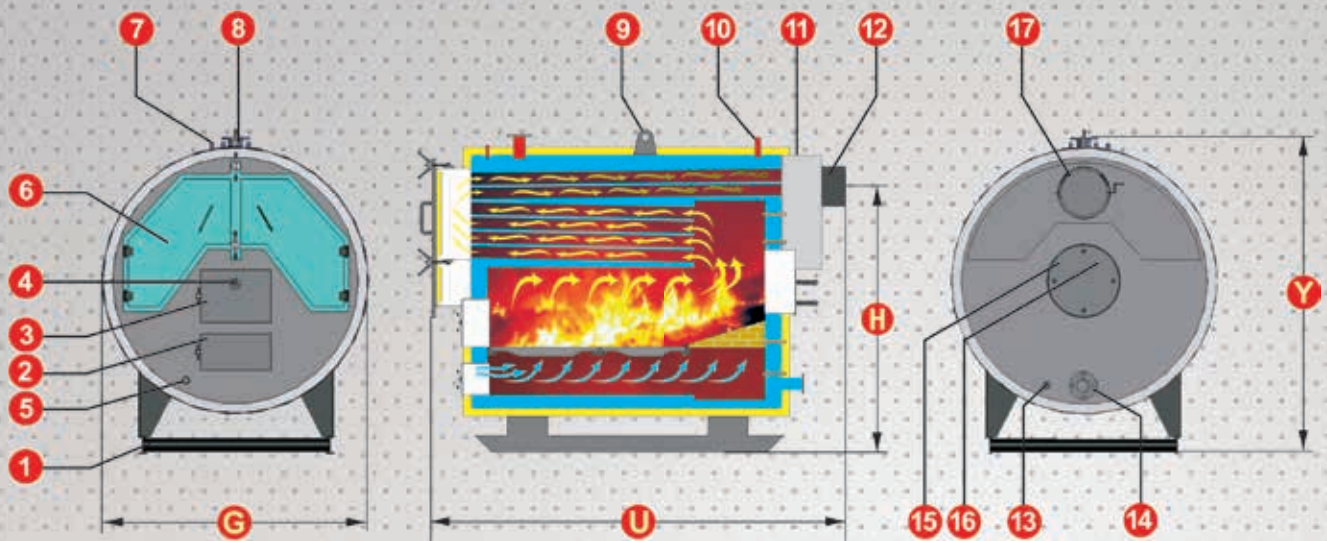


TS EN 12953-1-2-3
 TS EN 303-5
 TS 497
 ISO 9001-2008
 BFPN : 152-1000



AKKD CHARACTERISTICS OF SOLID FUEL CYLINDERIC SCOTCH TYPE THREE PASS HEATING BOILERS

- They have the design and manufacture appropriate for burning low calorie lignite and solid fuels that have high energy and quarried in this country with high efficiency with their developed special burning chamber and grid design.
- Their cylindrical type structure and special design enables the fluid to circulate within the boiler homogenously and enables transfer of the energy within the fuel to the fluid in high efficiency.
- Heat efficiency of ASSK type heating boilers is 86% and higher.
- They react to demands rapidly with their low water volume and exceed the condensation limit that is effective for all boilers in a short time and step in rapidly.
- ASSK type heating boilers have flare and smoke pipes and the boiler pipes are assembled on the mirrors by welding.
- The boilers' behavior under pressure is secured with their symmetric cylindrical construction and pressure resistance of the boiler is improved relatively.
- Thermic tensions that occur during welding are distributed to the entire boiler surface homogenously with the boiler sheets that are cut in special angles and the life of the boiler is extended.
- ASSK type heating boilers have a three transitive structure and the boiler life is longer than that of the reverse pressure and other type of boilers.
- They enable burning of economical fuels such as coal, wood, coking coal and lignite with ALFA guarantee without sacrificing comfort and efficiency.
- The compact structure enabled by their small dimensions and low weights ease the transportation and placement matters which are very important in high capacities.
- High efficiency burning is achieved compatible with the automatic burning units and mechanical dust coal burning (AST stoker) systems.
- They work very quietly and efficiently owing to their high design and construction technology.
- ASSK type heating boilers can be turned into heating boilers with liquid-gas fuels in a very short time with the cap revision when desired. The capacity is improved 2,5 folds as a result of liquid-gas fuel burning transformation.
- Heat insulation of the boiler is very good. The entire boiler is coated with an insulation material.
- They are made fit to burn natural gas with the cap revision when desired.



1. Ground anchorage plate	6. Front smoke box	10. Safety exit	15. Cleaning cap
2. Ash removal cap	7. Thermometer, manometer and hydrometer connection nozzles	11. Back smoke box	16. Explosion cap
3. Coal loading cap	8. Hot water exit	12. Smoke canal	17. Chimney valve
4. Flare monitoring cap	9. Carriage ring	13. Safety entry	
5. Filling emptying nozzle		14. Hot water return	

TECHNICAL MEASUREMENTS OF ASSK SOLID FUEL CYLINDRICAL SCOTCH TYPE THREE PASS HEATING BOILERS

BOILER TYPE	UNIT	ASSK 60	ASSK 80	ASSK 90	ASSK 100	ASSK 120	ASSK 150	ASSK 200	ASSK 230	ASSK 250
Capacity	Kcal/h	60.000	80.000	90.000	100.000	120.000	150.000	200.000	230.000	250.000
Capacity	kW	70	93	105	116	140	174	233	267	291
Capacity	⊘ mm	1.550	1.550	1.550	1.550	1.550	1.680	1.750	1.750	1.750
Width	mm	2.100	2.100	2.150	2.400	2.600	2.600	2.600	2.800	2.800
Length	mm	1.810	1.810	1.810	1.820	1.840	1.990	2.115	2.060	2.060
Height	mm	1.495	1.950	1.495	1.495	1.510	1.665	1.670	1.625	1.625
Funnel axis height	mm	1650x2200	1650x2200	1650x2250	1650x2500	1650x2700	1780x2700	1850x2700	1880x2900	1850x2900
Heater input/return	PN6	2"	2"	2"	2"	∅ 65	∅ 65	∅ 65	∅ 80	∅ 80
Security Input	PN6	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/2"	1 1/2"	1 1/2"
Security Return	PN6	1"	1"	1"	1"	1"	1"	1 1/4"	1 1/4"	1 1/4"
Funnel Outlet	∅ mm	250	250	250	250	250	300	300	350	350
Weight	Kg	1.590	1.610	1.614	1.764	2.016	2.486	2.602	2.865	3.125
Water Volume	Lt	1.344	1.296	1.270	1.616	1.813	2.260	2.263	2.449	2.536
Counter Pressure	mbar	0,70	0,70	0,80	0,90	1,10	1,55	1,80	2,17	2,44

BOILER TYPE	UNIT	ASSK 280	ASSK 300	ASSK 330	ASSK 350	ASSK 400	ASSK 420	ASSK 450	ASSK 500	ASSK 600
Capacity	Kcal/h	280.000	300.000	330.000	350.000	400.000	420.000	450.000	500.000	600.000
Capacity	kW	326	349	384	407	465	488	523	581	698
Width	∅ mm	1.750	1.750	1.750	1.750	2.000	2.200	2.200	2.200	2.200
Length	mm	3.100	3.100	3.600	3.600	3.300	3.300	3.300	3.300	3.700
Height	mm	2.105	2.105	2.060	2.070	2.320	2.515	2.515	2.515	2.515
Chimney axial height	mm	1.670	1.670	1.625	1.635	1.845	2.020	2.020	2.020	2.020
Base width x length	mm	1850x3200	1850x3200	1850x3700	1850x3700	2100x3400	2300x3400	2300x3400	2300x3400	2300x3800
Boiler departure/ return	PN6	∅ 80	∅ 80	∅ 80	∅ 80	∅ 100	∅ 100	∅ 100	∅ 100	∅ 125
Safety departure	PN6	1 1/2"	1 1/2"	2"	2"	2"	2"	2"	2"	2"
Safety return	PN6	1 1/4"	1 1/4"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"
Chimney exit	∅ mm	400	400	450	450	500	550	550	550	550
Weight	Kg	3.215	3.302	3.604	3.906	4.309	4.653	4.997	5.322	6.364
Water volume	Lt	2.717	2.897	3.223	3.548	4.512	4.924	5.336	5.133	5.945
Counter pressure	mbar	2,57	2,70	3,00	3,40	3,80	4,20	4,60	5,00	5,40

- Base height must be accepted as minimum 100mm.
- The right to make modification in the technical matters is reserved by our company.
- Special designs and manufacturing can be made.