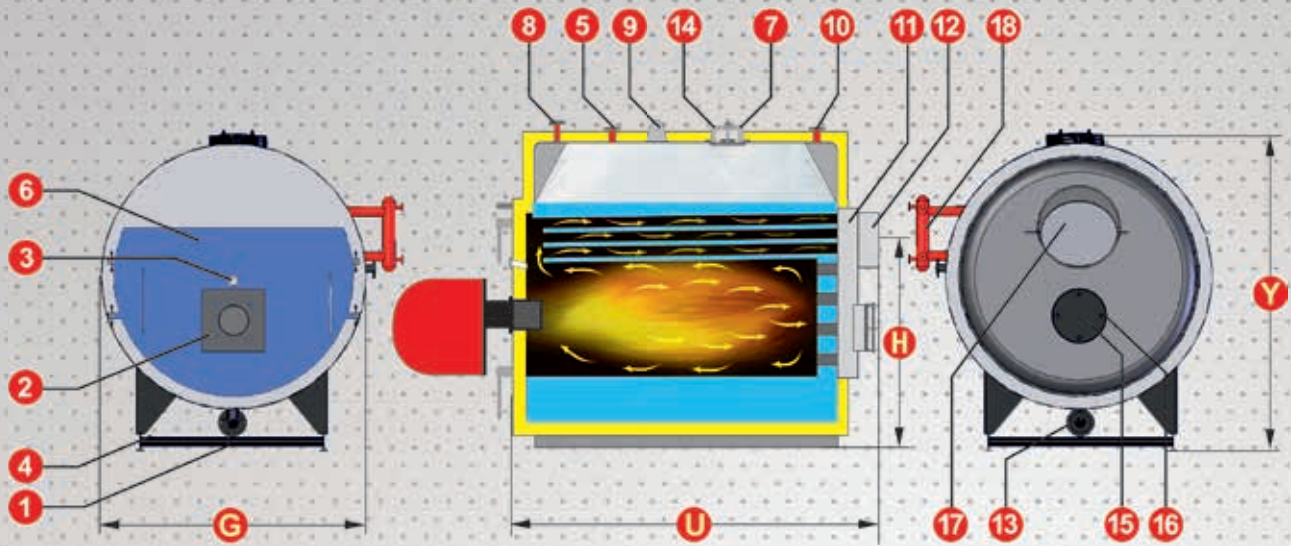


TS EN 12953-1-3
TS 377-1-2-3-4-5
ISO 9001-2008
BFPN:153-3000



THE FEATURES OF AKB-B LIQUED-GAS FUEL OPPOSITE PRESSURE STEAM BOILERS

- It complies with TS EN 12953-1-3, TS 377-1-2-3-4-5-6-7-8-10-11-12-14, TS EN 12953-1-2-3-4-5-6-7-8-10-11-12-14 standards.
- It is high efficient. It has 90% and more efficiency values.
- Its transportation and installation is easy.
- It provides package type manufacturing opportunity.
- It is ergonomic and easy to use.
- With special design providing maximum heat transfer, it transport the energy obtained as a conclusion of burning to the fluid at maximum level.
- It provides installation and maintenance facility.
- Burning efficiency is high.
- It has large burning cell with completely undulated.
- Thanks to undulated burning cell, it protects burning cell against the pressure from outside and the dimension changes arising from extraneous stretching.
- AKB-B type cylindrical flame-smoke tube steam boilers has flame recycled two-flow combustion cell. Flame occurred with the first flow reversed within combustion cell. Returned flame burns the unburned fuel and unburned fuel again ensures to obtain good burning at high flame temperature. At the third flow, burnt gases passing through the steam pipes transfer their energy into water.
- In order to occur a good combustion (so, high boiler efficiency), burning cell volume is kept at a sufficient size.
- Water volume of the boiler is kept as low as possible. So, immediate and sudden steam is obtained.
- Heat transfer rates and thermal tensions are distributed homogeneously on the boiler heat transfer surfaces.
- It has optimum
- The design and manufacturing of AKB-B type cylindrical steam boilers are manufactured y in accordance with TRD, DIN, EN, TS and material norms.
- It does not create chimney draft problems since it provides optimum pressure values within the boiler.
- Thanks to superior construction and manufacturing technology, the condensations in the boiler can be prevented and the boiler life is prolonged.
- BFPN: 153.3100, 3 are liquid-gas fuel boilers made from steam producer steel material under 3 atm construction pressures.
- BFPN: 153. 3400, 6 are liquid-gas fuel boilers made from steam producer steel material under 6 atm construction pressures.



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|--------------------------|---|----------------------|---------------------|
| 1. Drainage | 6. Front steam boxes | 10. Safety output | 15. Cleaning cover |
| 2. Burner Flange | 7. Hand hole | 11. Rear smoke boxes | 16. Bursting hinge |
| 3. Flare peep cover | 8. Prosestad, manometer and thermometer nozzles | 12. Smoke channel | 17. Chimney Clapper |
| 4. Ground anchor profile | 9. Transport ring | 13. Foot bluff hole | 18. Level collector |
| 5. Steam exit | | 14. Man hole | |

THE TECHNICAL DIMENSIONS OF AKB-B LIQUED-GAS FUEL OPPOSITE PRESSURE STEAM BOILERS

BOILER TYPE	UNIT	AKB-B 250	AKB-B 300	AKB-B 350	AKB-B 400	AKB-B 450	AKB-B 500	AKB-B 600	AKB-B 750	AKB-B 1000
Steam Capacity	Kg/h	250	300	350	400	450	500	600	750	1.000
Heat Capacity	Kcal/h	150.000	180.000	210.000	240.000	270.000	300.000	360.000	450.000	600.000
Width (G)	mm	1.150	1.200	1.250	1.250	1.300	1.460	1.350	1.350	1.400
Length (U)	mm	1.700	1.800	2.000	2.100	2.100	2.200	2.350	2.450	2.500
Height (Y)	mm	1.150	1.500	1.500	1.600	1.600	1.600	1.700	1.750	1.800
Funnel axis height (H)	mm	950	1.300	1.300	1.400	1.400	1.260	1.360	1.300	1.250
Base width x length	mm	1250x1800	1300x1900	1350x2100	1350x2200	1400x2200	1560x2300	1450x2450	1450x2550	1500x2600
Max. Steam Dome Volume	Lt	295	355	415	470	530	620	710	950	1.190
Water volume	Lt	410	510	680	750	800	900	930	980	1.150
Funnel diameter	Ø mm	200	250	250	250	250	300	300	350	350
Steam outlet diameter	Ø mm	32	40	40	40	50	50	50	65	65
Security Valve Outlet	Ø mm	20/32	20/32	20/32	20/32	20/32	20/32	20/32	20/32	25/40
Foot blowdown outlet	Ø mm	40	40	40	40	40	40	40	40	40
Weight (6 Bar)	Kg	600	740	840	900	920	1.230	1.415	1.765	1.930
Weight (8 Bar)	Kg	650	795	895	975	1.010	1.315	1.508	1.898	2.065
Weight (10 Bar)	Kg	700	850	950	1.050	1.100	1.400	1.600	2.030	2.200
Counter Pressure	mBar	2,2	2,5	3,5	3,5	3,5	3,5	4,0	4,5	6,0

BOILER TYPE	UNIT	AKB-B 1250	AKB-B 1500	AKB-B 1750	AKB-B 2000	AKB-B 2500	AKB-B 3000	AKB-B 3500	AKB-B 4000	AKB-B 5000
Steam Capacity	Kg/h	1.250	1.500	1.750	2.000	2.500	3.000	3.500	4.000	5.000
Heat Capacity	Kcal/h	750	900.000	1.050.000	1.200.000	1.500.000	1.800.000	2.100.000	2.400.000	3.000.000
Width (G)	mm	1.500	1.550	1.750	1.860	2.000	2.000	2.150	2.200	2.400
Length (U)	mm	2.700	2.900	3.000	3.020	3.450	3.500	3.850	4.100	4.300
Height (Y)	mm	1.900	1.900	2.000	2.190	2.300	2.400	2.450	2.500	2.700
Funnel axis height (H)	mm	1.350	1.350	1.450	1.630	1.740	1.840	1.890	1.990	2.250
Base width x length	mm	1600x2800	1650x3000	1850x3100	1960x3120	2100x3550	2100x3600	2250x3950	2300x4200	2500x4400
Max. Steam Dome Volume	Lt	1.490	1.590	1.600	2.100	2.500	2.800	2.900	3.100	3.700
Water volume	Lt	1.550	1.750	2.000	2.800	3.100	3.450	4.000	4.400	6.250
Funnel diameter	Ø mm	400	400	450	500	500	550	600	600	650
Steam outlet diameter	Ø mm	80	80	100	100	100	125	125	125	150
Security Valve Outlet	Ø mm	25/40	25/40	32/50	32/50	40/65	40/65	50/80	50/80	50/80
Foot blowdown outlet	Ø mm	40	40	40	40	40	40	40	40	40
Weight (6 Bar)	Kg	2.400	2.700	2.970	3.565	4.050	4.990	5.880	7.050	6.540
Weight (8 Bar)	Kg	2.575	2.900	3.185	4.083	4.350	5.295	6.290	6.925	8.145
Weight (10 Bar)	Kg	2.750	3.100	3.400	4.600	4.650	5.600	6.700	6.800	9.750
Counter Pressure	mBar	6,5	7,0	7,0	7,0	7,5	8,0	8,5	8,5	9,0

- The capacities specified on the table were calculated due to the input values of 6 bar operating water volume and 1000°C sap.
- Security exits specified on the table was detected due to full lifting security valves emptying capacity and opening adjustment pressure was detected according to 6,5 bar.
- Base width must be accepted minimum as 100 mm.
- The right of making change in technical issues is reserved by our firm.
- Special designs and manufacturing can be done.