KORDİNAMİK®

HEATINGSYSTEMS

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SOLID FUEL BURN HOUSEHOLD AND CENTRAL HEATING BOILER WITH AUTO AND MANUAL SUPPLY FUEL

USER GUIDE

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INTRODUCTION

Thank you for choosing **KORDINAMIK** heating systems, produced qualitatively and in accordance with international standards, we wish you to use boiler on good days.

In this guide, you will find the conditions for the installation, use and maintenance of a refractory boiler with an automatic loading of **KORDINAMIK** using solid fuel.

For best performance and durability in the work of the refractory boiler, please read the instructions and make sure that all the conditions specified in it met.

KORDİNAMİK®
HEATING SYSTEMS

KORDİNAMİK

CONTENTS

CONSIDERATION OF CIRCUMSTANCES

Do not install the boiler in a bathroom, balcony or other living area.

Never operate the boiler with a closed expansion tank. Use the open pressure expansion tank .

Make sure the boiler room completely filled with water. If there is no water in the boiler and the water temperature of the boiler drops below 30 °C, supply it with cold water. (Chemicals or antifreeze added to the boiler to avoid freezing of the boiler, which not used on a permanent basis.)

Do not open the boiler door when the fan is blowwing. Move the burning fuel as far as possible to the lid and supply fuel back. Do not supply fuel above burned fuel.

Do not drain the boiler in the winter and summer.

Carry out cleaning of pipes once a week, the furnace of solid raw materials once a month, and cleaning the chimney once a year.

Pay special attention to the continuous operation of ventilation in the room where the boiler placed.

Do not turn off the electricity when the fire in the boiler burns,

PLACEMENT AND CONNECTION OF THE CHIMNEY

For better fuel combustion and efficiency, the boiler must installed in a well-ventilated area. Never install the boiler in a residential installation.

The boiler must installed in places protected from external factors such as sun and rain.

Do not install the boiler in a humid environment.

Thickness of concrete under the base of the boiler must be at least 15 cm.

THE CONNECTION OF THE CHIMNEY

The length of the horizontal flue channel between the boiler and the chimney shall not be less than 60 cm and not exceed a maximum of 2 meters.

Connect the horizontal flue channel with a slope increased by 10%; the chimney connected without the use of a knee.

The height of the chimney must be at least 5 m, and the height of the building must be at least 80 cm from the roof.

The flue connections shall not pass through the accommodation and shall be accessible for dismantling if necessary.

The work of the chimney is important in the efficient use of the boiler; the construction of the chimney should be sealed, and covered with insulation material. If the diameter of the chimney is less than necessary, the combustion becomes difficult, and the desired efficiency of the boiler cannot obtained. If the diameter of the chimney exceeds the required thrust, the operation of the boiler is complicated, and the fuel consumption increases.

CHARACTERISTICS OF BOILER

Solid fuel boilers "KORDINAMIK" made from sheet steel ST37. Ease of use, maximum efficiency, as well as using high-quality materials gives the durability of the boiler.

'KORDINAMIK" heating boilers have a high heat conductive surface, which allows obtaining the maximum efficiency of solid fuel use. Because of high fuel combustion, efficiency of the boiler is increased.

In our solid fuel boilers, the efficiency of the boiler has increased by converting high temperature flue gas into calories through flametransformation.

Our boilers designed for an operating pressure of two bars and put into operation after a pressure test of five bars.

Thanks to the convenient wide cover in our boilers, loading, ignition, ash cleaning can made more convenient.

Thanks to the thermostatic fan, the boiler water reaches the desired temperature very quickly, and the boiler goes into sleep mode and saves fuel.

RULES INSTALLATION

The boiler should installed on the scale and placed at least 15 cm above the concrete base.

There must be a ventilation window in the environment where the boiler is located.

Leave the working area away from the side of wall for disassembling and repairing equipments of boiler.

In extremely cold and frost-hazardous areas, be sure to insulate the expansion tank and the expansion return pipes.

Place the open tank at the top of the unit. Never place equipment such as valves, filters, self-contained materials, etc. on the expansion pipes.

When installing, be sure to use 3 bar safety valves.

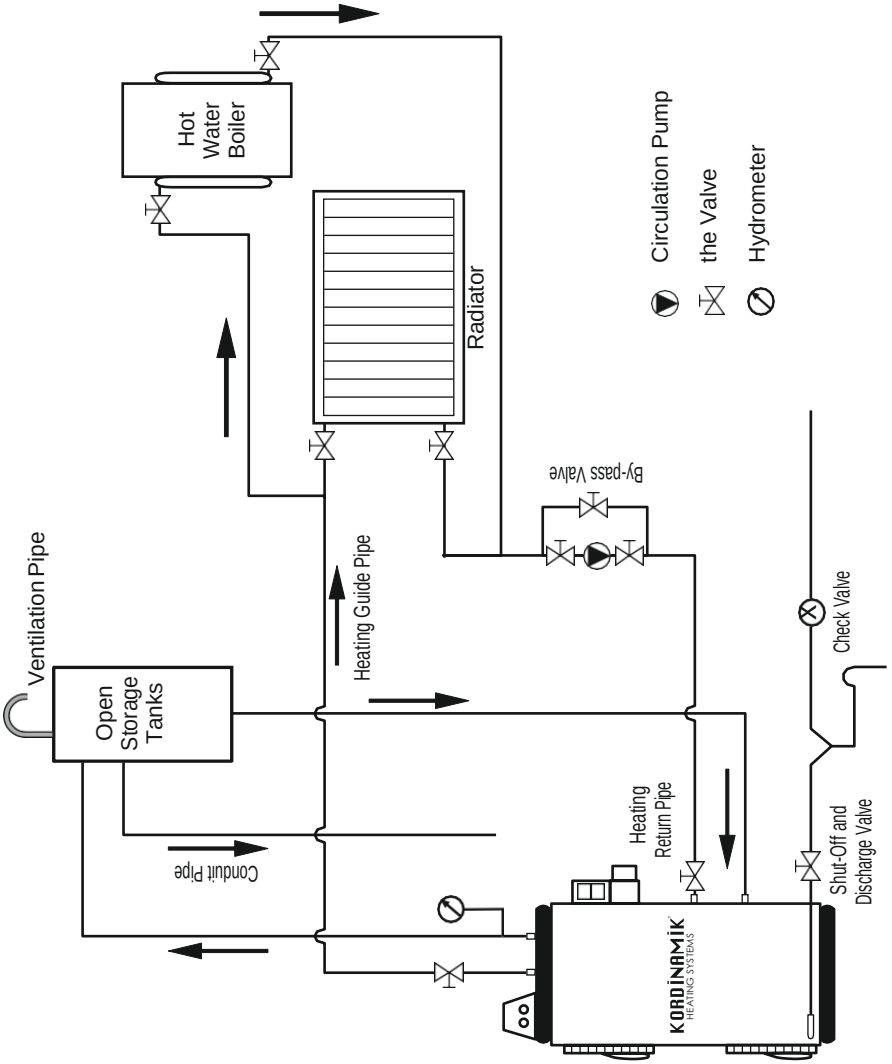
You can install the circulation pump on the return line. (The pump mounted on the return line must protected against extreme temperatures.)

Keep the valve in the closed position on the bypass line.

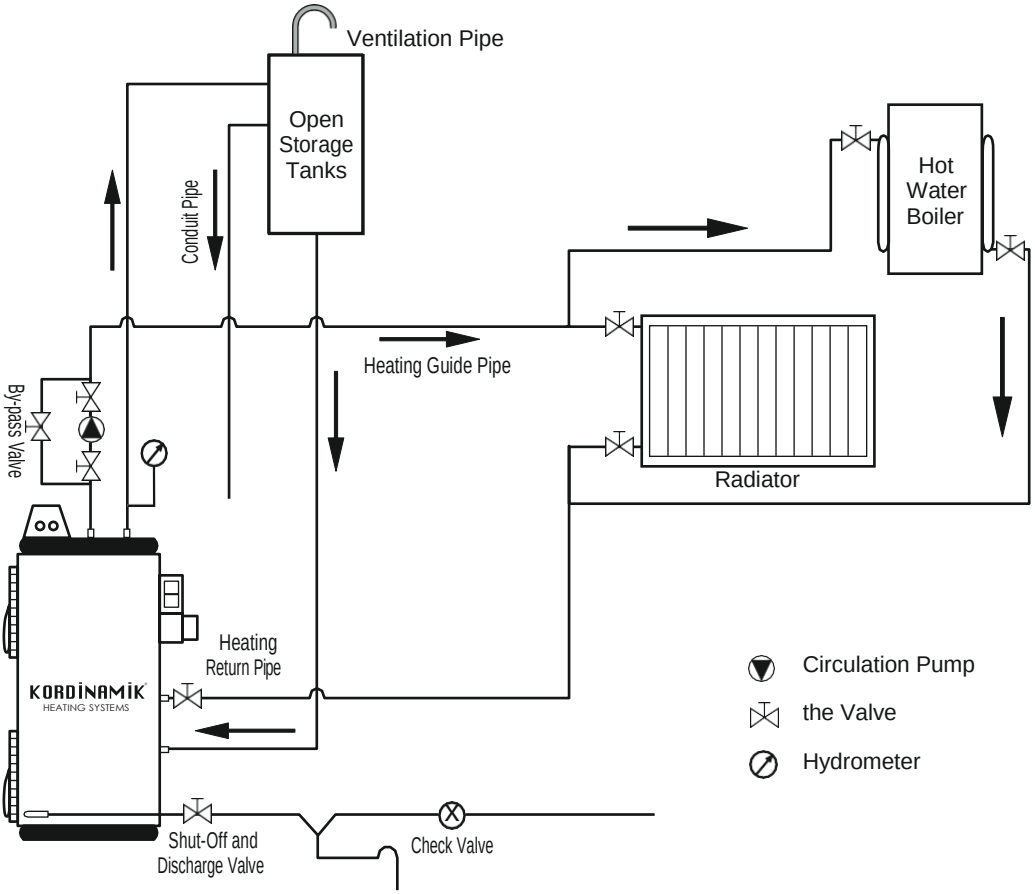
CAPACITY OF BOILER	VOLUME OF THE OPEN TANK
25.000	40 Lt.
35.000 - 45.000	50 Lt.
60.000 - 80.000	100 Lt.
80.000 - 100.000	180 Lt.
100.000 - 180.000	250 Lt.
200.000 - 250.000	400 Lt.

Note: *May vary depending on installation status*

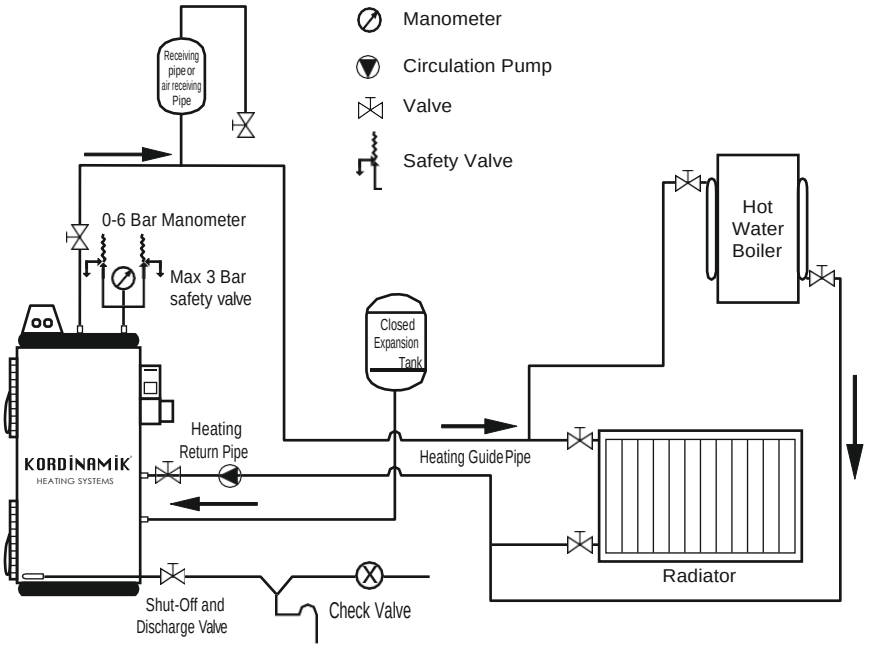
THE CONNECTION SCHEME OF HEATING BOILER AND HOT WATER BOILER



SCHEME OF THE PUMP DIRECTION INTO THE SYSTEM



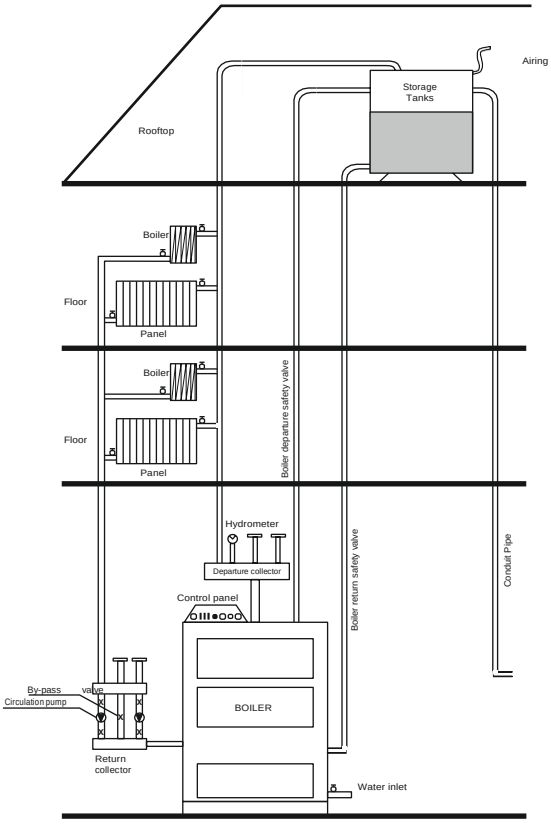
CONNECTION SCHEME OF THE HEATING BOILER TO THE HOT WATER BOILER AT FLOOR LEVEL OR ABOVE FLOOR LEVEL



If it is necessary to place the boiler at the floor level or above the floor level, make a connection to the system in accordance with the above scheme.

You do not need to install a bypass in the system. Because natural circulation is impossible in such systems. In the event of a power failure, such systems should monitored. If the thermal values go from 90-100 °C, you should reduce the fire inside the boiler, (by throwing soil or sand into boiler for cooling, do not use water). If the water temperature rises to the maximum, steam will drained from the safety valves of the system. In these cases, immediately cool the boiler drain the water from the system and corrode the air. If the heating boiler is below floor level and closed, the tank system must installed. In closed systems, there should be an expansion tank and a safety valve.

CENTRAL HEATING INSTALLATION SCHEME



The safety valves mustn't place between the open expansion tank and the boiler.

Make the running line of the heating pipes the same diameter of the socket to the first group of radiators.

The diameter of the pipe in the bypass line should be the same diameter of the pipe in the boiler flow line.

For easy installation and disassembly of the system, record all connections and installations.

BOILER OPERATION

Make sure that the boiler installed in accordance with the instructions and operating standards.

Check the chimney draught before using the boiler. Check that all valves are in the open position (Except the flow and spare valve of the circulation pump).

Before starting, check water in the system that fully filled and corresponds from the hydrometer.

Check for air in the system.

Check the direction of rotation of the circulation pump. Check the rotation direction of the pump by running it. Install the pump horizontally.

Fill the fuel evenly spreading it on the grate. To kindle the fuel in the furnace will need some paper and wood, then close the door and start thefan.

Adjust the temperature by setting from control panel with spare outside temperature. The fan must operate continuously until it reaches the set temperature.

Never open the supply door while the fan is running. Make sure that the lever of grates in the side of the boiler; does not accumulate ash, which can block the access of air. For better combustion efficiency of the fuel , is passing air passage by grates.
Be sure to use high-calorie fuel. Please note that the fuel quality will affect the efficiency work of the boiler, combustion and the resulting amount of ash.
Because of cut off electricity and circulation pump off and there may be an increase in water temperature.

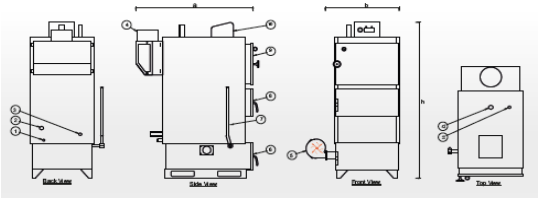
Be sure to use high -calorie fuel. Please note that the quality of the fuel will affect the effectiveness of the boiler, as well as the combustion and resulting amount of ash. When electricity is turned off, an increase in water temperature can be observed since the circulation pump will not work.

IN SUCH CASES;

Open the BY-PASS valve;
Never drain the boiler. If the boiler temperature exceeds 85-90 degrees, extinguish the fire and wait until the boiler cools down.If it is impossible to pull out the burning coal, sprinkle sand and stop the gorenje.It is strictly forbidden to extinguish fire with water.

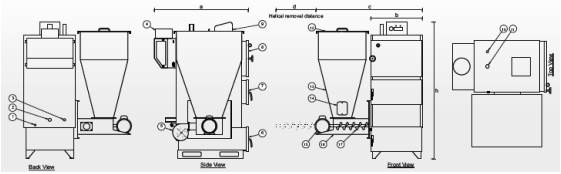
TECHNICAL INFORMATION

3-PASSES SOLID FUEL BOILER SERIES KOR 3G WITH MANUAL FEED



TYPE	CAPACITY (kW)	DIMENSIONS OF HEAT EXCHANGER			STEEL (mm)	PIPES			FUEL CAPACITY (kg)	WATER VOLUME (Lt)	WEIGHT (kg)
		DEPTH (Cm)	WIDTH (cm)	FLAME HEIGHT (cm)		DIAMETR (mm)	THICKNESS (mm)	QUANTITY			
KOR 3G-25	29	45	34	45	4	57	3.2	12	50	70	250
KOR 3G-35	41	45	50	45	4	57	3.2	18	65	85	290
KOR 3G-45	53	50	50	45	4	57	3.2	18	75	105	360
KOR 3G-60	70	65	50	45	4	57	3.2	18	105	145	400
KOR 3G-80	93	85	50	45	5	57	3.2	18	140	195	450
KOR 3G-100	116	85	58	50	5	57	3.2	21	205	245	510
KOR 3G-130	151	86	60	50	5	76	3.2	24	250	320	1050
KOR 3G-160	186	108	60	50	5	76	3.2	24	250	410	1160
KOR 3G-180	209	108	70	50	5	76	3.2	28	250	490	1270
KOR 3G-200	233	125	70	50	5	76	3.2	28	250	550	1390
KOR 3G-250	291	148	80	58	5	76	3.2	28	300	650	1500
KOR 3G-300	349	145	80	58	5	76	3.2	40	300	880	1900
KOR 3G-350	407	158	80	58	5	76	3.2	40	300	930	2100
KOR 3G-400	465	183	80	58	6	76	3.2	40	300	1250	2300
KOR 3G-450	523	203	80	58	6	76	3.2	40	300	1350	2400
KOR 3G-500	582	225	1 M	75	6	76	3.2	60	300	1530	2500
KOR 3G-600	698	245	1.15	80	6	76	3.2	66	350	1630	2700
KOR 3G-700	814	230	1.15	80	8	76	3.2	66	350	1720	2850
KOR 3G-800	930	245	1.20	80	8	76	3.2	66	350	1800	3100
KOR 3G-900	1047	265	1.40	90	8	76	3.2	78	350	2010	3350
KOR 3G-1000	1163	275	1.60	90	8-10	76	3.2	78	350	2150	3600

3-PASSES SOLID FUEL BOILER SERIES KOR 3G/S WITH AUTOMATIC SUPPLY



TYPE	CAPACITY (kW)	DIMENSIONS OF HEAT EXCHANGER			ŞTEEL (mm)	PIPES			FUEL CAPACITY (kg)	WATER VOLUME (Lt)	WEIGHT (kg)
		DEPTH (Cm)	WIDTH (cm)	FLAME HEIGHT (cm)		DIAMETR (mm)	THICKNESS (mm)	QUANTITY			
KOR 3G/S-25	29	45	34	20	4	57	3.2	12	50	70	290
KOR 3G/S-35	41	45	50	25	4	57	3.2	18	65	85	330
KOR 3G/S-45	53	50	50	25	4	57	3.2	18	75	105	400
KOR 3G/S-60	70	65	50	27	4	57	3.2	18	105	145	450
KOR 3G/S-80	93	85	50	27	5	57	3.2	18	140	195	500
KOR 3G/S-100	116	85	58	27	5	57	3.2	21	205	245	560
KOR 3G/S-130	151	86	60	32	5	76	3.2	24	250	320	950
KOR 3G/S-160	186	108	60	32	5	76	3.2	24	250	410	1060
KOR 3G/S-180	209	108	70	32	5	76	3.2	28	250	490	1170
KOR 3G/S-200	233	125	70	32	5	76	3.2	28	250	550	1290
KOR 3G/S-250	291	148	80	35	5	76	3.2	28	300	650	1400
KOR 3G/S-300	349	145	80	35	5	76	3.2	40	300	880	1800
KOR 3G/S-350	407	158	80	35	5	76	3.2	40	300	930	2000
KOR 3G/S-400	465	183	80	35	6	76	3.2	40	300	1250	2100
KOR 3G/S-450	523	203	80	35	6	76	3.2	40	300	1350	2200
KOR 3G/S-500	582	225	1 M	35	6	76	3.2	60	300	1530	2400
KOR 3G/S-600	698	245	1.15	35	6	76	3.2	66	350	1630	2600
KOR 3G/S-700	814	230	1.15	35	8	76	3.2		350	1720	2750
KOR 3G/S-800	930	245	1.20	35	8	76	3.2	66	350	1800	3000
KOR 3G/S-900	1047	265	1.40	40	8	76	3.2	78	350	2010	3250
KOR 3G/S-1000	1163	275	1.60	40	8-10	76	3.2	78	350	2150	3500

5-PASSES SOLID FUEL BOILER SERIES KOR 5G WITH MANUAL FEED

TYPE	CAPACITY (kW)	DIMENSIONS OF HEAT EXCHANGER			ŞTEEL (mm)	PIPES			FUEL (kg)	WATER VOLUME (Lt)	WEIGHT (kg)
		DEPTH	WIDTH (cm)	FLAME HEIGHT		DIAMETR (mm)	THICKNESS (mm)	QUANTITY			
KOR 5G-25	29	45	34	45	4	57	3.2	12	50	70	250
KOR 5G-35	41	45	50	45	4	57	3.2	18	65	85	290
KOR 5G-45	53	50	50	45	4	57	3.2	18	75	105	360
KOR 5G-60	70	65	50	45	4	57	3.2	18	105	145	400
KOR 5G-80	93	85	50	45	5	57	3.2	18	140	195	450
KOR 5G-100	116	85	58	50	5	57	3.2	21	205	245	510
KOR 5G-130	151	86	60	50	5	76	3.2	24	250	320	1050
KOR 5G-160	186	108	60	50	5	76	3.2	24	250	410	1160
KOR 5G-180	209	108	70	50	5	76	3.2	28	250	490	1270
KOR 5G-200	233	125	70	50	5	76	3.2	28	250	550	1390
KOR 5G-250	291	148	80	58	5	76	3.2	28	300	650	1500
KOR 5G-300	349	145	80	58	5	76	3.2	40	300	880	1900
KOR 5G-350	407	158	80	58	5	76	3.2	40	300	930	2100
KOR 5G-400	465	183	80	58	6	76	3.2	40	300	1250	2300
KOR 5G-450	523	203	80	58	6	76	3.2	40	300	1350	2400
KOR 5G-500	582	225	1 M	75	6	76	3.2	60	300	1530	2500
KOR 5G-600	698	245	1.15	80	6	76	3.2	66	350	1630	2700
KOR 5G-700	814	230	1.15	80	8	76	3.2	66	350	1720	2850
KOR 5G-800	930	245	1.20	80	8	76	3.2	66	350	1800	3100
KOR 5G-900	1047	265	1.40	90	8	76	3.2	78	350	2010	3350
KOR 5G-1000	1163	275	1.60	90	8-10	76	3.2	78	350	2150	3600

5-PASSES SOLID FUEL BOILER SERIES KOR 5G/S WITH AUTOMATIC SUPPLY

TYPE	CAPACITY (kW)	DIMENSIONS OF HEAT EXCHANGER			ŚTEEL (mm)	PIPES			FUEL (kg)	WATER VOLUME (Lt)	WEIGHT (kg)
		DEPTH	WIDTH (cm)	FLAME HEIGHT		DIAMETR (mm)	THICKNESS (mm)	QUANTITY			
KOR 5G/S-25	29	45	34	20	4	57	3.2	12	50	70	290
KOR 5G/S-35	41	45	50	25	4	57	3.2	18	65	85	330
KOR 5G/S-45	53	50	50	25	4	57	3.2	18	75	105	400
KOR 5G/S-60	70	65	50	27	4	57	3.2	18	105	145	450
KOR 5G/S-80	93	85	50	27	5	57	3.2	18	140	195	500
KOR 5G/S-100	116	85	58	27	5	57	3.2	21	205	245	560
KOR 5G/S-130	151	86	60	32	5	76	3.2	24	250	320	950
KOR 5G/S-160	186	108	60	32	5	76	3.2	24	250	410	1060
KOR 5G/S-180	209	108	70	32	5	76	3.2	28	250	490	1170
KOR 5G/S-200	233	125	70	32	5	76	3.2	28	250	550	1290
KOR 5G/S-250	291	148	80	35	5	76	3.2	28	300	650	1400
KOR 5G/S-300	349	145	80	35	5	76	3.2	40	300	880	1800
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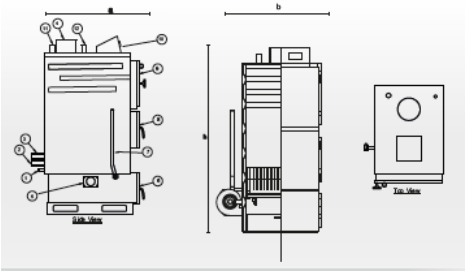
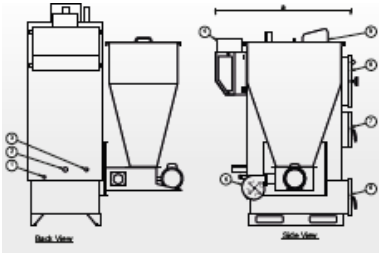
KOR 5G/S-700	814	230	1.15	35	8	76	3.2	66	350	1720	2750
KOR 5G/S-800	930	245	1.20	35	8	76	3.2	66	350	1800	3000
KOR 5G/S-900	1047	265	1.40	40	8	76	3.2	78	350	2010	3250
KOR 3G/S-1000	1163	275	1.60	40	8-10	76	3.2	78	350	2150	3500

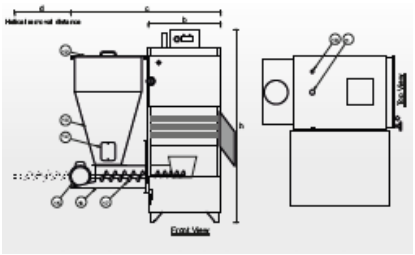
5-PASSES SOLID FUEL WATER LAYER BOILER SERIES KOR 5G/D WITH MANUAL FEED



TYPE	CAPACITY (kW)	DIMENSIONS OF HEAT EXCHANGER			ŚTEEL (mm)	FUEL (KG)	WATER VOLUME (LT)	WEIGHT
		DEPTH	WIDTH	FLAME HEIGHT				
KOR 5G/D-25	29	45	34	45	4	50	70	250
KOR 5G/D-35	41	45	50	45	4	65	85	290
KOR 5G/D-45	53	50	50	45	4	75	105	360
KOR 5G/D-60	70	65	50	45	4	105	145	400
KOR 5G/D-80	93	85	50	50	5	140	195	450
KOR 5G/D-100	116	85	58	55	5	250	245	510

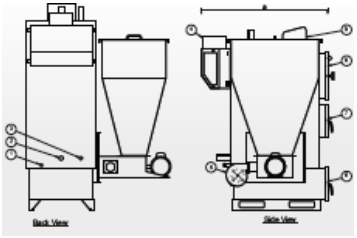
3-PASSES SOLID FUEL BOILER SERIES KOR 3G/SO WITH AUTOMATIC SUPPLY AND POSSIBILITY OF BURNING WOOD

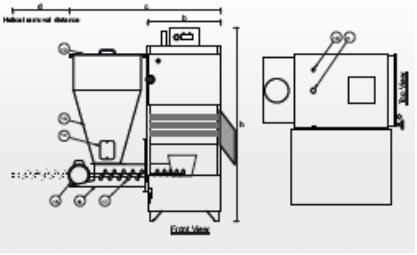




TYPE	CAPACITY (kW)	DIMENSIONS OF HEAT EXCHANGER				STEEL (mm)	PIPES			FUEL (KG)	WATER VOLUME	WEIGHT
		DEPTH	WIDTH	ALEV BOYU (cm)	FLAME HEIGHT		DIAMETR (mm)	THICKNESS (mm)	QUANTITY			
KOR 3G/SO-25	29	45	34	40	25	4	57	3.2	12	110	70	290
KOR 3G/SO-35	41	45	50	40	25	4	57	3.2	18	130	85	330
KOR 3G/SO-45	53	50	50	40	25	4	57	3.2	18	140	105	400
KOR 3G/SO-60	70	65	50	40	25	4	57	3.2	18	175	145	450
KOR 3G/SO-80	93	85	50	40	25	5	57	3.2	18	190	195	500
KOR 3G/SO-100	116	85	58	40	25	5	57	3.2	21	200	245	560

5-PASSES SOLID FUEL BOILER SERIES KOR 5G/SO WITH AUTOMATIC SUPPLY AND POSSIBILITY OF BURNING WOOD





TYPE	CAPACITY (kW)	DIMENSIONS OF HEAT EXCHANGER				STEEL (mm)	PIPES			FUEL (KG)	WATER VOLUME (Lt)	WEIGHT (kg)
		DEPTH	WIDTH	ALEV BOYU (cm)	FLAME HEIGHT		DIAMETR (mm)	THICKNESS (mm)	QUANTITY			
KOR 5G/SO-25	29	45	34	40	25	4	57	3.2	12	110	70	290
KOR 5G/SO-35	41	45	50	40	25	4	57	3.2	18	130	85	330
KOR 5G/SO-45	53	50	50	40	25	4	57	3.2	18	140	105	400
KOR 5G/SO-60	70	65	50	40	25	4	57	3.2	18	175	145	450
KOR 5G/SO-80	93	85	50	40	25	5	57	3.2	18	190	195	500
KOR 5G/SO-100	116	85	58	40	25	5	57	3.2	21	200	245	560

CLEANING AND MAINTENANCE

Solid fuel boilers **KORDINAMIK** the boiler is very easy to clean and maintain.

Before each refueling of the manual boiler, shake the grill several times with the lever on the side.

Open the top door of the boiler and clean the smoke pipes with a wire brush and let it pour into the boiler.

Clean the accumulated soot in the boiler chimney smoke chest by opening the chimney covers and after cleaning completed close lid tightly. If smoke continues to come out from the covers, you can seal the door with red silicone.

Clean the accumulated dust from fan. Do not store the fuel bag around the fan valve.

Periodically check the operation of the valves and fan. If there is dirt around the fan door, clean and reinstall it. Be sure to clean chimneys once a week, once a month the heat exchanger and the chimney.

Lubricate the handles and bolts of the boiler door once per month withgrease.

EMERGING PROBLEMS AND SOLUTIONS

FAILURES	REASONS	SOLUTIONS
THE FAN NOT WORK	Fan is not getting electricity power. Incorrect connection of electricity to the fan. The fuse has blown. Fan Thermostat is turned off or on the lowest setted. The Room thermostat witched off	Check the power of electricity. Check the fan electricity connection Check the fuse on the board Adjust the fan thermostat above to 45 degrees. Check the room thermostat.
THE BOILER WATER TEMPERATURE IS CONTINUOUSLY GROWING	Circulation pump does not work or could have air inside. The fan valve may have been left open. The bottom door of the boiler may have been left open. Maybe there is no electricity.	Check the circulation pump. Take the air by loosening the bolt on the pump, press the pump shaft 1-2 times with a screwdriver and turn clockwise during this process will flow water, when the process is completed install the bolt in place. Check the fan valve. Check the bottom door of the boiler. Check the power electricity.
RADIATORS DO NOT HEAT UP	Shortage or non-working circulation pump. Air in system. Bypass valve may left open. May left close the valve of coming/return pipes of the boiler . Incorrect connection of the radiator.	Check the speed and turnover of circulation pump. Remove air from radiators. Close the bypass valve. Open the valve of the coming/return pipes of the boiler. Hot water should come from the top of the Radiator.
THE FAN RUNS BUT DOES NOT REACH THE DESIRED DEGREE IS ACHIEVED OR TOO LATE	Incorrect connection of electricity to the fan. The fan valve may become stuck. Clogging of the chimney. The Ash drawer full. Large flow pump.	Check the fan electricity connection Check the fan valve. Clean the heat exchanger tubes. Empty the ash drawer. Use a suitable flow pump in the installation.
DIFFICULTY IN COMBUSTION, EXCESSIVE FUEL CONSUMPTION AND INSUFFICIENT HEATING.	Damp, dusty and poor Quality fuel; Insufficient air; Chimney traction is not suitable; Insufficient isolation;	Change fuel ; Check the fan and chimney traction; Select the width of the chimney accordance with the boiler ; Isolate the house and boiler room;
EXCESSIVE PITCHING IS OCCURRING IN THE BOILER.	The chimney sweep is insufficient; Poor quality of fuel; The boiler operates at a low degree;	Check the chimney traction; Change fuel; Increase the degree of the boiler (If the boiler is running at 40-45 degrees plaque is normal)
UNBURNED FUEL LEFT IN THE BOILER	Automatic control temperature or high pump thermostat; Outdoor temperature above during season temperature;	Adjust the thermostat of the pump 30 or below; To re-burn incombustible fuels, load it without getting ash from the boiler and without touching the ash, you can do this process until there is no place to remove the fuel or it is too difficult to ignite. Clean the ash from the boiler 1 or 2 times a week.

AUTOMATIC SUPPLY BOILER CONTROL PANEL AND MENU

Press the button to turn the device on and off. In this case, the on-screen backlight will light up and the values will be displayed on the screen. When the device is turned off, the motors running at that time are also turned off. However, if the boiler is hot, the circulation pump remains on until the boiler cools down. When the boiler cools down, the pump will automatically turn-off.

To set the temperature value: Press the button P Use the + / - buttons to select the S**ET TEMPERATURE** item.

To change the programmed parameters, press the P button. Enter the desired value using the + / - buttons. After selecting the preset parameter, the settings are saved automatically for 5 seconds.

Control Panel Menu

1. **SET PROGRAMMED TEMPERATURE** - 32 °C - 80 °C
2. **FUEL CONTROL** - ON/OFF
3. **FUEL SUPPLY TIME** - 2 - 60 seconds
4. **FUEL WAITING TIME** - 10 sec - 10 min
5. **FAN CONTROL** - ON/OFF
6. **FAN SPEED** - 1-2-3-4 levels
7. **CIRCULATION CONTROL** - ON/OFF
8. **IGNITION CONTROL** - ON/OFF
9. **WIRELESS CONNECTION** - ONLINE/OFFLINE

ERROR CODES AND SOLUTIONS;

OVERCURRENT: This error occurs if the gearbox (motor) draws too much current when the motor is stuck or it is faulty. It is necessary to eliminate the cause of the jammed gear motor.

«LIMIT THERMOSTAT ERROR – RESET LIMIT THERMOSTAT» - There is a limit thermostat on the back cover of the device housing. This thermostat turns on the fan and the gear motor, when the boiler overheats (usually 95 °C is selected), at the same time the circulation pump is turned on.

In this case, which is called "Limit thermostat tripped", is displayed on the screen **«LIMIT THERMOSTAT ERROR – RESET LIMIT THERMOSTAT»**

To correct the limit thermostat error, the boiler must be cooled down. When the boiler temperature drops below 95 °C (+/- 1 °C), the limit thermostat will recover from the fault, but it will still not change the position of the contacts. To change the position of the contacts, open the cover of the limit thermostat by turning it, then press the red button that you will see after opening the cover. At this point, the limit thermostat is reset.

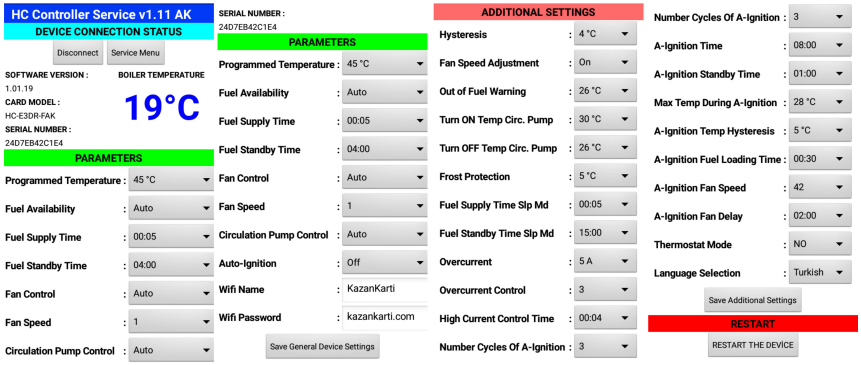
The device is reset by pressing the button and the error is also removed from the screen.

GENERAL SERVICE APPLICATION PARAMETERS

- **Wireless Connection -** Wifi Name / Wifi Password;
- **Hysteresis** - Hysteresis temperature of boiler; Can be set 2-8 degrees;
- **Fan Speed Adjustment -** ON/OFF
- **Out of Fuel Warning** - FAULT temperature during fuel ends; Can be set 20 - 60 degrees;
- **Turn On/OFF Circulation Pump Temperature;** Can be set 20 – 60 degrees;
- **Frost Protection Temperature;** Can be set 1 – 10 degrees;
- **Fuel Supply Time SLEEP MODE;** Can be set from 3 sec – 1 minute;
- **Fuel Standby Time SLEEP MODE;** Can be set 10 sec – 30 minutes;
- **Over current** AMP (sets 4 AMP – 15 AMP)
- **Over current AMP control;**
- **THERMOSTAT -** Can be set NO-NC
- **Language Selection -** ENGLISH/RUSSIAN/TURKISH

THINGS TO CONSIDER DURING AUTOMATIC IGNITION AND SETTINGS

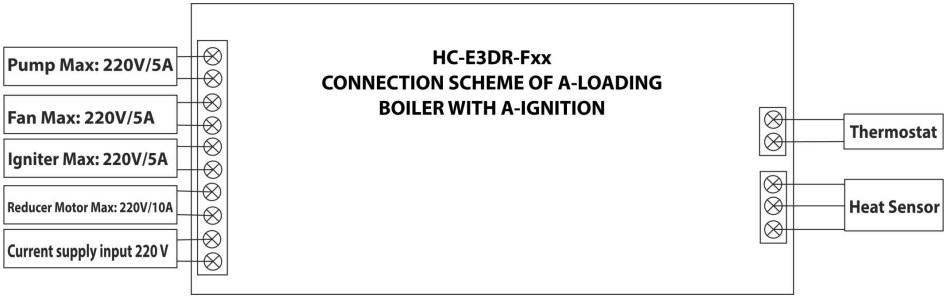
- **Number of cycles of A-ignition** – Attempts cycles to spark fuel; Can be set 1-9 cycles;A-Ignition Time – Period of operation of the auto ignition; Can be set 10 sec-20 minutes; We recommend set 17-20 minutes of auto ignition for boilers with power 116 – 1163 kw.
- **A-Ignition Standby Time** - The interval between attempts to ignite, Can be set 10 sec-10 minutes)
- **Max Temp During A-ignition** - The maximum temperature of the boiler during auto ignition. Can be set 20-45 degrees;
- **A-Ignition Temp Hysteresis** - The hysteresis temperature of the boiler during auto-ignition. Can be set 2-10 degrees;
- **A-Ignition Fuel Loading Time** – Time of supplying fuel during auto ignitin; Can be set 1 sec-4 minutes;
- **A-Ignition Fan Speed** – Regulation of fan speed (blowing) during A-ignition; Can be set 25-100%; We recommend set 100% blowing of fan for boilers with power 116 – 1163 kw;
- **After ending ignition full open FLAP OF FAN!!!**
- **A-Ignition Fan Delay** - Time of warming igniter before fan starts blowing; Can be set 1 sec-3 minutes;



Technical specifications

Operating Voltage	**: 220-230 V**
Power Consumption	**: 40W**
Maximum Rated Current	**: 20A**
Display	**: 2x16 LCD Display**
Wi-Fi	**: 802.11 b/g/n/e/i (802.11n @ 2.4 GHz up to 150 Mbit/s)**
Wi-Fi operating status monitoring	**: By screen**
Bluetooth	**: v4.2 BR/EDR and Bluetooth Low Energy (BLE)**
Reducer Output Current	**: Mak. 3000W**
Reducer Condition Control	**: Led**
Ignition Output Current	**: Mak. 1250W**
Ignition Status Monitoring	**: On display**
Fan Output Current	**: Mak. 1250W**
Fan Status Monitoring	**: Led**
Fan Start Support	**: Exist**
Circulating Output Current	**: Mak. 1250W**
Monitoring Of Circulation Status	**:Led**
Temperature measurement	**: -55°C to + 125°C**
Thermal Input	**: NO/NC**
Operating Temperature	**: -40°C to + 125°C**
Storage Temperature	**: 0 °C to 60°C**
Working Humidity	**: % 10 to %95 RH (Non-condensing)**
Dimensions	**: 81mm x 168 mm**

AUTOMATIC LOADING BOILER CONTROL PANEL CONNECTION SCHEME



CONTROL PANEL AND MENU OF THE BOILER WITH THE MANUAL LOADING

1. Completely fill with fuel and spark. There should be no empty space in the boiler grid. Otherwise, temperature of boiler will not rise or rise very late.

2. Close all doors of boiler. Especially check the ash remove door. For control the temperature, the lower/third door must tightly closed.

3. Press the  button on the control panel.

4. The plus and minus buttons are used to increase or decrease the desired  temperature and to select the fan speed. 

5. Temperature of switching ON and OFF circulating pump regulated automatically.

6. The system automatically switch off when the fuel runs out in the boiler.

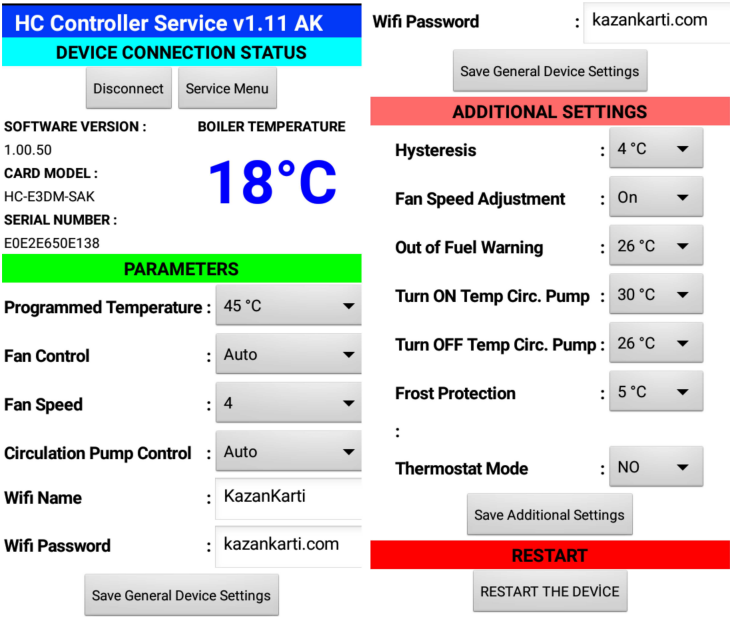
7. When the fuel ends in the boiler and the fire completely extinguished, warning displayed the **YBT.** For restart working of boiler press and hold the (+) button and reinsert the boiler's electrical plug.

8. For restarting working after warnings ANS, SEN, or YBT, press and hold the (+) button and reinsert the boiler's electrical plug.

9. In case of abnormal temperature (ANS), you need to wait a while for the temperatu re to drop after reset. In this case, reset and wait without disconnecting the power supply.

SERVICE APPLICATION PARAMETERS

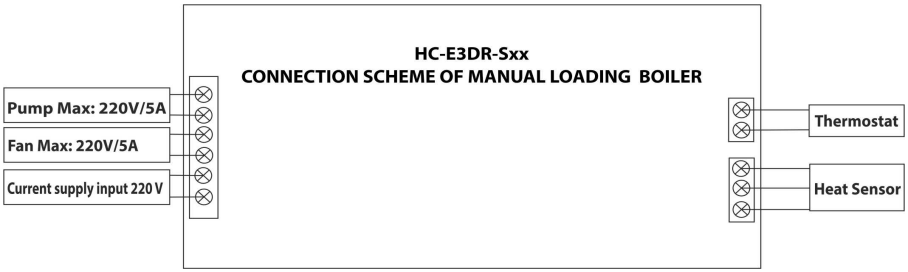
- **Wireless Connection -** Wifi Name / Wifi Password;
- **Hysteresis** - Hysteresis temperature of boiler; Can be set 2-8 degrees;
- **Fan Speed Adjustment** - ON/OFF
- **Out of Fuel Warning** - FAULT temperature during fuel ends; Can be set 20 - 60 degrees;
- **THERMOSTAT** - Can be set NO-NC



Technical specifications

Operating Voltage	**: 220-230V**
Power Consumption	**: 40W**
Maximum Rated Current	**: 20A**
Display	**: 3 character Display**
Wi-Fi	**:** 802.11 b/g/n/e/i (802.11n @2.4 GHz up to 150 Mbit/s)
Wi-Fi operating status monitoring	**: Led**
Bluetooth	**:** v4.2 BR/EDR and Bluetooth Low Energy (BLE)
Fan Output Current	**: Mak.1250W**
Fan Status Monitoring	**: Led**
Fan Take-Off Support	**: Exist**
Circulating Output Current	**: Mak. 1250 W**
Monitoring Of Circulation Status	**: Led**
Temperature measurement	**: -55 °C to +125 °C**
Thermal Input	**: NO/NC**
Operating Temperature	**: -40°C to +125 °C**
Storage Temperature	**: 0 °C to 60°C**
Working Humidity	**: %10- %95 RH (Without condensation)**
Sizes	**: 81mm x 168mm**

MANUAL LOADING BOILER CONTROL PANEL CONNECTION SCHEME



MALFUNCTIONS AND SOLUTIONS THAT MAY OCCUR		
Problems	**Causes**	**SOLUTION**
The card does not work	Electricity Does Not Enter The Device	Check if the power is coming in
	The current connector is not connected	Check that the connector is connected
	There may have been a malfunction in the fuse	Replace the glass fuse
The card does not show the boiler temperature correctly	The heat sensor is not in place	Check that the heat sensor is located at the place where the boiler temperature is measured
Sensor malfunction	The heat sensor is not connected	Check the heat sensor socket
	The heat sensor is connected incorrectly	Check that the heat sensor is original
		Check the correct connection of the heat sensor
The fan is not working	The fan thermostat is set to a low temperature	Adjust the fan thermostat to at least 60°C
	Fan control off	Check the fan control parameter in the menu
	The fan is not connected	Check the fan connections
Sounds from the fan	The charcoal fan can be finished	Check the fan
	The fan is not suitable for gradual operation	Maximize the fan speed setting
The reducer does not work	Reducer control is off	Check the fuel management option in the menu
	The reducer is not connected	Check the reducer connections
Does not Ignite	Ignition mode off	Check the ignition control parameter in the menu
	The recidance not connected	Check the connections of the heating element

MALFUNCTIONS AND SOLUTIONS BOILERS WITH AUTOMATIC LOADING

REASONS	SOLUTIONS
If unburned coal or pellets scatter	Increase the fuel waiting time or reduce the fuel supply time;
If the flame burns inside the burner	Increase the fuel supplying time or decrease the fuel waiting time.
If there is smoke coming from the burner	The ash pan is full; By-pass valve clogged; Incorrectly set the time of supply and waiting for fuel; (The best type of combustion is when the flame burns in the middle of the burner) The chimney connection pipe may be full, cleaning is required.
Electricity goes into the gearbox, but it does not rotate.	There is a blockage of coal or pellets inside the helix. The gear motor may have touched the platinum arc, call for service.
If the boiler temperature does not reach the desired temperature	a) Lack of fuel; Increase the fuel supplying time or decrease the fuel waiting time. b) The water circulates very quickly, use a suitable pump. c) Select the boiler according to the needs of the system.

WARRANTY CONDITIONS

1. The warranty period starts from the date of delivery of the goods and is 2 years.
2. The warranty period for the equipment is determined as follows: Heat Exchangers (boiler) 2 years // REDUCER + MOTOR 1 year // Fan 1 year //Control panel 1 year.
3. In boilers with automatic feeding, deformation of the helix or burning of the reducer + motor is not covered by the guarantee.
4. If the product is defective during the warranty period, the repair time spent is added to the warranty period. The repair period of the goods is no more than 20 working days. The repair period is determined from the moment of notification to the service station, dealer, representative, agency or one of the manufacturers.
5. If the product is defective during the warranty period, due to the quality of materials, also assembly errors, the cost of labor and the replacement part will be repaired without any payment.
6. It is necessary that the repair of the goods remains within the warranty period from the date of delivery, it is necessary to make sure that the failure of one unit is repeated more than twice and leading to the occurrence of various malfunctions. In the absence of a service station, respectively, the seller, dealer, agent, representative, importer, or manufacturer will file a non-repair report.
7. The warranty does not cover accidents due to unknown causes, commonly referred to as force majeure, or an order, movement or repair required in the course of the proper use of the materials.
8. During the warranty period, the consumer may not be charged for work or a similar fee in exchange for a service provided for periodic maintenance, which is required by the manufacturer or importer and which must be performed by service stations. Given that this warranty card does not apply to errors of use, it is in the interests of the customer to act in accordance with the warnings of the service personnel and take the necessary precautions. The service life of the product is 10 years. In order for the boiler to function, it is necessary to have the necessary spare parts.

WARRANTY CONDITIONS TO BE CONSIDERED BY THE CUSTOMER

The warranty does not cover the elimination of defects resulting from the use of the product in violation of the rules:

- Damage and malfunction caused by usage errors;
- Damage and malfunction of the product during loading, unloading and transportation after delivery to the customer;
- Low and redundancy voltage; wiring faults, damage and malfunctions that may result from use at different voltages written on the product label;
- Malfunctions and damage from fire, lightning and natural disasters;
- Malfunctions caused by the use of the product in violation of the instructions and operating manual;
- Elimination of the above faults is carried out for a fee;
- Installation and transportation of the product is not included in the price of the product;
- The warranty card must be signed by your dealer;
- When you need service, contact closest authorized KORDINAMIK service.
- Please do not forget to request and approve the service ticket. The received service coupon will benefit you from any questions that may arise in the future.
- Responsibility for providing the guarantee to the consumer meets the requirements of the seller, dealer, agent or representative purchased by the consumer. If the original serial number of the product has removed or changed, the warranty certificate will revoked.
- You can contact the customs and commercial Ministry to the Director of consumer protection and competition with any problems with the warranty card.

Service Ticket

Service Representative:
Tittle:
Address:
Phone:
Date of failure notification:
Service station :
Delivery date:
Date of delivery of goods to the consumer:
Faults and Operations:
Payment:
Signature Service Representative:

KORDİNAMİK

WARRANTY DOCUMENT

THE NAME OF THE MANUFACTURER : **KORDİNAMİK ISI SİSTEMLERİ SAN. ve TİC. LTD. ŞTİ.** **Address: Vatan OSB mah. 305 cad. No 13/1 ISPARTA / TURKEY** **Phone: +90 246 222 20 90** **Email: export@kordinamik.com** **Signature:**	**THE SELLER OF THE COMPANY:** **Address:** **Phone:** **Fax:** **Email:** **Date and number of invoice:** **Place and date of delivery:** **Signature of representative:** **Company seal:**

PRODUCT

KIND: Solid fuel heating boiler **Mark: KORDINAMIK** Heating Systems **Model:** KOR TSE HYB APPROVAL DATE NO: 01/10/2014-32-HYB-361	**Guarantee period: 2 years** **Maximum repair time:** 20 working days **Banderol and serial number:** **Date and approval number of the Ministry of SSGYB:** 11/11/2014/44627

WARRANTY TERMS

1. The warranty period starts from the date of delivery of the goods and is 2 years.
2. The warranty period for the equipment is determined as follows: Heat Exchangers (boiler) 2 years //REDUCER + MOTOR 1 year // Fan 1 year / / Control panel 1 year.
3. If the goods are found to be defective, the consumer, in accordance with Article No. 11 of Law No. 6502 on consumer protection;
   a. Request a discount on the sale price;
   b. Request free repair;
   c. A request to replace a sale with a non-discretionary number may use one of its rights.
4. In the event that the consumer chooses the right of free repair for these rights; labor costs, replaced parts or any other name that is not obliged to repair or produce the goods is obliged to do. The consumer can use the right of free repair against the manufacturer or importer. The seller is jointly responsible for the exercise of this right by the consumer and the importer.
5. If the consumer uses the right to free repair;
   - Repeated fault within the warranty period
   - Exceeding the maximum time required for repair
   - If an authorized service station identified by a reporter, seller, manufacturer, or importer in the report, the seller may request a refund of the price of the goods, a reduction in the price of defamation, or a replacement of the goods with an unspecified number, if possible. The seller cannot refuse the consumer demand. If this request not fulfilled, the seller, manufacturer and importer are responsible.
6. Time of repair of goods is 20 working days, for cars and vans no more than 30 working days. This period starts from the date of delivery of the goods to the authorized service station or from the date of notification of the seller of the malfunction of the goods within the warranty period. If the product not repaired within 10 working days, the manufacturer or importer must allocate another product with similar characteristics for use by the consumer until the repair of the product is completed. In case of product failure within the warranty period, the time spent for repair added to the warranty period.
7. Malfunctions related to the use of the product in violation of the instructions contained in the directory of use not covered by the warranty.
8. The consumer may apply to the Consumer Arbitration Committee or the Consumer Court at the location of the settlement or in the case of a transaction with the consumer in the event of any disputes arising from the use of the rights arising from the guarantee.
9. In the event that the Seller does not provide this Guarantee Certificate, the consumer may apply to the General Directorate for Consumer Protection and Market Supervision of the Ministry of Customs and Trade.

KORDİNAMİK
HEATINGSYSTEMS
www.kordinamik.com

Declaration of conformity according to the 2014/68/EU Pressure Equipment Directive and Machinery Directive 2006/42/EC

Date / Position:

Manufacturer : KORDİNAMİK ISI SİSTEMLERİ SAN. VE TİC. LTD. ŞTİ.
Exporter : KORDİNAMİK DIŞ TİCARET LTD. ŞTİ.
Address : Vatan OSB MAH. 305 CAD. No 13/1 ISPARTA / TURKEY

Product description:		
Product type/CAPACITY:		
Product serial number:		
Year of manufacture:		
Maximum working pressure:	3	bar
Operating temperature: (Min-Mac.)	40-80	°C
Volume:	60	L
Test pressure:	5	bar
Pressure test date:		
Testing tool and addictive:	Water under pressure/ Water	
Control card serial No		

Implemented the process of assessment: Modul H

Applicable standards and technical specification: Directives: EN 303-5

Approved organization name: 2014/68/EU Pressure Equipment Directive

Approved organization address: TCS Uluslararası Belgelendirme Hizmetleri San. ve Tic. Ltd. Şti.

Ali Nihat Tarlan Cad. Kutay Han No103 D: 9 İçerenköy / Ataşehir / İSTANBUL / TÜRKİYE

The approved organization No: 2513

File technician

Signature Business manager

NOTES