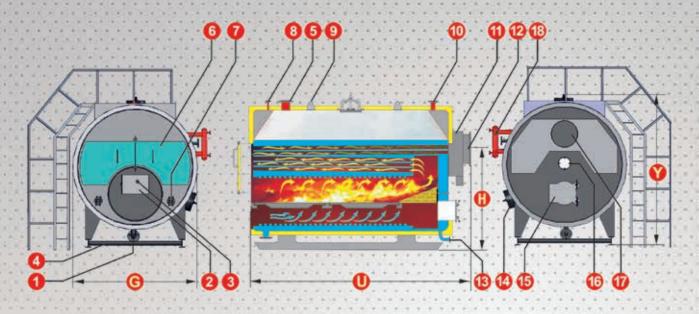


THE FEATURES OF ASSK-B SOLID FUEL CYLINDRICAL SCOTCH TYPE THREE-PASS SINGLE-FURNACE STEAM BOILERS

- 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 burns solid fuel with high efficacy.
- Stoker crucible or grills within combustion chamber are removed easily and they are made suitable for burning liquid and gas fuel in a short time.
- It is manufactured with computer aided design and manufacturing technology in accordance with CE quality standards, TRD pressure vessels directive, EN, TSE standards.
- Thanks to large water and steam, it easily meets the necessary steam need in intensive and persistent working conditions and sudden steam traction.
- With the advantage of high heating surface, it provides acquiring drier steam with higher energy.
- It is three transitional and it allows maximum utilization from the fuel with tube bundle design between the transitions.
- With low counter pressure values, it provides better burning and less energy consumption.

- It operates safer with the pipes welded to the mirrors and it is more durable than the equivalents.
- With Optimum isolation, it ensures maximum efficacy and maximum performance.
- Optimum combustion chamber dimensions ensure high heat transfer, radiation, more efficient usage of heat transfer surfaces and the occurrence of full burning in combustion chamber.
- It provides high efficient full burning without economizers; it provides an environmentally friendly burning graph and reduces fuel consumption.
- In order to meet customer expectations, it increases production capacity range appropriate for need and the manufacturing is conducted.
- BFPN: 153.1100 are solid fuel boilers made from steam producer steel material under 3 atm construction pressure.
- BFPN: 153.1400 are solid fuel boilers made from steam producer steel material under 6 atm construction pressure.



1.	Drainage
2.	Coal throwing cover
3.	Flare peep cover
4.	Ground anchor profile
5.	Steam exit

6.	Front steam boxes
7.	Hand hole
8.	Prosestad, manometer and
	thermometer nozzles
9.	Transport ring

7	10.	Safety output
-	11.	Rear smoke boxes
-	12.	Smoke channel
	13.	Foot bluff hole
	14.	Man hole

15.	Cleaning cover
16.	Bursting hinge
17.	Chimney Clapper
18.	Level collector

TECHNICAL DIMENSIONS OF ASSK-B SOLID FUEL CYLINDRICAL
SCOTCH TYPE THREE-PASS SINGLE-FURNACE STEAM BOILERS

BOILER TYPE	UNIT	ASSK-B 30	ASSK-B 40	ASSK-B 50	ASSK-B 55	ASSK-B 60	ASSK-B 65	ASSK-B 70	ASSK-B 75	ASSK-B 80
Total Heating Surface	m ²	30	40	50	55	60	65	70	75	80
Heating Capacity (with stocker)	Kcal/h	300.000	400.000	500.000	550.000	600.000	650.000	700.000	750.000	800.000
Heating Capacity (manual loading)	Kcal/h	180.000	240.000	300.000	330.000	360.000	390.000	420.000	450.000	480.000
Width	mm	2.250	2.250	2.300	2.300	2.450	2.500	2.500	2.500	2.500
Length (I)	mm	3.500	3.750	3.650	3.850	3.900	3.850	4.100	4.100	4.100
Height V	mm	2.500	2.500	2.550	2.550	2.700	2.700	2.750	2.750	2.750
Funnel axis height 🕕	mm	1.940	1.990	2.100	2.100	2.250	2.300	2.300	2.300	2.300
Base width x length	mm	2350x3600	2350x3850	2400x3750	2400x3950	2.550x4000	2600x3950	2600x4200	2.600x4.200	2.600x4200
Max. Steam Dome Volume	Lt	2.100	2.300	2.400	2.600	3.200	3.300	3.400	3.450	3.450
Water volume	Lt	4.400	4.800	5.000	5.300	6.300	6.400	6.500	6.200	6.000
Funnel diameter	Ø mm	450	500	500	500	500	500	500	500	550
Steam outlet diameter	Ø mm	50	50	65	65	65	65	80	80	80
Security Valve Outlet	Ø mm	20/32	20/32	25/40	25/40	25/40	25/40	25/40	25/40	25/40
Foot blowdown outlet	Ø mm	40	40	40	40	40	40	40	40	40
Weight (6 Atü)	Kg	3.800	5.000	6.300	6.400	6.480	6.525	6.650	6.775	6.900
Weight (8 Atü)	Kg	5.215	6.665	8.400	8.530	8.640	8.700	8.865	9.032,5	9.200
Weight (10 Atü)	Kg	6.630	8.330	10.500	10.660	10.800	10.875	11.080	11.290	11.500
Counter Pressure	mBar	5,0	6,7	7,0	8,0	8,0	8,0	8,0	8,0	8,0

BOILER TYPE	UNIT	ASSK-B 85	ASSK-B 90	ASSK-B 95	ASSK-B 100	ASSK-B 125	ASSK-B 150	ASSK-B 175	ASSK-B 200	ASSK-B 250
Total Heating Surface	m ²	85	90	95	100	125	150	175	200	250
Heating Capacity (with stocker)	Kcal/h	850.000	900.000	950.000	1.000.000	1.250.000	1.500.000	1.750.000	2.000.000	2.500.000
Heating Capacity (manual loading)	Kcal/h	510.000	540.000	570.000	600.000	750.000	900.000	1.050.000	1.200.000	1.500.000
Width (f)	mm	2.500	2.550	2.550	2.550	2.250	2.750	2.800	2.900	2.900
Length (I)	mm	4.200	4.650	4.650	4.650	5.250	5.250	5.750	6.250	6.750
Height V	mm	2.750	2.800	2.800	2.800	2.800	3.050	3.100	3.200	3.200
Funnel axis height 🕕	mm	2.300	2.350	2.350	2.350	2.350	2.600	2.650	2.750	2.750
Base width x length	mm	2600x4300	2650x4750	2650x4750	2650x4750	2350x5350	2850X5350	2900x5850	3000x6350	3000x6850
Max. Steam Dome Volume	Lt	3.500	3.600	3.700	3.800	3.900	5.200	5.500	5.900	6.300
Water volume	Lt	6.400	6.800	7.750	8.500	10.000	11.800	14.600	16.000	17.400
Funnel diameter	Ø mm	550	550	550	550	550	650	750	800	850
Steam outlet diameter	Ø mm	80	80	80	80	100	100	100	125	125
Security Valve Outlet	Ø mm	25/40	25/40	25/40	25/40	32/50	32/50	40/65	40/65	50/80
Foot blowdown outlet	Ø mm	40	40	40	40	40	40	40	40	40
Weight (6 Atü)	Кд	7.150	7.550	7950	8.400	9.100	10.760	12.420	14.080	15.741
Weight (8 Atü)	Kg	9.525	10.065	10.600	11.200	12.130	14.345	16.560	18.770	20.988
Weight (10 Atü)	Кg	11.900	12.580	13.250	14.000	15.160	17.930	20.700	23.460	26.235
Counter Pressure	mBar	8,0	8,0	8,0	8,0	8,0	8,0	8,0	8,0	9,0

The capacities specified on the table were calculated due to the input values of 6 bar operating water volume and 100°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.