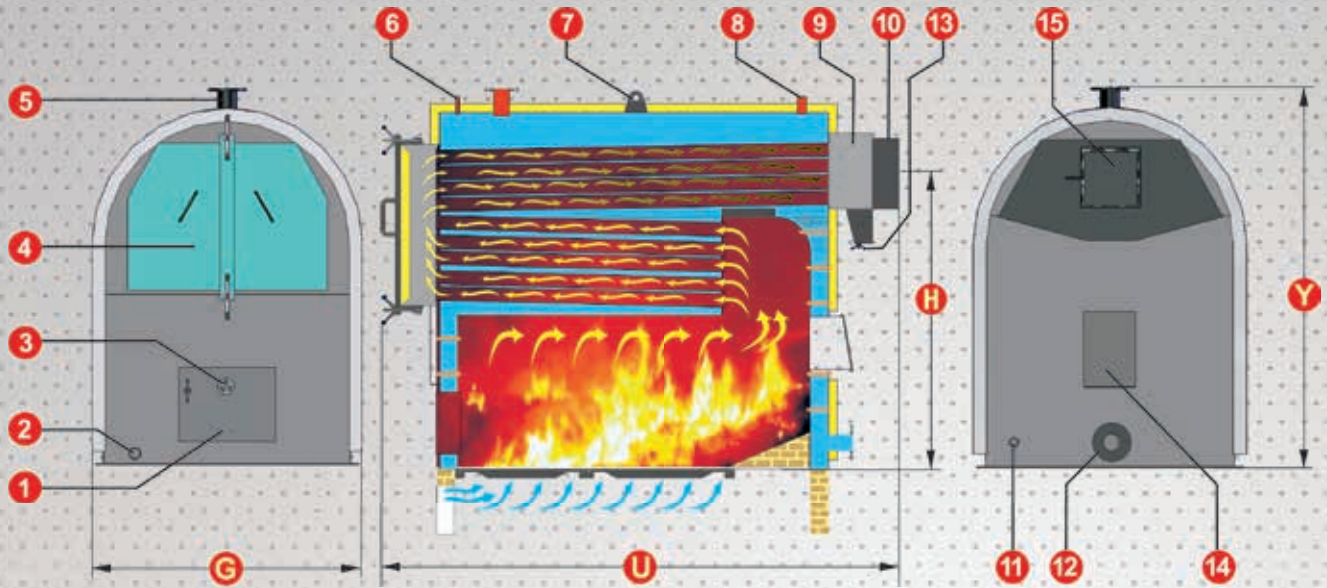




**TS EN 12953-1-2-3**  
**TS EN 303-5**  
**TS 497**  
**ISO 9001-2008**  
**BFPN : 152-1000**

**FEATURES OF AYSK SOLID FUEL HALF-CYLINDRICAL THREE PASS HEATING BOILERS**

- They have design and construction appropriate for burning with high efficiency of low calorie lignite quarried in this country and solid fuels having high energy with their developed special burning chamber and grid design.
- Burning air control can be achieved by the fan couple made in the boiler cap and thermostat control.
- Burning efficiency values in AYSK type hot water heating boilers is achieved to be 86% and higher.
- Their usage and maintenance is easy and this enables easy intervention to the boiler as the system works.
- They are sensitive to the environment and have low emission values.
- The mirrors are cut in special angles and condensation of thermic tensions that are generated on them is prevented.
- The boiler's life time is extended by the three-transitive design.
- Thanks to their ergonomic design, they take a small space.
- They provide assembly and disassembly convenience.
- They have design and construction appropriate for burning with high efficiency of low calorie lignite quarried in this country and solid fuels having high energy with their developed special burning chamber and grid design.
- They work very quietly and efficiently owing to high design and construction technology.
- Equal amount of full heat transfer is achieved in all surfaces within the boiler.
- They have the characteristic to work in conformity with mechanical dust coal burner (AST-stoker).
- The boilers have flare-smoke pipes and the boiler pipes are welded to the mirrors. It is possible to manufacture them with makinoto based on desire.
- Their design and manufacture are appropriate to the change of the boiler pipes when needed.



- |                            |                                    |                      |                   |
|----------------------------|------------------------------------|----------------------|-------------------|
| 1. Coal loading cap        | 5. Hot water exit                  | 9. Back smoke box    | 13. Cleaning cap  |
| 2. Filling-emptying nozzle | 6. Thermometer, hydrometer nozzles | 10. Smoke canal      | 14. Explosion cap |
| 3. Flare monitoring cap    | 7. Carriage ring                   | 11. Safety entry     | 15. Chimney valve |
| 4. Front smoke box         | 8. Safety exit                     | 12. Hot water return |                   |

### TECHNICAL MEASUREMENTS OF AYSK SOLID FUEL HALF-CYLINDRICAL THREE PASS HEATING BOILERS

BOILER TYPE	UNIT	AYSK 5	AYSK 10	AYSK 15	AYSK 20	AYSK 25	AYSK 30	AYSK 35	AYSK 40	AYSK 45	AYSK 50	AYSK 55	AYSK 60
Capacity	Kcal/h	30.000	60.000	90.000	120.000	150.000	180.000	210.000	240.000	270.000	300.000	330.000	360.000
Capacity	kW	35	70	105	140	174	209	244	279	314	349	384	419
Width	m <sup>2</sup>	5	10	15	20	25	30	35	40	45	50	55	60
Length	mm	850	1.040	1.040	1.140	1.240	1.340	1.340	1.340	1.440	1.540	1.540	1.640
Height	mm	1.270	1.850	2.100	2.450	2.600	2.600	2.900	2.850	2.850	2.850	3.100	2.900
Chimney axial height	mm	1.325	1.365	1.525	1.585	1.685	1.830	1.845	1.965	2.085	2.135	2.140	2.310
Base width x length	mm	1.025	1.015	1.150	1.205	1.245	1.410	1.410	1.490	1.615	1.665	1.665	1.760
Boiler departure/ return	PN6	1 1/4"	2"	2"	Ø 65	Ø 65	Ø 65	Ø 65	Ø 80	Ø 80	Ø 80	Ø 80	Ø 100
Safety departure	PN6	1"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	2"	2"
Safety return	PN6	3/4"	1"	1"	1"	1"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/2"	1 1/2"
Chimney exit	mm	135x135	200x200	200x200	250x250	250x300	250x300	300x300	350x350	300x400	400x400	400x400	450x450
Weight	Kg	393	906	1.549	1.675	1.801	2.151	2.458	2.656	2.948	3.230	3.553	3.677
Water volume	Lt	385	826	976	1.297	1.495	1.930	2.253	2.340	2.701	2.907	3.250	3.257
Counter pressure	mbar	0,7	0,7	0,8	1,1	1,6	1,8	2,2	2,4	2,6	2,7	3,0	3,4

BOILER TYPE	UNIT	AYSK 65	AYSK 70	AYSK 75	AYSK 80	AYSK 85	AYSK 90	AYSK 100	AYSK 110	AYSK 120	AYSK 130	AYSK 140	AYSK 150
Capacity	Kcal/h	390.000	420.000	450.000	480.000	510.000	540.000	600.000	660.000	720.000	780.000	840.000	900.000
Capacity	kW	453	488	523	558	593	628	698	767	837	907	977	1.047
Width	m <sup>2</sup>	65	70	75	80	85	90	100	110	120	130	140	150
Length	mm	1.640	1.640	1.640	1.740	1.740	1.740	1.740	1.740	1.850	1.850	2.140	2.140
Height	mm	3.120	3.200	3.400	3.200	3.250	3.300	3.550	3.800	4.050	4.200	3.700	3.750
Chimney axial height	mm	2.310	2.310	2.310	2.555	2.555	2.500	2.615	2.615	2.580	2.580	2.670	2.820
Base width x length	mm	1.760	1.760	1.770	1.945	1.945	1.945	2.055	2.055	2.060	2.060	2.145	2.275
Boiler departure/ return	PN6	Ø 100	Ø 100	Ø 100	Ø 100	Ø 100	Ø 100	Ø 125	Ø 125	Ø 125	Ø 125	Ø 125	Ø 125
Safety departure	PN6	2"	2"	2"	2"	2"	2"	2"	2"	Ø 65	Ø 65	Ø 65	Ø 65
Safety return	PN6	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	2"	2"	2"	2"
Chimney exit	mm	450x450	450x450	500x500	500x600	500x600	500x600	500x600	500x600	500x600	500x600	600x600	600x600
Weight	Kg	3.956	4.183	4.324	4.437	4.762	5.087	5.589	6.250	6.800	7.600	8.150	9.525
Water volume	Lt	3.512	3.341	3.617	3.612	4.000	4.397	5.307	5.830	6.300	6.300	6.900	7.950
Counter pressure	mbar	3,8	4,2	4,6	5,0	5,2	5,3	5,4	5,6	5,8	6,0	6,4	12,6

- Base height must be accepted as minimum 450mm.
- The right to make modification in the technical matters is reserved by our company.
- Special designs and manufacturing can be made.