GOLDSUN

ELITE - PERFORMA - CC
3 STAGE CERAMIC PLAQUE RADIANT HEATER

ELT.5/6/7
ELT.7/9/11

PRF.5/6/7
PRF.7/9/11

CC.5/6/7
CC.7/9/11

USER MANUAL

CE
0063

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INTRODUCTION

Heating principle of radiant (infrared) systems is similar to the heating of the earth by the sun. In other words, the principle in heating by radiation is heating of surfaces directly by rays passing through the air and releasing their energy on the surfaces they hit. Cold air circulating in the environment indirectly warms up by contacting warm people and objects. In open areas, on the other hand, people under the appliance feel the heat through radiation. Consequently, Goldsun ceramic plaque radiant heating systems offer considerably economic and efficient heating in hard to heat large and high ceiling spaces, particularly in outdoor environments. Also, gas fired operation makes the system significantly economic.

With Goldsun Ceramic Plaque Radiant Heaters, providing economic end efficient heating in cafes, restaurants, patios, gardens, pergolas, shopping malls, etc. is possible.

Goldsun Ceramic Plaque Radiant Heaters are two staged appliances by which untroubled, comfortable low, mid and high heating, depending on ambient temperature, is possible.

PLEASE READ CAREFULLY THE WARNINGS AND INFORMATION INCLUDED IN THIS MANUAL!

⚠ **DANGER: IF YOU SMELL GAS**

1. TURN OFF THE GAS.
2. EXTINGUISH ANY OPEN FLAME.
3. CALL YOUR AUTHORIZED SERVICE.

⚠ **VENTILATION:** CERAMIC PLAQUE RADIANT APPLIANCES ARE SUITABLE FOR OUTDOOR OR INDOOR USE THAT SUFFICIENT VENTILATION IS PROVIDED. IN COMPLIANCE WITH EN 13410, TS 13410 STANDARDS, SUFFICIENT VENTILATION IS REQUIRED. IN INDOOR APPLICATIONS, FOR EACH 1 KW HEATER INPUT POWER AT LEAST 10 M^3/H VENTILATION IS REQUIRED. (See Page 12)

⚠ **WARNING:** FOR USE IN OUTDOORS AND HIGH CEILING SPACES. NOT SUITABLE FOR INDOOR USE AT HOME OI OFFICES.

⚠ **WARNING:** PLEASE READ CAREFULLY THIS MANUAL THOROUGHLY PRIOR TO SERVICING AND INSTALLATION OF THE PRODUCT. KEEP THIS MANUAL IN A SAFE PLACE FOR FURTHER REFERENCE.

⚠ INSTALLATION AND REPAIRS SHOULD ONLY BE CARRIED OUT BY AUTHORIZED SERVICE PERSONNEL, THE HEATER SHOULD BE INSPECTED BEFORE USE AND CHECKED BY AUTHORIZED SERVICE AT LEAST ONCE A YEAR.

⚠ IMPROPER INSTALLATION, OPERATION or MAINTENANCE CAN RESULT IN SERIOUS INJURY, DEATH or PROPERTY DAMAGE.

⚠ INSTALLATION / MAINTENANCE OF GOLDSUN CERAMIC PLAQUE RADIANT HEATERS SHOULD BE DONE BY AUTHORIZED SERVICE PERSONNEL. OTHERWISE, OUR COMPANY SHALL NOT BE HELD RESPONSIBLE FOR ANY INJURIES, DEATH, FIRE, INTOXICATION OR PROPERTY DAMAGE THAT MAY ARISE.

- THIS EQUIPMENT SHOULD BE INSTALLED IN ACCORDANCE WITH APPLICABLE LAWS AND LOCAL LEGISLATION. BEFORE INSTALLATION, CHECK IF LOCAL GAS DISTRIBUTION CONDITIONS, PROPERTIES AND PRESSURE OF THE GAS, AS WELL AS APPLIANCE SETTINGS ARE APPROPRIATE.

- NATURAL GAS INSTALLATION SHOULD BE CARRIED OUT IN ACCORDANCE WITH THE LAWS AND REGULATIONS OF THE COUNTRY WHERE THE EQUIPMENT WILL BE INSTALLED. OUR COMPANY CANNOT BE HELD RESPONSIBLE FOR ANY LEGAL CASES DUE TO ILLEGAL NATURAL GAS USE.

- WIRING OF THE HEATER SHOULD BE DONE WITH GROUNDING IN COMPLIANCE WITH RELATED REGULATIONS.

- IN CASE OF OUTDOOR INSTALLATION, THE APPLIANCE SHOULD BE PROTECTED FROM RAIN.

- DO NOT INSTALL GOLDSUN PRODUCTS BELOW THE DISTANCES ALLOWED FOR COMBUSTIBLE AND INFLAMMABLE OBJECTS.

- DO NOT STORE PETROLEUM AND DERIVATIVES OR FLAMMABLE VAPORS OR FLUIDS AROUND OR NEARBY GOLDSUN PRODUCTS.

- KIDS AND ADULTS SHOULD BE WARNED AGAINST HIGH SURFACE TEMPERATURES AND SHOULD BE KEPT AWAY FROM THE APPLIANCE TO AVOID BURNS.

- GARMENTS OR SIMILAR ITEMS SHOULD BE KEPT AWAY FROM THE APPLIANCE TO AVOID THEIR BURNING AND SUCH GOODS SHOULD NEVER BE HANGED ON THE HEATER.

- DO NOT SPRAY FLAMMABLE OR COMBUSTIBLE MATERIALS ON THE APPLIANCE WHEN IT IS OPERATING.

- DO NOT PERFORM ANY MAINTENANCE WORK WITHOUT TURNING THE APPLIANCE OFF, DISCONNECTING POWER AND LETTING THE HEATER TO COOL DOWN.

- IN CASE THE APPLIANCE IS SOLD OR TRANSFERRED TO ANOTHER USER, ENSURE THAT THIS MANUAL IS HANDED OVER TO THE NEW USER.

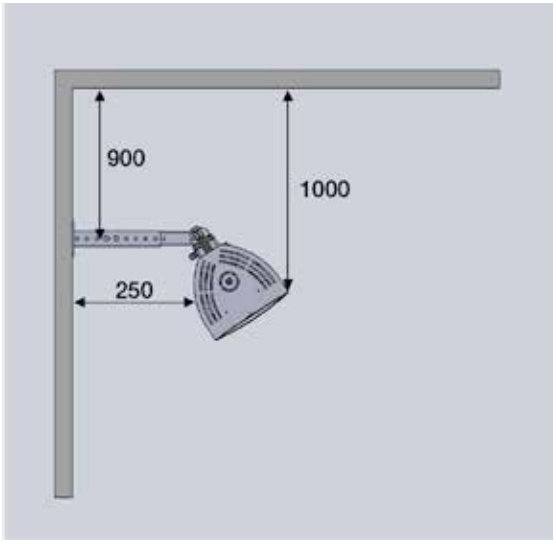
- FAILING TO FOLLOW THE WARNINGS AND INSTRUCTIONS IN THIS MANUAL CAN RESULT IN INJURIES, DEATH AND PROPERTY DAMAGE. IN SUCH CASE OUR COMPANY SHALL NOT ASSUME ANY RESPONSIBILITY.

SECTION 1: TECHNICAL SPECIFICATIONS

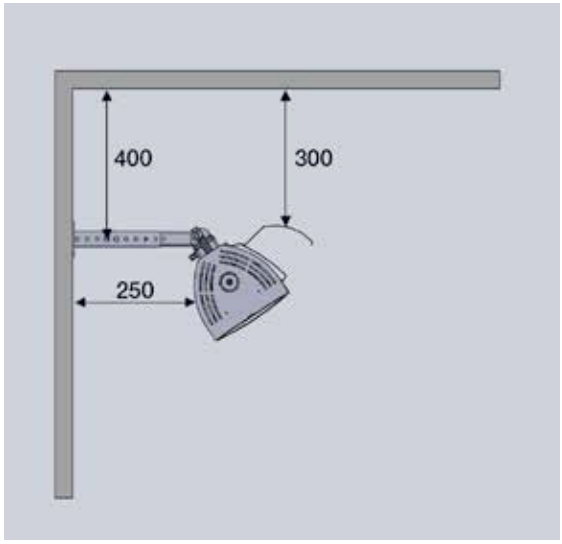
Model		ELT.5/6/7		ELT.7/9/11		PRF.5/6/7		PRF.7/9/11		CC.5/6/7		CC.7/9/11	
Power (kW)	1. STAGE	5		7		5		7		5		7	
	2. STAGE	6		9		6		9		6		9	
	3. STAGE	7		11		7		11		7		11	
Weight (kg)		14		17		13		16		12		15	
Overall Length (cm)		71		97		71		97		71		97	
Min. Mounting Height (cm)		200		220		200		220		220		220	
Gas Fuel		Natural gas G20											
Natural Gas Consumption (Nm^3/h)	1. STAGE	0.52		0.73		0.52		0.73		0.52		0.73	
	2. STAGE	0.63		0.94		0.63		0.94		0.63		0.94	
	3. STAGE	0.73		1.15		0.73		1.15		0.73		1.15	
Inlet Pressure (mbar)		Minimum 20 Maximum 55											
Manifold Pressure (mbar)	1. STAGE	10		9		10		9		10		9	
	2. STAGE	14		14		14		14		14		14	
	3. STAGE	18		17		18		17		18		17	
Gas Nozzle Diameter (mm)		2		2.59		2		2.59		2		2.59	
Gas Connection		1/2” gear											
Electrical Connection		230 V, Single phase, 1 ampere											
Ignition		Fully Automatic, with Flame Sensor											
Minimum Distances from Flammable Materials (cm)	From the bottom	150		180		150		180		150		180	
	From the side	70		80		70		80		70		80	
	From the back	25		25		25		25		25		25	
	From the top	With Heat Shield	Without Heat Shield	With Heat Shield	Without Heat Shield	With Heat Shield	Without Heat Shield	With Heat Shield	Without Heat Shield	With Heat Shield	Without Heat Shield	With Heat Shield	Without Heat Shield
		30	75	30	100	30	75	30	100	30	75	30	100

SECTION 2: SAFETY DISTANCES

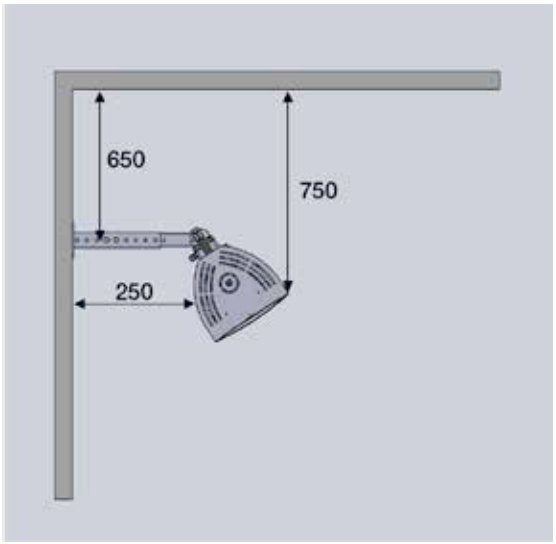
When installing, attention should be paid to the below dimensions, distance of the heater to the ceiling and flammable materials. Gas accumulation at the ceiling should be avoided.



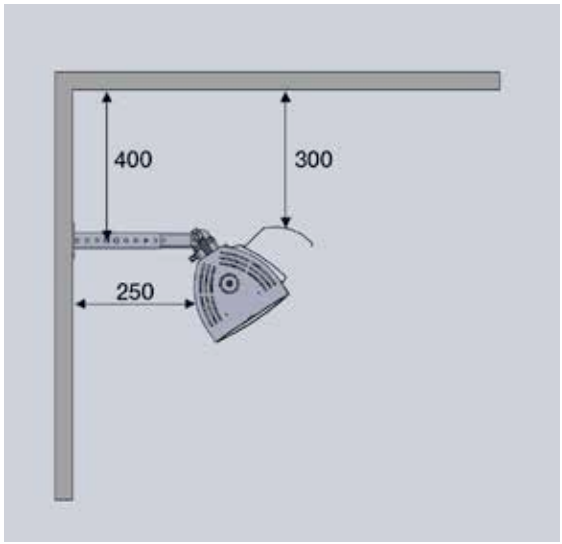
7/9/11 Safety Distance without Heat Shield



7/9/11 Safety Distance with Heat Shield



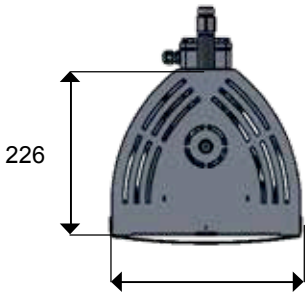
5/6/7 Safety Distance without Heat Shield

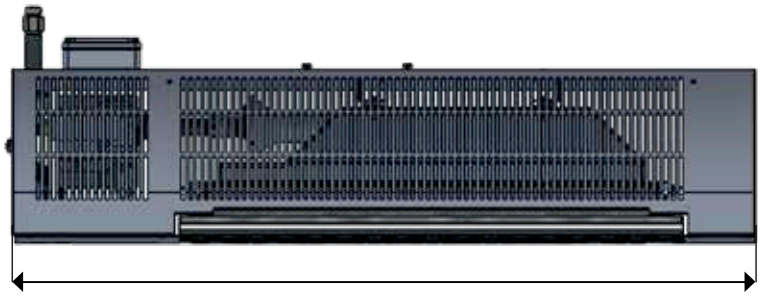


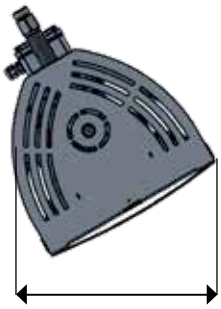
5/6/7 Safety Distance with Heat Shield

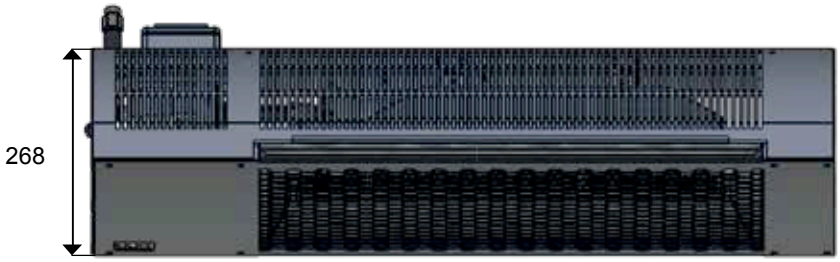
FIGURE 1: SAFETY DISTANCES

SECTION 3: GOLDSUN ELT - PRF - CC DIMENSIONS

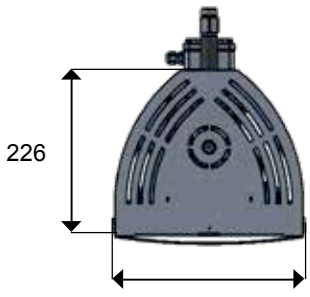


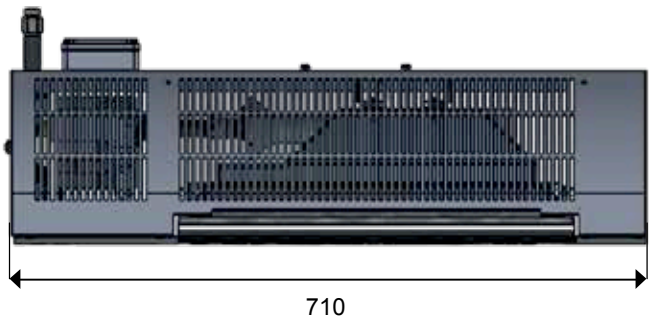






7/9/11 DIMENSIONS





5/6/7 DIMENSIONS

SECTION 4: MOUNTING

Installation of the heater should be carried out by authorized service personnel. Before installation, pay attention to the following.

⚠ When installing the exhaust outlet of the heater, be careful not to damage power and gas lines.

⚠ Observe the distance to flammable materials.

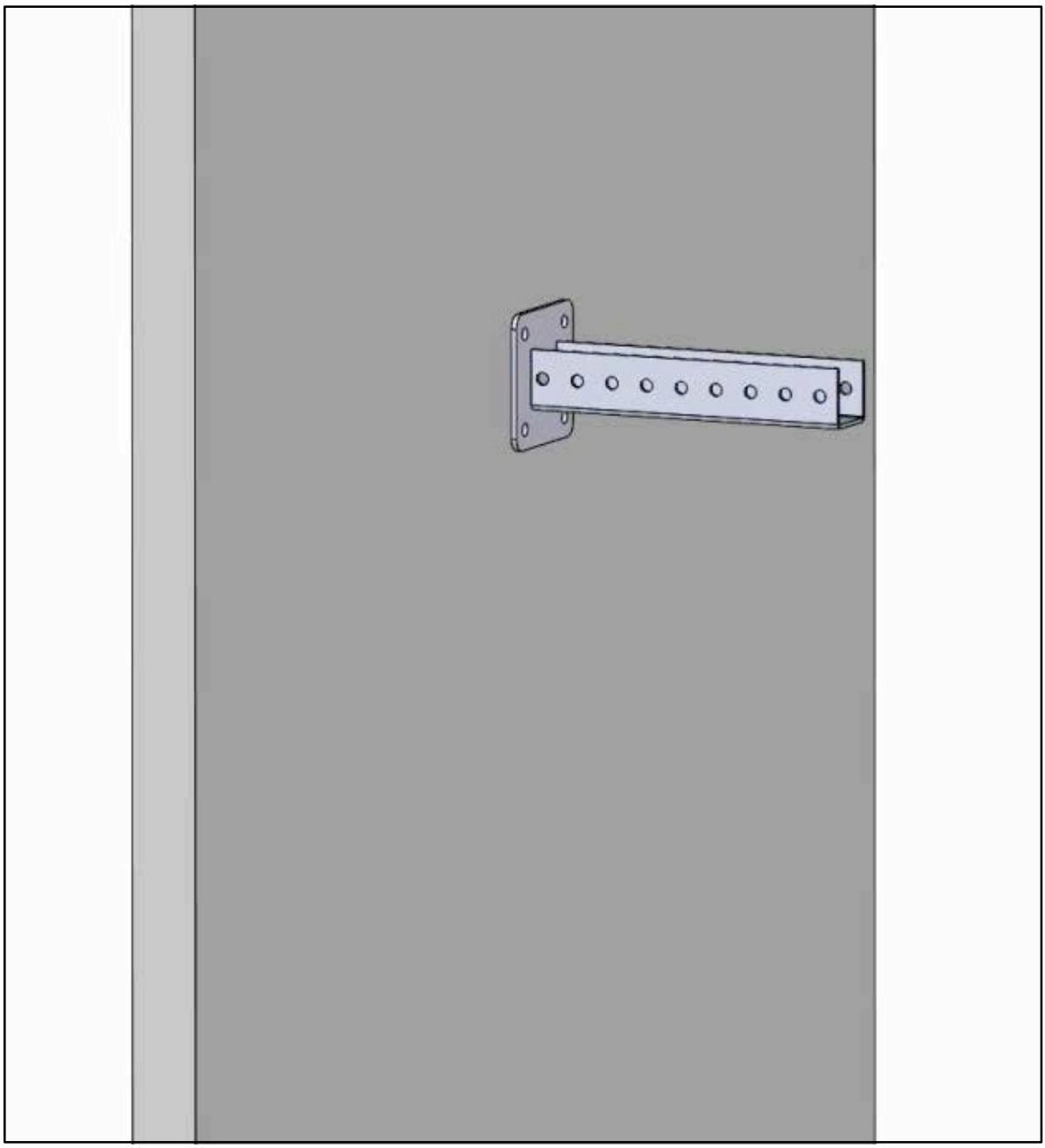
⚠ Pay attention to ventilation conditions.

⚠ Pay attention to ceiling structure. Care should be taken for reverse tray structures; accumulation of exhaust gas must be avoided.

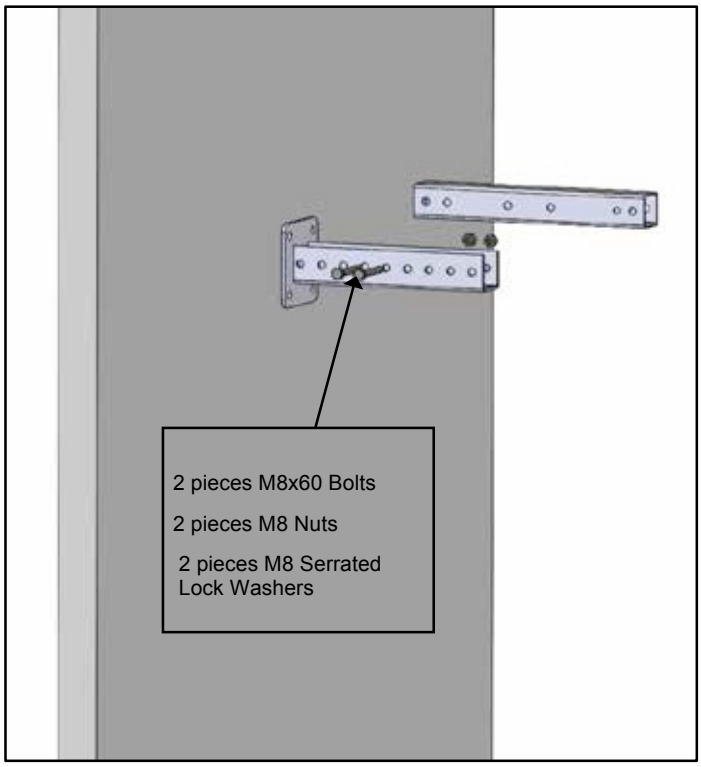
⚠ Be careful not to expose the heater to rain.

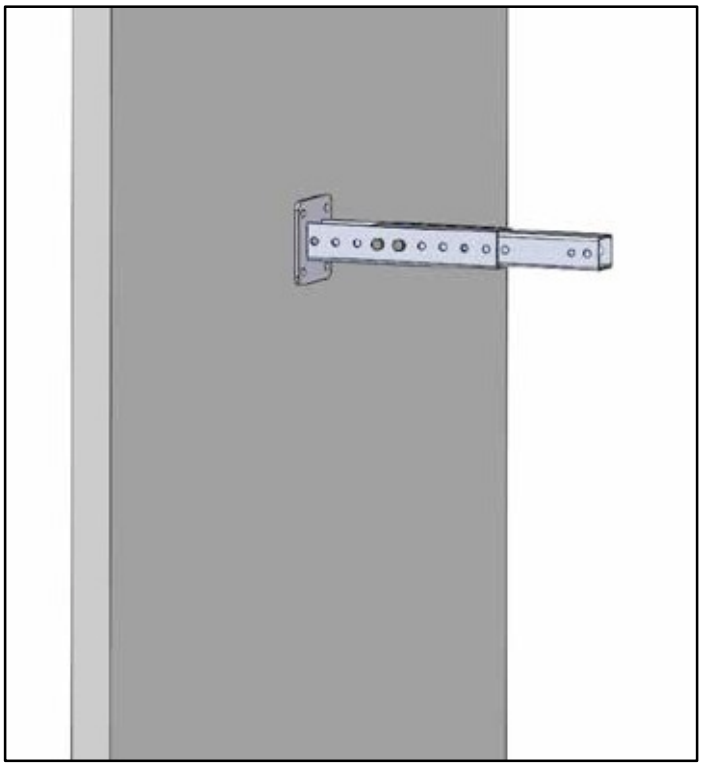
SECTION 4.1: WALL MOUNTING

1.STEP: Fix the mounting console supplied with the heater to the part of the wall that can bear the weight of the heater with suitable screws. For the distance of the heater to the ceiling, observe the dimensions with heat shield and without heat shield. (See Page: 4 Safety Distances)

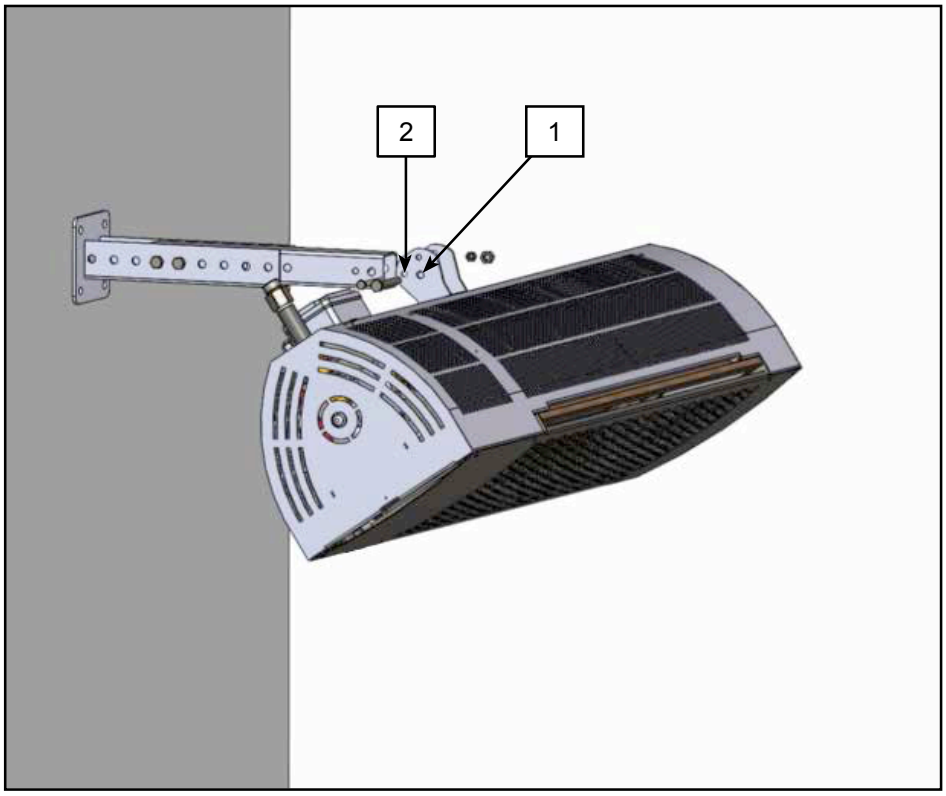


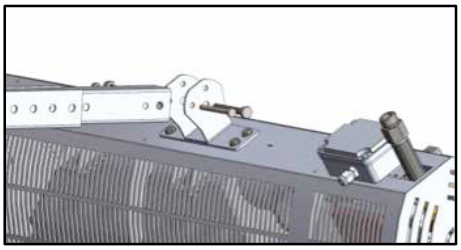
2.STEP: Install the supplied 40x40 box profile to the mounting console with M8x60 bolts as shown in the figure. Leave minimum 250 mm gap at the back of the heater to enable easy connection of the gas flex hose, and for providing service.

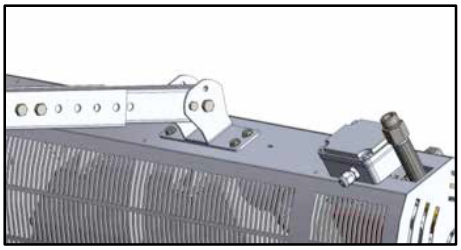


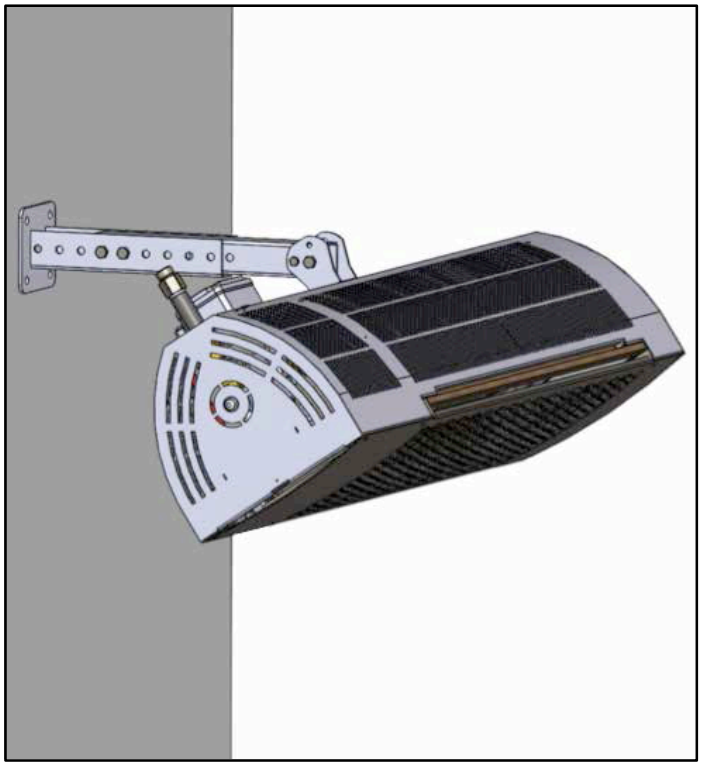


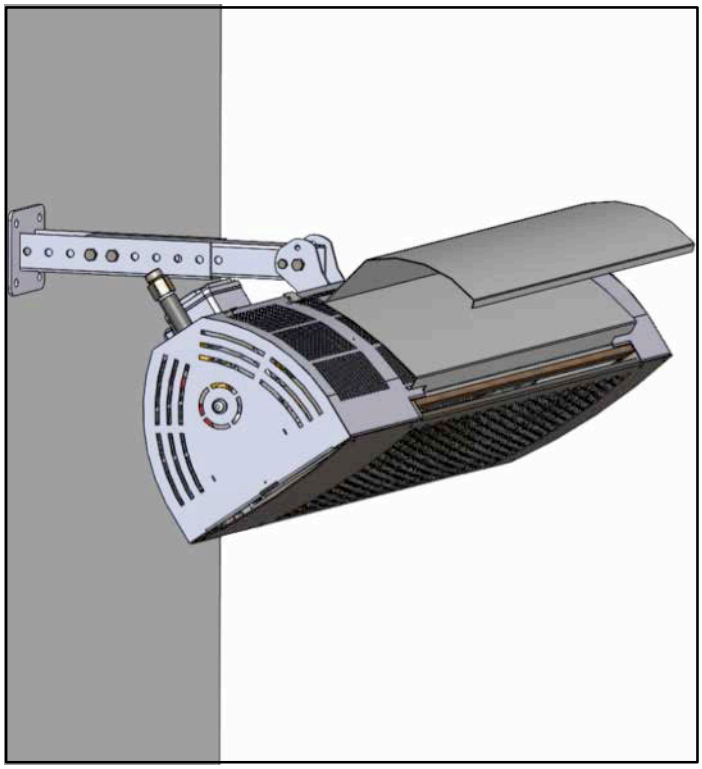
3.STEP: Place the mounting bracket located on the heater such that the profile of the mounting console is enclosed in it. Insert M8x60 bolt supplied in the bolt sack coming with the heater through hole 1 and M6x60 bolt through hole number 2 and tighten with suitable nuts.



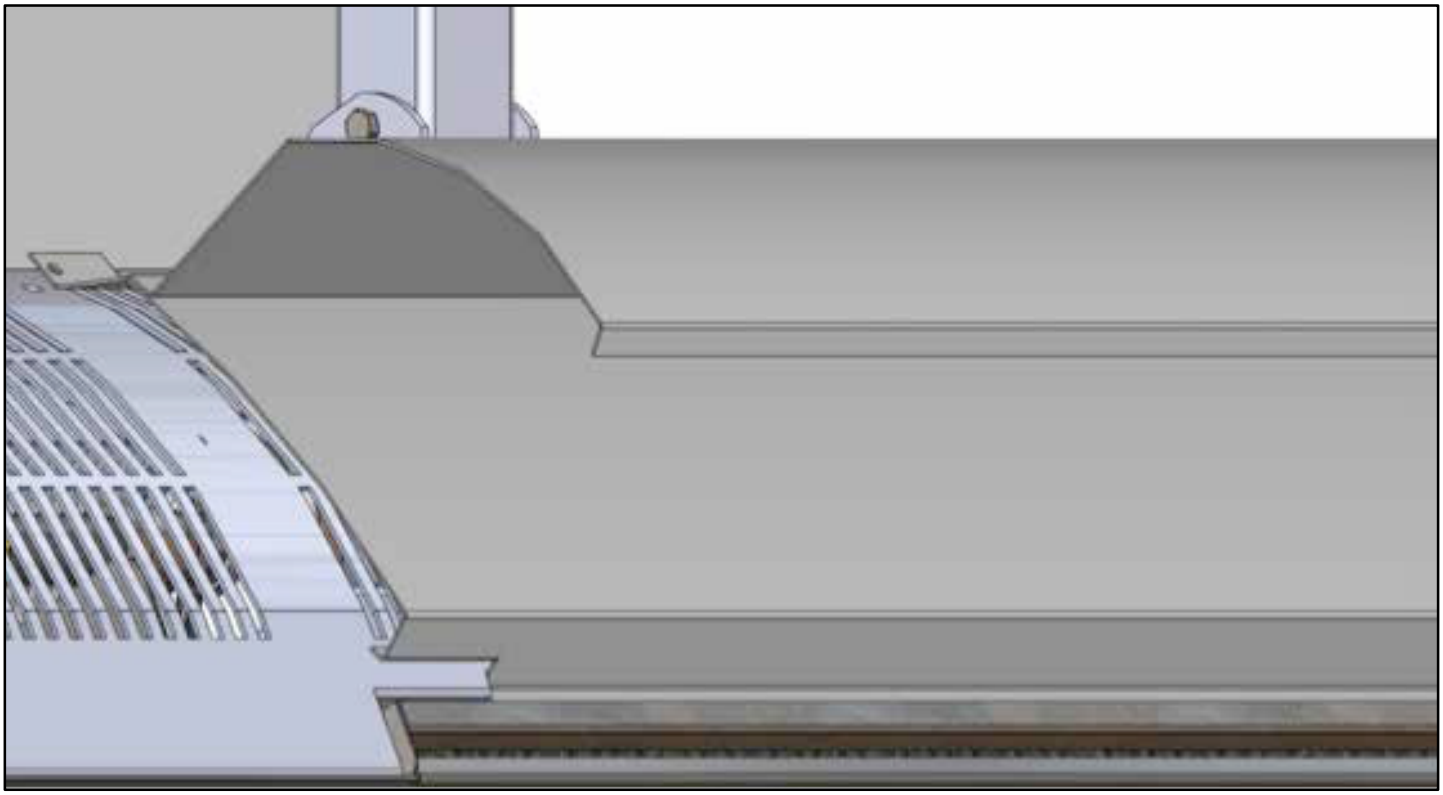






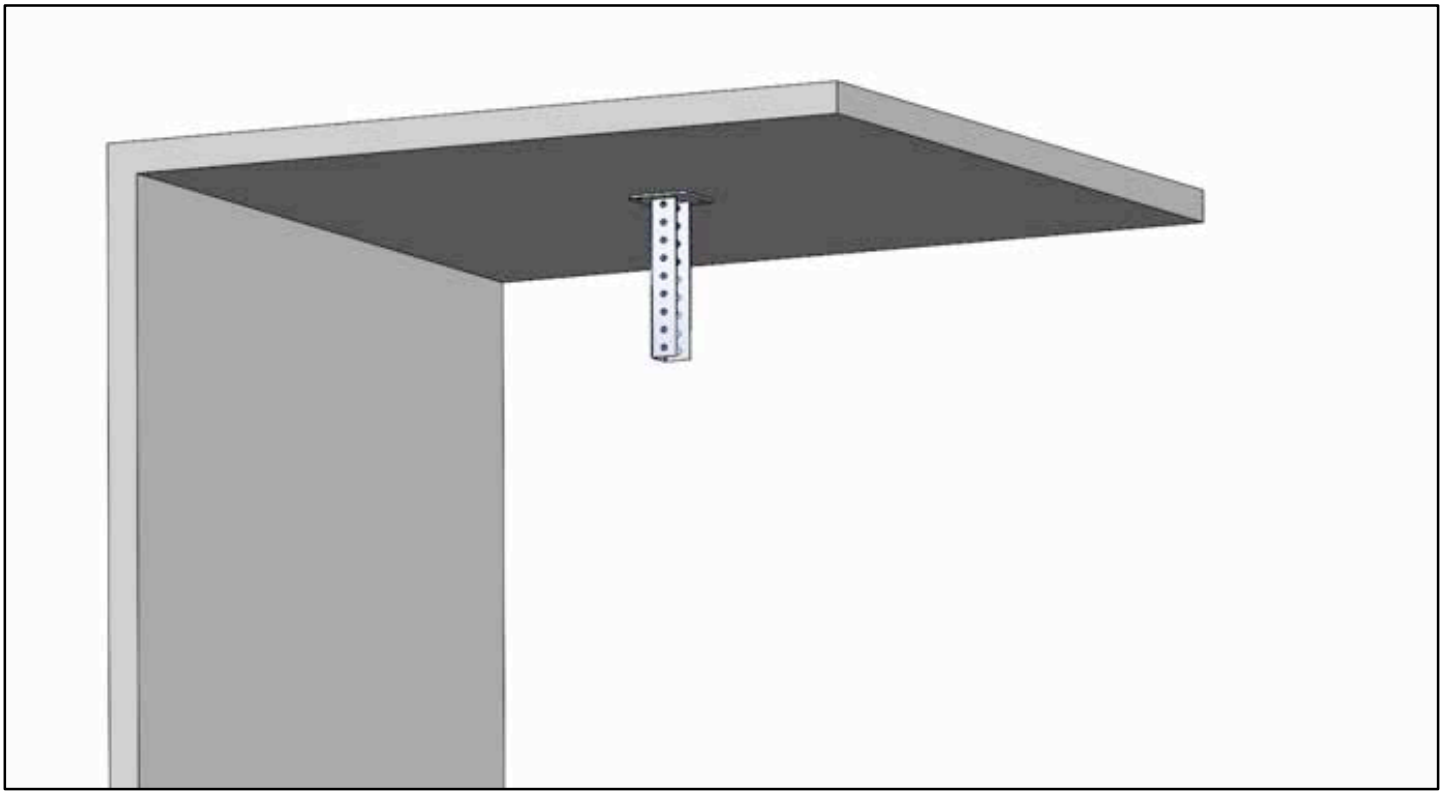


4.STEP: To install the heat shield of the heater, place the end part of the shield in the gap between the reflector and casing of the heater. Fix the heat shield to rivet nuts on the casing of the heater with M4x8 bolts through the holes at the back of the shield.

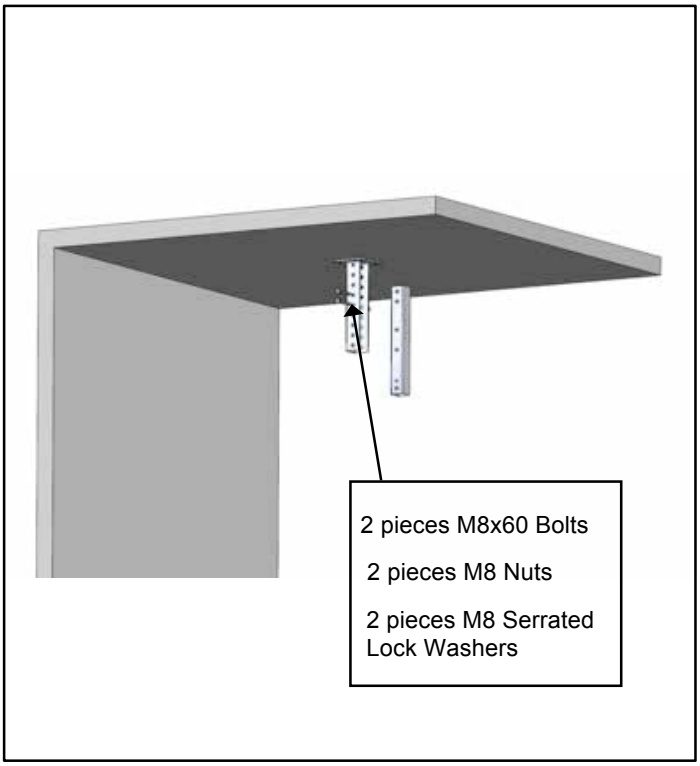


CEILING MOUNTING

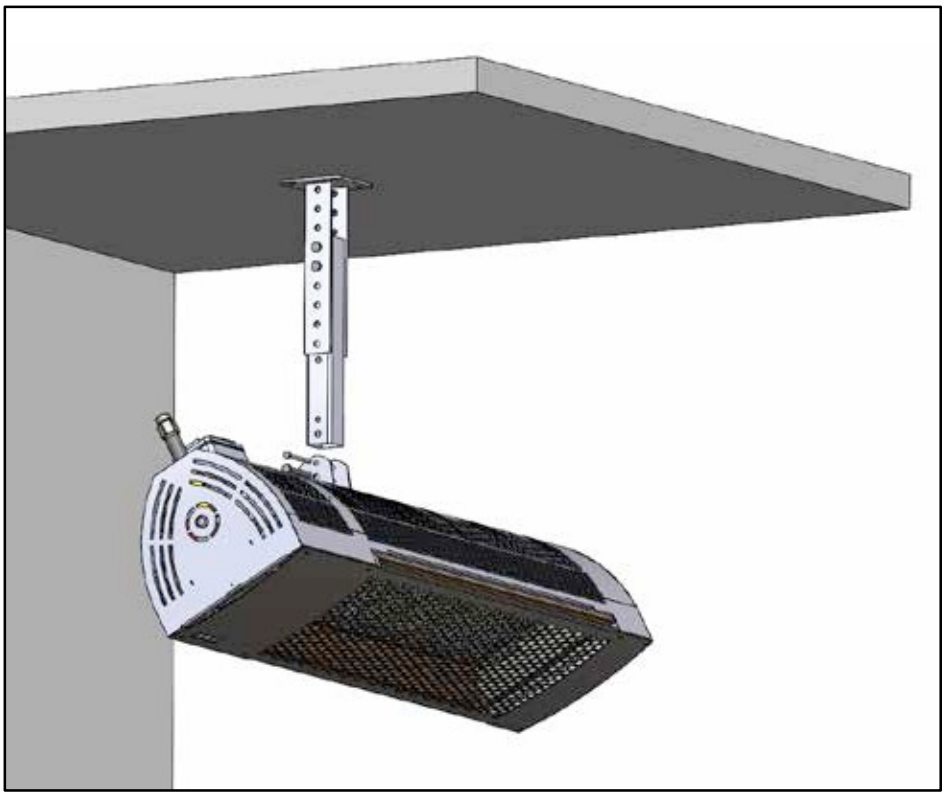
1.STEP: Fix the mounting console supplied with the heater to the part of the ceiling that can bear the weight of the heater with suitable screws. For the distance of the heater to the ceiling, observe the dimensions with heat shield and without heat shield. (See Page: 4 Safety Distances)

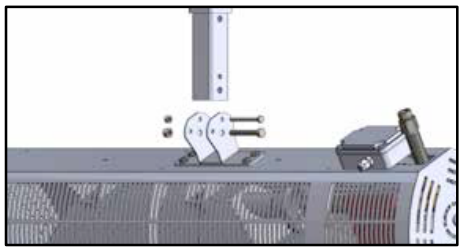


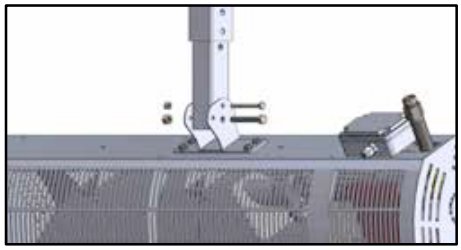
2.STEP: Install the supplied 40x40 box profile to the mounting console with M8x60 bolts as shown in the figure. Leave minimum 250 mm gap at the back of the heater to enable easy connection of the gas flex hose, and for providing service.

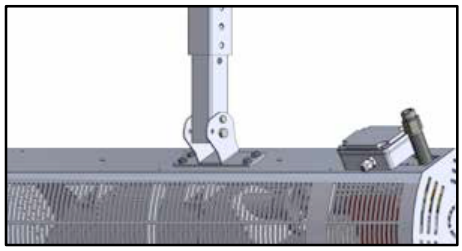


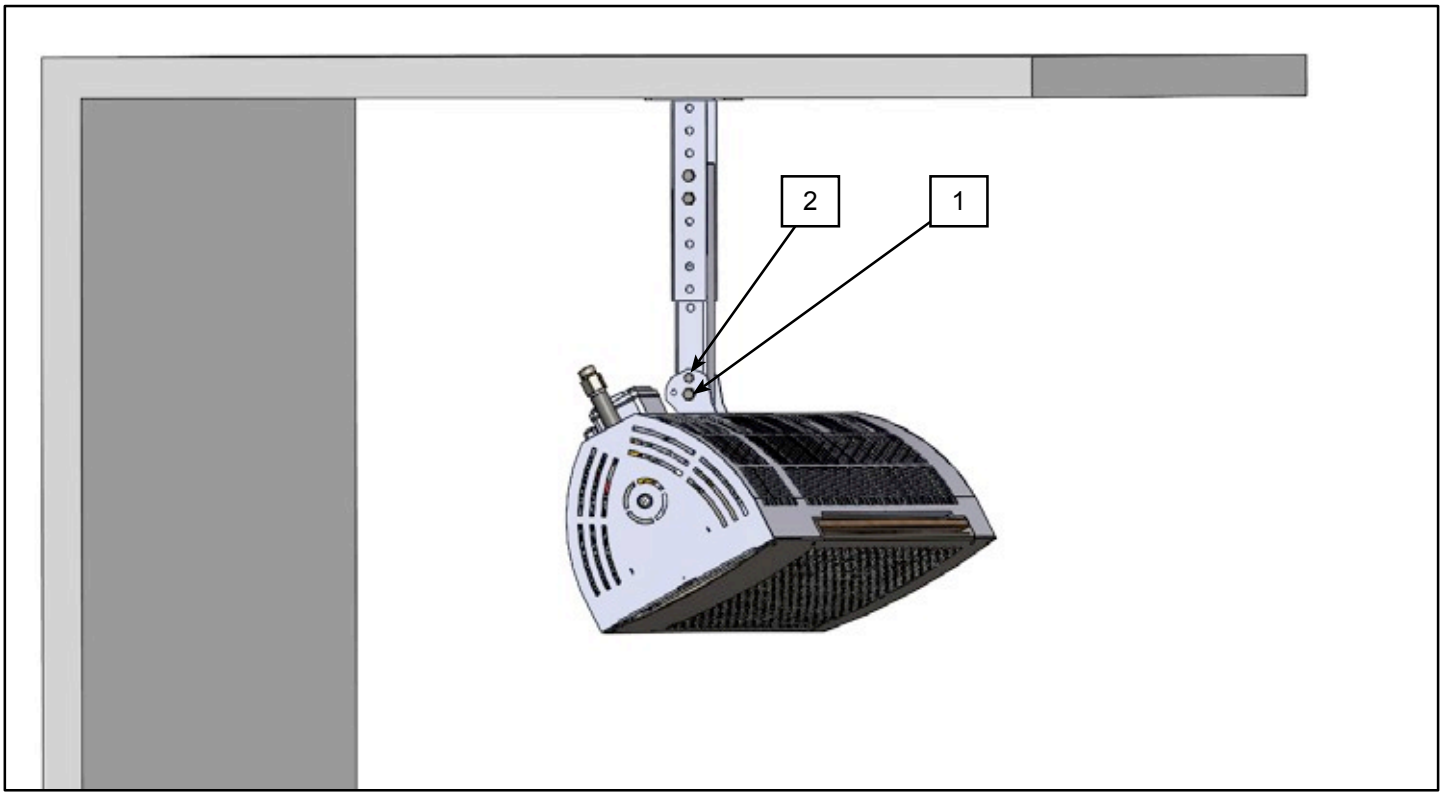
3.STEP: Place the mounting bracket located on the heater such that the profile of the mounting console is enclosed in it. Insert M8x60 bolt supplied in the bolt sack coming with the heater through hole number 1 and M6x60 bolt through hole number 2 and tighten with suitable nuts.



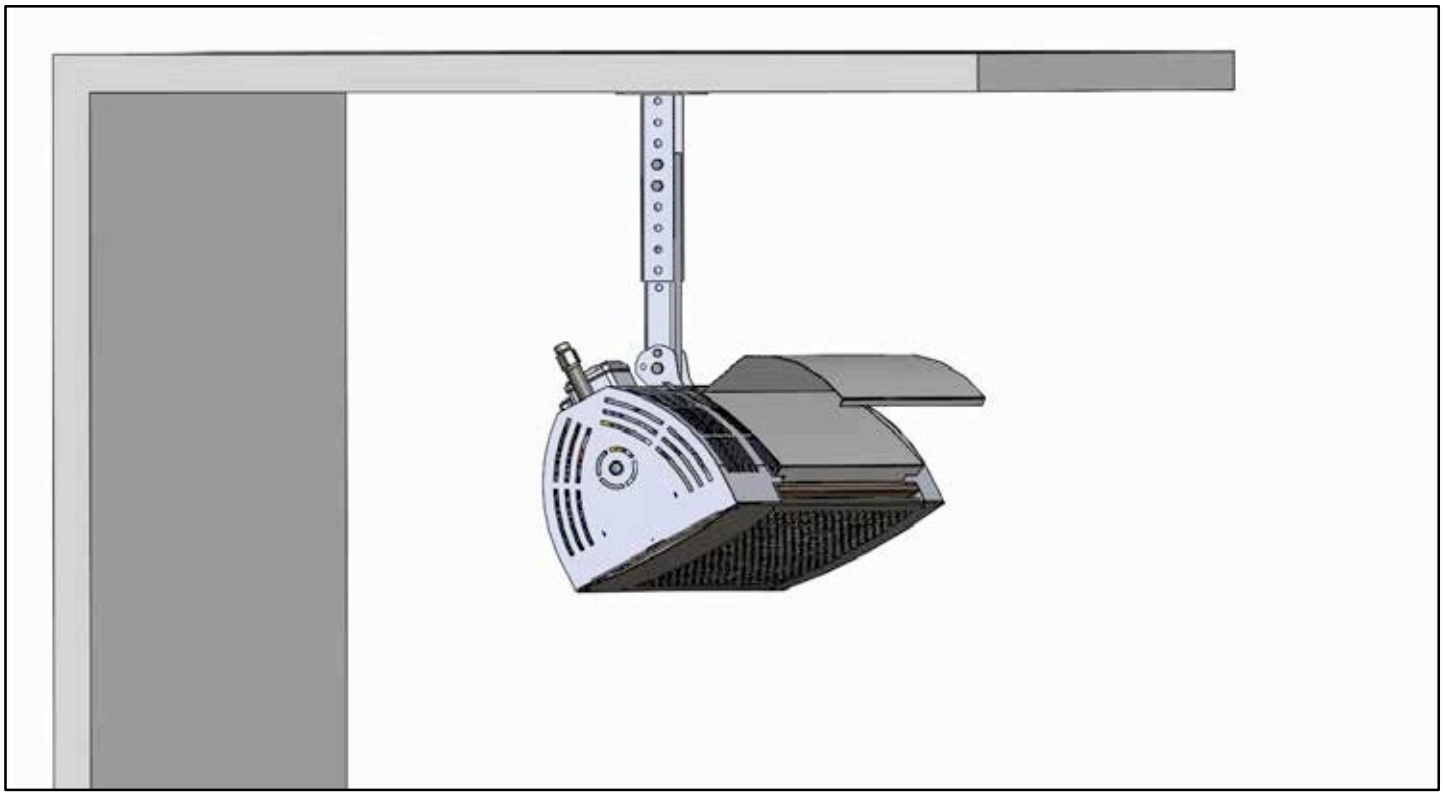


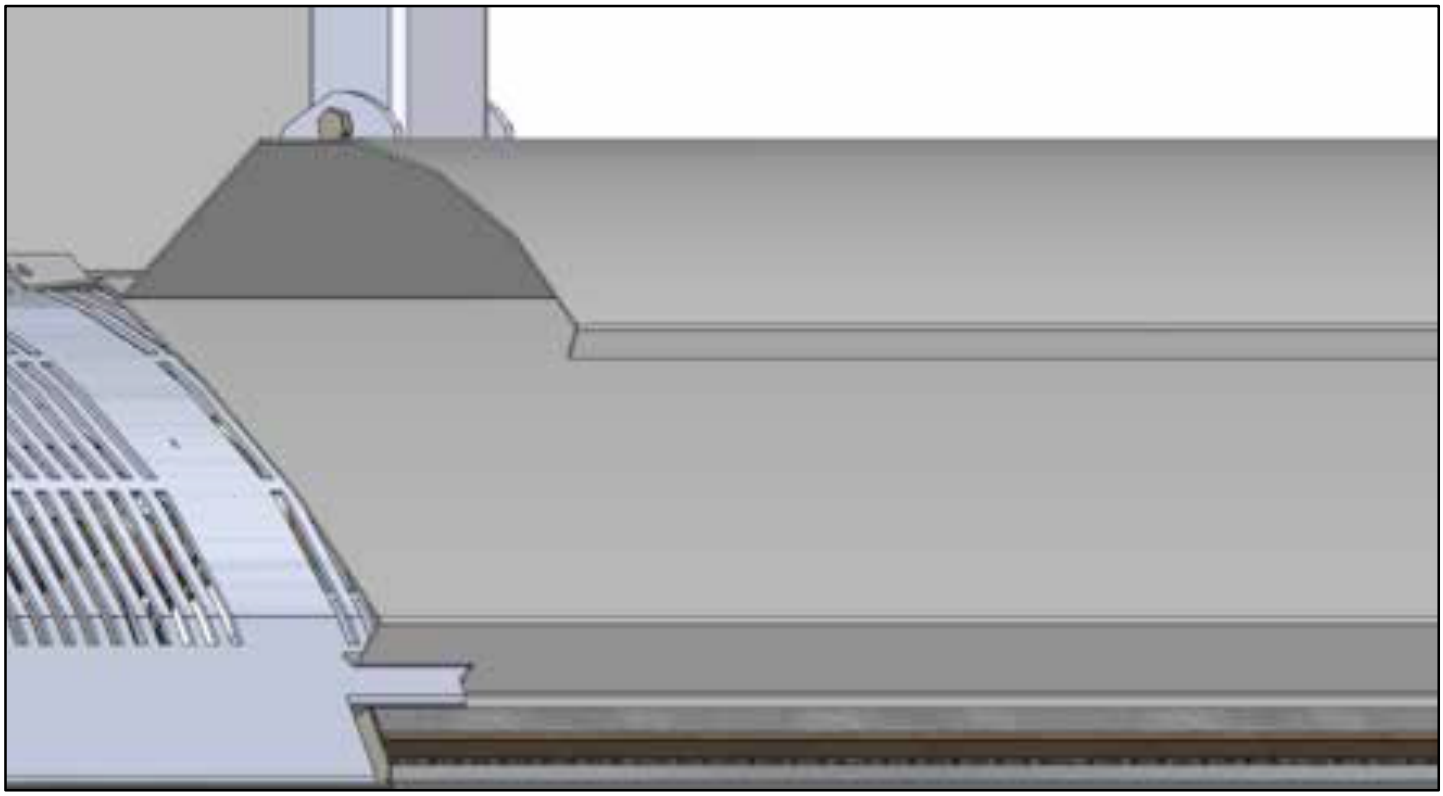






4.STEP: To install the heat shield, place the end part of the shield in the gap between the reflector and casing of the heater. Fix the heat shield to rivet nuts on the casing of the heater with M4x8 bolts through the holes at the back of the shield.





SECTION 5: EXHAUST and VENTILATION

Ceramic plaque radiant appliances can be used in open areas and also in closed areas provided that sufficient ventilation. The volume of the installation space of the heaters should be minimum 10 m^3 per kW of nominal heat input of radiant heaters placed. Minimum 10m^3/h combustion air per kW of operational heat input should be supplied from outside to installation space either through thermal (natural) or mechanical ventilation. Appropriate fresh air and exhaust openings should be provided and when heating system is operated should be coupled with mechanical ventilation, if available. If the building air change rate is greater than 1.5 per hour or the density of operating heat input is less than 5 W/m^3, no thermal (natural) or mechanical ventilation measures are necessary. (EN 13410, TS 13410).

SECTION 6: GAS INSTALLATION

Prior to commissioning of the heaters, ensure that gas installation complies with local standards and legislations (Gas Installation Compliance) and leakage test is performed. High pressure test for the gas installation should be performed with burner gas shut off valve in closed position or prior to connecting gas flex hose to the burner. Before commissioning the burners, ensure that inner pipe cleaning is performed by purging gas pipelines. For additional safety, a strainer (Gas Filter) should be installed at burner gas inlet.

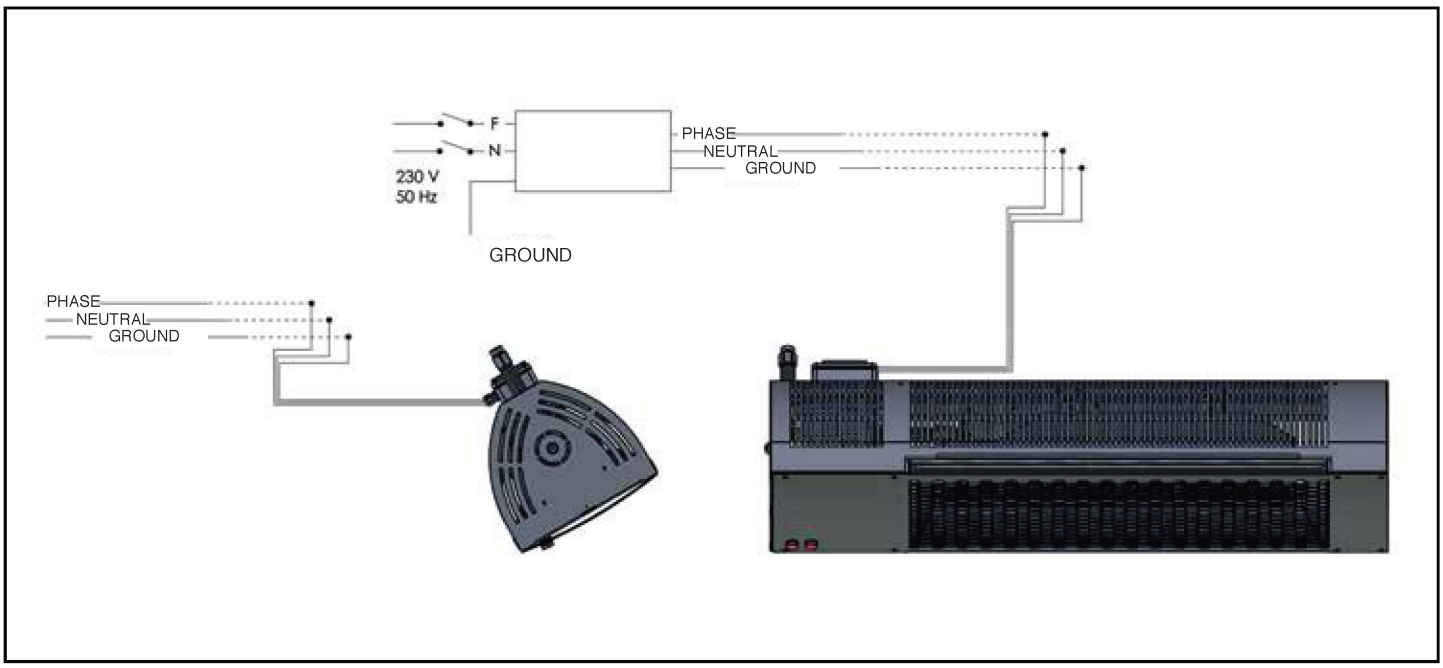
Gas flex hose allows ease of installation and servicing. Gas piping installation should be sizing such that the gas pressure at each burner inlet is 20 mbar under total nominal load of the equipment. Gas shut off valve should be installed to gas supply line of each heater to allow servicing.

SECTION 7: WIRING

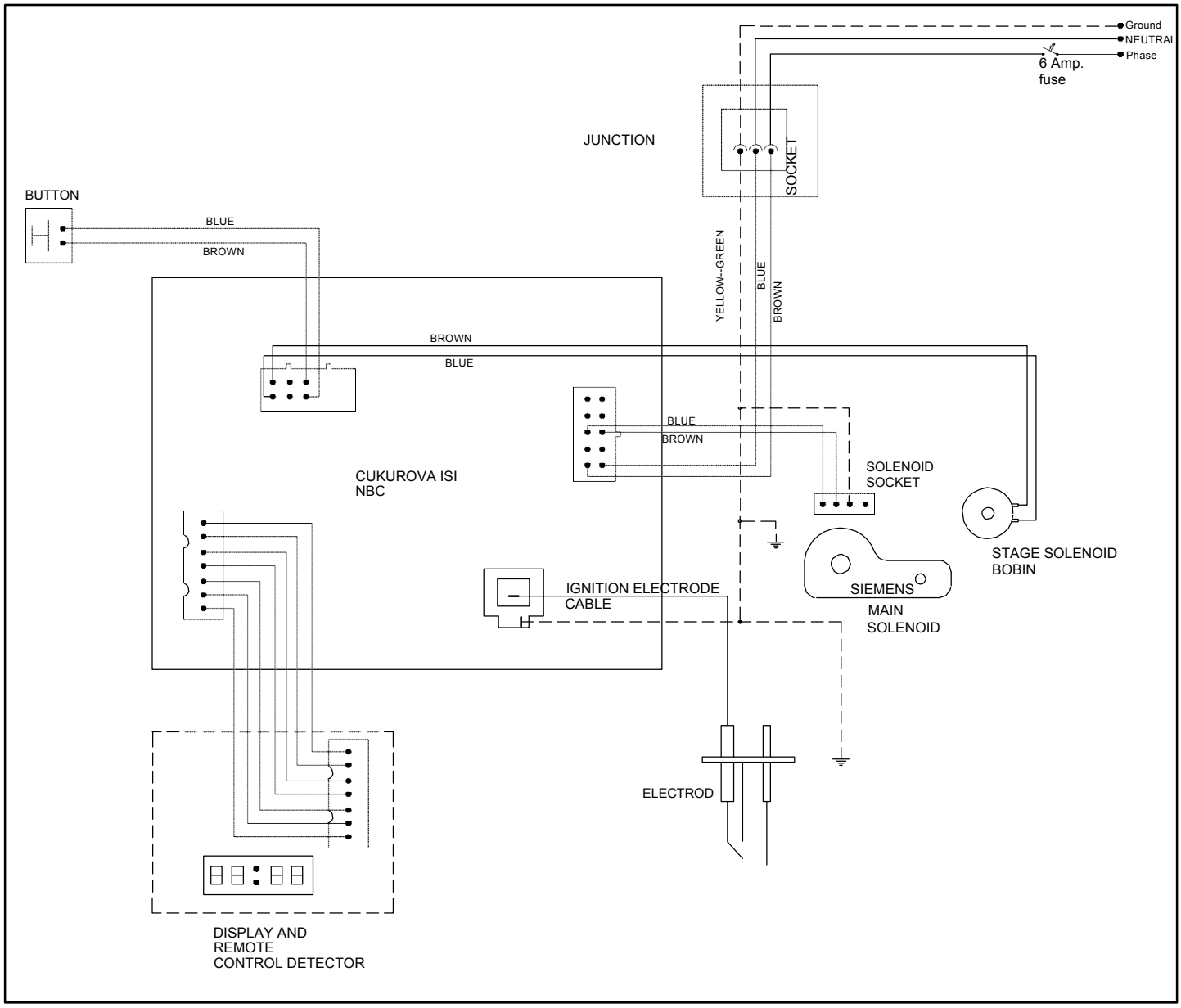
Power supply of the burner should be 230V and grounded. This also performs the control function. By cutting the power off, operation of the equipment is stopped. To enable servicing, electrical isolator should be placed on the feeder in each heater. Isolator should be selected so that it can bear the total load. Supply cable of each heater should be 3 x 1.5 mm^2 insulated cable with heat-resistant 70°C. Make sure that the cable does not contact with the heater and it does not heat up full length or temperature limits are not exceeded. To avoid straining of terminal connections, cable connection should be robust.

All wiring should comply with building electrical wiring regulations and local electrical wiring standards.

SECTION 7.1: BURNER EXTERNAL WIRING DIAGRAM



SECTION 7.2: BURNER INTERNAL WIRING DIAGRAM



SECTION 8: OPERATION OF THE

HEATER SECTION 8.1: START-UP

1. Make sure gas supply with adequate pressure and proper power connection are available.

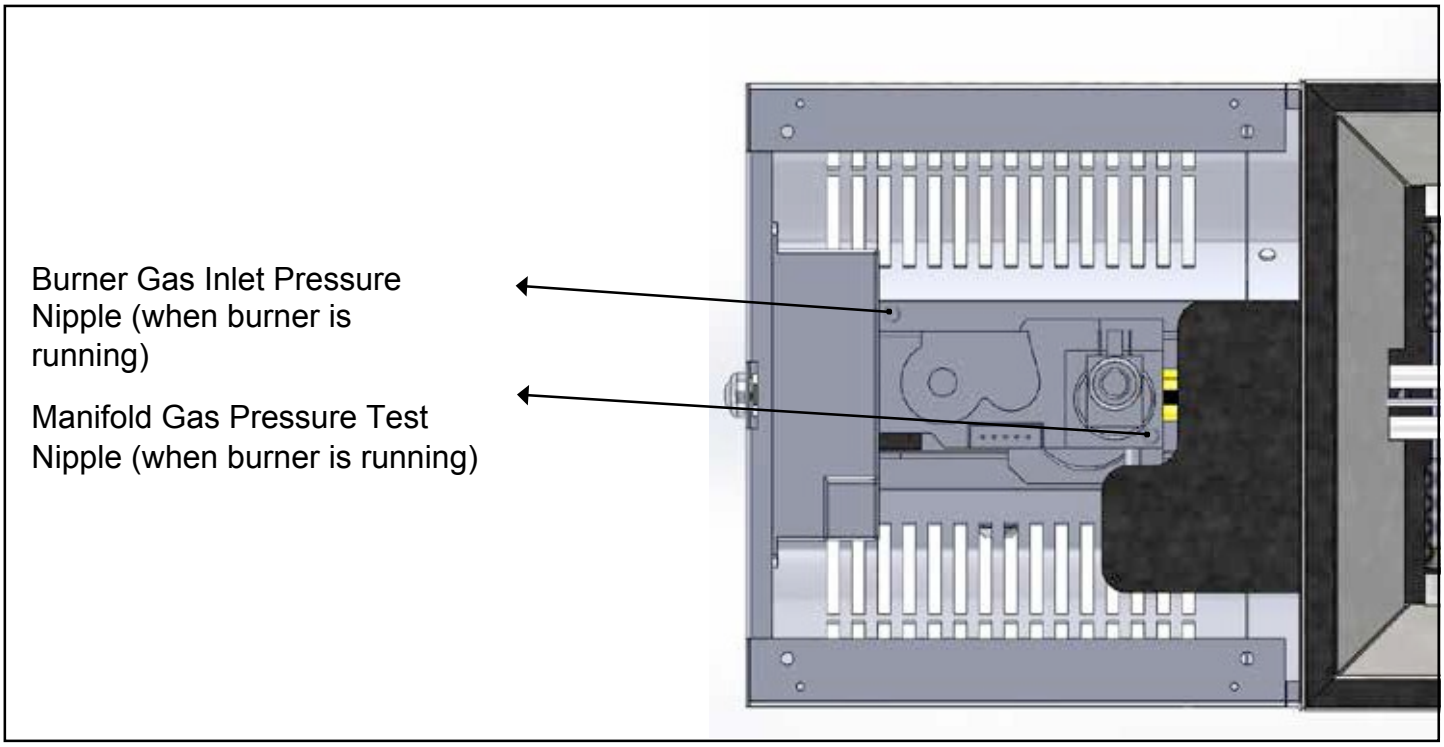
2. Open the service hatch with gas shut off valve closed and power supply is switched off.

3. Open power connection from the main switch. Set run command to appliances through remote control modules.

4. Gas Pressure Setting: (For manifold gas pressure settings, see Page: 3 technical specifications)

Loosen the sealing bolt of pressure test nipple, connect a digital manometer to the test nipple. Open burner gas shut off valve and power supply. Make sure that remote control module is set so as to start with full gas flow rate. Processes must be performed in specified order. When flame is formed, check gas pressure value and adjust if necessary. For gas pressure values, refer to burner data label. Gas pressure settings of the heater are made by computer control over the control module. The kit available in authorized services is connected to the ignition module and the software is installed.

After switching off power supply, turn off the heater and remove the manometer – ensure gas impermeability by tightening pressure test nipple screw.



SECTION 8.2: INSPECTION OF SAFETY SYSTEMS

For smooth ignition, open the local key again. Perform the following system checks:

When starting, turn off the gas from the appliance. The appliance will be shut down after three ignition attempts following the failure procedure.

SECTION 8.3: USER NOTIFICATION

After performing sufficient tests, make sure that the customer fully learned operation of the system. Show this manual to the user or buyer; inform them on the safe operation of heater(s). Hang the below user instructions beside the appliance control unit.

SECTION 8.4

GOLDSUN (CC / PERFORMA / ELITE) USER INSTRUCTION

A) GAS PRESSURE Natural Gas Max: 55mbar Min: 20 mbar

In case an interruption in natural gas supply occurs, it is necessary to check the slam-shut valve and open the gas.

WARNING!: Start-up must be performed by Authorized Service Personnel.

B) USER INSTRUCTIONS

.

1. Open main power supply.

2. Make sure that gas valve is open.

3. When OFF appears on the heater's display, the appliance is turned off. Press the red ON/OFF button on the remote control to turn on the appliance. Thus, ignition process is started. “On” will appear on the screen after the scrolling lines.

4. In approximately 10-15 seconds flame will be seen on the surface of the appliance. When the flame is formed, “On-3” appears on the screen, this indicates that the appliance is heating at the 3rd stage.

4a. At start-up, the appliance operates in 3rd stage. In order to switch the appliance to 2nd stage, the down arrow button is pressed on the remote control; the device switches to the 2nd stage, “On-2” appears on the screen. When the same button is pressed again, the device switches to 1st stage and “On-1” appears on the screen.

4b. By using the up and down arrow buttons of the remote control, switching between 1st/2nd/3rd stages is possible.

4c. To turn off the appliance, red button on the remote control is pressed, and the appliance shu down.

4d. Turning On and Off, Stage switching can also be performed by the button located at the side of the appliance. Pressing the button once make the appliance to operate in 3rd stage, pressing the key twice lowers the stage to 2nd, third pressing turns the appliance 1st stage. Fourth pressing turns the appliance off.

5. In case flame is not formed by the end of ignition process, the appliance performs two more ignitions; if there is no flame formation, appliance switches off gas inlet and stops ignition. Restart is tried by pressing red button of remote control (RESET). If the appliance does not work after 4-5 trials, the system should be shut down and service should be called.

6- Under normal operation, flame sensor monitors continuity of the flame and thus gas supply. If the appliance goes off during this process due to any fault, appliance performs ignition again to verify whether this situation is temporary; if the appliance starts, everything proceeds normally. If the appliance does not start, it performs two more ignitions; if there is still no flame formation, appliance switches off gas inlet and stops ignition. To restart the system, the appliance must be RESET as explained above and tried to restart; if it does not start the system should be shut down and service should be called.

WARNING: IF THE SYSTEM WILL NOT BE OPERATED FOR A PROLONGED PERIOD, SWITCH OFF POWER FROM THE MAIN SUPPLY SWITCH AND CUT THE GAS OFF FROM THE MAIN CUT-OFF VALVE.

SECTION 9: SERVICE INSTRUCTIONS

⚠ DANGER	⚠ WARNING		
			
Electrical Shock Hazard **Switch off power supply prior to servicing.** **More than one switch may be required to cut off power connection of the heater.** **Heater should be connected to an appropriately grounded power source.**	**Explosion Hazard** **Shut off gas supply prior to servicing the heater.**	**Burn Hazard** **Leave the heater to cool down before servicing.** **The heater may be still hot after shut-down.**	**Cut / Pinch Hazard** **Use protective equipment during installation, operating and servicing.** **Edges are sharp.**
Failing to comply these instructions may result in death, electric shock, injury or material damage. IMPORTANT: Never use the heater as a ladder support or other access tools. After completing the service or replacement of gas carrying components, perform leakage test with an appropriate detection fluid. Upon completion of service / diagnostic procedures requiring cut off and rebuilding of power connections, Phase – Neutral – Ground ordering and grounding connection controls must be repeated.			

SECTION 9.1: ANNUAL MAINTENANCE PROCESSES

Perform the following process annually. Preferred timing is just before winter heating season. In case of excessive dirt conditions, more frequent performance of this process may be required. Regular maintenance of heaters is necessary for their efficiency.

Routine maintenance of heaters can be performed at site as explained below:

a) CUT OFF GAS AND POWER SUPPLY TO THE APPLIANCE

b) Clean the surfaces of ceramic plates with a soft brush and by blowing compressed air, if available.

c) Clean the venturi opening of the burner by blowing compressed air.

d) Make sure there is no rust or corrosion on the ignition electrode and flame sensor and there are no cracks on ceramic holders.

e) Turn on the gas and power supply to the heater again and check whether the heater is properly ignited.

f) If necessary, readjust gas pressure.

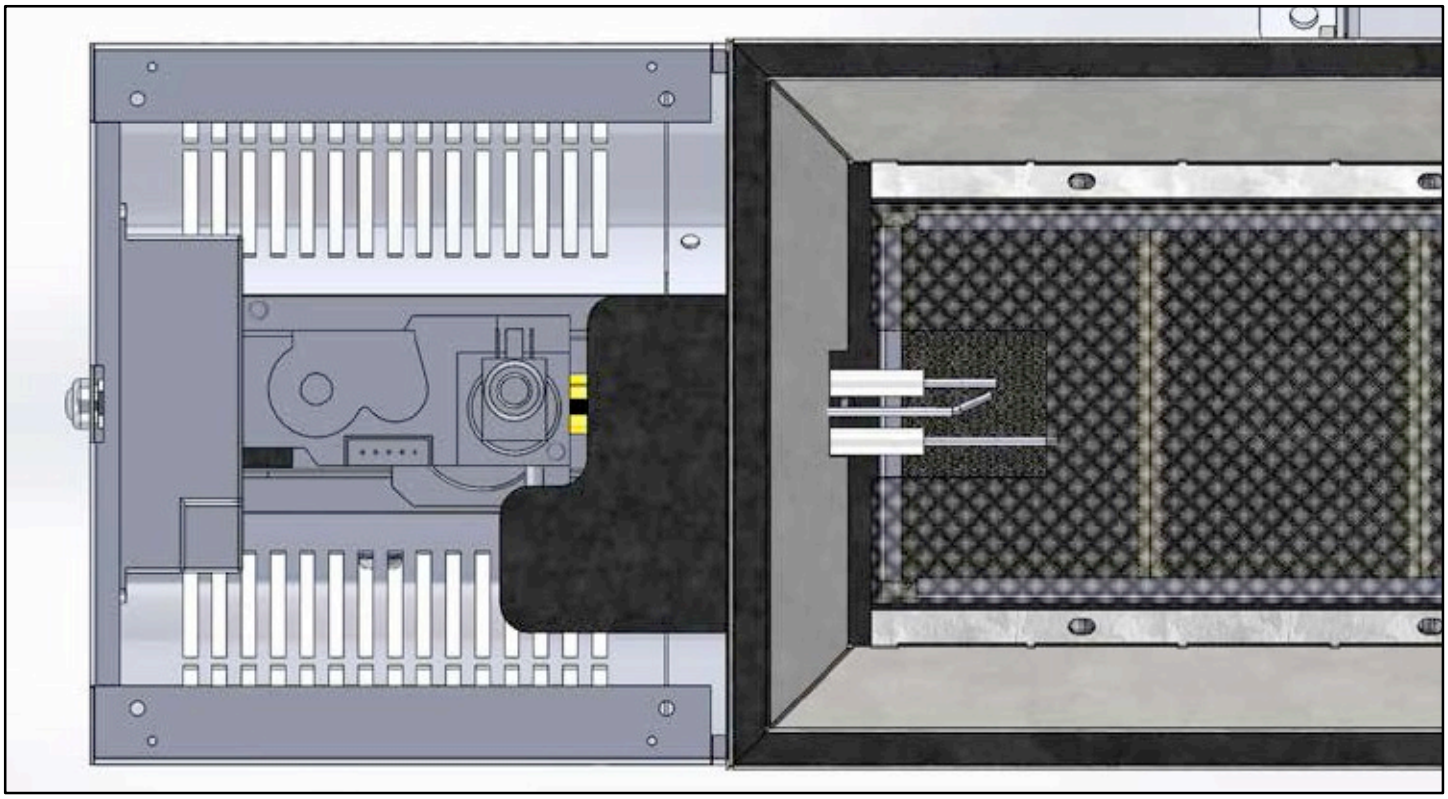
g) Check whether power cables are worn out.

SECTION 9.2: REMOVAL OF PARTS

First, disconnect gas and power supply of the appliance. When front cover or glass is removed, burner mechanism can be accessed.

SECTION 9.3: ELECTRODE

After disconnecting electrode cables, electrode is removed by loosening the mounting screws.



SECTION 9.4: GAS VALVE

1. Remove power supply cable from the appliance and put in a safe place.

2. Remove the control module from the solenoid valve by pulling up. Disconnect the second stage cable from the solenoid. Remove the valve from pipeline of the heater using a second nut spanner to avoid damaging adjacent pipes or connections.

3. Replace the solenoid valve with a new one making sure that gas flow direction is towards the heater.

4. Reinstall control module and second stage cable. Plug in the appliance and turn on gas.

5. Place gas manometer to test end close to heater injector.

6. Start ignition procedure in accordance with operation instructions.

7. Check gas pressure and adjust (for correct gas pressure, refer to Technical Specifications). Remove the gas manometer and install the screw in its place on pressure test end.

8. Check all gas connections for leakage.

SECTION 9.5: AUTOMATIC FLAME CONTROL UNIT

1. Remove power supply cable from the appliance and put on a place it near the heater.

2. Remove the special cables of ignition and flame sensor electrodes.

3. Remove the main cable assembly from the module. Replace control module with a new one.

4. Connect the special cables of ignition and flame sensor electrodes. Reconnect main power cable. Open the gas cut off valve of heater and turn on power from the insulating switch.

5. Start ignition procedure. Follow operation instructions to start ignition cycle.

SECTION 9.6: ANNUAL MAINTENANCE CHECKLIST

Installation and servicing of appliances sold and supplied by ÇUKUROVA ISI A.Ş. should be carried out by an authorized installer and should comply with all requirements regarding the installation, service and operation of the appliance specified in user manuals of ÇUKUROVA ISI® and anticipated by officials. In order to provide maximum performance and safety, ÇUKUROVA ISI A.Ş. recommends inspection of appliances at least once a year and using only original spare parts when necessary and provision of service by authorized personnel. The appliance should never be cleaned with flammable and abrasive materials.

Surroundings of the Heater	Do not store or use flammable materials, fluids, or vapor near the heater. If such materials exist, remove them immediately.
Devices and Other Objects	Observe the required distances to inflammable objects. See Page: 4 Safety Distances Do not hang or place anything on the heater. Make sure that there are no objects under the reflector and between pipes.
Gas Line	Check for gas leakage.
Burner Jet (Orifice)	Remove congestions (even spider webs cause problems). Carefully clean all dust and debris in the burner.
Electrode	In case of cracked ceramic, excessive carbon deposit or electrode wear, replace. Electrode gap should be 3 mm.
Thermostat / Control Panel	There should be no open cables or damage in the Thermostat / Control Panel.
Hanging Points	Make sure the heater is hanging securely.
User Manual	If there is a User Manual, make sure that it is legible and correct. If you need User Manual, please contact ÇUKUROVA ISI A.Ş. or contact your independent ÇUKUROVA ISI® distributor.

SECTION 10: TROUBLESHOOTING

TROUBLESHOOTING		
PROBLEM	**PROBABLE CAUSE**	**CORRECTIVE ACTION**
Heater does not work	1. No power supply to the appliance 2. Faulty remote-control module 3. Faulty control module	1. Provide 220 V input to the appliance 2. Inspect remote control module, replace if necessary. 3. Inspect control module connections, if necessary, replace the control module.
No flame formation on the ignition electrode	1. Faulty ignition and control module 2. Faulty ignition electrode	1. Check ignition and control module cable connections, if necessary, replace the ignition and control module. 2. Electrode cable may be loose or broken; put in place or replace. 3. Electrode ceramic may be cracked or broken, replace.
There is spark on ignition electrode, flame forms but goes off again	1. Phase-Neutral-Ground order is wrong. 2. No gas supply to the appliance or pressure is low 3. Faulty gas valve 4. Faulty ignition and ionization electrode 5. Faulty gas nipple	1. Check Phase-Neutral-Ground order, make sure it is 220V. Grounding must be ensured. 2. No gas supply or gas pressure is low. Check gas regulator and pipes. 3. Check gas valve inlet and outlet pressure while the appliance is operating. If necessary, replace gas valve. 4. If electrode tip distance is not sufficient for spark, adjust to 3mm. Check ionization electrode, replace if necessary. 5. Gas nipple may be clogged, clean.
Heater flame forms behind the ceramic surface	1. Ceramic part may be damaged. 2. During installation to the burner, gaps may be left between ceramics.	1. Replace ceramic parts. 2. Remove ceramics, fix with asbestos flute and reassemble the burner.
Low temperature on ceramic surfaces	1. Low manifold pressure 2. Low gas inlet pressure 3. Gas nipple is dirty or clogged. 4. Air supply to venturi is insufficient. 5. Venturi and gas nipple are not aligned properly. 6. Foreign material in venturi.	1. Adjust manifold pressure according to burner model by referring to specifications on page three. 2. Adjust inlet pressure to 20-50 mbar. 3. Clean or replace gas nipple. 4. To provide sufficient air supply to the venturi, remove surrounding obstacles. 5. Align venturi and gas nipple. 6. Clean the venturi thoroughly with compressed air or fine brush.
Smell gas	1. Gas connection hose is loose 2. Gas valve is cracked 3. Leakage at screw connections of gas components.	1. Check coupling connections, ensure tightness, replace gas connection hose if necessary. 2. Replace gas valve, adjust manifold gas pressure. 3. Disconnect screw connections of gas components and reassemble with liquid gasket.
Appliance outer surface gets overheated	1. Improper appliance installation	1. Apply safety distances and sufficient ventilation conditions specified in installation manual of the appliance.
Carbon deposit on ceramic surface	1. Improper gas nipple and venturi alignment 2. Foreign material in the venturi 3. Low gas pressure	1. Properly align gas nipple and venturi. 2. Clean with compressed air or fine brush. 3. Check inlet and outlet pressure. Adjust to manifold gas pressure value shown in technical specifications on page three.

SECTION 11: LABELS AND WARNINGS:

LABELS:

THIS APPLIANCE SHOULD BE INSTALLED IN COMPLIANCE WITH LOCAL LAWS AND REGULATIONS.
SHOULD BE USED IN PROPERLY VENTILATED SPACES IN COMPLIANCE WITH THE CONDITIONS SPECIFIED IN TS EN 13410 STANDARD.
REFER TO USER MANUAL PRIOR TO INSTALLING AND OPERATING THE APPLIANCE.

GOLDSUN ELITE CERAMIC PLAQUE HEATER		
ÇUKUROVA ISI A.Ş. GEPOSB ATATÜRK BULVARI NO: 28 GEBZE/KOCAELİ/TURKEY T: +90 (262) 751 33 66 F: +90 (262) 751 33 88		CE 1984-17
MODEL NO: ELT.7/9/11	DATE OF MANUFACTURING:	SERIAL NO:
CLASS: I2H	NATURAL GAS (G20) INLET PRESSURE: Min. 20 mbar	Max. 55 mbar
APPLIANCE TYPE: A1	BURNER OPERATING PRESSURE: 9 / 17 mbar	
INLET POWER Hi: 11 KW Lo: 7 KW	NIPPLE DIAMETER: 2.59 mm	DESTINATION COUNTRY: TR
230 V 50 Hz 50W	NOX CLASS: 4	1984 CP 0268
WARNING DISCONNECT GAS AND POWER CONNECTIONS OF THE APPLIANCE BEFORE SERVICING.		

THIS APPLIANCE SHOULD BE INSTALLED IN COMPLIANCE WITH LOCAL LAWS AND REGULATIONS.
SHOULD BE USED IN PROPERLY VENTILATED SPACES IN COMPLIANCE WITH THE CONDITIONS SPECIFIED IN TS EN 13410 STANDARD.
REFER TO USER MANUAL PRIOR TO INSTALLING AND OPERATING THE APPLIANCE.

GOLDSUN PERFORMA CERAMIC PLAQUE HEATER		
ÇUKUROVA ISI A.Ş. GEPOSB ATATÜRK BULVARI NO: 28 GEBZE/KOCAELİ/TURKEY T: +90 (262) 751 33 66 F: +90 (262) 751 33 88		CE 1984-17
MODEL NO: PRF.5/6/7	DATE OF MANUFACTURING:	SERIAL NO:
CLASS: I2H	NATURAL GAS (G20) INLET PRESSURE: Min. 20 mbar	Max. 55 mbar
APPLIANCE TYPE: A1	BURNER OPERATING PRESSURE: 9 / 17 mbar	
INLET POWER Hi: 7 KW Lo: 5 KW	NIPPLE DIAMETER: 2 mm	DESTINATION COUNTRY: TR
230 V 50 Hz 50W	NOX CLASS: 4	1984 CP 0268
WARNING DISCONNECT GAS AND POWER CONNECTIONS OF THE APPLIANCE BEFORE SERVICING.		

WARNINGS:

!!! WARNING !!!

DANGER: IF YOU SMELL GAS

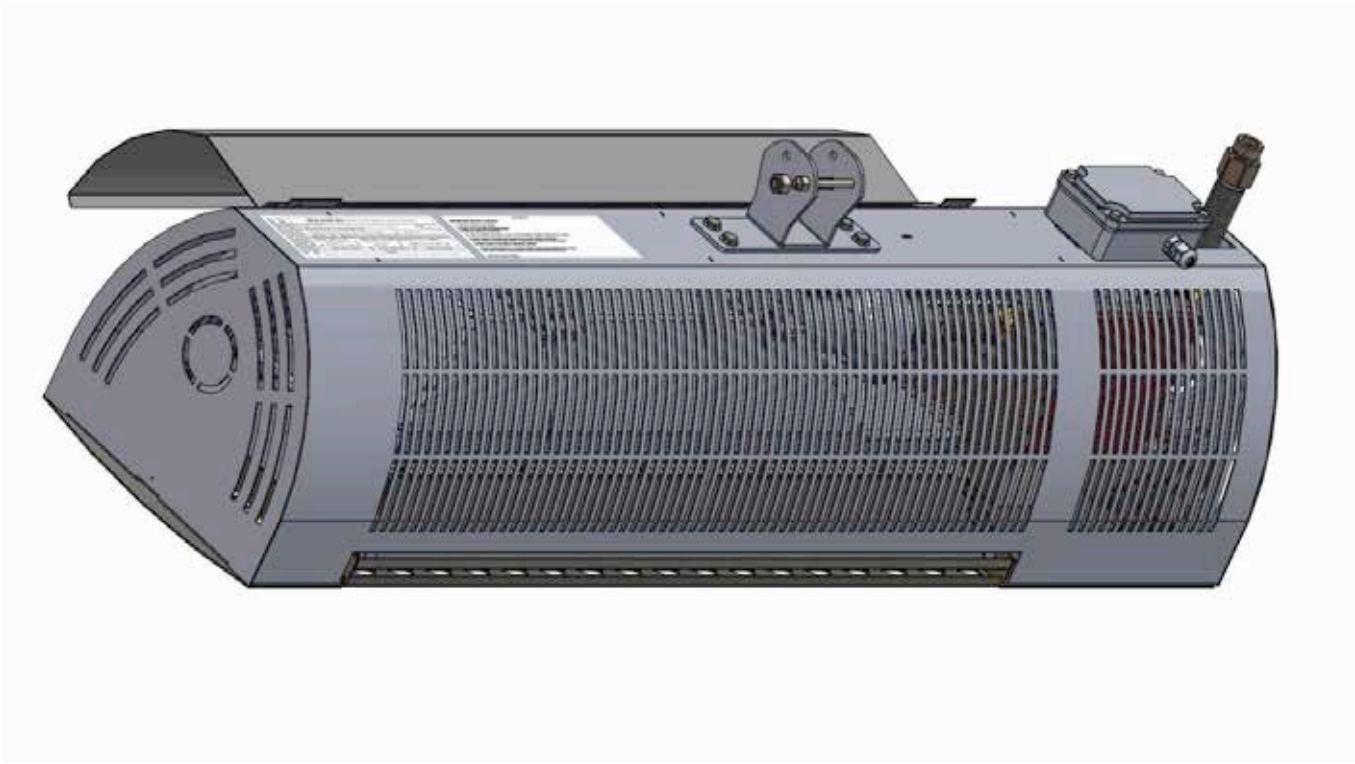
1. TURN OFF THE GAS.
2. EXTINGUISH ANY OPEN FLAME.
3. CALL YOUR AUTHORIZED SERVICE.

THIS APPLIANCE SHOULD BE INSTALLED IN COMPLIANCE WITH APPLICABLE LAWS AND LOCAL REGULATIONS. PRIOR TO INSTALLING, CHECK LOCAL DISTRIBUTION CONDITIONS, PROPERTIES AND PRESSURE OF GAS AND WHETHER APPLIANCE SETTINGS ARE SUITABLE.

DO NOT PERFORM MAINTENANCE WITHOUT SHUTTING DOWN THE HEATER, CUTTING OFF THE POWER SUPPLY AND COOLING OF THE APPLIANCE TO ROOM TEMPERATURE.

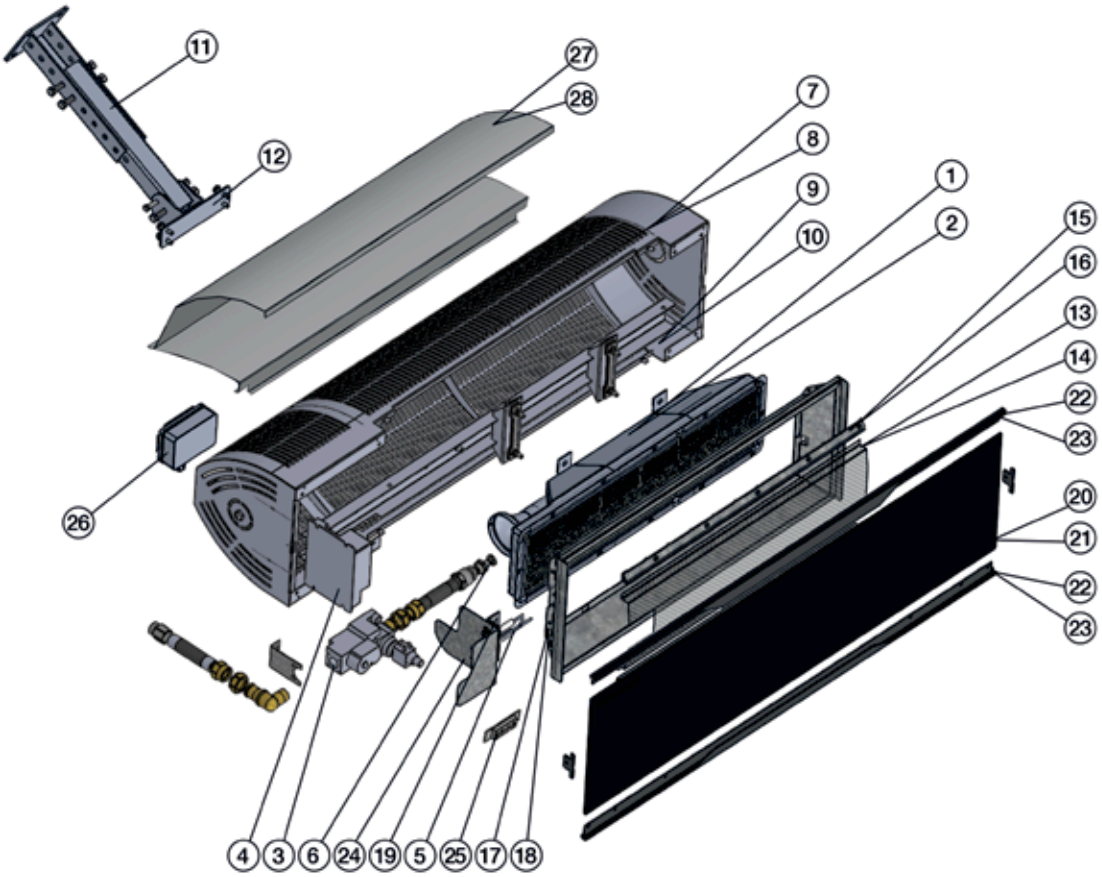
CAUTION! HOT SURFACE

LOCATIONS ON THE HEATER



SECTION 12: SPARE PARTS

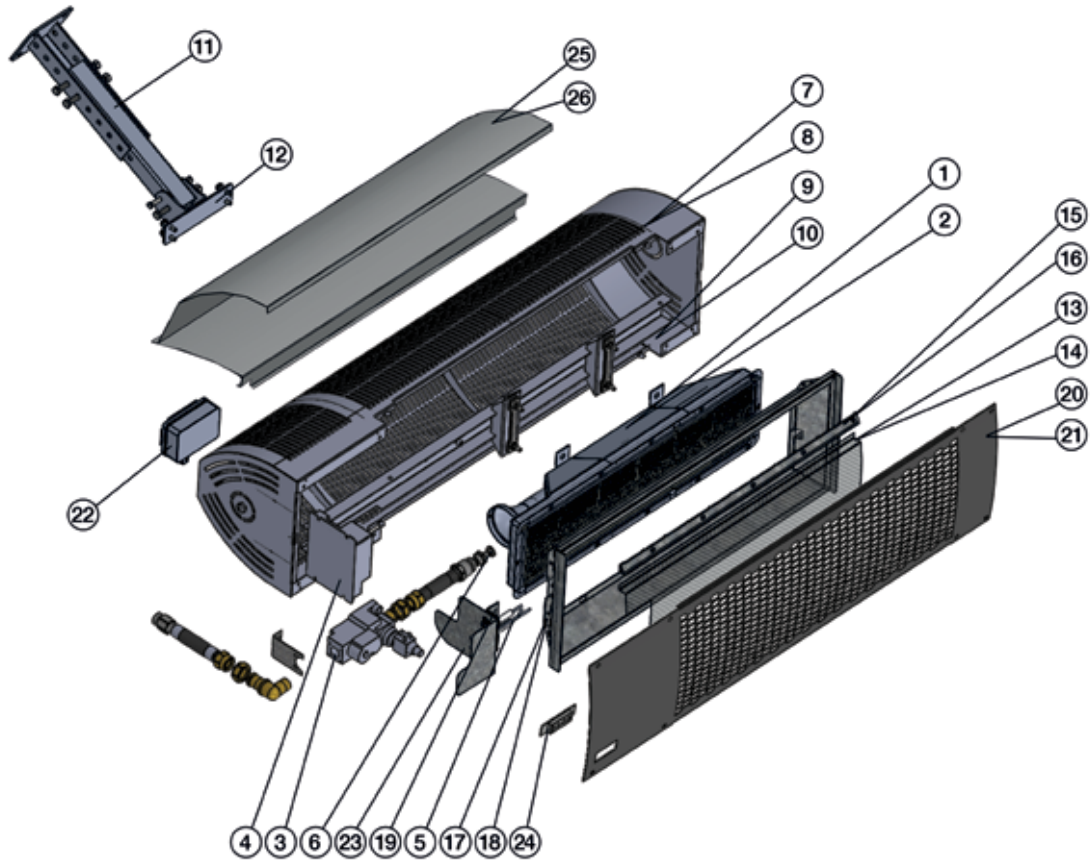
SECTION 12.1: GOLDSUN ELITE



ITEM NO.	STOCK CODE	PART NUMBER	PIECES	ITEM NO.	STOCK CODE	PART NUMBER	PIECES
1	27.002	BURNER 7/9/11	1	**16**	27.063	WIRE GRILLE HOLDER 5/6/7	1
2	27.001	BURNER 5/6/7	1	**17**	27.103	REFLECTOR 7/9/11	1
3	27.117	SOLENOID VALVE	1	**18**	27.104	REFLECTOR 5/6/7	1
4	27.114	IGNITION MODULE	1	**19**	27.061	ELECTRODE HOLDER	1
5	27.060	ELECTRODE SPARK PLUG	1	**20**	27.094	CAM 7/9/11	1
6		NIPPLE	1	**21**	27.095	CAM 5/6/7	1
7	27.092	CASING 7/9/11	1	**22**	27.096	CAM HOLDING BAR 7/9/11	2
8	27.093	CASING 5/6/7	1	**23**	27.097	CAM HOLDING BAR 5/6/7	2
9	27.101	INNER CONSOLE 7/9/11	1	**24**	27.106	SOLENOID PROTECTIVE SHIELD	1
10	27.102	INNER CONSOLE 5/6/7	1	**25**		LCD REMOTE CONTROL MODULE	1
11	27.018	SUSPENSION CONSOLE	1	**26**	27.029	JUNCTION BOX ALUMINUM	1
12	27.080	CONSOLE U CONNECTOR	1	**27**	27.004	HEAT SHIELD 7/9/11	1
13	27.016	WIRE GRILLE 7/9/11	1	**28**	27.003	HEAT SHIELD 5/6/7	1
14	27.012	WIRE GRILLE 5/6/7	1				
15	27.064	WIRE GRILLE HOLDER 7/9/11	1				

*** Use only spare parts of Çukurova Isı origin, do not use parts not having Çukurova Isı Warranty certificate.
Failing to comply these rules may lead to material damage and voids warranty conditions.

SECTION 12.2: GOLDSUN PERFORMA



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2	27.001	BURNER 5/6/7	1
3	27.117	SOLENOID VALVE	1
4	27.114	IGNITION MODULE	1
5	27.060	ELECTRODE SPARK PLUG	1
6		NIPPLE	1
7	27.092	CASING 7/9/11	1
8	27.093	CASING 5/6/7	1
9	27.101	INNER CONSOLE 7/9/11	1
10	27.102	INNER CONSOLE 5/6/7	1
11	27.018	SUSPENSION CONSOLE	1
12	27.080	CONSOLE U CONNECTOR	1
13	27.016	WIRE GRILLE 7/9/11	1
14	27.012	WIRE GRILLE 5/6/7	1
15	27.064	WIRE GRILLE HOLDER 7/9/11	1

ITEM NO.	STOCK CODE	PART NUMBER	PIECES
16	27.063	WIRE GRILLE HOLDER 5/6/7	1
17	27.103	REFLECTOR 7/9/11	1
18	27.104	REFLECTOR 5/6/7	1
19	27.061	ELECTRODE HOLDER	1
20	27.099	FRONT DECORATIVE GRILLE 7/9/11	1
21	27.100	FRONT DECORATIVE GRILLE 5/6/7	1
22	27.029	JUNCTION BOX ALUMINUM	1
23	27.106	SOLENOID PROTECTIVE SHIELD	1
24		LCD REMOTE CONTROL MODULE	1
25	27.004	HEAT SHIELD 7/9/11	1
26	27.003	HEAT SHIELD 5/6/7	1

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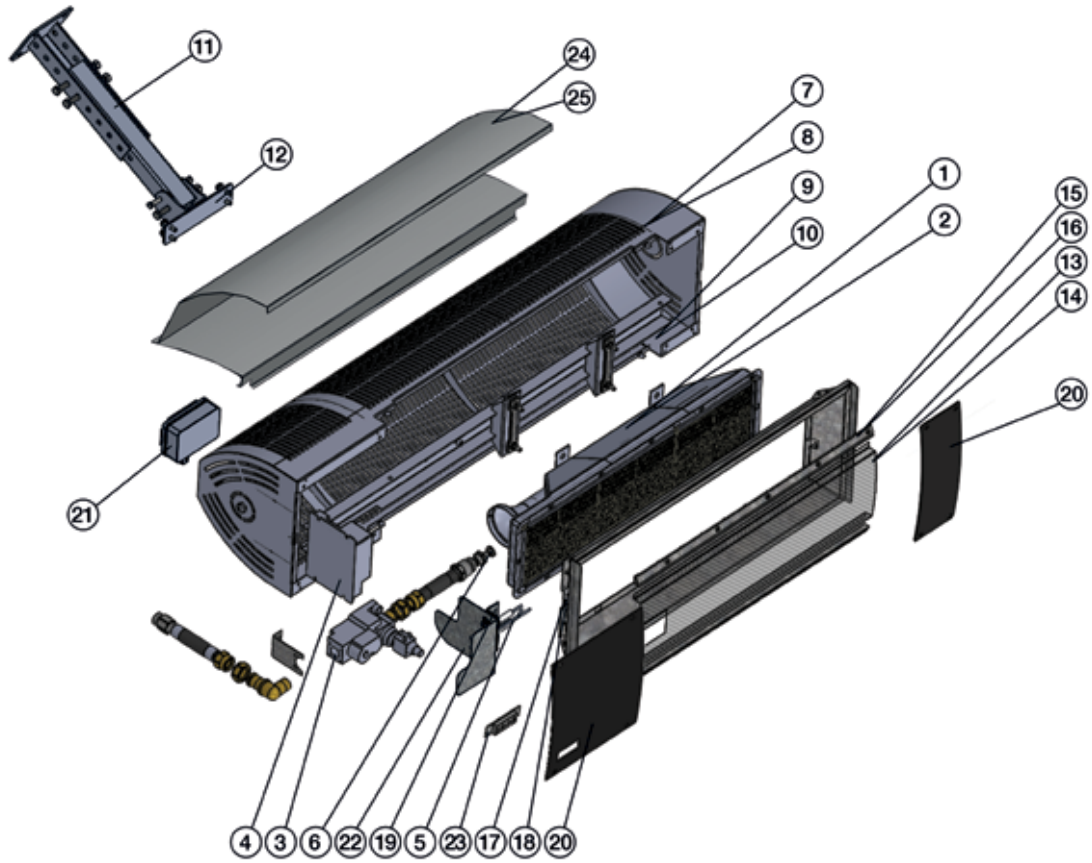
SECTION 12.3: GOLDSUN CC



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3	27.117	SOLENOID VALVE	1	**18**	27.104	REFLECTOR 5/6/7	1
4	27.114	IGNITION MODULE	1	**19**	27.061	ELECTRODE HOLDER	1
5	27.060	ELECTRODE SPARK PLUG	1	**20**	27.108	FRONT COVER ASSEMBLY	1
6		NIPPLE	1	**21**	27.029	JUNCTION BOX ALUMINUM	1
7	27.092	CASING 7/9/11	1	**22**	27.106	SOLENOID PROTECTIVE SHIELD	1
8	27.093	CASING 5/6/7	1	**23**		LCD REMOTE CONTROL MODULE	1
9	27.101	INNER CONSOLE 7/9/11	1	**24**	27.004	HEAT SHIELD 7/9/11	1
10	27.102	INNER CONSOLE 5/6/7	1	**25**	27.003	HEAT SHIELD 5/6/7	1
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15	27.064	WIRE GRILLE HOLDER 7/9/11	1				

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AUTHORIZED SERVICES:

ÇUKUROVA ISI A.Ş.

Headquarter: Feyzullah Mah. Gelişim Sok. Piker Apt. No:9 Maltepe / ISTANBUL

Branch/Factory: Gebze Plastikçiler O.S.B. Atatürk Bulvarı No:28 Gebze / KOCAELİ

Phone: 0 262 751 33 66 Fax: 0 262 751 33 88

www.cukurovaisi.com

WARRANTY CONDITIONS

- Warranty period is 2 (two) years, beginning at the delivery date of the appliance.
- The whole of the goods, including all parts, are under the warranty of our company.
- In case of failure of the goods within the warranty period, time spent for repair is added to warranty period. Repair time of the goods is 30 (thirty) working days at most. This time begins at the date of notification of the failure to the service station or, in case of unavailability of a service station, to any one of the seller, dealer, agent, representative, importer or manufacturer. In case of failure to fix the problem of the goods in 15 (fifteen) days, the manufacturer or importer is obliged to provide another good with similar features to the consumer until the repair of the goods is completed.
- In case of failure of the good due to material and workmanship or assembly faults within the warranty period, the good will be repaired free of any charges under workmanship cost, replaced part cost or any other name.
- Although the consumer exercises the right of repair, if;

  - In addition to the factors of the same failure is repeated more than twice or more than four different failures occur within one year following the date of delivery to the consumer, on the condition that the warranty period has not expired, or the sum of different failures within the specified warranty period is more than six, these failures perpetuate not benefiting from the good,

  - Exceeding the maximum time required for repair,

  - In case of unavailability of service station of the company, a report issued respectively by any one of dealer, agent, representative, importer or manufacturer defining the impossibility of fixing the failure, the consumer can claim replacement of the good free of charge, refund of his money or a price discount proportional to the defect.
- Failures arising from usage against the instructions manual of the good are out of warranty coverage.
- For any problems relating to Warranty Certificate, applications can be forwarded to Republic of Turkey, Ministry of Commerce General Directorate of Consumer Protection and Market Surveillance.

CONDITIONS NOT INCLUDED IN WARRANTY COVERAGE

- Damages and failures due to misuse.
- Damages and failures occurring during loading, unloading, transportation after delivery to the customer.
- Damages and failures due to low or excessive voltage, faulty electrical wiring, using with different voltage from the one specified on the good’s label.
- Failures due to usage against the user manuals.
- Failures occurring due to repairs by unauthorized people and using unapproved spare parts.
- Damages and failures due to halogenated hydrocarbon parts of he system or efficient chemicals.
- **THE SELLER IS NOT RESPONSIBLE FOR FAILURES ARISING FROM INAPPROPRIATE USE.**

WARRANTY PERIOD: 2 (TWO) YEARS

DEALER

Gebze Plastikçiler Organize Sanayi Bölgesi
Atatürk Bulvarı No: 28 41400 Gebze/Kocaeli
Tel +(90) 262 751 33 66 – Fax +(90) 262 751 33 88
info@cukurovaisi.com