QUALITY WITHOUT COMROMISE

Radijator ENGINEERING

Industrial **BIOMASS BOILERS** series **TKAN 60** to **TKAN 300**

NEW DESIGN 2014.
TKAN 60 - 100

Industrial biomass boilers series **TKAN 60** to **TKAN 300**, after the primary and mass produced models boilers serie “TKAN 1” and “TKAN 2”, has its sequel in terms of increasing strength. They are also intended for boilers burning biomass, and because of its power use by 60 kW to 300 kW, belong to the group of industrial boilers to biomass.

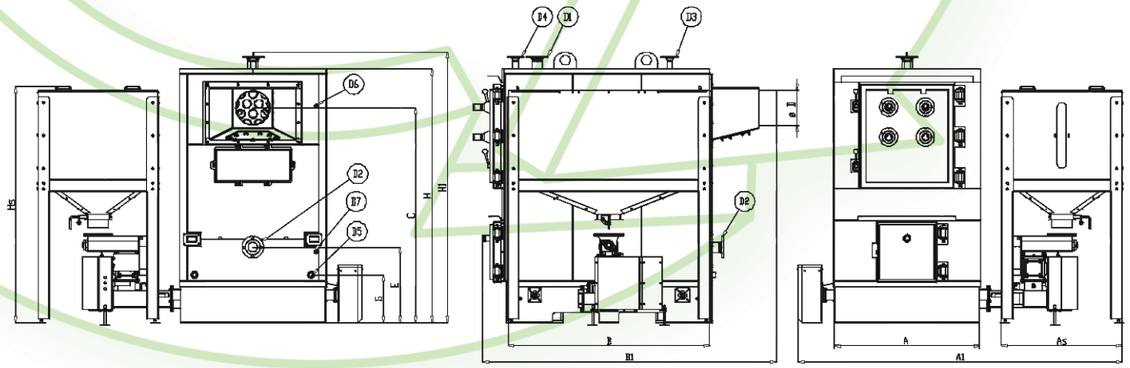
Using a generalized notion of "Biomass" of course it is primarily thinking of pellets, but should emphasize the possibility of firing with stone fruit (cherries and cherry) and shavings from wood processing. When using these fuels means the automatic control of main operating parameters.

For all other forms of biomass burning consult the manufacturer of boilers.

Combustion process is run automatically while the main two parameters, the temperature of water in the boiler and the temperature of exhaust gases. Start ignition is automatic and is performed with two powerful electric heater. Regulating power user performs using the target amount of fuel and entered into force fan. It is possible to embed and room thermostat with time programming.

Industrial biomass boilers series TKAN 60 to TKAN 300, are made of boiler plate thickness of 6 mm or more. Heat exchanger is of seamless, boiler tubes. Efficiency is close to 90% of pellets. Flue gas temperature at the exit from 170° C to 190° C degrees at higher modes, which we can always check the display automation.

With industrial biomass boilers series TKAN 60 to TKAN 300, go and (daily) small silos whose volume is 800 liters. He has the ability to link with large silos and to the side and butt. Large silos real dimensions of the customer and the space available on the screw conveyor connected to the small silos. Automation supports the connection of the fuel auger drive.



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Industrial **BIOMASS BOILERS** series **TKAN** produced with additional equipment

Additional equipment related to the automatic cleaning and automatic transport of pellets. Boiler for its thermodynamic structure remains the same,the changes are related to the following circuits:

Fireplaces part.

In fireplaces part for automatically extract the ashes are installed two screw spirals with its electric drive. Screw spirals inserted ashes into the two boxes to be emptied periodically.

Type			TKAN60	TKAN80	TKAN100	TKAN150	TKAN200	TKAN250	TKAN300
Power		kW	60	80	100	150	200	250	300
Working pressure		kPa	300	300	300	300	300	300	300
Test pressure		kPa	450	450	450	450	450	450	450
Volume of water in the boiler		L-cca	276	368	460	690	920	1150	1380
Mass of boiler		kg	800	920	1045	1300	1800	2300	2900
DIMENSIONS	A	mm	700	750	750	850	1005	1275	1275
	A1		1770	1820	1920	2220	2660	2810	2810
	As		606	606	806	1006	1046	1046	1046
	B		906	1025	1135	1350	1400	1500	1750
	B1		1430	1500	1720	2060	2120	2300	2550
	C		1160	1200	1275	1440	1845	1865	1865
	ØD		200	200	200	250	250	300	300
	E		550	460	500	665	625	655	655
	G		350	350	350	355	415	415	415
	H		1400	1435	1525	1720	2125	2200	2200
	H1		1520	1560	1555	1750	2275	2350	2350
	Hs		1560	1560	1605	1800	1970	2050	2050
	D1	col	6/4"	6/4"	2"	2"	DN80 NP6	DN80 NP6	DN80 NP6
	D2		6/4"	6/4"	2"	2"	DN80 NP6	DN80 NP6	DN80 NP6
	D3		3/4"	3/4"	3/4"	3/4"	DN40 NP16	DN40 NP16	DN40 NP16
	D4		3/4"	3/4"	3/4"	3/4"	DN40 NP16	DN40 NP16	DN40 NP16
	D5		1/2"	1/2"	1/2"	1/2"	1"	1"	1"
	D6		1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
	D7		1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"

* We reserve the right to change

Thermal heat exchanger part, and his door.

At the door heat exchanger tube assemblyis mounted solenoid valve systemthat periodicallyrelease the air pressure and so clean boiler tubes fromthe ashes and soot. Requires source of compressed air as a certain capacity and automation that leads this process.

Cyclone for separation of ash.

Due to reduced emissions of ash particles in the air, it is recommended that installation of the cyclone, especiallyif the buyer is installed and the systemof pneumatic cleaning.

Large silo and automated transport to the boiler.

In large systems where the daily consumption of pellets ranges fromseveral hundred kilograms to several tons, it is recommended that installation of a large silo with elevator. He is a wormconveyor systemassociated with a small silo, and the whole deliveryprocess is automated with a probe of minimumand maximumin a small silo.