



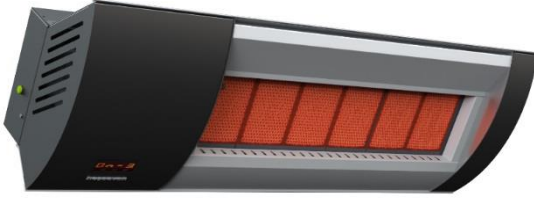
INFRA-RED HEATING DEVICES

USER MANUAL

HRK-7 / HRK-11 / HRK-18

HRG-7/ HRG-12





HRK Model

HRG Model



INFA-RED HEATING DEVICES and USER MANUAL

MODELS:

HRK-7 / HRK-11 / HRK-18 / HRG-7 / HRG-12

Thank you for choosing our company; Our products are a great heating solution with high quality manufacturing and modern design, developed with the highest technology aiming to live the feeling of heat that a device gives you completely safely.

Hosseven Isı & Yalıtım San. Tic. A.Ş.

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This manual is to provide information on how to install, operate and maintain a ceramic radiant heater. Please read the safety-related information described in this manual carefully.

Safety information is indicated by the following symbols.



DANGER



WARNING



CAUTION

- **READ THIS MANUAL CAREFULLY** before assembling and operating your device. Then keep it for review when you find it necessary.
- Improper installation, operation, or maintenance can lead to injury, death, or damage to your property.
- This device must be installed according to mandatory standards and rules in the country of use. Before installation, gas distribution conditions and pressures in the region where they are located should be adjusted by checking the compatibility of the device with the operating conditions.
- The electrical connection grounding of the device must be done.
- This device is produced for outdoor use, well-ventilated spaces or spaces not used for domestic purposes.
- Devices installed outdoors must be protected against rain.

1. IMPORTANT INFORMATION and WARNINGS



WARNING

- THIS DEVICE CANNOT BE INSTALLED AND USED IN RESIDENCES AND INTERIORS.
- ATTENTION TO KEEP CHILDREN AWAY FROM THE HEATING ZONE.
- NO MATERIALS AVAILABLE NEAR THE DEVICE.
- FABRIC AND IRRITABLE ITEMS SHOULD NOT BE HANGED BEFORE OR NEAR THE APPLIANCE.
- THE PERFUME CAN BE COMPRESSED WHEN THE DEVICE IS OPERATING.
- ANY CONSERVATION, PROTECTIVE AND SERVICE PREVENTIVE SHOULD NOT BE INSTALLED INTO THE ENVIRONMENT. (In this case, it should be asked to the authorized person.) THE DEVICE SHOULD NOT BE OBTAINED FROM THE SERVICE PURPOSE.
- INSTALLATION AND REPAIRING MUST BE DONE BY THE AUTHORIZED PERSON, THE DEVICE SHOULD BE CONTROLLED BY THE AUTHORIZED PERSON.

Failure to comply with the specified warnings may result in injury to people and damage to the place where the device is mounted.

- The rules stated in the manual should not be exceeded during assembly, operation and maintenance.
- This device has been produced for outdoor use or in well-ventilated areas. The construction of the exterior spaces to be mounted is shown schematically in the annex.
- Do not perform maintenance work without turning off the device, disconnecting the electrical connection and reaching the ambient temperature.
- Do not expose the device to water and moisture. THE DEVICE MUST BE PROTECTED FROM RAIN.
- If the device has been exposed to rain and moisture, do not use it without checking authorized personnel.
- The installer must install according to the gas connection rules.
- Materials under or near the device can be damaged by radiant heat. Wall, floor, furniture, plants etc. affected by extreme heat. objects must be at least 1100 mm from the top and side edges of the device.

- If there is a material that will be damaged by heat, pay attention to the distance of the device to this substance. In such cases, ask the person (s) who installed the heat (separator), which also provides the heat direction, from the installer. Isikes device is charged externally.
- The entire gas system, hose connection, regulator, pipes and burner device should be checked for any leaks or damage by the authorized person before using it.
- Leak tests should be done with soap bubbles, never with a flame.
- The device must not be used without all leak checks carried out by an authorized person.
- The hose connection should be checked before each use. Before operating the device, the hose must be checked and replaced if it is worn or damaged.
- The replaced hose must be approved and suitable for gas.
- The gas connection hose must be connected to the area where the connection area will not be damaged and cause an accident.
- Radiant heater cannot be used by mounting on caravans and / or boats.
- Maintenance and repair should be done by an authorized person ONLY.
- Improper assembly, adjustment, and modification other than the rules can cause injury to people, damage to the building, and death.
- Do not attempt to make illegal changes regarding the device.
- Never operate the device in an explosive atmosphere, in stock areas of flammable vapors.
- When you feel the smell of gas, close the gas valve immediately.
- Do not paint around the device.
- Do not throw any object towards the device.
- In case of any damage, stop using, turn off the electricity and gas connection and protect the place where the damage is.
- Control panel, burner, air circulation transition areas should be kept clean. If it should be cleaned frequently, it should be cleaned.
- Gas valve should be kept closed when the device is not in use.
- Check the device if the following situation has occurred.
- 1- If the temperature does not increase in the device
- 2- If the burner sounds noise during operation (not the sound coming during the ignition and burning)

- Make sure that young children do not play around the device.
- Children and persons with disabilities should not be allowed to operate the device unless they are adults and responsible persons.
 - The device should be checked regularly for damage. When any damage is detected to the cable and socket, the device should be stopped and the authorized person should be informed and repaired.
 - If the cable has a problem with the electrical connection or the device is damaged, disconnect the electrical connection and stop operation immediately. Only allow it to be repaired by authorized person.
 - Some smoke may come out of the appliance during the first start-up. This smoke and steam consists of oils and paint used during the manufacture of the device. It will disappear in 30 minutes.
 - Always make sure that the control board is protected against water.
 - Check if the rubber (gasket) parts are damaged, if it is damaged, have it repaired by authorized person.
 - The device should not be covered with insulation or similar material.

2. GENERAL INFORMATION ABOUT THE PRODUCT

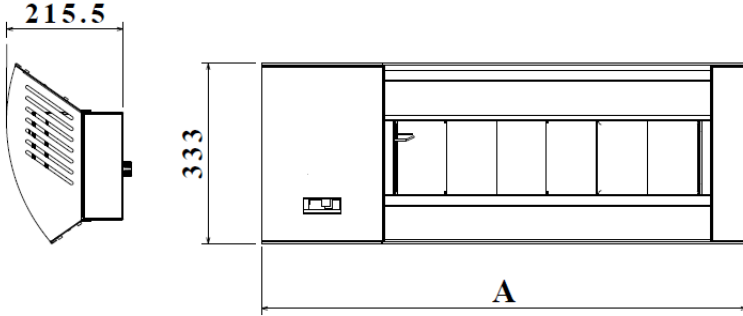
2.1. Product introduction

Radiant heaters of Hoşseven brand are designed for effective heating. The heater is equipped with an electronic card controlled by a remote control.

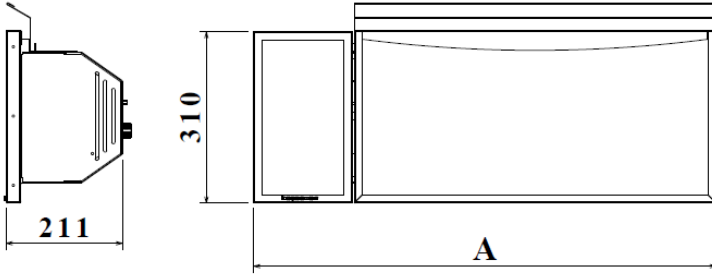
NOTE: The device has been designed in accordance with the rules of use outdoors.

2.2.Product Technical Information

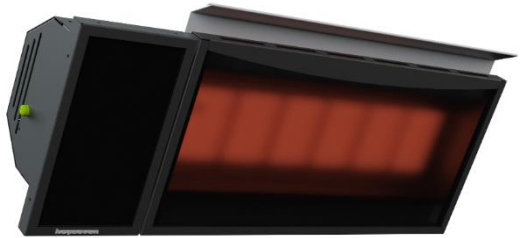
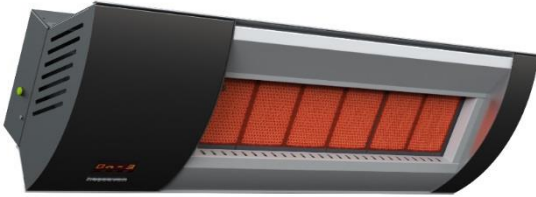
MODELS		HRK-7	HRK-11	HRK-18	HRG-7	HRG-12
Ceramic Stone	Piece	4	6	10	4	6
Power	kW	7	11	18	7	11.2
Gas type and pressure		G20 20 mbar / LPG 30 mbar				
Gas Consumption	m ³ /h NG	0.73	1.14	1.83	0.73	1.14
	kg/h LPG	0.55	0.84	1.37	0.55	0.84
Weight	kg	12.7	15.6	18.3	14.5	17.2
Mounting	m	2 – 2.5	2 – 3	2.5 – 3.5	2 – 2.5	2 – 3
Supply		230 V 50 Hz				
Gaz Bağlantısı	inc	1/2 "				
Nox		4				

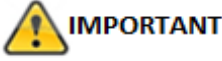


Models	HRK-7	HRK-11	HRK-18
A (mm)	716	898	1262



Models	HRG-7	HRG-12
A (mm)	657	839

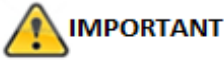




This device is used for outdoor and well-ventilated interiors. Includes installation by authorized personnel.

This device must be protected against rain. It is mounted in a protected place. This device is installed according to the rules. The gas pressure in the installed place before it is installed is for gas distribution conditions.

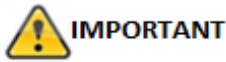
The device can be found in conditions that can operate up to a maximum speed of 15km / h. Performance and flame vitality negatively affect the effect of higher speed wind.



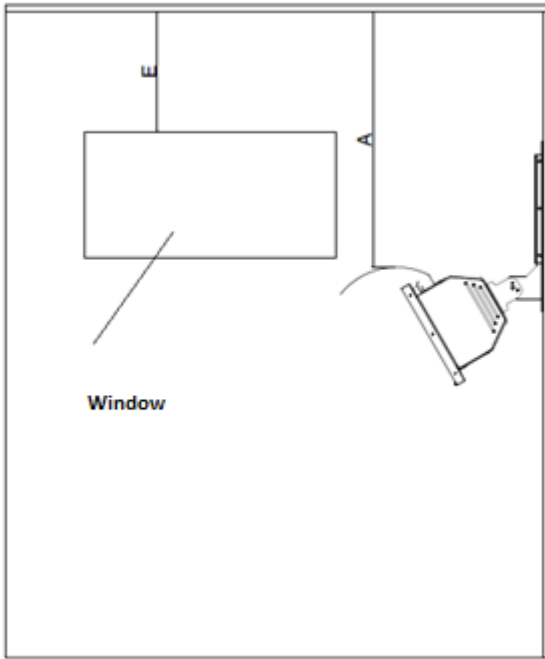
- In the case of water and moisture in the burner, it should not be burned. THE DEVICE SHOULD BE PROTECTED AGAINST RAIN.

- If some parts of the device are wet, never use them without checking the authorized person.

3. INFORMATION REQUIRED FOR INSTALLATION



- In mounting in a well-ventilated area, minimum 25% of the surfaces must be open.
- A part of the wall surfaces has been defined as the open area.



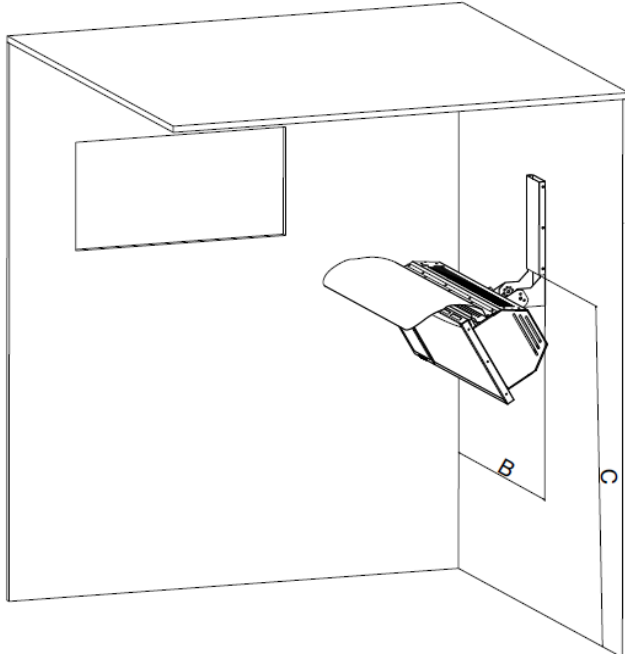
- DISTANCE A IS REQUIRED TO BE BIG FOR ANY TIME.

- The pipe and flexible hose will be replaced within the specified time.

3.1.Mounting Distances

After choosing the place where the device will be mounted, the device should be mounted in accordance with the dimensions and rules specified below.

- During ignition, it may damage the surrounding gas cylinder or gas line.
- It should not be near combustible materials.
- It should not be close to where it can get rain.
- It should not be installed indoors.
- It should not be installed in places that are not suitable for installation (see pictures below).



Distances to flammable materials			
Model	A (mm)	B (mm)	C (mm)
HRK-7	300	1100	2500
HRK-11	350	1100	2500
HRK-18	450	1200	3000
HRG-7	300	1100	2500
HRG-12	350	1100	2500

- It cannot be used indoors.
- Ventilation should comply with EN13410 standards.
- Minimum room dimensions should be according to EN 13410: 2001 standard.
- Local authorities must approve the minimum room volume.

4. INSTALLATION INSTRUCTIONS



CAUTION

The rules for the installation rules of this device manual and the signs of gas assembly standards are installed in accordance with the rules. Checks the gas pressure and distribution conditions before assembly.

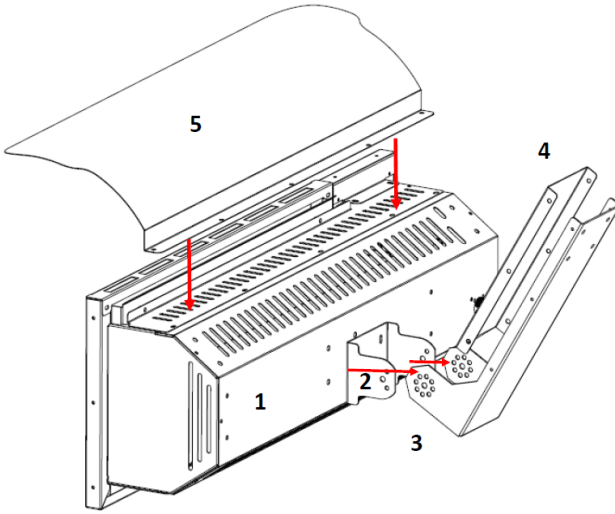
Installation should be done by authorized person.



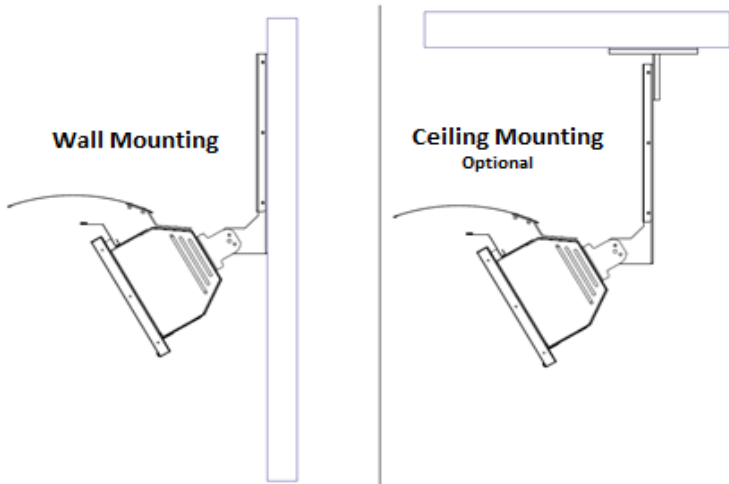
CAUTION

Please learn the weight of the device before assembly and assemble the relevant worker health & safety rules accordingly.

4.1. Device Installation Instructions



- a) Part 2 (hanger plate) is fixed to the rivets behind the number 1 (radiant heater) with 4 screws (M5x15).
- b) The number 3 (mounting fixing plate) is fixed using the fixing parts from the holes behind it (concrete, sheet profile etc.) according to the installation place to be made.
- c) Part 4 (hanger closure plate) is placed on the part 3 (assembly fixing plate) and screwed through the holes (sheet metal screw) on the side.
- d) Part 5 (heat cutter) is screwed onto the radiant heater upper surface.
- e) Finally, the part number 3 located on the back of the radiant heater is connected with the part number 3 fixed. The assembly is completed by adjusting the angle with the bottom bracket hole and



4.2. Gas Line Installation

Before assembly, check the gas distribution conditions that the gas pressure is suitable for the device. For proper operation of the devices, the gas inlet pressure should be 20mbar while the devices are in operation. If more than one device will be installed, check that the pipes are installed according to the power of the devices.



IMPORTANT

- The personnel who carry out gas installation and installation works are for authorized persons.
- Devices are manufactured to operate at G20 20 mbar gas inlet pressure. 20 mbar inlet pressure should remain constant while the devices are in the working environment.
- For leak testing of pipe joints with stray soap bubbles.
- Gas connection hoses should not be installed in places where people pass. The information on which the gas will work with should be checked on the device.

The gas valve mounted on the gas pipeline inlet should be the valve that complies with the gas rules. It should be reviewed that all connections are tight and leakage control should be done with soap bubbles. **DO NOT LEAK THE OPEN FLAME WITH OPEN FLAME.**

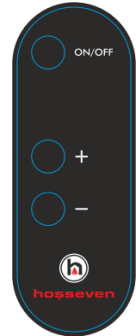
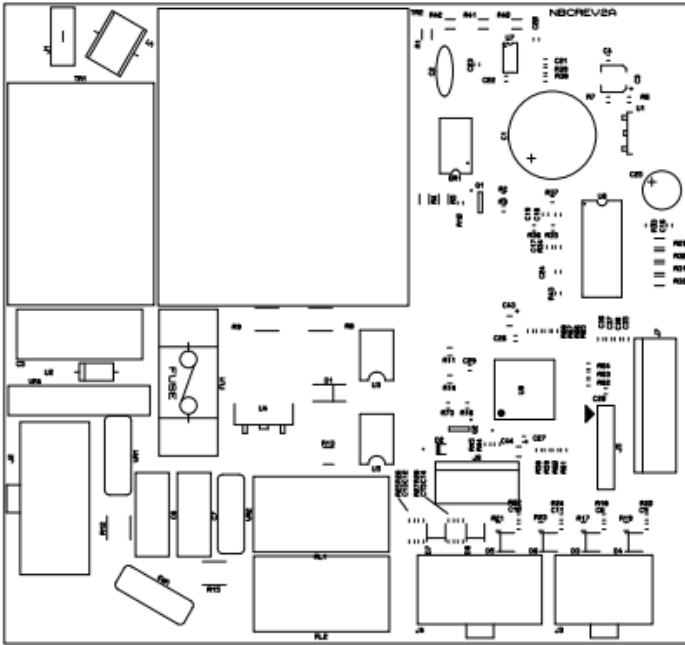


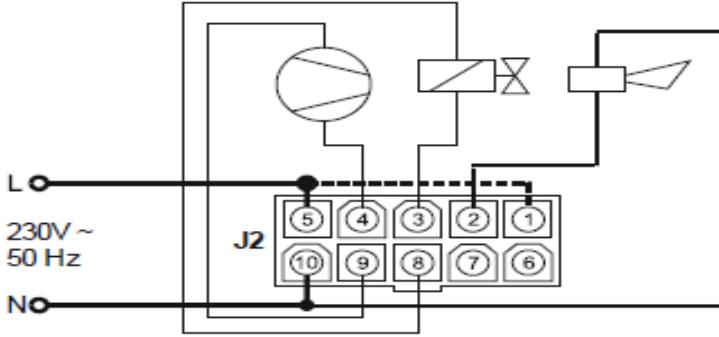
IMPORTANT

When the heater is running, check the manifold gas pressure from the test point. If the gas pressure increases according to the value set in the gas line, the gas pressure regulator should be used to keep it constant. Shut off valve should be installed so that the gas pressure does not exceed 35 mbar in the gas line.

4.3. Electrical connection system

The electrical connection must be connected to a grounded line. Connect the device to a 2 A automata. Connection V automat must be 900 mm from the left and right of the device. Electric cables should be kept away from hot surfaces and places where burnt gases are discharged.



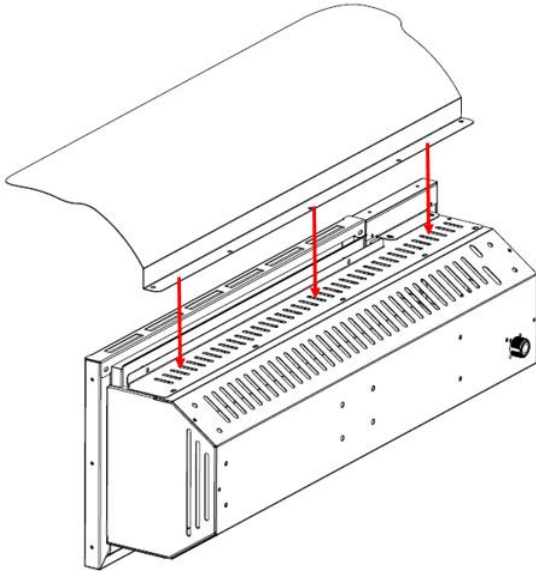


4.4. Gas Leak Control

The gas leak tests of the heater are carried out from the factory before shipment. Once the device has been installed, it must be checked again, including the complete gas connection line. Isıtıcı gaz hattı, hatta gaz verildikten sonra kontrol edilmelidir.

- Make sure that the gas valve on the heater is closed.
- Spray the foam made with a mixture of detergent and water or apply it to the joints with a brush and check the formation of the balloons. If the balloon is formed, there is a leak and close the gas inlet.
- Re-tighten the leak connection, open the gas and check for leaks again.
- Do not smoke during the test.
- Continue to check for leaks at other connections.

4.5. Heat Reflector (separator - heat cutter) Installation Instruction



Heat reflector is necessary to prevent damage to the place on the top of the device.

It is also called heat cut, separator.

Heat cut is screwed onto the radiant heater device in the direction of the arrows as shown in the picture on the right.

5. OPERATING INSTRUCTION OF THE DEVICE



CAUTION

THE HEATER SHOULD BE OPERATED AFTER THE GAS LEAK CHECK.

INSTALLATION OR NOT DIFFERENT TO THE INSTRUCTIONS MAY CAUSE INJURY AND DAMAGE THE STRUCTURE. READ THE INSTALLATION AND OPERATION INSTRUCTIONS BEFORE INSTALLING THE HEATER.

A) Check the gas inlet pressure;

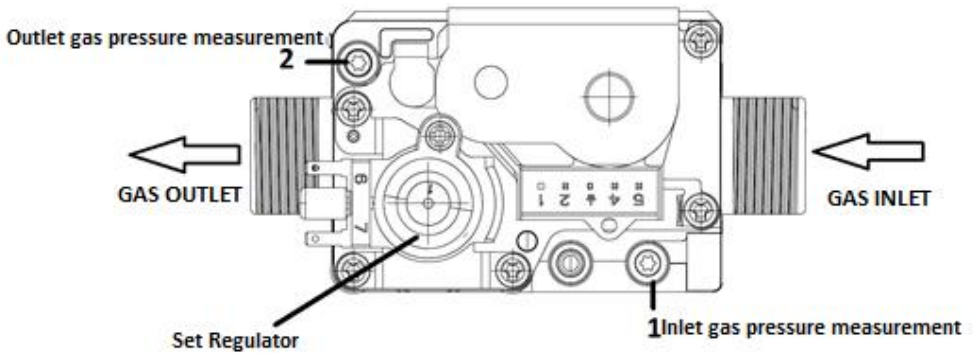
Loosen the screw at the gas inlet test point on the Siemens gas valve (1 or 2 turns). Connect the silicone flexible hose to the test point, connect the other end to the U-Manometer or digital manometer, measure the pressure, check its suitability according to the pressure previously given in the table.

B) Check burner pressure;

On the Siemens gas valve, loosen the screw on the gas outlet test point (1 or 2). Connect the silicone flexible hose to the test point, turn on the device. (at least 5 min.) Measure the pressure with a U-Manometer or digital manometer. If it is more than the pressure value given in the table, remove the regulator cover and turn the screw clockwise with a suitable screwdriver to increase the pressure and counterclockwise to decrease it. Turn off the heater hose when it provides the desired pressure.

C) Replacing the regulator cover

D) After adjusting to the appropriate pressure, replace and tighten the regulator cover.



The gas inlet and outlet direction of the Siemens gas valve are shown in the picture above. The torque (torx 15) shown in the No. 1 location in the gas inlet section is loosened and the pressure value is measured. While the device is running, the pressure measured here must be 20 mbar. Be sure to tighten the screw back after the measurement.

The torque (torx 15) screw shown in the gas outlet section number 2 is loosened and the pressure value is measured. While the device is running, the measured value must be the same as the pressure value indicated in the tables. Be sure to tighten the screw back after the measurement.

- If the gas inlet pressure is less than 20 mbar, it should be brought to 20 mbar. To increase the gas inlet pressure, regulator in the gas line should be used. Pressure increase and decrease cannot be made on the radiant device.

- If the gas outlet pressure (injector pressure) is different from the value indicated in the table, we can increase or decrease the gas outlet pressure from the regulating regulator.

5.1. Operation of the Device

1. Make sure that gas and electrical connections comply with the rules specified in the manufacturer's user manual.

2. Open the gas through the gas valve.

3. Make sure that the gas pressure is set correctly.

4. Turn on the heater electrical connection.

5. Press the on / off button on the remote control once. (you can also operate the device with the green button next to the device)

6. The device will continue to burn in Stage 1 after burning has occurred. You can get the desired level from the remote by pressing (+ and -) keys.

7. To switch off the device, you can switch the device off by pressing the on / off button.

8. If the device did not work, switch off the device.

9. Wait about 5 seconds before turning it back on. If the burner does not light after firing the intermittent spark plug 3 times, find the cause from the fault finding table given in the manual. If you can not solve, call the company service.

5.2. Device Shutdown

1. If you are temporarily closing, just turn it OFF with the REMOTE CONTROL

2. If you are closing permanently, turn off the electricity and gas valve.



IMPORTANT

Check the heater immediately when the following conditions are met.

- If the temperature does not increase in the heater.
- The burner burns with an explosion sound (Except for slight explosion during spark plug ignition)

NOTE: Smoke may be observed during the first use of the heater. During production, smoke and odor may occur due to the burning of the oil on the parts. This disappears when the heater starts for about 30 minutes.

For the person who assembles;

After the heater has been installed and tested, make sure that the customer / user has learned to operate and give the operating instructions to the operating instructions.

6. MAINTENANCE and SERVICE

Regular maintenance is important for efficient operation of the heater. Maintenance should be done by authorized persons ONLY.

The passage sections of the control box, burner and circulating air should be kept clean.

It should be reviewed at least every 6 months and should be done more often in bad conditions. No obstructions should be placed at the exit of the burnt gases or the air inlet. The area where the heater is located should be kept away from flammable materials, gasoline or combustible materials. Do not clean the heater with a cleaner or corrosive substances. No special tools are required for service.

6.1. Regular Maintenance

1) Gas connection hose should be checked at least once a year. If the hose has signs of aging and tear damage, it should be replaced.

2) Visual inspection of the burner flame; Check that the burner flame is bright and incandescent while the heater is operating. Having this flame makes it easier for combustion products to pass through the combustion chamber.

NOTE: Slight difference in color is not important.

3) Cleaning the burner; Clean the burner with compressed air (Max 1400 mbar). Do not direct the air to the sealing material between the ceramic and the combustion chamber.

4) Cleaning the manifold and injector; Disconnect the gas connection hose from the gas valve (Heater must be closed) and supply air to the manifolds and injectors from the hose with compressed air (max 1400 mbar).

5) Cleaning of dust and foreign matter in the heater; Open the back cover, clean with compressed air, wipe the moisture with a cloth.

6) Clean the heater's control box, burner, the passages of the circulating air with a strong cleaner or compressed air. Protect the heater against these contaminants.

7) Under salty weather conditions, it is considered normal to have corrosion near the sea places. Check this formation and have it repaired immediately.

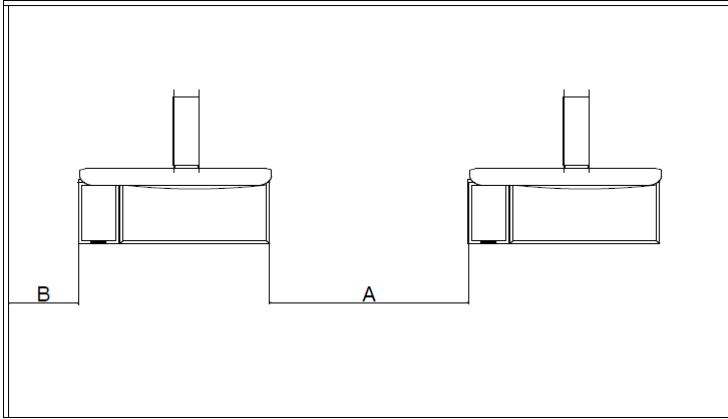


IMPORTANT

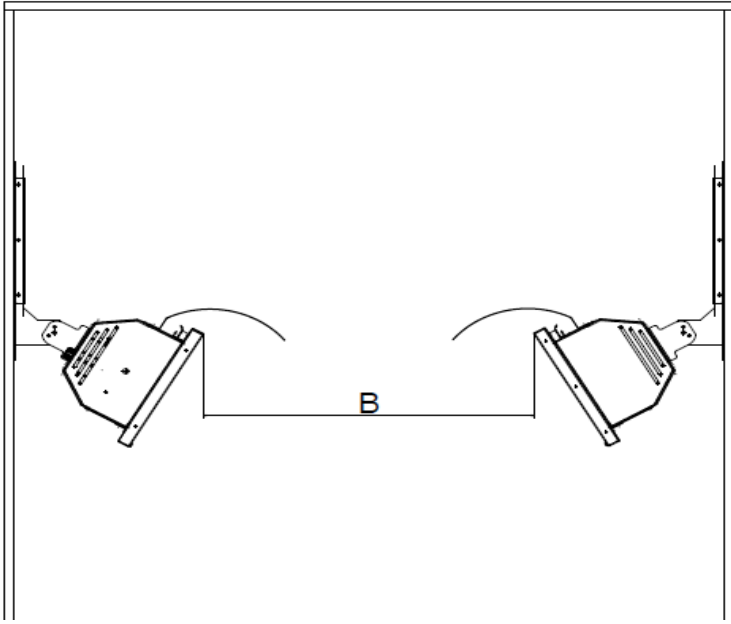
It is important to clean and keep the control box, burner and air passages more frequent.

Originals of spare parts can be obtained from Hoşseven A.Ş.

7. OPTIMUM INSTALLATION DISTANCES



Models	A (mm)	B (mm)
HRK-7	1100	1500 – 3500
HRK-11	1800	1500 – 3500
HRK-18	2500	3000 – 3500
HRG – 7	1100	1500 – 3500
HRG - 12	1100	1500 – 3500



Model	B (mm)
HRK-7	5000 – 5500
HRK-11	5000 – 6000
HRK-18	8000 – 8500
HRG – 7	5000 – 5500
HRG - 12	5000 – 6000

8. SIEMENS VALVE AND CONTROL CARD

The operating procedures described below are valid according to the installation rules set by the manufacturer and only when the component is used in accordance with the specifications of the components used.

Please do not make different arrangements on the electrical scheme, gas connections or other parts of the heater.

As Siemens gas valve unit is suitable for non-volatile gases, our heater also has the necessary limits for volatile gases. It is possible to start again if the combustion is interrupted and reburned.

FEATURES:

- Automatic gas burners comply with CSA standards of flame control and control systems standard.
- European standard automatic gas burners comply with EN 298 standard for flame control and control systems.
- It can be used in structures thanks to its flame ionization system.

9. TROUBLESHOOTING

Problems	Possible Causes	Answers
The heater is not working	<ol style="list-style-type: none"> 1. Electric not connected 2. Gas not open 3. Control module in locked mode 	<ol style="list-style-type: none"> 1. The electrical connection should be checked by the authorized person. 2. Gas line should be checked 3. Turn off the electrical connection to open it.
The heater is running but the flame is extinguished	<ol style="list-style-type: none"> 1. It does not detect the flame on the ionization bar. 2. Windy weather 3. Grounding between heater and control box is not good 4. Arc may not be formed at the spark plug end. 5. Spark plug can stay away from the stones. 	<ol style="list-style-type: none"> 1. <ul style="list-style-type: none"> * Check and adjust the gas pressure * Burner venturi, check injectors, determine if it is clogged 2. High speed wind prevents burning 3. Remove the wiring harness, clean it, provide ground 4. Check that the spark plug may arc into the body. 5. Make the spark plug closer to the stones.
No Gas	<ol style="list-style-type: none"> 1. There is air in the gas line 2. The valve is closed in the pipeline 3. Regulator breaks out 4. The regulator works reverse 	<ol style="list-style-type: none"> 1. Bleed the gas line 2. Open the valve 3. Replace the regulator. 4. Remove mount in convenient location
Ceramic burner surface temperature low	<ol style="list-style-type: none"> 1. Burner pressure low, gas inlet pressure low 2. Injector blocked 3. Burnt gases do not breathe properly 4. Injector holder from axis 	<ol style="list-style-type: none"> 1. Adjust the pressure according to the value shown in the table 2. Clean the injector 3. Provide proper ventilation

Ceramic burner surface temperature low	5. The gas pipe cross section is small	4. Make the centering.
Gas smell	1.The pipe connection is loose 2. Faulty regulator. 3.Gas valve faulty 4.Flexible hose loose	1.Check connections with soap bubbles 2.Change the regulator 3.Replace gas control valve 4. Tighten the flexible hose.
It burns out of the air / gas mixture inside the burner (high flame)	1, There is gap in ceramic assembly 2.Ceramic cracked 3.The heater is not mounted at the right angle 4.There is excessive air flow from the bottom of the device	1. Check the ceramic installation. 2. Change the ceramic. 3. Change the heater mounting angle. 4. Block the air flow at the bottom of the device.
Control board overheats	1.The heater is not installed correctly. The heater may be mounted close to the top surface. 2. Inlet and injector pressures may be high.	1. Check the installation. 2. Check the pressures according to the table.
Carbon forms on the ceramic on the surface of the burner (black)	1.The injector is not on the axis 2.The injector has blockage 3.Low gas pressure 4. Unsuitable gas connected to the heater	1. Get support from factory or service 2.Clean with brush 3. Set to desired pressure 4.Check the type of gas used with the label

WARRANTY CERTIFICATE

Manufacturer or Importer Company:

Title: HOŞSEVEN AŞ
Address: ANKARA YOLU 18.KM BURSA
Phone: 0224 384 11 10
Fax: 0224 384 11 14
e-mail: hosseven@hosseven.com.tr
Authorized Signature:
Firm's Stamp:

Seller Company:

Title:
Address:
Phone:
Fax:
email:
Invoice Date and Number:
Delivery Date and Location:
Authorized Signature:
Firm's Stamp:

PRODUCT

Type: INFA-RED
Marks: HOSSEVEN
Model:

Warranty Period: 2 Years
Maximum Repair Time: 20 Days
Bandrol ve Seri No:

WARRANTY CONDITIONS

- 1) The warranty period starts from the date of delivery of the goods and is 2 years.
- 2) All of the goods, including all parts, are under warranty.
- 3) In case the product fails within the scope of the warranty, if the consumer complies with the conditions specified in the user manual, the device will be repaired free of charge by the Hosseven Authorized Services and the customer will be charged under any name.
- 5) If the consumer uses his right to free repair;
 - Malfunction again within the warranty period,
 - exceeding the maximum time required for repair,
 - In cases where its repair is not possible, it is determined by the authorized service station, seller, manufacturer or importer with a report;

The consumer may request the refund of the good, the discount of the defect in the rate of replacement or, if possible, the replacement of the good with the same shame. Hosseven evaluates this request. If appropriate, it meets the demand of the consumer. If this request is not fulfilled, Hoşseven Aş. It is responsible.
- 6) The repair time of the product is 20 working days. This period starts on the date of notification of the malfunction related to the goods to the authorized service station or the seller, and from the delivery date of the goods to the authorized service station outside the warranty period. If the malfunction cannot be remedied within 10 business days, HOŞSEVEN AŞ.; Until the repair of the goods is completed, it has to allocate another product with similar features to the goods of the consumer. In case the product fails within the warranty period, the time spent in repair is added to the warranty period.
- 7) Malfunctions resulting from the use of the goods contrary to the issues in the manual are out of warranty.
- 8) The consumer may apply to the Consumer Arbitration Committee or the Consumer Court in the place where the settlement is located or where the consumer transaction is made in case of disputes that may arise regarding the use of rights arising from the warranty.
- 9) If this Warranty Certificate is not given by the seller, the consumer may apply to the General Directorate of Consumer Market Surveillance from the Ministry of Customs and Trade.