



# UPUTSTVO ZA UPOTREBU

## GASNA GREJALICA

Model:G-220

SR



Sačuvajte uputstvo !!!

## UPOZORENJE BEZBEDNOSNA PRAVILA

MOLIMO PROČITAJTE SLEDEĆA BEZBEDNOSNA PRAVILA PRE UPOTREBE UREĐAJA

### BEZBEDNOSNA PRAVILA

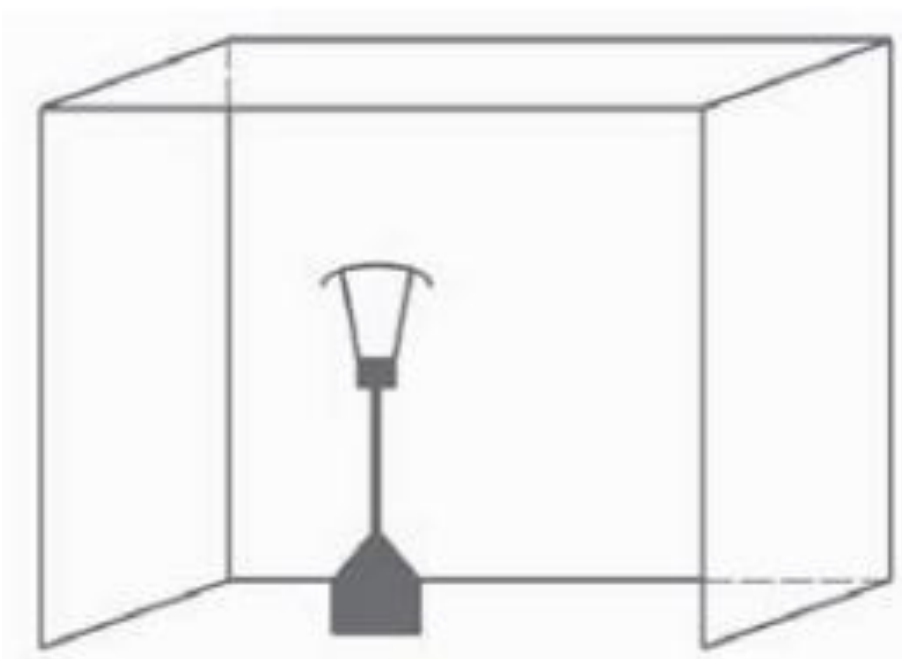
#### 1. Ako osetite miris gasa:

**Isključite dovod gasa do uređaja. Ugasite svaki otvoren plamen. Ako i dalje osećate miris gasa, odmah pozovite svog dobavljača gasa ili hitnu službu za gas.**

2. Nemojte skladištiti niti koristiti benzin ili druge zapaljive pare ili tečnosti u blizini ovog uređaja..
3. Boca sa gasom koja nije priključena za upotrebu ne sme se čuvati u blizini ovog uređaja.

### UPOZORENJE

- Uređaj se koristi na otvorenom ili u dobro provetrenim prostorima.
- Prostor sa dovoljno ventilacije mora imati najmanje 25% otvorene površine.
- Površina je zbir površine zidova.



### UPOZORENJE:

Nepravilna instalacija, podešavanje, izmene, servis ili održavanje mogu da izazovu oštećenje uređaja. Pažljivo pročitajte uputstva za instalaciju rad i održavanje nakon instaliranja ili servisiranja ove opreme.

### UPOZORENJE

- Pročitajte uputstva pre instalacije i upotrebe.
- Ovaj uređaj mora biti instaliran, a boca za gas uskladištena u skladu sa važećim propisima.
- Ne zatvarajte ventilacione otvore kućišta cilindra.
- Zatvorite ventil na cilindru za gas ili regulatoru pre pomeranja uređaja.
- Ne pomerajte uređaj dok je u radu.
- Cev ili fleksibilno crevo moraju da se menjaju u propisanim intervalima.-Koristite vrstu gasa i tip regulatora koji su navedeni i koji se koristi sa Vašom grejalicom za baštu. Kupujte boce za gas sa sledećim potrebnim dimenzijama: 31,8cm - prečnik, 58cm –visina, sa maksimalnom nosivošću 15kg .
- U slučaju jakog vetra posebnu pažnju treba obratiti na naginjanje uređaja. Držite uređaj najmanje 1 m od gasne boce.
- Injektor mora da ugradi samo proizvođač. Ne priključujte plinsku bocu direktno na uređaj bez regulatora. Koristite samo onu vrstu gasa i vrstu regulatora koji su navedeni u uputstvima.

Regulator (koji je u skladu sa EN16129:2013) mora podržati ispravan pritisak koji odgovara kategoriji uređaja.

Koristite 30mbar regulator za butan / propan pod kategorijom I3B / P (30).

Koristite 30mbar regulator za butan pod kategorijom I3 + (28-30/37).

Koristite 37mbar regulator za propan pod kategorijom I3 + (28-30/37).

Koristite 50mbar regulator za butan / propan pod kategorijom I3B / P (50).

Preporučljivo je koristiti fleksibilno crevo koje je odobreno prema EN16436:2014.

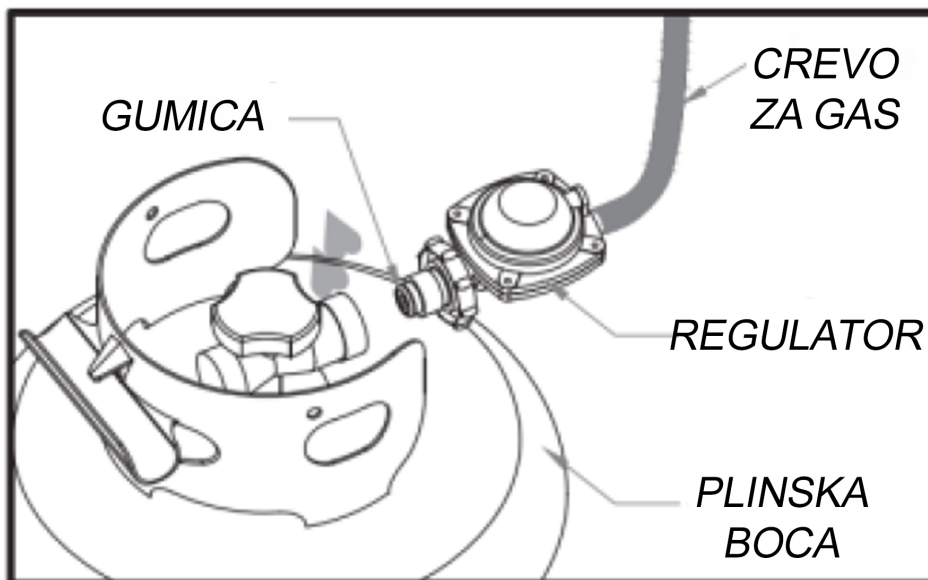
## OPREZ

MOLIM VAS PROČITAJTE PAŽLJIVO SLEDEĆE BEZBEDNOSNE UPUTSTVA PRE UPOTREBE.

- Ne koristite bašensku grejalicu za terasu u zatvorenom prostoru, jer može prouzrokovati telesne povrede ili oštećenje imovine.
- Ovaj uređaj nije namenjen za ugradnju na rekreativna vozila i/ili čamce.
- Instalaciju i popravku treba da obavi kvalifikovana servisna osoba.
- Nepravilna instalacija, podešavanje ili izmene mogu izazvati telesne povrede ili materijalnu štetu.
- Ne pokušavajte da menjate delove uređaja na bilo koji način.
- Nikada nemojte zameniti regulator bilo kojim drugim regulatorom osim onim koji je fabrički predložen.
- Nemojte skladištiti niti koristiti benzin ili druge zapaljive pare ili tečnosti u blizini baštenske grejalice.
- Ceo gasni sistem, crevo, regulator, bocu i gorionik treba pregledati, proveriti da li ima curenja ili oštećenja pre upotrebe, a najmanje jednom godišnje od strane kvalifikovanog servisera.
- Sve testove curenja treba uraditi rastvorom sapuna. Nikada ne koristite otvoreni plamen za proveru curenja.
- Nemojte koristiti grejalicu dok svi priključci ne budu testirani na curenje.
- Zatvorite gasni ventil ako osetite miris gasa. Ako je curenje na priključku crevo/regulator: zategnite spoj i izvršite još jedan test curenja. Ako mehurići nastave da se pojavljuju, proverite crevo. Ako je curenje na spoju regulator/ventil boce: odspojite, ponovo spojite i izvršite još jednu proveru curenja. Ako i dalje vidite mehuriće nakon nekoliko pokušaja, ventil boce je neispravan i treba ga vratiti na mesto kupovine boce.

- Ne transportujte grejalicu dok radi.
- Ne pomerajte grejalicu nakon što je isključena, dok se ne ohladi.
- Otvor za ventilaciju na kućištu cilindra neka bude otvoren i čist od ostataka.
- Nemojte farbati ekran, kontrolnu tablu ili gornji reflektor grejalice.
- Kontrolni deo, gorionik i prolaz za cirkulaciju vazduha grejalice moraju biti čisti. Po potrebi može biti potrebno često čišćenje.
- Plinsku bocu treba isključiti kada se grejalica ne koristi.
- Odmah proverite grejalicu ako se desi nešto od sledećeg:  
Grejalica ne postiže datu temoeraturu.  
Gorionik pravi pucketanje tokom upotrebe (blagi šum je normalan kada se gorionik ugasi).  
Miris gasa u kombinaciji sa ekstremnim žutim plamenom gorionika.
- Sklop plinske boce/creva mora biti lociran van puteva na kojima se ljudi mogu spotaknuti o njega ili u oblasti gde crevo neće biti podložno slučajnom oštećenju.
- Svaki štitnik ili drugi zaštitni uređaj koji je uklonjen radi servisiranja grejalice mora biti zamenjen pre upotrebe grejalice.
- Odrasli i deca treba da se drže dalje od površine visoke temperature kako bi izbegli opekotine ili paljenje odeće.
- Decu treba pažljivo nadgledati kada se nalaze u blizini grejalice.
- Odeću ili druge zapaljive materijale ne treba kačiti na grejalicu ili stavljati na ili blizu grejalice.
- Menjajte gasnu bocu u dobro provetrenom prostoru , dalje od bilo kakvog izvora plamena (sveće, cigarete, drugi uređaji koji proizvode plamen...).
- Proverite da li je gumica regulatora pravilno postavljena i da ispunjava svoju funkciju, kao što je prikazano na slici (ispod).
- Ne ometajte ventilacione otvore kućišta cilindra.
- Zatvorite dovod gasa na ventilu boce za gas ili regulatora nakon upotrebe.

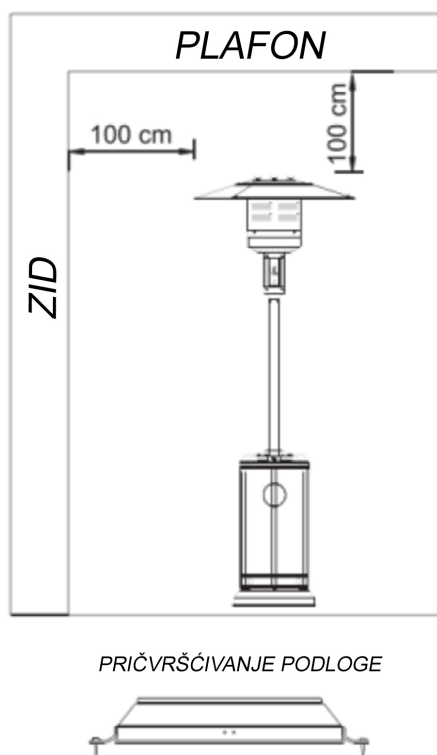




- U slučaju curenja gasa, uređaj se ne sme koristiti . Dovod gasa se prekida, uređaj se ispituje i otklanja kvar pre nego što se ponovo koristi.
- Proverite crevo najmanje jednom mesečno, svaki put kada se menja cilindar i pre upotrebe grejača nakon dužeg vremena bez upotrebe.
- Upotreba ovog uređaja u zatvorenim prostorima može biti opasna i takva upotreba je ZABRANJENA. Pročitajte uputstva pre upotrebe ovog uređaja. Aparat mora biti instaliran u skladu sa uputstvima i lokalnim propisima. Za povezivanje creva i regulatora, i povezivanje regulatora i creva, pogledajte sliku prikazanu iznad.
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#### POSTOLJE I LOKACIJA GREJALICE

- Grejalica je samo za spoljašnju upotrebu. Uvek obezbedite odgovarajuću ventilaciju svežeg vazduha.
- Uvek održavajte odgovarajući razmak od okolnih materijala, tj. gornjih 100 cm i bočnih najmanje 100 cm.
- Grejalica mora biti postavljen na ravnu čvrstu podlogu.
- Nikada ne koristite grejalicu u eksplozivnoj atmosferi, kao što je prostor gde se čuvaju benzin ili druge zapaljive tečnosti ili isparenja .
- Da biste zaštitili grejalicu od jakog vetra, čvrsto pričvrstite bazu za tlo pomoću šrafova (opciono).



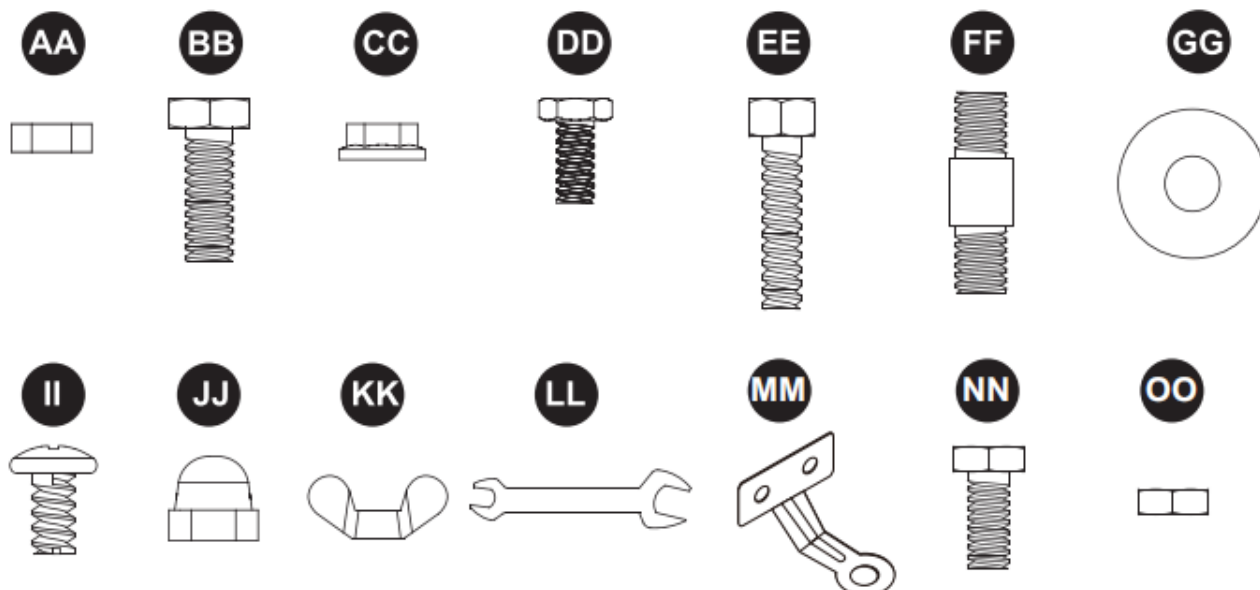
## **ZAHTEVI PO PITANJU GASA**

- Koristite samo propan ili butan gas.
- Regulator pritiska i crevo koji se koristi moraju biti u skladu sa lokalnim standardnim propisima.
- Instalacija mora biti u skladu sa lokalnim propisima, ili u nedostatku lokalnih propisa, sa standardom za skladištenje i rukovanje tečnim naftnim gasovima.
- Udubljene, zarđale ili oštećene boce za propan mogu biti opasne i trebalo bi da ih proveri dobavljač plinskih boca. Nikada ne koristite bocu za propan sa oštećenim priključkom ventila.
- Boca za propan mora biti priključena tako da obezbedi povlačenje pare iz radnog cilindra ( postavljen regulator).
- Nikada ne priključujte neregulisanu bocu za propan na grejalicu.

## **TEST CURENJA**

- Gasni priključci na grejaču se testiraju na curenje u fabrici pre isporuke.
- Potpuna provera nepropusnosti gasa mora se izvršiti na mestu ugradnje zbog mogućeg pogrešnog rukovanja u transportu ili prekomernog pritiska na grejalicu.
- Napravite rastvor sapuna od jednog dela tečnog deterdženta i jednog dela vode.
- Rastvor sapuna se može nanositi sprejom, četkom ili krpom. U slučaju curenja pojavice se mehurići od sapuna. Grejalica se mora proveriti sa punim cilindrom.
- Uverite se da je sigurnosni kontrolni ventil u položaju OFF. Uključite dovod gasa.
- U slučaju curenja, isključite dovod gasa. Zategnite sve spojeve koji cure, a zatim uključite dovod gasa i ponovo proverite.
- Ako ste pušač, NIKADA ne testirajte curenje dok pušite.

DODATNI DELOVI

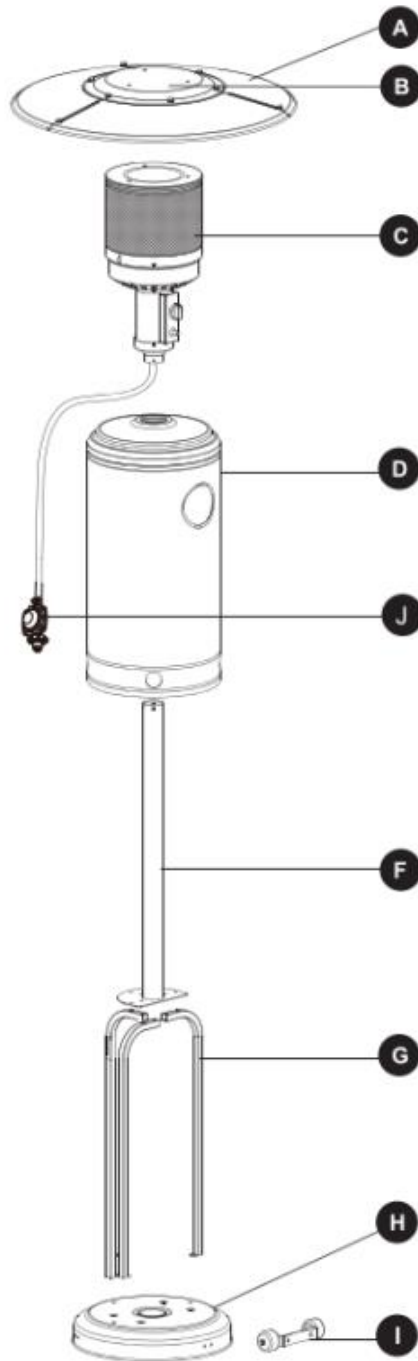


Deo	Opis	Kol
AA	M8 matica (pakovano sa delom I)	2
BB	Šraf M8X16 (2kom upakovano sa delom I)	5
CC	M6 matica sa prirubnicom	6
DD	Šraf od nerđajućeg čelika (prethodno montiran na delu C)	4
EE	Šraf M6x30	6
FF	Odstojnik	3
GG	Podloška	9
II	Šraf M6x10	9
JJ	Matica sa kapom	9
KK	Leptir matica	3
LL	Ključ viljuška	1
MM	Držač	3
HH	Šraf M6x10	6
OO	M6 matica	6

Pre početka montaže proizvoda, proverite da li su svi dodatni delovi u pakovanju . Uporedite delove sa listom sadržaja dodatnih delova. Ako neki delovi nedostaju ili su oštećeni, ne pokušavajte da sastavite proizvod.

Predviđeno vreme sastavljanja: 30 minuta

## DELOVI I SPECIFIKACIJE



Deo	Opis	Kol
A	Reflektor	3
B	Centar reflektora	1
C	Gorionik	1
D	Kućiče gorionika	1
F	Stub gorionika	1
G	Potporni nosač	3
H	Baza nosača	1
I	Osovina sa točkovima	1
J	Regulator (opciono)	1

## A.Konstrukcija i karakteristike

- Prenosiva grejalica za terasu/baštu
- Kućište od nerđajućeg čelika
- Emisija toplote iz reflektora

## B.Specifikacije

- Koristite samo propan, butan ili njihove mešavine .
- Maks. snaga: 13000 W
- Minimalna snaga: 5000 W

Kategorija uređaja	I <sub>3+(28-30/37)</sub>		I <sub>3B/P(30)</sub>	I <sub>3B/P(50)</sub>	I <sub>3B/P(37)</sub>
Vrste gasa	Butan	Propan	Butan , propan ili njihove mešavine	Butan , propan ili njihove mešavine	Butan , propan ili njihove mešavine
Pritisak gasa	28-30 mbar	37 mbar	30 mbar	50 mbar	37 mbar
Izlazni pritisak regulatora	30 mbar	37 mbar	30 mbar	50 mbar	37 mbar

Korišćenje odgovarajućeg regulatora prema izlaznom pritisku kao što je prikazano u tabeli iznad.

## C.Tabela injektora

Kategorija uređaja	I <sub>3+(28-30/37)</sub>		I <sub>3B/P(30)</sub>	I <sub>3B/P(50)</sub>	I <sub>3B/P(37)</sub>
Vrste gasa	Butan	Propan	Butan , propan ili njihove mešavine	Butan , propan ili njihove mešavine	Butan , propan ili njihove mešavine
Pritisak gasa	28-30 mbar	37 mbar	30 mbar	50 mbar	37 mbar
Ukupna toplotna energija (Hs): ( Qn )	13kw (G30:945g/h; G31:929g/h)				
VELIČINA GORIONIKA:	1,90 mm za glavni gorionik 0,18 mm, za pilot gorionik			1,70 mm za glavni gorionik 0.18 mm, za pilot gorionik	1.80mm za glavni gorionik 0.18 mm, za pilot gorionik
Oznaka, npr. 1,90 na injektoru , označava da je veličina injektora 1,90 mm					

- Sklop creva i regulatora mora da bude u skladu sa lokalnim standardima.
- Izlazni pritisak regulatora treba da odgovara odgovarajućoj kategoriji gasa u tabeli gorionika.
- Za uređaj je potrebno crevo dužine 1,4 m.

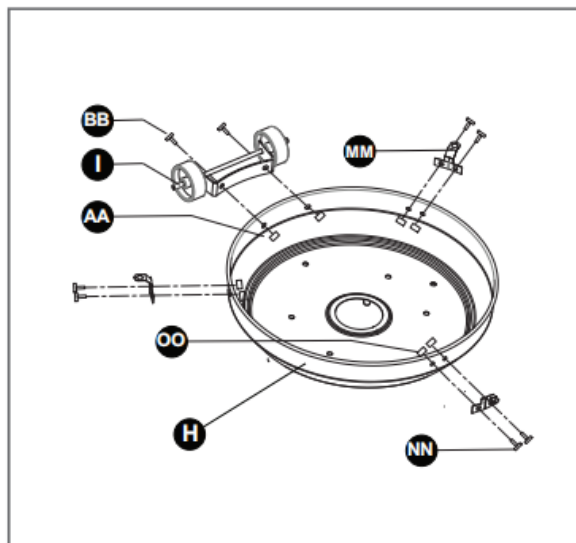
Korišćeni delovi M6

Matica sa Šraf M6x30 x


## UPUTSTVO ZA MONTAŽU

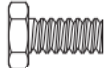
### Korak 1


Okrenite bazu naopako, a zatim pričvrstite osovinu M8 matice (AA) i 2 kom šrafa M8x16 (BB), koristeći 6 kom M6 matica (OO) i 6 kom šrafova. Uverite se da je osovina sa točkovima paralelna sa točkovima (I) na bazu (H) koristeći 2 kom Pričvrstite 3 kom držača (MM) na bazu (H) M6x10 (NN). bazom. Dobro zategnite šrafove.

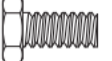



### Korišćeni delovi

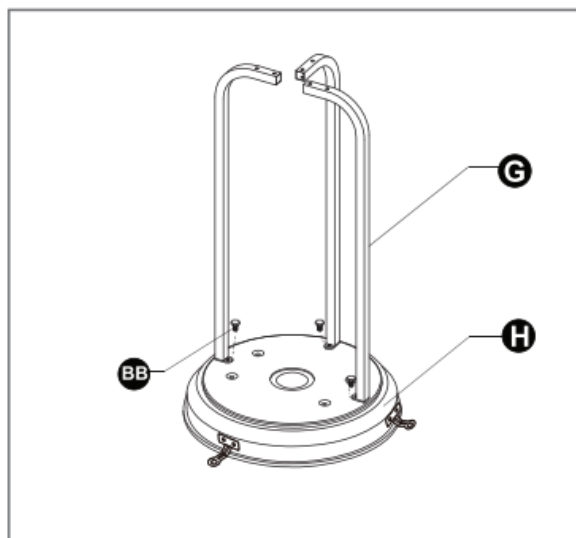
**AA** M8 matica x 2 

**BB** Šraf M8x16 x 2 

**MM** Držać x 3 

Šraf M6x10 x 6 

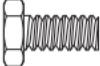
M6 matica x 6 



### Korak 2

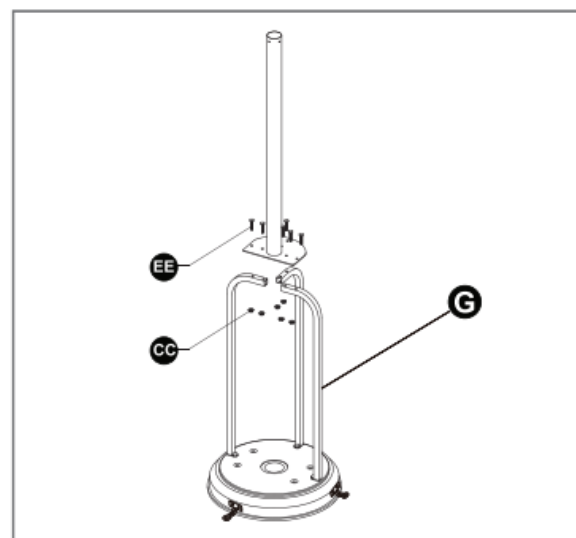
Pričvrstite 3 kom potpornih nosača (G) na bazu (H) 3 kom šrafa M8x16 (BB).

### Korišćeni delovi

**BB** šraf M8x16 x 3 

### Korak 3

Pričvrstite stuba gorionika na nosače (G) koristeći 6 kom šrafova M6 x 30 (EE) i 6 kom M6 matica sa prirubnicom (CC). Dobro zategnite šrafove.



### Korišćeni delovi M6

Matica sa



prirubnicom

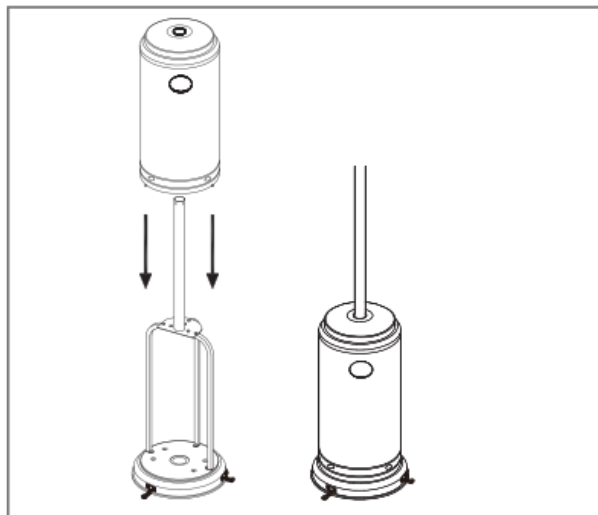


Šraf M6x30



x6

x 6



### Korak 4

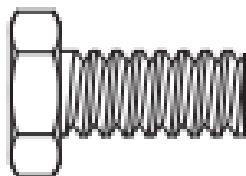
Postavite kućište gorionika na stub, povucite kućište na dole.

### Korak 5

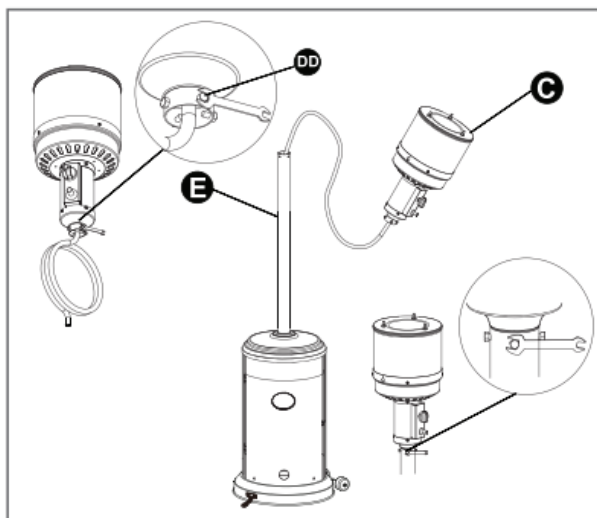
Uklonite 4 kom prethodno montirana šrafa od nerđajućeg čelika (DD) sa sklopa gorionika (C). Postavite crevo za gas sa gornjeg kraja stuba (F), zatim pričvrstite sklop gorionika (C) na stub (F) koristeći četiri šrafa uklonjena na početku ovog koraka. Dobro zategnite šrafove.

### Korišćeni delovi

DD Šraf od nerđajućeg



čelika x 4



### Korak 6

UPOZORENJE : Skinite zaštitni poklopac pre sastavljanja.

Napomena : Neophodan za pravilno poravnanje delova reflektora. Pričvrstite 3 kom reflektorske ploče (A) na središnji reflektor (B) (JJ).

Potpuno zategnite sve šrafove pomoću 9 kom šrafova M6x10 (II) i 9 kom matica

### Korišćeni delovi



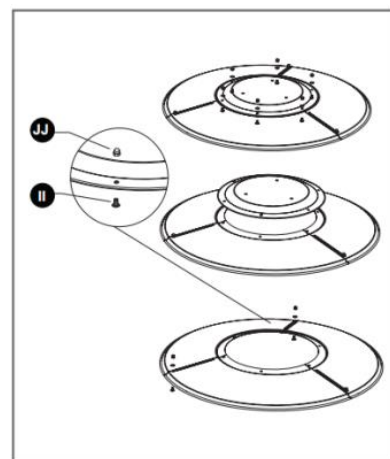
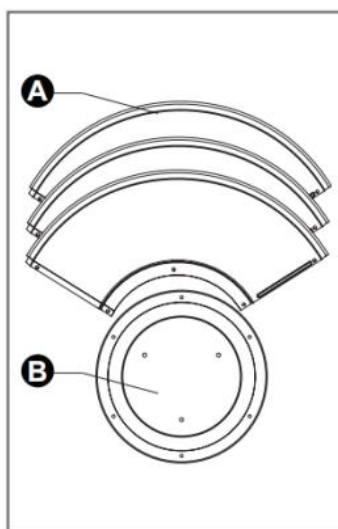
Šraf M6 x10 x 9



JJ

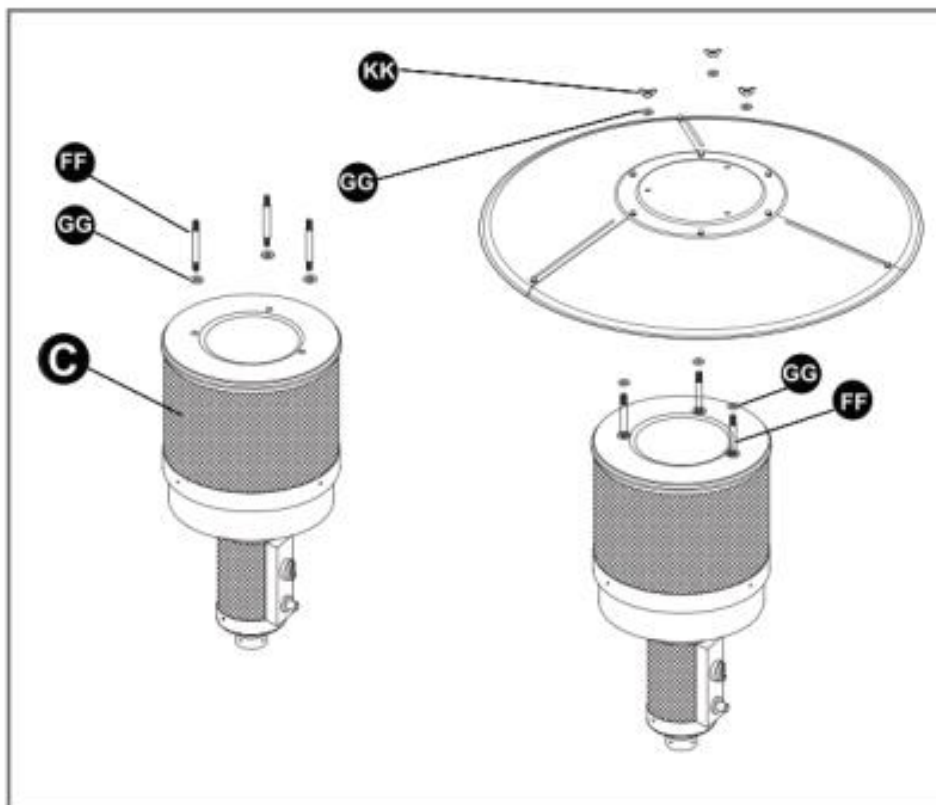


matica x 9



### Korak 7

Postavite 3 kom odstojnika (FF) i 3 kom podloške (GG) na sklop gorionika (C). Zategnite odstojnike. Gurnite podloške od 3 komada (GG) preko kraja odstojnika sa navojem. Pričvrstite sklop reflektora na vrh odstojnika (FF) koristeći 3 kom podloške (GG) i 3 kom leptir matice (KK).



### Korišćeni hardver

  Odstojnik x 3

 **GG** Podloška x 9

 **KK** Leptir matica x 3

### Korak 8

Spojite crevo za gas i regulator sa kopčom i zategnite odvijačem. Pričvrstite regulator na plinsku bocu i zategnite ga ključem.



**UPOZORENJE!** Uverite se da crevo dolazi u kontakt sa visokotemperaturnim površima, jer se u suprotnom može istopiti i procuriti gas, što može izazvati požar.



## CURENJE GASA

**UPOZORENJE !** Provera curenja gasa se mora obavljati jednom godišnje i svaki put kada se boca priključi ili ako se deo gasnog sistema zameni.

**UPOZORENJE !** Nikada ne koristite otvoreni plamen za proveru curenja gasa. Budite sigurni da nema varnica ili otvorenog plamena dok proveravate da li curi gas. Otvoreni plamen će dovesti do požara ili eksplozija, oštećenja imovine, teških telesnih povreda ili smrti.

### Testiranje curenja:

Ovo se mora uraditi pre prve upotrebe, svake godine, i kad god se bilo koja komponenta gasnog sistema menja ili servisira. Nemojte pušiti dok obavljate ovaj test i uklonite sve izvore paljenja.

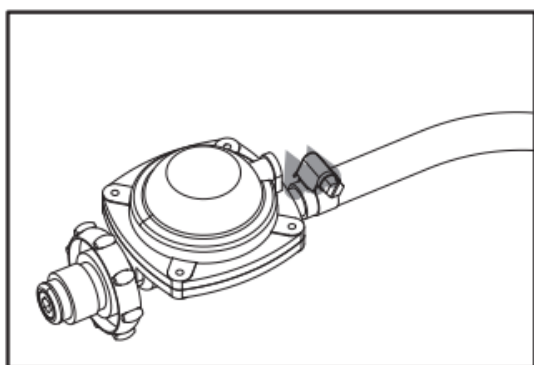
#### Dijagram toka za proveru curenja gasa :

Okrenite sve komande gorionika u položaj isključeno. Uključite ventil za dovod gasa na boci.

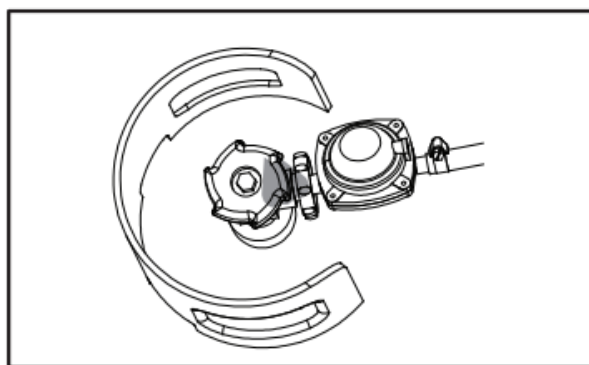
Nanesite četkom smesu pola-pola tečnog sapuna i vode na sve spojeve regulatora, creva, razvodnika i ventila.

Ako se pojave mehurići, gas curi. Zategnite labav spoj ili zamenite deo onim koji preporučuje odeljenje za korisničku podršku ili neka grejalicu pregleda ovlašćeni serviser.

Ako se curenje ne može zaustaviti, odmah isključite dovod gasa i neka grejalicu pregleda ovlašćeni serviser. Nemojte koristiti grejalicu dok se curenje ne popravi.



Priključak crevo / regulator



Priključak regulator / plinska boca

## PAŽNJA

Pre nego što izvršite test curenja, uverite se da ne može doći do varnica i da se nalazite u prostranom otvorenom prostoru. Povežite bocu za propan sa regulatorom i okrenite ventil na uređaju u položaj „isključeno“. Nanesite mešavinu sapuna i vode na sve priključke. Uključite dovod gasa; ako se na bilo kom spoju pojave mehurići, gas curi. **Ako osetite miris gasa ili se otkrije curenje, isključite ventil na boci sa gasom, odvojite bocu sa gasom i ne koristite uređaj dok se curenje ne popravi.**

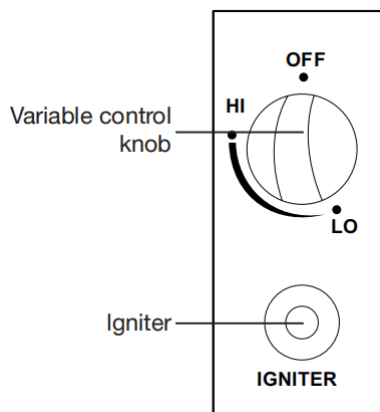
Nemojte koristiti uređaj za grejanje bez pregleda creva za gas. Ako postoje znaci habanja ili abrazije, morate zameniti crevo.

## REŽIM UKLJUČENO

1. Uključite ventil na boci za dovod gasa.
2. Pritisnite i okrenite komandni taster u položaj 'HI'.
3. Pritisnite taster za kontrolu i držite ga 3-5 sekundi.
4. Dok držite pritisnut taster za kontrolu, pritisnite taster za paljenje nekoliko puta dok se gorionik ne upali. Otpustite taster za kontrolu 30 sekundi nakon paljenja.

1. Ako je nova boca upravo priključena, sačekajte iz gasovoda ispusti.
2. Plamen se može posmatrati i proveriti iz otvora za
3. Okrenite kontrolni taster u položaj 'LO' na 5 željenu temperaturu. Ako je potreban mali plamen,
4. Ako se plamen gorionika slučajno ugasi ili ga najmanje 5 minuta da se gas rasprši pre nego što eksploziju gasa. Ponovite korake od 2 do 4.

Kada se uključi prvi put, grejalica može emitovati privremeno stanje. Ekran emitera će postati svetlo. Boja plamena treba da budu plava nijansa ; plamen ukazuje na prepreku protoka vazduha kroz



najmanje jedan minut ili više da se vazduh

gledanje koji se nalazi na dnu gorionika. minuta pre nego što okrenete taster na okrenite komandni taster u položaj 'LO'. izduva vetar, isključite grejalicu i sačekajte ponovo upalite kako biste izbegli moguću

blagi miris i dim. Ovo je normalno i crven zbog toplote. Boja je vidljivija noću. ne bi trebalo da budu žute boje , što gorionike.

## REŽIM ISKLJUČENO

1. Okrenite kontrolni taster u smeru kazaljke na satu u položaj „OFF-isključeno“.
2. Zatvorite ventil na plinskoj boci ako ne nameravate da ga koristite duže vreme.

## ODRŽAVANJE

- Pre obavljanja bilo kakvog održavanja uvek isključite ventil na boci za propan gas.
- Gorionik treba držati slobodnim i čistim od zapaljivih materijala.
- Vizuelno pregledati gorionik za prepreke i držati kućište gorionika čistim od ostataka gorenja.
- Koristite meku četku da biste očistili prljavštinu nakon što se gorionik potpuno ohladi. Obrišite mekom krpom.
- Hladniji vremenski uslovi mogu izazvati tvrdokorne mrlje, promenu boje i moguće rđe.
- Može doći do trajnog oštećenja ako prah ili rastvarač dođu u kontakt sa obojenim ili plastičnim komponentama na grejalici.
- Grejalicu držite dalje od direktne sunčeve svetlosti.
- Ako ne koristite delove/dodatke koje je odobrio ili isporučio proizvođač, može doći do neispravnog rada uređaja i poništenja garancije.
- Uvek stavite poklopac (ako postoji) ili zaštitni poklopac na grejni predmet kada se ohladi i kada nije u upotrebi.

## REŠAVANJE PROBLEMA

Problem	Uzrok	Rešenje
Gorionik se ne pali.	Injektor gorionika je začepljen	Očistite injektor gorionika.
	Nizak pritisak gasa	Pozovite svog dobavljača gasa
Plamen gorionika se gasi odmah nakon paljenja.	Nizak pritisak gasa	Pozovite svog dobavljača gasa
Paljenje je odloženo.	Glavni portovi za prenos gasa u gorionik su začepljeni.	Očistite glavne priključke gorionika.
	Nizak pritisak gasa	Pozovite svog dobavljača gasa
Sagorevanje u gorioniku je neadekvatno.	Nema dovoljno vazduha.	Proverite da li u prolazima za vazduh u gorioniku ima prljavštine i ostataka i očistite ih komprimovanim vazduhom.
Plamen gorionika slabo gori .	Dovodno crevo je savijeno ili uvrnuto.	Ispravite crevo i izvršite test curenja.
	Postoji blokada u injektoru gorionika.	Očistite ili zamenite injektor gorionika.
Emiter gorionika svetli neujednačeno.	Postoji blokada u injektoru gorionika.	Očistite ili zamenite injektor gorionika.
	Baza nije na ravnoj površi.	Postavite grejalicu na ravnu površinu.
	Nizak pritisak gasa	Pozovite svog dobavljača gasa.
Ima malo dima i mirisa tokom početnog rada.	Ovo je ostatak proizvodnog procesa.	Ovo će prestati nakon otprilike 30 minuta rada.
Gust crni dim.	Postoji blokada u gorioniku.	Isključite grejač i ostavite da se ohladi. Uklonite blokadu i očistite unutrašnju i spoljašnju stranu gorionika.
Grejalica proizvodi zviždanje kada se gorionik upali.	Prolazi za vazduh su blokirani.	Proverite instalaciju razmaka i vazdušnih prolaza .
	U gasovodu ima vazduha.	Uključujte gorionik dok se vazduh potpuno ne isprazni.
Grejalica proizvodi škljocanje odmah nakon što se gorionik isključi.	Metal se širi i skuplja.	Ovo je uobičajeno kod grejalice. Ako je buka prevelika, obratite se kvalifikovanom serviseru.
Postoji miris gasa čak i kada je kontrolni taster u položaju OFF.	Došlo je do curenja gasa.	Odmah pronađite i ispravite curenje.
	Kontrola gasa je neispravna.	Zamenite kontrolu gasa.
Postoji miris gasa tokom sagorevanja.	U gasu ili na otvorima gorionika ima stranih materija.	Proverite prolaz za gas u gorionik.
	Grejalica sagoreva pare ili nečistoće iz vazduha.	Nemojte da skladištite i koristite proizvode koji izazivaju miris u blizini grejalice.
	Curi gas na spoju regulatora i creva, na spoju ventila boce i creva.	Pronađite i popravite curenje ili se obratite svom dobavljaču gasa.
Postoji nakupljanje čađi.	Na reflektoru i emiteru ima čađi i prljavštine .	Očistite reflektor i emiter plamena .



# USER MANUEL

**GAS HEATER**

**Model:G-220**

EN



Keep the instructions for future reference!!!

## **WARNING SAFETY RULES**

PLEASE READ THE FOLLOWING SAFETY RULES PRIOR TO OPERATION OF THE HEATER

### ***FOR YOUR SAFETY***

If you smell gas:

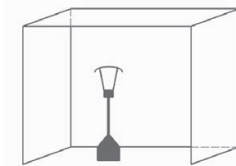
1. Shut off gas to the appliance.
2. Extinguish any open flame.
3. If odour continues, immediately call your gas supplier or the Gas Emergency Service.

### ***FOR YOUR SAFETY***

1. Do not store or use petrol or other flammable vapours or liquids in the vicinity of this or any other appliance .
2. An LP cylinder not connected for use shall not be stored in the vicinity of this or any other appliance .

## **WARNING**

- 1) For use outdoors or in amply ventilated areas.
- 2) An amply ventilated area must have a minimum of 25 % of the surface area open.
- 3) The surface area is the sum of the walls' surface.



**WARNING:** Improper installation, adjustment, alteration, service or maintenance can cause injury or property damage. Read the installation, operating and maintenance instructions thoroughly before installing or servicing this equipment.

## **WARNING**

### ***Read the instructions before installation and use.***

- This appliance must be installed and the gas cylinder stored in accordance with the regulations in force.
  - Do not obstruct the ventilation holes of the cylinder housing.
  - Do not move the appliance when in operation.
  - Shut off the valve at the gas cylinder or the regulator before moving the appliance.
  - The tubing or the flexible hose must be changed within the prescribed intervals.
  - Use only the type of gas and the type of cylinder specified by the manufacturer.
- The LP tank used with your patio heater must meet the following requirements:
- Purchase LP tanks only with these required measurements:  
(31.8cm) (diameter) x 58cm) (tall) with 15kg capacity maximum.
- In case of violent wind particular attention must be taken against tilting of the appliance. Keep the appliance at least 1m from the gas cylinder.
  - The injector must be installed by the manufacturer only.
- Do not connect the gas cylinder directly to the appliance without regulator. Use only the type of gas and the type of cylinder specified in the instructions.

A regulator (which complies with EN16129:2013 is needed) of the correct pressure corresponding to the appliance category.

Use 30mbar regulator for butane/propane under the category I3B/P(30).

Use 30mbar regulator for butane under the category I3+(28-30/37).

Use 37mbar regulator for propane under the category I3+(28-30/37).

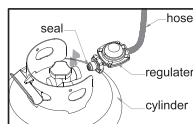
Use 50mbar regulator for butane/propane under the category I3B/P(50).

It's recommended to use flexible hose that is approved under EN16436:2014.

# CAUTION

## PLEASE READ CAREFULLY THE FOLLOWING SAFETY GUIDELINES BEFORE OPERATION.

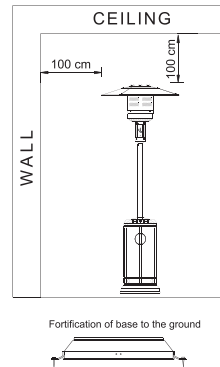
- Do not use the patio heater for indoors, as it may cause personal injury or property damage.
- This outdoor heater is not intended to be installed on recreational vehicles and/or boats.
- Installation and repair should be done by a qualified service person.
- Improper installation, adjustment or alteration can cause personal injury or property damage.
- Do not attempt to alter the unit in any manner.
- Never replace or substitute the regulator with any regulator other than the factory-suggested replacement.
- Do not store or use petrol or other flammable vapours or liquids in the heater unit.
- The whole gas system, hose, regulator, pilot and burner should be inspected for leaks or damage before use, and at least annually by a qualified service person.
- All leak tests should be done with a soap solution. Never use an open flame to check for leaks.
- Do not use the heater until all connections have been leak tested.
- Turn off the gas valve immediately if smell of gas is detected. Turn Cylinder Valve OFF. If leak is at Hose/Regulator connection: tighten connection and perform another leak test. If bubbles continue appearing should be returned to hose's place of purchase. If leak is at Regulator/Cylinder Valve connection: disconnect, reconnect, and perform another leak check. If you continue to see bubbles after several attempts, cylinder valve is defective and should be returned to cylinder's place of purchase.
- Do not transport heater while it's operating.
- Do not move the heater after it has been turned off until it has cooled down.
- Keep the ventilation opening of the cylinder enclosure free and clear of debris.
- Do not paint the radiant screen, control panel or top canopy reflector.
- Control compartment, burner and circulation air passageways of the heater must be kept clean. Frequent cleaning may be required as necessary.
- The LP tank should be turned off when the heater is not in use.
- Check the heater immediately if any of the following occurs:
  - The heater does not reach temperature.
  - The burner makes a popping noise during use (a slight noise is normal when the burner is extinguished).
  - Smell of gas in conjunction with extreme yellow tipping of the burner flames.
- The LP regulator/hose assembly must be located out of pathways where people may trip over it or in area where the hose will not be subject to accidental damage.
- Any guard or other protective device removed for servicing the heater must be replaced before operating the heater.
- Adults and children should stay away from high temperature surface to avoid burns or clothing ignition.
- Children should be carefully supervised when they are in the area of the heater.
- Clothing or other flammable materials should not be hung on the heater or placed on or near the heater.
- Change the gas cylinder in a amply ventilated area, away from any ignition source (candle, cigarettes, other flame producing appliances...).
- Check that the regulator seal is correctly fitted and able to fulfill its function, as shown in the photo (right).
- Do not obstruct the ventilation holes of the cylinder housing.
- Close the gas supply at the valve of the gas cylinder or the regulator after use.
- In the event of gas leakage, the appliance shall not be used or if alight, the gas supply shall be shut off and the appliance shall be investigated and rectified before it is used again.
- Check the hose at least once per month, each time the cylinder is changed and before using the heater after a long time without use.
- The use of this appliance in enclosed areas can be dangerous and is PROHIBITED.
- Read the instructions before using this appliance. The appliance must be installed in accordance with the instructions and local regulations.
- For connection of hose and regulator, and connection of regulator and hose, please refer to photo showed above.



Hose/ Regulator connection and  
Regulator / Cylinder connection

## HEATER STAND AND LOCATION

- The heater is for outdoor use only. Always ensure that adequate fresh air ventilation is provided.
- Always maintain proper clearance to combustible materials, i.e. top 100 cm and sides 100 cm minimum.
- Heater must be placed on level firm ground.
- Never operate heater in an explosive atmosphere like in areas where petrol or other flammable liquids or vapours are stored.
- To protect heater from strong wind, anchor the base securely to the ground with screws (optional).



## GAS REQUIREMENTS

- Use propane or butane gas only.
- The pressure regulator and hose assembly to be used must conform to local standard regulations.
- The installation must conform to local regulations, or in the absence of local regulations, with the standard for the storage and handling of liquid petroleum gases.
- A dented, rusted or damaged propane tank may be hazardous and should be checked by your tank supplier. Never use a propane tank with a damaged valve connection.
- The propane tank must be arranged to provide for vapour withdrawal from the operating cylinder.
- Never connect an unregulated propane tank to the heater.

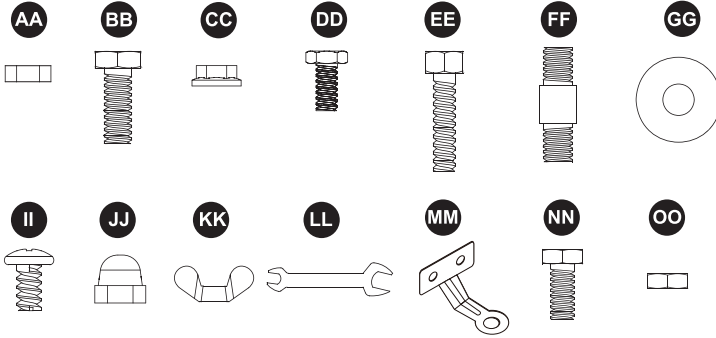
## LEAKAGE TEST

Gas connections on the heater are leak tested at the factory prior to shipment. A complete gas tightness check must be performed at the installation site due to possible mishandling in shipment or excessive pressure being applied to the heater.

- Make a soap solution of one part liquid detergent and one part water. The soap solution can be applied with a spray bottle, brush or rag. Soap bubbles will appear in case of a leak.
- The heater must be checked with a full cylinder.
- Make sure the safety control valve is in the OFF position.
- Turn the gas supply ON.
- In case of a leak, turn off the gas supply. Tighten any leaking fittings, then turn the gas supply on and re-check.
- Never leak test while smoking.



# HARDWARE

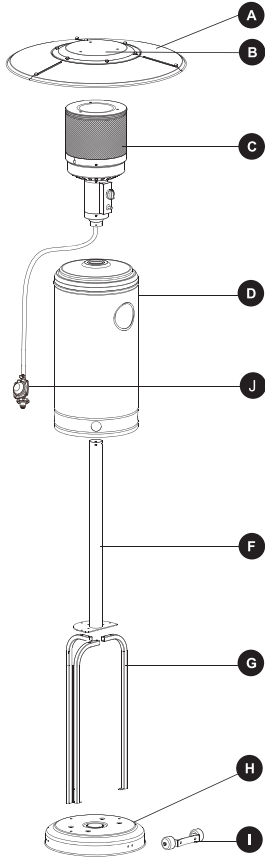


Item	Description	Qty
AA	M8 Flange Nut (packed with part I)	2
BB	Bolt M8x16 (2pcs packed with part I)	5
CC	M6 Flange Nut	6
DD	Stainless Steel Bolt (pre-assembled on part C)	4
EE	Bolt M6x30	6
FF	Reflector Spacer	3
GG	Washer	9
II	Screw M6x10	9
JJ	Cap Nut	9
KK	Wing Nut	3
LL	Wrench	1
MM	Anchoring Arm	3
NN	Bolt M6x10	6
OO	M6 Nut	6

Before beginning assembly of product, make sure all parts are present. Compare parts with package contents list and hardware contents list. If any parts are missing or damaged, do not attempt to assemble the product.

Estimated Assembly Time: 30 minutes

# PARTS AND SPECIFICATIONS



Item	Description	Qty
A	Reflector Panel	3
B	Center Reflector	1
C	Burner Assembly	1
D	Tank Housing	1
F	Post	1
G	Support Bracket	3
H	Base	1
I	Wheel Assembly	1
J	Regulator (optional)	1

### A. Construction and characteristics

- Transportable terrace/garden heater with tank housing
- Casing in steel with powder-coating or stainless steel
- Heat emission from reflector

### B. Specifications

- Use propane, butane or their mixtures gas only.
- Max. wattage: 13000 watts
- Min. wattage: 5000 watts
- Consumption:

APPLIANCE CATEGORY:	I <sub>3</sub> +(28-30/37)		I <sub>3B</sub> /P(30)	I <sub>3B</sub> /P(50)	I <sub>3B</sub> /P(37)
TYPES OF GAS:	Butane	Propane	Butane, propane or their mixtures	Butane, propane or their mixtures	Butane, propane or their mixtures
GAS PRESSURE:	28-30mbar	37 mbar	30 mbar	50mbar	37mbar
OUTLET PRESSURE OF REGULATOR:	30mbar	37 mbar	30 mbar	50mbar	37mbar

- Using the proper regulator according to outlet pressure of regulator as showed in the table above.

### C. Table of injector

APPLIANCE CATEGORY:	I <sub>3</sub> +(28-30/37)		I <sub>3B</sub> /P(30)	I <sub>3B</sub> /P(50)	I <sub>3B</sub> /P(37)
TYPES OF GAS:	Butane	Propane	Butane, propane or their mixtures	Butane, propane or their mixtures	Butane, propane or their mixtures
GAS PRESSURE:	28-30mbar	37 mbar	30 mbar	50mbar	37mbar
TOTAL HEAT INPUT (Hs): (Qn)	13kW (G30:945g/h; G31:929g/h)				
INJECTOR SIZE:	1.90 mm for main burner 0.18 mm for pilot burner			1.70 mm for main burner 0.18 mm for pilot burner	1.80 mm for main burner 0.18 mm for pilot burner

The marking, for example, 1.90 on the injector, indicates that the size of injector is 1.90mm






- The hose and regulator assembly must conform to local standard codes.
- Regulator outlet pressure should meet the corresponding gas category in the table of injector.
- The appliance requires approved hose in 1.4m length.

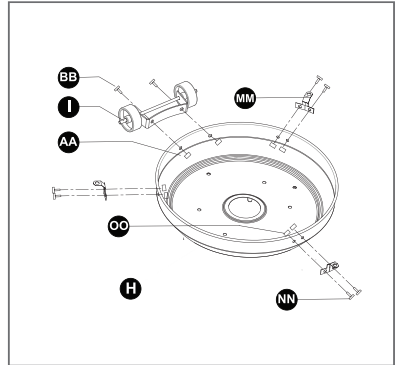
# ASSEMBLY INSTRUCTIONS

## Step 1

Turn the base upside down, then attach wheel assembly (I) to base (H) using 2pcs M8 flange nuts (AA) and 2pcs bolts M8x16 (BB). Attach 3pcs anchoring arm (MM) to base (H) using 6pcs M6 nuts (OO) and 6pcs bolt M6x10 (NN). Be sure that the wheel assembly is parallel to the base. Tighten bolts securely.

### Hardware Used


<b>AA</b>	M8 Flange nut		x 2
<b>BB</b>	Bolt M8x16		x 2
<b>MM</b>	Anchoring Arm		x 3
<b>NN</b>	Bolt M6x10		x 6
<b>OO</b>	M6 Nut		x 6

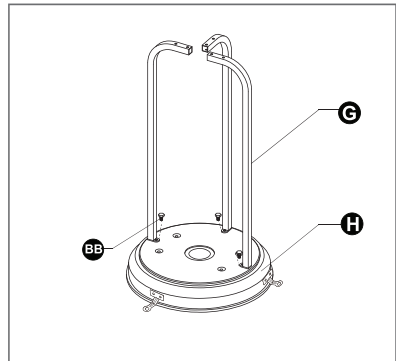


## Step 2

Attach 3 pcs support brackets (G) to base (H) using 3 pcs bolts M8x16 (BB).

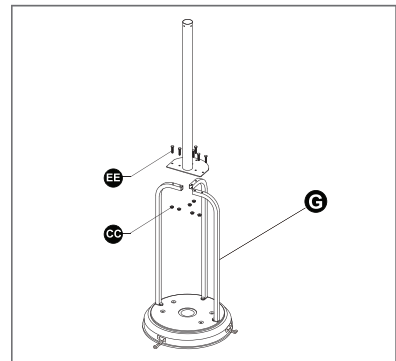
### Hardware Used

<b>BB</b>	Bolt M8x16		x 3
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


## Step 3

Attach post assembly to support brackets (G) using 6pcs bolts M6 X 30 (EE) and 6pcs M6 flange nuts (CC). Tighten bolts securely.



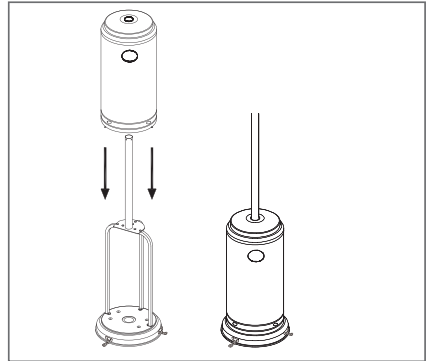
### Hardware Used

**CC** M6 Flange nut  x 6

**EE** Bolt M6x30  x 6

### Step 4

Load tank housing onto post, slide tank housing down.



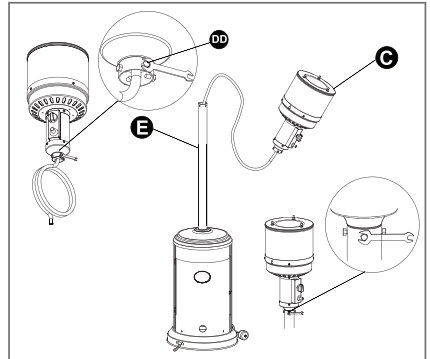
### Step 5

Remove the 4 pcs preassembled stainless steel bolts (DD) from the burner assembly (C).

Insert the gas hose from the top end of the post (F), then attach the burner assembly (C) to post (F) using the four bolts removed at the beginning of this step. Tighten bolts securely.

### Hardware Used

**DD** Stainless steel bolt  x 4



### Step 6

**WARNING:** Remove protective cover before assembling.

Note: Necessary for proper alignment of reflector sections.

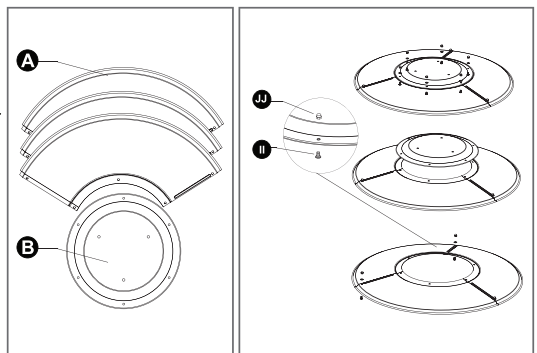
Attach 3 pcs reflector panels (A) to center reflector (B) using 9 pcs Screws M6x10 (II) and 9 pcs cap nuts (JJ).

Fully tighten all of the screws.

### Hardware Used

**II** Screw M6 X 10  x 9

**JJ** Cap nut  x 9






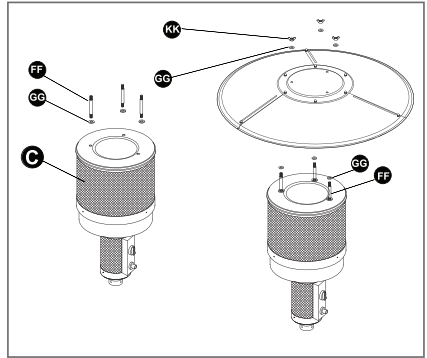
# ASSEMBLY INSTRUCTIONS

## Step 7

Attach 3 pcs reflector spacers (FF) and 3 pcs washers (GG) to burner assembly (C) firstly. Tighten the reflector spacers. Slide 3pcs washers (GG) over threaded end of spacer. Attach the reflector assembly to the top of reflector spacer (FF) using 3 pcs washers (GG) and 3 pcs wing nuts (KK).

### Hardware Used

- FF** Reflector spacer  x 3
- GG** Washer  x 9
- KK** Wing nut  x 3

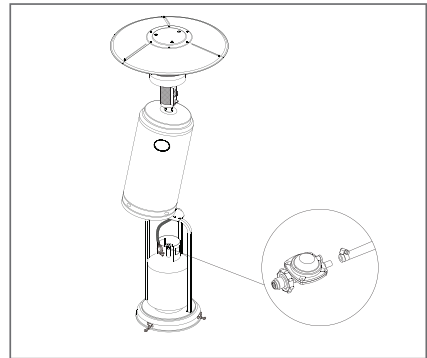


## Step 8

Connect the gas hose and regulator using clip and tighten with screwdriver. Attach the regulator to the gas cylinder and tighten with spanner.



**WARNING!** Ensure the hose does not contact any high temperature surfaces, or it may melt and leak causing a fire.



# LEAK CHECK

**WARNING!** A leak test must be performed annually and each time a cylinder is hooked up or if a part of the gas system is replaced.

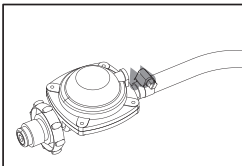
**WARNING!** Never use an open flame to check for gas leaks. Be certain no sparks or open flames are in the area while you check for leaks. Sparks or open flames will result in a fire or explosion, damage to property, serious bodily injury, or death.

**Leak testing:** This must be done before initial use, annually, and whenever any gas components are replaced or serviced. Do not smoke while performing this test, and remove all sources of ignition. See Leak Testing Diagram for areas to check. Turn all burner controls to the off position. Turn gas supply valve on.

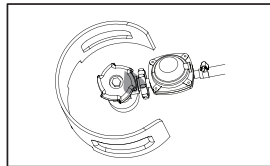
Brush a half-and-half solution of liquid soap and water onto all joints and connections of the regulator, hose, manifolds and valves. (As step 6 where arrows show )

Bubbles will indicate a gas leak. Either tighten the loose joint or have the part replaced with one recommended by the Customer Care department and have the patio heater inspected by a certified gas installer.

If the leak cannot be stopped, **immediately shut off the gas supply**, disconnect it, and have the patio heater inspected by a certified gas installer or dealer. Do not use the patio heater until the leak has been corrected.



Hose / Regulator connection



Regulator / Cylinder connection

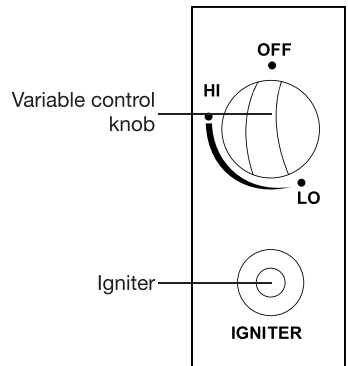
# OPERATION

Before performing a leak test, be sure that no sparks can occur and you are in a spacious outdoor area. Connect the propane gas tank to the regulator and turn the valve on the unit to the “off” position. Brush a soap and water mixture on all connections. Turn the gas supply on; if bubbles occur on any connection there may be a leak. **If you smell gas or a leak is discovered turn the gas valve off, disconnect propane gas tank and do not use the appliance until the leak is repaired.**

Do not use the heating unit without inspecting the gas hose. If there are signs of wear or abrasion you must replace the hose (if applicable).

## To Light

1. Turn on the valve on the gas supply cylinder.
2. Press and turn the variable control knob to the ‘HI’ position.
3. Press down the variable control knob and hold for 3-5 seconds.
4. While holding down the variable control knob, press the igniter button several times until the burner head flame ignites. Release the variable control knob 30 seconds after the ignition.
5. If a new tank has just been connected, allow at least one minute or more for the air in the gas pipeline to purge out.
6. The flame can be watched and checked from the viewing hole located on the base of the burner.
7. Turn the variable control knob to the ‘LO’ position for 5 minutes or more before turning the knob to desired temperature setting. If a small flame is needed, turn the variable control knob to the ‘LO’ position.
8. If the burner flame goes out accidentally or it is blown out by wind, turn off the heater and wait at least 5 minutes or more to let the gas dissipate before lighting again to avoid possible gas explosion. Repeat steps 2 through 4.



When lit for the first time the heater may emit a slight odour and smoke. This is a normal and temporary condition. Emitter screen will become a bright red due to the heat. The colour is more visible at night. Flame patterns should be a blue flame; these flames should not be yellow in colour, indicating an obstruction of airflow through the burners.

## To Extinguish

1. Turn control knob clockwise to the “OFF” position.
2. Close the cylinder valve on the propane gas tank if you don’t intend to use it for a long time.

# MAINTENANCE

- Before performing any maintenance always disconnect propane gas tank.
- Keep the heating item free and clear from combustible materials.
- Visually inspect burner for obstructions and keep tank enclosure free and clear from debris.
- Use a soft brush to get rid of the mild stains, loose dirt and soil after the burner is completely cooled down. Wipe down with a soft cloth.
- Harsh weather conditions may cause stubborn stains, discoloration and possibly rust pitting.
- Permanent damage may occur if powder or solvent comes in contact with painted or plastic components on this heating unit.
- Keep the heating unit stored away from direct sunlight.
- If storing this unit inside, disconnect the propane gas tank from the gas valve.
- Not using manufacturer approved or supplied parts/accessories may result in a defective condition and void the warranty of this heating unit.
- Always place lid (if applicable) or protective cover on heating item once cooled and when not in use.

# TROUBLESHOOTING

Problem	Cause	Solution
The burner will not light.	The burner injector is clogged.	Clean the burner injector.
	There is low gas supply pressure.	Call your gas supplier.
The burner flame goes off immediately after ignition.	There is low gas pressure.	Call your gas supplier.
The ignition is delayed.	The main burner carryover ports are clogged.	Clean the main burner ports.
	There is low gas pressure.	Call your gas supplier.
The combustion on the burner is inadequate.	There is not enough air.	Check the air passageways and burners for dirt and debris, and clean with compressed air.
The burner flame is low.	The supply hose is bent or twisted.	Straighten the hose and perform a leak test.
	There is blockage in the burner injector.	Clean or replace the burner injector.
The emitter glows uneven.	There is blockage in the burner injector.	Clean or replace the burner injector.
	The base is not on a level surface.	Place the heater on a level surface.
	The gas pressure is low.	Replace the cylinder with a new cylinder.
There is slight smoke and odour during initial operation.	This is residue from the manufacturing process.	This will stop after approximately 30 minutes of operation.
There is thick black smoke.	There is blockage in the burner.	Turn off the heater and let it cool. Remove the blockage and clean the inside and outside of the burner.
The heater produces a whistling noise when the burner is lit.	Air passageways are blocked.	Check the minimum installation clearances and air passageways for debris.
	There is air in the gas line.	Operate the burner until the air is completely purged.
The heater produces a clicking noise just after the burner is lit or turned off.	The metal is expanding and contracting.	This is common with heaters. If noise is excessive, contact a qualified service person.
There is a gas odour even when the control knob is in the OFF position.	There is a gas leak.	Locate and correct the leak immediately.
	The gas control is defective.	Replace the gas control.
There is a gas odour during combustion.	There is foreign matter in the gas or on the burner ports.	Check the gas passageway and burner.
	The heater is burning vapours from paint or impurities in the air.	Stop storing and using odour causing products near the heater.
	There is gas leaking from the regulator and hose connection, the valve and pipe connections, and the pipes.	Locate and correct the leaks, or contact your gas supplier.
There is carbon build-up.	There is dirt or film on the reflector and flame screen.	Clean the reflector and flame screen.





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