	180	265	265	130	285	240	300	370	440	440	440
a7	125	125	235	235	200	200	185	250	200	300	380	400	315	420
Ø b	1170	1170	1240	1240	1320	1320	1400	1480	1550	1650	1922	2000	2110	2412
c	1500	1500	1585	1585	1688	1688	1751	1825	1896	2016	2285	2350	2470	2745
d	1763	1763	2083	2083	2288	2288	2473	2688	2883	3250	3390	3740	4015	4330
e	228	228	228	228	228	228	228	228	228	270	180	180	180	180
f	210	210	210	210	260	260	260	260	260	310	360	360	410	510
g	940	940	1180	1180	1314	1314	1480	1780	1780	2100	2000	2500	2650	2700
h	700	700	740	740	800	800	850	900	960	1040	1170	1190	1345	1420
i	1063	1063	1107	1107	1167	1167	1197	1280	1305	1421	1626	1644	1773	1984
l	654	654	677	677	743	743	730	771	796	841	948	949	992	1013
m	1537	1537	1580	1580	1682	1682	1762	1847	1922	2012	2298	2377	2492	2793
n	1170	1170	1240	1240	1320	1320	1400	1480	1550	1650	1922	2000	2110	2412
x	100	100	100	100	140	140	140	140	160	160	200	200	200	200

CONNECTIONS mm

Type: HDR	25	32	40	50	65	80	100	125	160	200	250	300	400	550
flue outlet Ø k	150	150	200	200	250	250	300	300	350	350	400	450	500	600

SPECIFICATION

- The HDR boiler has a reverse flame body with peripheral tubes and matching turbulators. A completely overall front door with ceramic fibre thermal insulation gives easy access to the combustion chamber and the flue gas tubes
- The body of the boiler has an insulating jacket of 100mm thick mineral wool and an enamelled outer steel jacket
- Standard controls include steam valve, two level indicators, one level control, two pressure switches, one safety pressure switch, manometers, two safety valves, blow-off and blow-down valves, vent valve and all necessary connections
- The HDR boilers is available in a steam pack which also incorporates matching oil or gas burner, duplex feed water pumps, an electrical control panel - all interconnected mechanically and electrically - mounted on a skid at the Factory