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.



Ash removal cap 2. Coal loading cap 3. 4. Flare monitoring cap 5. Filling emptying nozzle

Ь.	Front smoke box
7.	Thermometer, manometer and
	hydrometer connection nozzles
8.	Hot water exit
9.	Carriage ring

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10.	Safety exit	
11.	Back smoke box	
12.	Smoke canal	
13.	Safety entry	
14.	Hot water return	

2	15.	Cleaning cap
	16.	Explosion cap
ĉ	17.	Chimney valve
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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 🕞	Ø mm	1.550	1.550	1.550	1550	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"	Ø 65	Ø 65	Ø 65	Ø 80	Ø 80
Security Input	PN6	11/4"	11/4"	11/4"	11/4"	11/4"	11/4"	11/2"	11/2"	11/2"
Security Return	PN6	1"	1"	1"	1"	1"	1"	11/4"	11/4"	11/4"
Funnel Outlet	Ømm	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	1270	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
BOILER TYPE Capacity	UNIT Kcal/h	ASSK 280 280.000	ASSK 300 300.000	ASSK 330 330.000	ASSK 350 350.000	ASSK 400 400.000	ASSK 420 420.000	ASSK 450 450.000	ASSK 500 500.000	ASSK 600 600.000
BOILER TYPE Capacity Capacity	UNIT Kcal/h kW	ASSK 280 280.000 326	ASSK 300 300.000 349	ASSK 330 330.000 384	ASSK 350 350.000 407	ASSK 400 400.000 465	ASSK 420 420.000 488	ASSK 450 450.000 523	ASSK 500 500.000 581	ASSK 600 600.000 698
BOILER TYPE Capacity Capacity Width	UNIT Kcal/h kW Ø mm	ASSK 280 280.000 326 1.750	ASSK 300 300.000 349 1.750	ASSK 330 330.000 384 1.750	ASSK 350 350.000 407 1750	ASSK 400 400.000 465 2.000	ASSK 420 420.000 488 2.200	ASSK 450 450.000 523 2.200	ASSK 500 500.000 581 2.200	ASSK 600 600.000 698 2.200
BOILER TYPE Capacity Capacity Width Length	UNIT Kcal/h kW Ø mm mm	ASSK 280 280.000 326 1.750 3.100	ASSK 300 300.000 349 1.750 3.100	ASSK 330 330.000 384 1.750 3.600	ASSK 350 350.000 407 1750 3.600	ASSK 400 400.000 465 2.000 3.300	ASSK 420 420.000 488 2.200 3.300	ASSK 450 450.000 523 2.200 3.300	ASSK 500 500.000 581 2.200 3.300	ASSK 600 600.000 698 2.200 3.700
BOILER TYPE Capacity Capacity Width Length Height	UNIT Kcal/h kW Ø mm mm mm	ASSK 280 280.000 326 1.750 3.100 2.105	ASSK 300 300.000 349 1.750 3.100 2.105	ASSK 330 330.000 384 1.750 3.600 2.060	ASSK 350 350.000 407 1750 3.600 2.070	ASSK 400 400.000 465 2.000 3.300 2.320	ASSK 420 420.000 488 2.200 3.300 2.515	ASSK 450 450.000 523 2.200 3.300 2.515	ASSK 500 500.000 581 2.200 3.300 2.515	ASSK 600 600.000 698 2.200 3.700 2.515
BOILER TYPE Capacity Capacity Width Length Height Y Chimney axial height	UNIT Kcal/h kW Ø mm mm mm mm	ASSK 280 280.000 326 1.750 3.100 2.105 1.670	ASSK 300 300.000 349 1.750 3.100 2.105 1.670	ASSK 330 330.000 384 1.750 3.600 2.060 1.625	ASSK 350 350.000 407 1750 3.600 2.070 1.635	ASSK 400 400.000 465 2.000 3.300 2.320 1.845	ASSK 420 420.000 488 2.200 3.300 2.515 2.020	ASSK 450 450.000 523 2.200 3.300 2.515 2.020	ASSK 500 500.000 581 2.200 3.300 2.515 2.020	ASSK 600 600.000 698 2.200 3.700 2.515 2.020
BOILER TYPE Capacity Capacity Width Length Height Chimney axial height Base width x length	UNIT Kcal/h kW Ø mm mm mm mm mm	ASSK 280 280.000 326 1.750 3.100 2.105 1.670 1850x3200	ASSK 300 300.000 349 1.750 3.100 2.105 1.670 1850x3200	ASSK 330 330.000 384 1.750 3.600 2.060 1.625 1850x3700	ASSK 350 350.000 407 1750 3.600 2.070 1.635 1850x3700	ASSK 400 400.000 465 2.000 3.300 2.320 1.845 2100x3400	A55K 420 420.000 488 2.200 3.300 2.515 2.020 2300x3400	ASSK 450 450.000 523 2.200 3.300 2.515 2.020 2300x3400	ASSK 500 500.000 581 2.200 3.300 2.515 2.020 2300x3400	ASSK 600 600.000 698 2.200 3.700 2.515 2.020 2300x3800
BOILER TYPE Capacity Capacity Width Length Height Chimney axial height Base width x length Boiler departure/ return	UNIT Kcal/h kW Ø mm mm mm mm PN6	ASSK 280 280.000 326 1.750 3.100 2.105 1.670 1850x3200 Ø 80	ASSK 300 300.000 349 1.750 3.100 2.105 1.670 1850x3200 Ø 80	ASSK 330 330.000 384 1.750 3.600 2.060 1.625 1850x3700 Ø 80	ASSK 350 350.000 407 1750 3.600 2.070 1.635 1850x3700 Ø 80	ASSK 400 400.000 465 2.000 3.300 2.320 1.845 2100x3400 Ø 100	ASSK 420 420.000 488 2.200 3.300 2.515 2.020 2300x3400 Ø 100	ASSK 450 450.000 523 2.200 3.300 2.515 2.020 2300x3400 Ø 100	ASSK 500 500.000 581 2.200 3.300 2.515 2.020 2300x3400 Ø 100	ASSK 600 600.000 698 2.200 3.700 2.515 2.020 2300x3800 Ø 125
BOILER TYPE Capacity Capacity Width Length Height Chimney axial height Base width x length Boiler departure/ return Safety departure	UNIT Kcal/h kW Ø mm mm mm mm PN6 PN6	ASSK 280 280.000 326 1.750 3.100 2.105 1.670 1850x3200 Ø 80 11/2"	ASSK 300 300.000 349 1.750 3.100 2.105 1.670 1850x3200 Ø 80 11/2"	ASSK 330 330.000 384 1.750 3.600 2.060 1.625 1850x3700 Ø 80 2"	ASSK 350 350.000 407 1750 3.600 2.070 1.635 1850x3700 Ø 80 2"	ASSK 400 400.000 465 2.000 3.300 2.320 1.845 2100x3400 Ø 100 2"	ASSK 420 420.000 488 2.200 3.300 2.515 2.020 2300x3400 Ø 100 2"	ASSK 450 450.000 523 2.200 3.300 2.515 2.020 2300x3400 Ø 100 2"	ASSK 500 500.000 581 2.200 3.300 2.515 2.020 2300x3400 Ø 100 2"	ASSK 600 600.000 698 2.200 3.700 2.515 2.020 2300x3800 Ø 125 2"
BOILER TYPE Capacity Capacity Width Length Height Chimney axial height Base width x length Boiler departure/ return Safety departure Safety return	UNIT Kcal/h kW Ø mm mm mm mm PN6 PN6 PN6	ASSK 280 280.000 326 1.750 3.100 2.105 1.670 1850x3200 Ø 80 11/2" 11/4"	ASSK 300 300.000 349 1.750 3.100 2.105 1.670 1850x3200 Ø 80 11/2" 11/4"	ASSK 330 330.000 384 1.750 3.600 2.060 1.625 1850x3700 Ø 80 2" 11/2"	ASSK 350 350.000 407 1750 3.600 2.070 1.635 1850x3700 Ø 80 2" 11/2"	ASSK 400 400.000 465 2.000 3.300 2.320 1.845 2100x3400 Ø 100 2" 11/2"	ASSK 420 420.000 488 2.200 3.300 2.515 2.020 2300x3400 Ø 100 2" 11/2"	ASSK 450 450.000 523 2.200 3.300 2.515 2.020 2300x3400 Ø 100 2" 11/2"	ASSK 500 500.000 581 2.200 3.300 2.515 2.020 2300x3400 Ø 100 2" 11/2"	ASSK 600 600.000 698 2.200 3.700 2.515 2.020 2300x3800 Ø 125 2" 11/2"
BOILER TYPE Capacity Capacity Width Length Height Chimney axial height Base width x length Boiler departure/ return Safety departure Safety return Chimney exit	UNIT Kcal/h kW Ø mm mm mm mm PN6 PN6 PN6 PN6 Ø mm	ASSK 280 280.000 326 1.750 3.100 2.105 1.670 1850x3200 Ø 80 11/2" 11/4" 400	ASSK 300 300.000 349 1.750 3.100 2.105 1.670 1850x3200 Ø 80 11/2" 11/4" 400	ASSK 330 330.000 384 1.750 3.600 2.060 1.625 1850x3700 Ø 80 2" 11/2" 450	ASSK 350 350.000 407 1750 3.600 2.070 1.635 1850x3700 Ø 80 2" 11/2" 450	ASSK 400 400.000 465 2.000 3.300 2.320 1.845 2100x3400 Ø 100 2" 11/2" 500	ASSK 420 420.000 488 2.200 3.300 2.515 2.020 2300x3400 Ø 100 2" 11/2" 550	ASSK 450 450.000 523 2.200 3.300 2.515 2.020 2300x3400 Ø 100 2" 11/2" 550	ASSK 500 500.000 581 2.200 3.300 2.515 2.020 2300x3400 Ø 100 2" 11/2" 550	ASSK 600 600.000 698 2.200 3.700 2.515 2.020 2300x3800 Ø 125 2" 11/2" 550
BOILER TYPE Capacity Capacity Width Length Height Chimney axial height Base width x length Boiler departure/ return Safety departure Safety return Chimney exit Weight	UNIT Kcal/h kW Ø mm mm mm mm PN6 PN6 PN6 PN6 Ø mm Kg	ASSK 280 280.000 326 1.750 3.100 2.105 1.670 1850x3200 Ø 80 11/2" 11/4" 400 3.215	ASSK 300 300.000 349 1.750 3.100 2.105 1.670 1850x3200 Ø 80 11/2" 11/4" 400 3.302	ASSK 330 330.000 384 1.750 3.600 2.060 1.625 1850x3700 Ø 80 2" 11/2" 450 3.604	ASSK 350 350.000 407 1750 3.600 2.070 1.635 1850x3700 Ø 80 2" 11/2" 450 3.906	ASSK 400 400.000 465 2.000 3.300 2.320 1.845 2100x3400 Ø 100 2" 11/2" 500 4.309	ASSK 420 420.000 488 2.200 3.300 2.515 2.020 2300x3400 Ø 100 2" 11/2" 550 4653	ASSK 450 450.000 523 2.200 3.300 2.515 2.020 2300x3400 Ø 100 2" 11/2" 550 4.997	ASSK 500 500.000 581 2.200 3.300 2.515 2.020 2300x3400 Ø 100 2" 11/2" 550 5.322	ASSK 600 600.000 698 2.200 3.700 2.515 2.020 2300x3800 Ø 125 2" 11/2" 550 6.364
BOILER TYPE Capacity Capacity Width Length Length Height Chimney axial height Base width x length Boiler departure/ return Safety departure Safety return Chimney exit Weight Water volume	UNIT Kcal/h kW Ømm mm mm mm PN6 PN6 PN6 PN6 Ømm Kg Lt	ASSK 280 280.000 326 1.750 3.100 2.105 1.670 1850x3200 Ø 80 11/2" 11/4" 400 3.215 2.717	ASSK 300 300.000 349 1.750 3.100 2.105 1.670 1850x3200 Ø 80 11/2" 11/4" 400 3.302 2.897	ASSK 330 330.000 384 1.750 3.600 2.060 1.625 1850x3700 Ø 80 2" 11/2" 450 3.604 3.223	ASSK 350 350.000 407 1750 3.600 2.070 1.635 1850x3700 Ø 80 2" 11/2" 450 3.906 3.548	ASSK 400 400.000 465 2.000 3.300 2.320 1.845 2100x3400 Ø 100 2" 11/2" 500 4.309 4.512	ASSK 420 420.000 488 2.200 3.300 2.515 2.020 2300x3400 Ø 100 2" 11/2" 550 4653 4.924	ASSK 450 450.000 523 2.200 3.300 2.515 2.020 2300x3400 Ø 100 2" 11/2" 550 4.997 5.336	ASSK 500 500.000 581 2.200 3.300 2.515 2.020 2300x3400 Ø 100 2" 11/2" 550 5.322 5.133	ASSK 600 600.000 698 2.200 3.700 2.515 2.020 2300x3800 Ø 125 2" 11/2" 550 6.364 5.945

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. •

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