Water heating steel solid fuel TIS EKO, TIS EKO DUO

Installation and operation manual

ATTENTION!

- Avoid overpressure in the boiler higher than indicated in the technical documentation (the boiler instruction manual).
- Never leave the boiler with water at an ambient temperature below 5 C.
- Do not operate the boiler without heat carrier or if the water froze in the boiler.
- Never install isolation valves on the hot water supply line from the boiler to the fitting position of the safety valve. The safety valve is placed before the isolation valve and it is designed for the pressure no more than 0,15 MPa for the open-type heating systems and 0,25 MPa for the closed-type heating systems.
- Forbidden to use the boiler without the safety valve.
- The instruction manual is for all the boilers TIS ECO/ECO DUO models, no matter what their outfit and heat productivity are.
- Buying the boiler check the outfit and frontage of the boiler with the seller. After selling producer do not accept any complaints about the wrong outfit and mechanical damage.

CONTENTS

1.0 INTRODUCTION.

LLC «BelKomin» company thanked for choosing our heating appliance.
Multifunctional boilers TIS ECO and TIS ECO DUO are designed for burning pellets and other types of solid fuels (wood, coat, peat) on an additional grille (only in ECO DUO models).
Due to the innovating mechanism and usage of the latest achievements in steel processing within the manufacturing process, we created a cheap energy source system suitable for houses, enterprises and outbuildings up to 1000 m².

Producing the boilers TIS ECO and TIS ECO DUO models, we wanted to satisfy the needs of any consumer, so we based on many years observations and comments.
This leads to the creation of the easy-to-use and highly effective appliance.
ECE is no more than 92%. Before the installation and operation read the instruction manual carefully.
The guarantee of the correct and prolonged work of the appliance is obligatory following all the directions and recommendations of the producer.

2.0 BOILERS USAGE.

2.1 TIS ECO / TIS ECO DUO are steel low-temperature water heating boilers designed for the heating of objects with the heat demand 8-99 kVt. They can also function together with the water heater when following the instruction manual. The main function of the boilers is heat supply of individual houses and domestic buildings with the forced circulation heating systems of open and closed types.
2.2 The boiler is located in the closed heating premises with natural or forced ventilation.

3.0 BOILERS WORK DESCRIPTION.

Fuel burning (pellet) takes place on the burner with the help of feed auger, burner and fan. All the processes of the boiler work and additional devices are controlled by electronic control unit. There is an additional grille for the burning alternative fuel (wood, briquettes, coal) in the TIS ECO DUO model, in such case the loading is done manually and additional settings are made in electronic control unit.

Fuel combustion on the additional grille (DUO version) is not the main work of the boiler!

Bunker filling with fuel is made not less than 1/3 of the capacitive volume. The fuel gets into the burner from the loading device, where the burning process occurs with the help of the forced fan. The inflow and outflow boiler heat carrier circulate through pipes with the external thread G 1 ½ or 2. Boiler chimney with the outer diameter 159 mm or 220 mm is located at the back and it is the continuation of the boiler inner tube (heat exchanger). For feeling or pouring off of the heat carrier from the boiler there is a drain pipe the screw-thread ¾’’, the pipe is at the bottom of the rear case.

4.0 TIS EKO MAIN DIMENSIONS AND TECHNICAL DATA

Technical data	Power	Max. operating temperature	Water volume in the boiler	Min. chimney draught	Connections	Chimney diameter	Boiler weight	Boilers dimensions						Bunker volume
								A	B	C	D	E	V	
Boiler type	kwt	°C	liters	Па	"	mm	kg	cm	cm	cm	cm	cm	cm	dm3
TIS EKO 15	8-20	85	80	18	1 1/2	159	422	53	63	157	137	21	6	270
TIS EKO 25	10-25	85	90	18	1 1/2	159	452	53	73	157	137	21	6	330
TIS EKO 35	15-40	85	120	20	1 1/2	159	528	68	73	141	120	21	6	420
TIS EKO 45	20-50	85	125	20	1 1/2	159	553	68	77	141	120	21	6	420
TIS EKO 55	25-60	85	135	22	2	220	601	68	77	147	123	21	6	540
TIS EKO 65	30-70	85	145	22	2	220	640	68	82	147	123	21	6	700
TIS EKO 75	35-75	85	150	22	2	220	665	68	87	147	123	21	6	700
TIS EKO 95	45-95	85	175	22	2	220	763	78	87	170	148	21	6	900

*socket hight heat carrier outlet 60 mm from boiler cover

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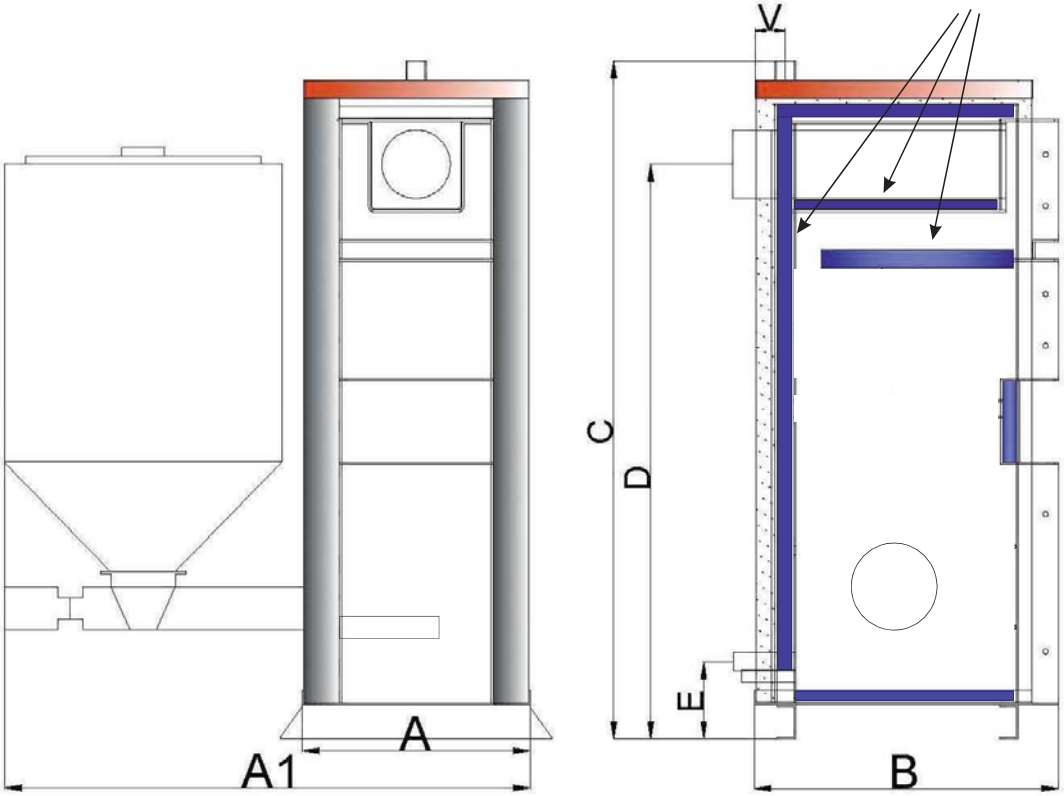
*All dimensions can vary by +/- 5 %!

Fn.: The producer reserves the right to make changes to the boilers and completing parts construction without impairing the product quality.

5.0 TIS EKO DIAGRAM



TIS EKO BOILER 15-95.

1 – boiler feet; 2 – water heat exchanger (water jacket); 3 – socket heat transfer outlet;
4 - burner; 5 – socket heat carrier return; 6 - insulation; 7 - chimney;
8 – chimney maintenance door; 9 – combustion chamber door; 10 – ash removal door and access to the burner; 11 - hopper; 12 - feeder.

TIS EKO bunker sizes.

Boiler model	**Width, mm**	**Length, mm**	**Height, mm**	**Volume, dm³**
EKO 15	560	560	1120	270
EKO 25	560	660	1120	330
EKO 35	770	660	970	420
EKO 45	770	660	970	420
EKO 55	770	700	1230	540
EKO 65	840	840	1230	700
EKO 75	840	840	1200	700
EKO 95	870	1030	1260	900

ATTENTION: For qualitative and reliable operation of the equipment, setting optimal parameters of the regulator, conclude an agreement with the customer service in your region. All the information is available on the website www.belkomin.com, or at the seller.

8.0 HEATING AND BOILER INSTALATION

Requirements:

- connect the boiler to the heating system according to the project developed by highly qualified and experienced specialists in thermal mechanics;

- in order to avoid condensation, install the return water temperature no less than 50 C if the supplying heat carrier temperature is at least 65 C.

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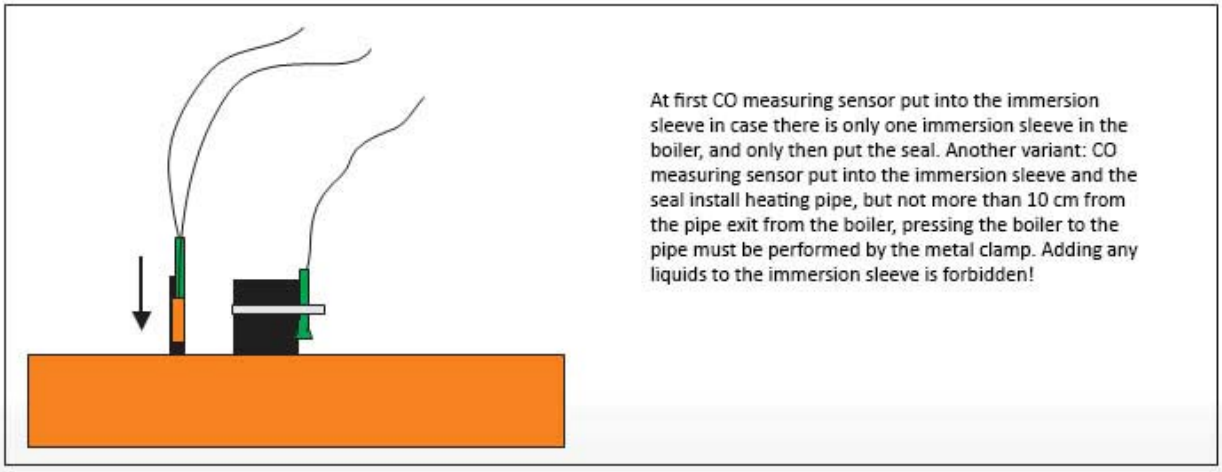
Filling the heating system with water, check the water is clear and clean, without any impurities of aggressive substances with the hardness no more than 2 mEq / dm3. Hard water causes scrum in the boiler which reduces its heat productivity and can cause premature boiler breakdown.

Fn.: boiler breakdown due to the scrum is not covered by the warranty.

- Process the water if its hardness of water does not meet the required standards. 1 mm scrum deposit (chalk-stone) reduces the heat transfer from the metal to the heat carrier onto 10 %.
- Remain the constant volume of the heat carrier during the whole heating season. Do not forget to monitor the pressure.
- Top the water up to the heating system at the temperature of the boiler no less than 70 C.
- Do not use any liquids inappropriate for the heating systems as a heat carrier.

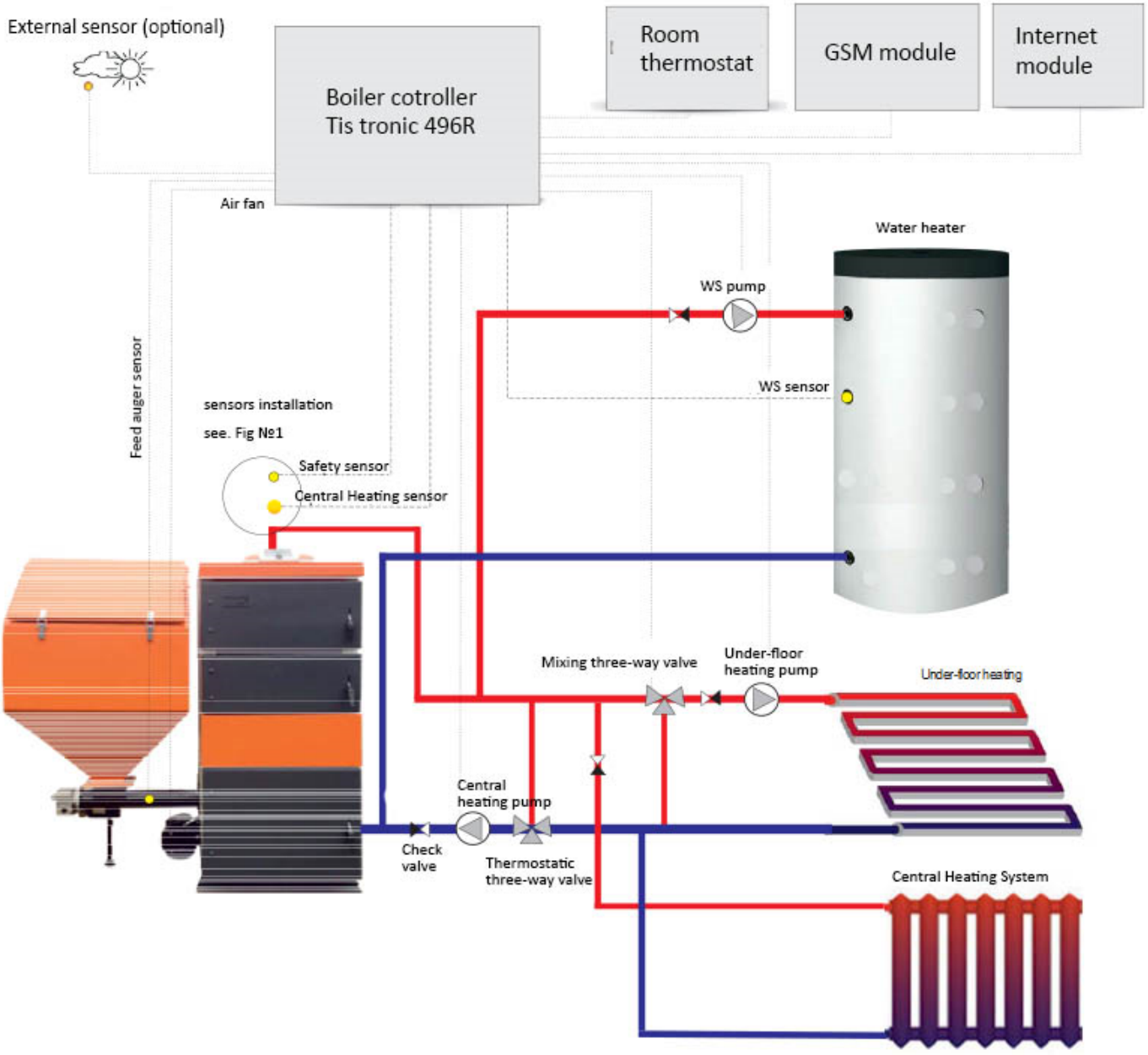
8.2 Boiler position with the regard to the required servicing space

- Leave the space no less than 1,5 m in front of the boiler.
- Leave 500 mm distance between the boiler and the wall of the premises.
- Leave 500 mm space from the sides to provide access to the boiler.



9.0 FUEL PLACEMENT.
- Forbidden to place the fuel near the boiler at a distance less than 1000 mm.

10. RECOMMENDED INSTALATION SCHEME



Wiring plan (shown diagram is just a simplified example).

11.0 RECOMMENDATIONS FOR BOILER INSTALATION AND OPERATION:

11.1 Install the boilers with an open expansion tank or membrane in the open and closed heating systems. The expansion tank volume depends on the heating system volume and is calculated in the heating system development. .
11.2 The pressure in the closed heating system type must not exceed the maximum working pressure of the water in the boiler (0,25 MPa) in an operation state with the maximum temperature of the water in the boiler of 85 C.
11.3 Place the safety valve on the feed line between the boiler and the stop valve.
11.4 Place the check valve before the stopcock of the nourishing branch pipe if the filling and replenishment of the boiler from the plumbing are provided. Fill the system under the pressure no more than the boiler maximum working pressure.
11.5 Make the heating system test (test of the pipes, heaters) when the boiler is disconnected, the pressure must be no more than the maximum working pressure indicated in the mechanical part of the heating system project. The heating system project must be worked out by the specialized institution which is eligible to perform such work.

11.6 Requirements to the connection of the boiler electrical part:
- a person who has qualified as an electrician and has admission to perform such work can plug the boiler electrical part.
- wiring works should be done under PSD.

11.7 Maintenance of the boiler and smoke flues:
Attention: Soot and condensate are formed in the chimney during the boiler operation which can lead to the traction deterioration and cause a fire hazard. The chimney serviceability must be provided for the boiler effective and safe operation. The chimney must be smooth inside. The chimney must not lead to the accumulation of moisture and soot and not let to gases output and combustion products. The number of tube bends should be as small as possible. Choosing a chimney is necessary to take into account its compatibility with the boiler, type of fuel and ease of assembly and dismantling for the maintenance and fire safety standards matching.

*** Instructions for the people responsible for boiler operation and maintenance:**
- People acquainted with the mechanism and service regulations of such equipment are accepted to the boiler operation and maintenance;
- Timely inspect the appliances; regularly clean the boiler and chimney. Soot and ash deposits on the smoke channel cases reduce the heat transfer. Deposits, resin formation and condensation depend on the fuel used, chimney draft and operating mode. Boiler and burner cleaning are recommended to be done in the cold state once a week. Boiler and burner cleaning can be also made when contaminated.
- Remove ash from the boiler daily. Check the boiler external condition, burner, electronic control unit, detectors and wiring. Clean them all if necessary.
- Clean boiler heating surfaces weekly with a poker. Clean the burner. Clean the upper heat exchanger from the soot with a scrubber, then remote soot through the access panels.
- Make the repairing, preventive maintenance, cleaning and etc. when the boiler is blown out and then switched off. If there are any malfunctions in electrical equipment (short circuit to the boiler case, insulation failure in cables and etc.) switch off the boiler promptly and call the service representative. Check the existence of draft in the chimney by putting a paper strip to the ashpit (the paper strip should turn to the ashpit side). Watch for the ventilation openings for air inflow and exhaust not to be reduced or closed.
- Use the exhaust hoods for smoke removing within premises where the boiler is placed.

12.0 BOILER IGNITION AND ADJUSTMENT.

Before boiler ignition check the condition of the electronic control unit, temperature detector, isolation valves, pumps, safety valve, and pressure in the heating system, mixer work, chimney, air ventilator, water presence in the emergency extinguishing system.

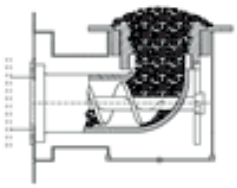
Boiler ignition procedure:

1. Check the fuel presence in the bunker (supplemented if necessary), availability of fuel on the burner

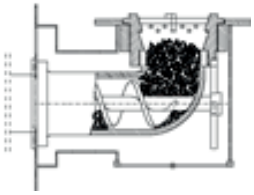
(add if necessary twist the auger to «Manual mode»)

2. Hang a cast iron deflector above the burner
3. Turn on the boiler electronic control panel and switch to “Manual mode”
4. Ignite the fuel on the burner. Attention!!! Do not use flammable liquids at the boiler ignition!!!
5. Turn on in the «Manual mode» «Fan» 25 position.
6. Gradually, in process of fuel ignition, add turns of the fan with step 5 positions.
7. After the fuel burns on the burner with the level of burning fuel falling below the upper ring, turn the boiler into automatic mode.
8. To enter the automatic mode, you must exit the setup menu by pressing the "EXIT" keys until the main temperature screen appears.
9. During the work, make sure that the fuel level on the burner does not fall below the upper ring, and does not get poured through the burner. If necessary, adjust the fuel level using the "Feed time" and "Feed interruption" settings.

Wrong



Correct



Wrong

Basic work, configured parameters:
Feeding time _____sec. * Feed interruption _____sec. * Boost force_____sec.
When the set temperature is reached, the boiler goes into the support mode, stopping the main operation.
Support mode configured parameters:
Feeder operation in support_____sec.* Support disruption_____min.*
Fan in support _____sec.* Fan timeout _____
_____min * The procedure for boiler extinguishing and conservation:
Attention: When the boiler is extinguished, monitor the temperature of the coolant according to the installed thermometers. Do not allow the boiler overheating.

1. Remove the fuel from the bunker completely as possible.
2. Go to the “Manual mode”.
3. Switch on the pumps in manual mode to cool the boiler.

Attention!!! The pumps must be switched on permanently when the boiler is extinguished, as a sudden excess of the coolant temperature is possible.

4. Switch on the fan in manual mode.
5. Switch on the feeder in manual mode.

6. Supply fuel to the burner and the burn it until complete disappearance.
Attention: When the boiler is extinguished, monitor the temperature of the coolant according to the installed thermometers. Do not allow the boiler overheating. Keep the bunker closed all the time.
7. Wait for burner complete cooling

13.0 FUEL INSTRUCTIONS.

13.1 The upper limit of the fuel fraction
The maximum coal fraction is limited to 25 mm.

13.2 Coal coking properties.
Coal with small or medium coking properties, such as type 31 or type 32 with volatile content above 30%, can be used. It is not recommended to use coal type 33 (coking) and type 34 (strongly coking). Also, the use of other fuels such as coke, anthracite, briquettes or lignite without consulting the manufacturer is prohibited (the feeding mechanisms must have a special design). Each type of coal used must have a fraction below 25 mm!

13.3. The maximum amount of fine coal is limited to the following values:
The maximum amount of fine coal passing through a 1/8 "sieve is
for type 31 (only classified coal) to 20%
for type 32 (only classified non-coking coal) to 20%
other types - coal species up to 10%

13.4. Humidity max. up to 10%!!!
This is the main parameter of the fuel used. It is very difficult to burn coal if it contains an excessive amount of wet crumbs. If coal humidity over 10% (to 15%), the percentage content of the crumb should not exceed 15%. ATTENTION! Coal containing more than 30% of crumb and more than 10% of moisture is not recommended!

13.5. The ash content is up to 15%

13.6. Ash melting point
for type 31 and part of type 32/1 not less than 12000C
for type 32/2 not less than 1250^0C

General advice on the choice of coal type.
The right choice of coal type provides:
- boiler trouble-free operation;
- high efficiency of the burner work and fuel economy up to 15 % compared with fuel of a lower quality;
- reduction of harmful chemicals emission into the atmosphere.

GENERAL RECOMMENDATIONS REGARDING THE PELLET CHOISE

The right choice of the pellet type and class provides:
- boiler trouble-free operation;
- high efficiency of the burner work and fuel economy up to 15 % compared with fuel of a lower quality;
- reduction of harmful chemicals emission into the atmosphere.

Recommendations for the fuel used (pellets):
– The maximum size (length) of pellets is limited to 30 mm
--Pellets diameter 6-10 mm
– Ash content up to 0,03%
– Humidity до 6%
– Density 1,25 кг/дм^3
– Sulfur content up to 0,03%

14.0 FEEDER DESCRIPTION AND MAINTENANCE.

14.1 Geared motor and auger construction

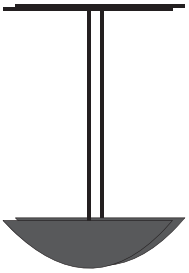
External parts of the reducer (housing) and motor housing are aluminum. The manufacturer fills the reducers with synthetic oil, which does not require replacement during the whole period of operation. The reducer is connected to the feed auger by coupling, the role of protecting mechanism against the damage in screw locking case, is performed by a safety wedge (screw M5 with incomplete thread, galvanized in the hardness class 5.8). The use of other safety wedges threatens to the geared motor or electric motor damages and also will void the warranty! The auger transports fuel from the tank to the lower part of the retort.

14.2 Retort construction.

Retort with a correspondingly spaced primary air nozzle forms a monolithic component. The retort nozzles, through which primary air is supplied, are made of gray cast iron. The retort is driven by an auger and rotates inside the burner ring.

14.3 Deflector.

The height of the deflector hanging is set by the boiler manufacturer. Normally the deflector is set to:



for a retort of 15kW and 25kW min.15cm
for a retort of 50 kW min.15 cm
for a retort of 75 kW min20 cm for a retort of 95 kW min20 cm
above the retort upper edge.
The deflector should be suspended on a heat-resistant wire Ř 10.
Functions of the deflector:
flame support in the retort
flame breakdown on the heat exchanger mantle

ATTENTION! The use of coking coal leads to a rapid wear of the deflector and other cast iron parts of the feeding device (loss of guarantee).

ATTENTION! In the TRIO feeder, secondary air nozzles are used. These nozzles must always be installed in the direction of the flame.

ATTENTION! The boiler has a double "fire fighting" function

I- in the controller "fire fighting" function (after overheating of the auger tube with returning burning fuel, the controller must give a signal and push the fuel out of the pipe).

II- It is necessary to install a safety valve (thermostatic valve) on the screw tube (the coupling for welding is welded) and the tank with water connected to it.

Daily boiler and burner inspection. Burner cleaning ash removal from the boiler – at least once a week. Boiler and chimney cleaning– at least once a month. When using low quality pellets (with increased ash content and slagging), to ensure uninterrupted and reliable operation of the equipment, inspect and clean as needed (to the extent of contamination).

Manual for feeder servicing.

1. Weekly maintenance
2. Open firebox door and check the condition of the flame.
3. Remove the slag periodically if there a lot of it in the firebox. Take into account the above principles and the need to regulate properly the fuel and air pressure proportions. In case of slag permanent appearance, make sure that the type of fuel meets the recommended characteristics.
4. Check the fuel level in the hopper

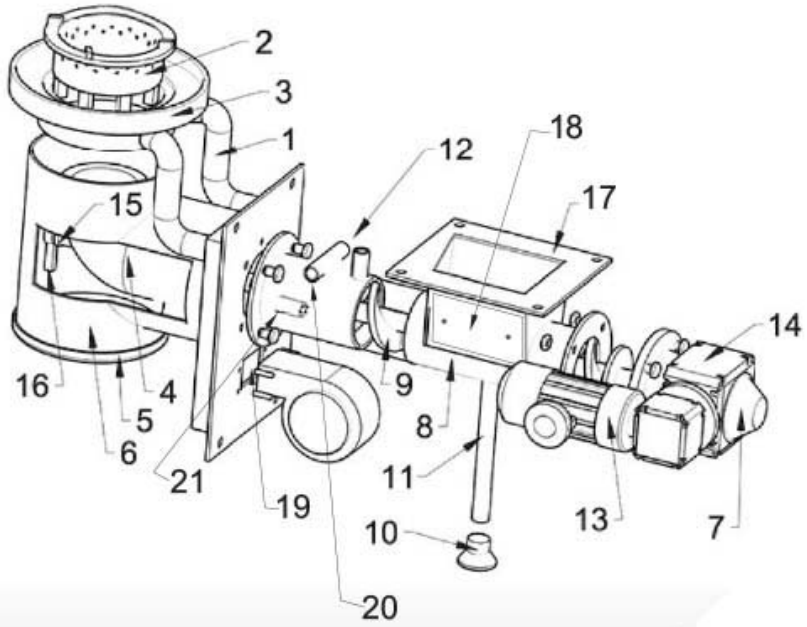
Monthly maintenance.

Perform actions on a weekly maintenance and:

1. Check the accumulation of slag residues in the retort, if necessary, extinguish the boiler and clean the retort.

2. Verify that dust and other wastes do not accumulate in the fuel hopper and the auger casing, and remove them.
3. Check the condition of the air nozzles and the patency of the air outlets.
ATTENTION! Actions from 10.2 and 10.3 must be done after the end of heating season or in case of heating hot water – once a year.
Regular maintenance.
1. It is necessary to preserve the feeder after each heating season or in the case of heating hot water once a year (warranty condition).
2. Run the auger once every three months for 15 minutes. Due to this, it is possible to avoid locking the auger inside the pipe.
3. Clean the pipe of fuel residues, empty the hopper, clean the retort, unscrew the bottom cover, remove the ash
4. Remove the rotary ring from the burner plate, remove the furnace plate from the feeder, remove the feeder by unscrewing four M10 bolts securing the feeder to the boiler. Remove the geared motor with the auger (unscrewing four M8 bolts), Separate the geared motor from the auger (taking out the safety pin), process with a solid lubricant for bearings an auger spindle and an inner sleeve of a geared motor, to prevent grouting of both elements (geared motor and auger). In order to fold the feeder, follow the steps in reverse order, paying special attention to the centering of the rotary ring inside the burner plate (four M10 bolts are used for alignment).
ATTENTION! – after installing the burner plate do not tighten the bolts. ATTENTION! CENTER ON THE INCLUDED FEEDING DEVICE!

15.0 BURNER DEVICE DIAGRAM.



1. Nozzle
2. Retort
3. Firebox
4. Feeding knee
5. Firebox revision cap
6. Air chamber
7. Pin cap
8. Feeder
9. Auger
10. Feeder foot handle
11. Feeder foot
12. Fire protection nipple
13. Engine
14. Geared motor
15. Regenerative sleeve
16. Impeller
17. Flange for hopper installing (fuel tank)
18. Flap for auger revision
19. Air supply duct
20. Sleeve for thermal sensor of fire extinguishing system

16.0 ACCIDENTS AND THEIR REPAIRING.

Possible malfunctions and ways to delete them are indicated in Tables

Malfunctions name	**List of possible reasons**									
The coal feeder for the retort does not turn on	No power or the boiler controller is off	Geared motor fuse is on	Reboot relays turned on	The motor thermal switch is on						
Auger feeder is empty (without any coal)	Geared motor fuse is on	Reboot relays turned on	There is no coal in the bunker or coal is hovering over the feeder	The wedge protecting the clutch of the geared motor is cut off	Auger coupling from the geared motor is switched off					
The auger of the coal feeder does not rotate into the retort, geared motor does not work	The wedge protecting the clutch of the geared motor is cut off	auger coupling from the geared motor is switched off	The auger is not cleaned before operating the boiler							
Frequent cutting of the auger safety wedge	The pipe flange is bent or the fastening bolts are loosened	Improperly centered support part of the geared motor relative to the auger	Geared motor support part is unstable to the base							
Smoke from the bunker	Clogging the air supply hole in the retort column									
Auger burnt end retort	Combustion misconfiguration									
Protective measures	Check the power and the main switch on the control board	Reset or replace if necessary	Reset the reboot relay	Check the switch, determine the cause of its activation	Check the coal level in the bunker and over the holes of coal supply	Check and replace if necessary	Replace the coupling insert and reconnect the coupling	Remove the auger. Clear. Inform the manufacturer	Clean the retort, clean the holes	Check alignment of the installation and center

17.0 MALFUNCTIONS AND TROUBLESHOOTING.

№	**Possible malfunction**	Malfunction cause	Troubleshooting (made by the producer)
1	**Poor fuel combustion**	Bad chimney draft Raw poor quality fuel	Clean the flue pipe and gas outlet of soot and ash, check the correct installation (according to the instruction manual).
		Raw Fuel	Replace the fuel.
2	**Good combustion in the boiler, the heat carrier is boiling in the boiler, but is not heated in the heater.**	Bad circulation of the heat carrier in the heating system.	Check the correct installation of the heating system (the presence of the slope, the absence of air plugs, etc.)
		Circulation pump does not operate.	Troubleshoot or replace the pump.
		The leak of the heat carrier in the system. The air presence in the system	Eliminate the leak. Energize the system, bleed the air.
3	**The appearance of the smoke in the premises.**	Clogged chimney.	Clear the chimney from soot and ash.
		Chimney is not warmed (stale cold air in the chimney).	Restore the chimney draft burning some paper, straw, sawdust, etc. in the cleaning hatch
4	**Failure of the grate**	High temperature of fuel combustion. Incorrect air distribution in the boiler.	Reduce the air supply. Replace the grate. Clean air ducts
5	**Water inside the boiler (condensate).**	Condensate from the chimney.	Check the condensate drain. Insulate the chimney. Regulate the combustion process.
		Low temperature of the heat carrier in the boiler.	Maintain the heat carrier temperature of the boiler 65-80 C.

18.0 GUARANTEE.

The manufacturer provides a full guarantee of the product in accordance with the terms and conditions described warranty.
Initial commissioning and equipment maintenance produced by
LLC «Belkomin» must be carried out by qualified specialist. In the case of non-compliance of this manual, will not accept warranty claims. Each complaint should be immediately transmitted after malfunctions detection in written form to the seller or producer.
ATTENTION!!!
Ask the sellers and adjustment organizations to fill in the warranty card correctly.

19.0 GUARANTEE OBLIGATIONS.

LLC «Belkomin» (producer) warrants the product produced;
The producer is responsible for the guarantee if the defect appears in the device due to producer fault;
The producer decides independently to remedy the defect or replace the whole unit;
The warranty is only valid if the warranty card has boiler serial number, boiler brand and seller's mark;
The warranty is only valid if the warranty card is correctly filled and has a note of commissioning date, stamp of the organization or installer who instructed the customer and put the boiler into operation;
Warranty repairs are free;
Warranty repairs may be done only by a specialized organization, installer or service center accredited by the producer;
The warranty only covers the unit, installed in accordance with the instruction manual and the rules written in it;
The warranty period for the boiler drum is 60 months from the sale date;
The warranty period for the control elements, burner, load tank, electronic regulator is 12 months from the sale date;
The guarantee does not cover the boiler expendable material components: door seal, cast iron grate, handles, screws, screw-nuts, incendiary element, scrubber, poker;
The warranty expires in case of improper installation or use of the device inappropriately;
The producer is not responsible for the mechanical damage during shipping;
The whole unit or its parts that have lost their marketability on the consumer's fault cannot be exchanged or returned for warranty obligations;
TIS ECO and TIS ECO DUO boilers are subjected to compulsory grounding!
* Using open heating systems there is a risk of boiler corrosion.
BOILER IS PLACED ON THE VEHICLE ONLY IN AN UPRIGHT POSITION!!! (otherwise it will be removed from the warranty).
The boiler is shipped on a pallet or without it on customer's request but only in an upright position!
It is recommended that in upright position the boiler was transported as close to the installation place as possible, it minimizes the possibility of the damage to the boiler case.
When the boiler is shipped in another position the warranty removed.

- The package may also include various kinds of control devices (additional expanders) or some other automation devices depending on the purpose and the customer's wishes.

MANUFACTURER: Belarus, Grodno region, d. Novaya Gozha, 6.
OFFICE: 230008, Belarus, Grodno, Tavlaya st, 1.

Regarding the equipment quality contact:
Manufacturer: Phone/Fax 8(0152)77-35-10; Phone: 8(029) 617-00-77; E-mail: office@belkomin.com
Minsk office: Phone/Fax: 80173620808, 3620909; phone: 80293620808, 3620909; minsk@belkomin.com
Service center: E-mail: service@belkomin.com, service-m@belkomin.com.

20.0 RECYCLING.
- Upon reaching the limit state boiler burning heating surface, it must be disconnected from the heating system.
- After switching off the boiler presents no danger to the people's lives and health and the environment.
- Recycling - boiler housing and the grate can be remelted.

21.0 BOILER MANUFACTURING, ACCEPTANCE AND SALE CERTIFICATE.

.

Hot water heating steel TIS ECO / ECO DUO _____serial №_____

Correspond: ТУ BY 590831167.001-2013, ТР ТС 010/2011, ТР ТС 020/2011, ТР ТС 004/2011,

Declaration on conformity: № ТС BY/112 11,01, ТР010 042 00065 and recognized serviceable.
Manufacturing date: «_____» _____ 201_ .

Tested by water pressure 0,4 MPa.

Packager _____ producer L.S.
(Full name)
Selling date: «_____» _____ 201 _.

Seller's data and signature_____

_____

L.S.

Familiar with the terms of the boiler connection, operating conditions and the warranty.
Customer:_____

15.0 Installation information.
Address where the boiler is installed:_____
Installation date: _____
Boiler is installed by: _____

_____

Commissioning date:_____(name of organization)_____

L.S. Signature_____

22.0 ATTACHMENT.

Boiler maintenance records

24.0. GUARANTEE CARD

№1 boiler warranty repair

Boiler serial number_____________________

Selling date «____»___________ 20____

L.S. (seller)________________________

Shop address_________________________

Carried out works on troubleshooting

Repairer (full name)_____________________

Company______________________________

Repairing date__________________________

L.S.(company)_________ Signature________

24.0. GUARANTEE CARD

№1 boiler warranty repair

Boiler serial number_____________________

Selling date «____»___________ 20____

L.S. (seller)________________________

Shop address_________________________

Carried out works on troubleshooting

Repairer (full name)_____________________

Company______________________________

Repairing date__________________________

L.S.(company)_________ Signature________

24.0. GUARANTEE CARD

№1 boiler warranty repair

Boiler serial number_____________________

Selling date «____»___________ 20____

L.S. (seller)________________________

Shop address_________________________

Carried out works on troubleshooting

Repairer (full name)_____________________

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