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**Toplovodni
kotao/
Water heating
boiler**

**SERIJE C
SERIES C**



INSTRUKCIJE/ INSTRUCTION MANUAL

Montaža, korišćenje i održavanje kotla/ Assembly, use and maintenance of heating boiler

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1. OSNOVNE TEHNIKE KARAKTERISTIKE KOTLA

Kotao je zavarene robusne konstrukcije sa dvostrukim zidom tako da su obilivene sve površine koje su u dodiru sa plamenom i vrelim gasovima. Izrađen je od ugljeni nog elika za kotlovske limove debljine 5 mm.

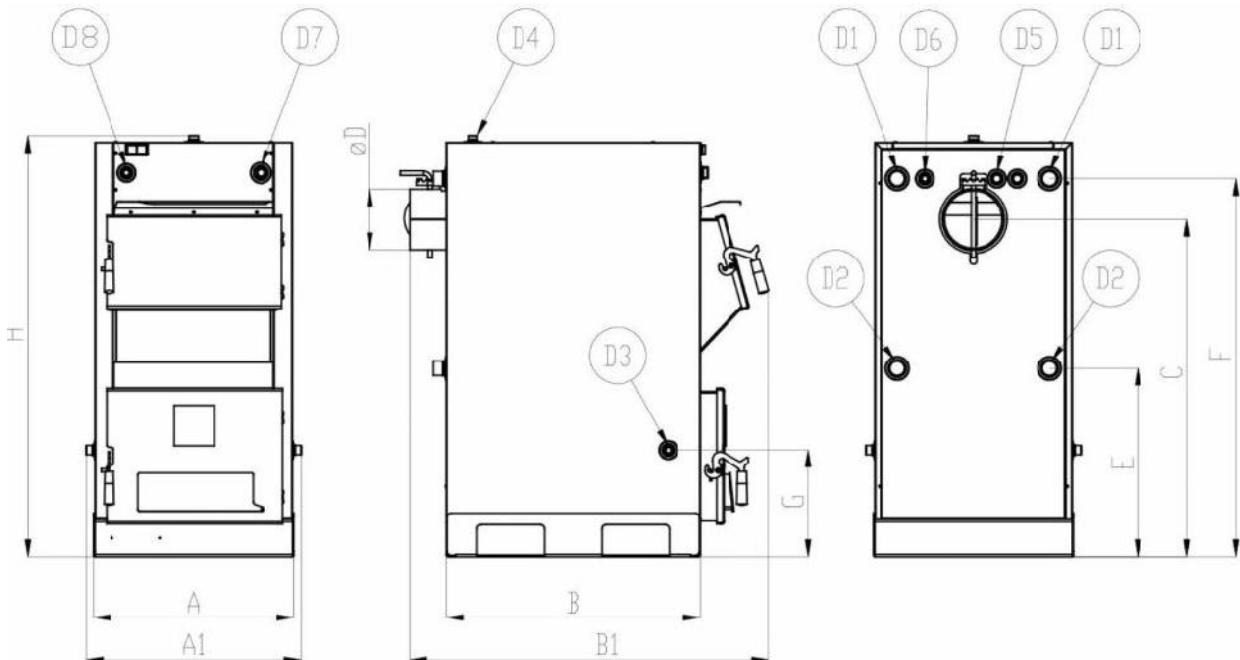
Visoka pouzdanost u radu kao i dug i kvalitetan rad kotla obezbeđen su najnovijim postupcima zavarivanja (kako ručnim tako i zavarivanjem na robotu) i tehnologijama rezanja metala gde se upotrebljavaju mašine sa numeričkim određenim putanjama. Ispitivanje svakog kotla na curenje je dvostruko i vrši se na specijalnim hidrauličkim napravama i uređajima.

Konstrukcija **SERIJE C** svojim rasporedom unutrašnjih izmenjivačkih površina obezbeđuje tzv. tri promaje, tri zone unutar kotla sa razliitim termodinamickim karakteristikama. Na ovaj način je dobijen visok stepen iskorišćenja na vrsta goriva. Po principu sagorevanja ovo je kotao sa gornjim sagorevanjem pa daje izuzetno najbolje rezultate pri radu sa granulisanim ugljevima, koksom, drvenim otpadom. Postoji mogunost prelaska na te no gorivo ugradnjom gorionika na donjim vratima.

Rost kotla su rešetke od sivog livenog gvozda debljine 40mm. Njihovim zagrevanjem se ne može povećati temperatura u ložištu,ime se smanjuje mogućnost kondenzacije. Vrata kotla su zavarene konstrukcije sa vatrostalnim izolacionim materijalom debljine 30mm. Na svakoj veličini kotla **SERIJE C** vrata za loženje i vrata za potpalu su široka koliko i ložište pa je znatno olakšano i loženje i uklanjanje kotla. Iste širine je i pepeljara.

Kotao poseduje i specijalno izrađenu komoru koja služi za razmenu toplote u slučaju priključenja ventila za termičko osiguranje oticanjem.

TOPLOVODNI KOTLOVI SERIJE "C"



Prikazući:

- D1 - Priklužak za toplu vodu iz kotla
- D2 - Priklužak za hladnu vodu kotla
- D3 - Priklužak za punjenje i pražnjenje
- D4 - Priklužak za sigurnosnu grupu
- D5 - Priklužak za ventil termi kog osiguranja oticanjem
- D6 - Priklužak za sondu ventila termi kog osiguranja
- D7 - Priklužak za regulator promjene
- D8 - Priklužak za manometar ili za sondu gorionika

| Tip kotla | Snaga | Radni pritisak | Probni pritisak | Kolicina vode | Masa kotla | Potrebna promjena |
|-----------|-------|----------------|-----------------|---------------|------------|-------------------|
| | kW | kPa | kPa | Litara | kg | Pa |
| C25 | 25 | 300 | 450 | 68 | 262 | 20 |
| C33 | 33 | 300 | 450 | 88 | 336 | 20 |
| C40 | 40 | 300 | 450 | 105 | 353 | 20 |
| C50 | 50 | 300 | 450 | 153 | 409 | 25 |

| Tip kotla | DIMENZIJE | | | | | | | | | | | | | | | | | |
|-----------|-----------|-----|-----|------|------|-----|-----|------|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|
| | A | A1 | B | B1 | C | ØD | E | F | G | H | D1 | D2 | D3 | D4 | D5 | D6 | D7 | D8 |
| | mm | | | | | | | | | | | | | | | col | | |
| C25 | 490 | 530 | 685 | 990 | 1000 | 180 | 555 | 1120 | 300 | 1230 | 1 | 1 | 1/2 | 1/2 | 1/2 | 1/2 | 3/4 | 1/2 |
| C33 | 595 | 640 | 755 | 1065 | 1000 | 180 | 555 | 1120 | 315 | 1250 | 5/4 | 5/4 | 1/2 | 1/2 | 1/2 | 1/2 | 3/4 | 1/2 |
| C40 | 645 | 690 | 755 | 1065 | 1000 | 180 | 555 | 1120 | 315 | 1250 | 5/4 | 5/4 | 1/2 | 1/2 | 1/2 | 1/2 | 3/4 | 1/2 |
| C50 | 710 | 740 | 770 | 1085 | 1110 | 200 | 625 | 1260 | 260 | 1365 | 5/4 | 5/4 | 1/2 | 3/4 | 1/2 | 1/2 | 3/4 | 1/2 |

2. MONTAŽA KOTLA

Kotao mora biti postavljen na betonsko postolje visine oko 100 mm u odnosu na pod prostorije. Kotao mora biti tako postavljen da bude omogu en pristup kotlu sa svih strana radi iš enja i održavanja.

Za normalan rad kotla potrebno je dovo enje svežeg vazduha u kotlarnicu. Veli ina otvora na kotlarnici mora biti minimalnih dimenzija 200mm x 200 mm.

Za normalan rad kotla potrebno je da dimnjak bude propisanih karakteristika i izra en od samotnih cevi propisanog pre nika.

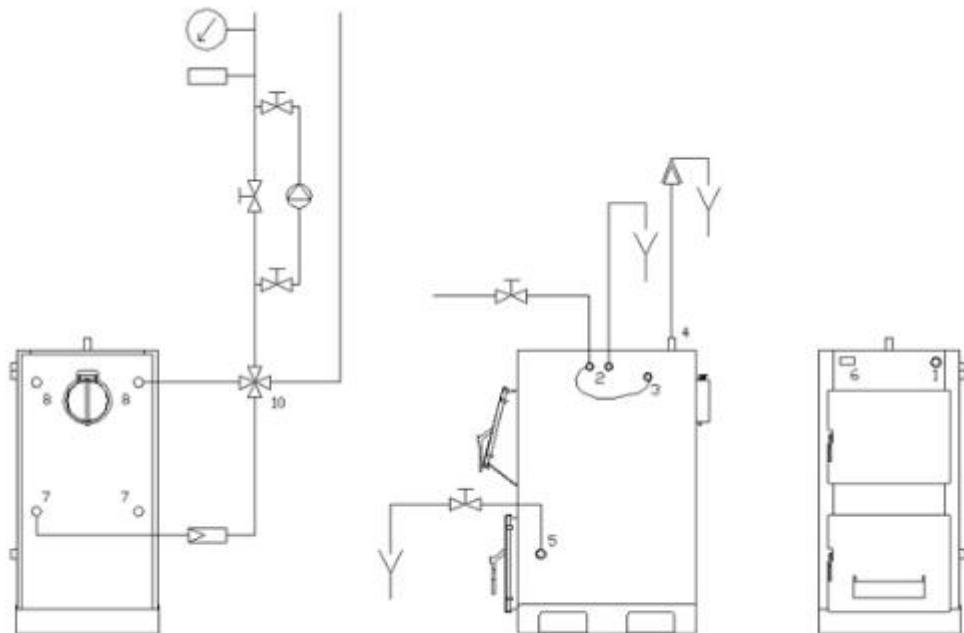
Izlaz na dimnjaci mora se uspinjali prema dimnjaku, a eventualne krivine ne smeju biti oštih uglova. U suprotnom dolazi do nepotpunog sagorevanja i vra anja dima u kotlarnicu.

Kotao i instalacija moraju biti opremljeni odgovaraju im sigurnosnim ure ajima.

NAPOMENA:

ZA OVU KONSTRUKCIJU KOTLA OBAVEZNA JE UGRADNJA MEŠAJU EG VENTILA I NAJNIŽA RADNA TEMPERATURA 70°C. OVIM SE POSTIŽE NAJVIŠI MOGU I STEPEN ISKORIŠ ENJA IZ OVE KONSTRUKCIJE, NAJBOLJE SAGOREVANJE I ELIMINIŠE SE LOŠ UTICAJ KONDENZACIJE, IME SE POVE AVA VEK TRAJANJA KOTLA.

Šema priključenja kotla na sistem centralnog grejanja



LEGENDA:

Raspoloživi priključci prilikom montaže kotla na sistem centralnog grejanja su:

1. Priključak za regulator promjene
2. Priključak za termometar osiguranje oticanjem (ulaz i izlaz)
3. Priključak za sondu ventila termičkog osiguranja oticanjem
4. Priključak za sigurnosni vod (odzraka i ventil sigurnosti)
5. Priključak za punjenje i pražnjenje
6. Termometar
7. Priključak za povratni vod
8. Priključak za potisni vod
9. Skupljačne iste
10. Ventil za mešanje tvorokraki
11. Ventil
12. Cirkulaciona pumpa
13. Sonda
14. Termometar
15. Manometar
16. Razvodni vod
17. Povratni vod

Napomena:

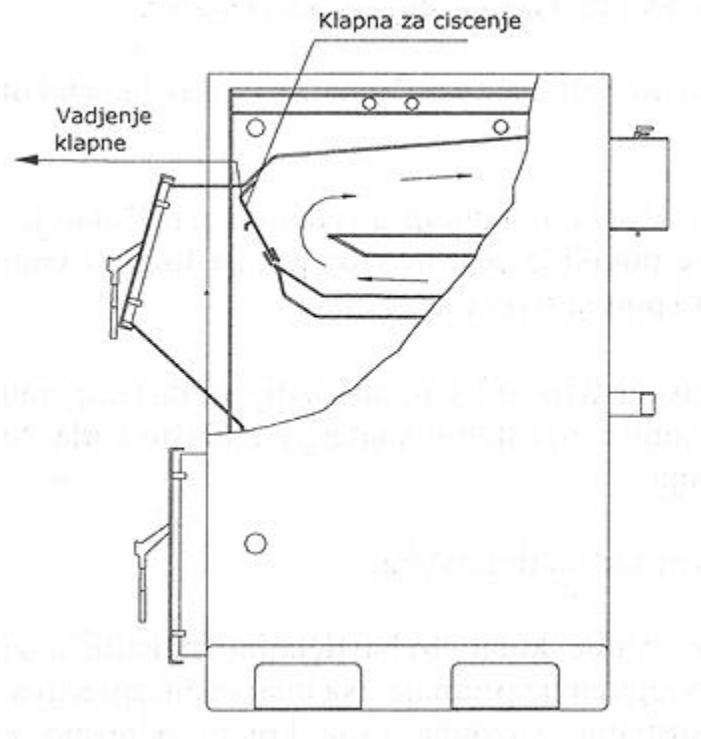
OBAVEZANA JE UGRADNJA VENTILA SIGURNOSTI NA ODVOJENOM PRIKLJUČKU KUĆNE ZAŠTITNOG VODA. U SUPROTNOM NE PRIZNAJEMO GARANCIJU, NITI PRIHVATAMO DA SNOSIMO BILO KAKVE NEŽELJENE POSLEDICE NEPRAVILNOG PRIKLJUČKA KOTLA.

3. LOŽENJE KOTLA

Kod prvog loženja moraju se ispuniti sledeći uslovi:

- dimnjak i njegov odvod moraju biti isti i u dobrom stanju,
- klapna za regulisanje promaje u dimnom prikluju mora biti otvorena,
- klapna za iskrene mora za sve vreme dok je kotao u funkciji da bude u svom radnom položaju koji je prikazan na skici. Jedini izuzetak je slučaj ako postoji problem dimljenja prilikom potpaljivanja kotla. Onda je moguće klapnu za iskrene izvaditi iz kotla, ostaviti tridesetak minuta da se kotao sa smanjenom promajom razgori i zagreje dimnjak, a onda pažljivo vratiti klapnu za iskrene. Dimnjak zagrejati sa malom količinom goriva jer u slučaju velike vatre prilikom varanja klapne za iskrene lože se izlaže opasnosti,
- kotao mora imati instalirane sve sigurnosne uređaje za sistem centralnog grejanja,
- prilikom potpale kotla koristiti donja vrata, a onda kada se vatra razgori, kotao ložiti kroz gornja ložišta vrata,
- prilikom rada kotla sva vrata moraju biti zatvorena,
- za loženje kotla upotrebljavati strogo suvo drvo, da bi se izbeglo rošenje u kotlu.

Pri prelasku rada kotla na ložiliste na donjim vratima, koja služe za potpalu, moguće je namontirati gorionik i na kotlu odgovarajuću automatiku.



4. PAŽNJA!

Preniska temperatura polazne i povratne vode uti e na pojavu kondenzacije, što direktno uti e na vek trajanja kotla. U ekstremnim slu ajevima može do i do stvaranja kondenza koji se može meriti litrima, pa kad kondenz iscuri posumnja se da kota o curi. Kondenz u sebi ima i sumpornu kiselinu koja se stvara tako što se sumpor izdvoji iz produkta sagorevanja. Sumporna kiselina prouzrokuje koroziju lima. Ta ka rošenja zavisi od vrste goriva, atmosferskog pritiska i vlažnosti vazduha i kre e se u intervalu od 45°C-50°C. Zbog toga moramo paziti da kod rada kotla povratna voda nikada ne padne ispod 55°C. Kotao nije koristan za nisko-temperatumi rad. Posebno treba obratiti pažnju da kota o nije ugra en na sistem neodgovaraju eg kapaciteta, jer e do i do podhladivanja i kondenza. Ako je kota o obložen katranom i a i slab je prenos topote pa e, takode, do i do podhladivanja i kondenza.

Kondenzaciju u kotlu mogu e je izbe i:

1. propisno izabranim dimnjakom,
2. propisnim na inom loženja i propisnom vrstom goriva,
3. pravilnim održavanjem kotla i dimnjaka, a naro ito,
4. upotrebom etvorokrakog mešaju eg ventila.

5. ODRŽAVANJE KOTLA

Prilikom koriš enja vrstog goriva u kotlu se nataloži, realtivno brzo, sloj a i i katrana. Zato se preporu uje svakodnevno iš enje pepela i ložišta.

Kod iš enja moramo dovesti ve u koli inu svežeg vazduha u kotlarnicu da ne bi došlo do ugušavanja loža a.

Obavezno je temeljno iš enje jednom u sedam dana. Kotao je takve konstrukcije da je mogu e izmenjiva ke površine o istiti kroz gornja ložišna vrata. Klapna za iš enje se pomeri iz svog ložišta i potpuno izvadi iz kotla.

Kada se kota o detaljno o isti treba jedan sat ložiti ja e da temperatura u kotlu dostigne 85°C što doprinosi sagorevanju a i i štetnih materija u ložištu kotla. Na taj na in kota o e imati bolji stepen iskoriš enja.

Preporu ujemo redovni nadzor dimni ar a.

Po prestanku grejne sezone kota o treba detaljno o istiti, a zatim zatovruti sva vrata uklju uju i i vratanca regulacije promaje. Na ovaj na in spre ava se da i u letnjem periodu dimnjak ne pravi strujanje vazduha kroz kota o, odnosno eliminiše se mogu nost podhladivanja krajeva izmenjiva kih kutija i efekat rošenja. Eventualno rošenje kotla i u letnjem periodu negativno uti e na vek trajanja.

Garancija

1. Radijator Inženjering d.o.o pokriva garancijski period od 60 MESECI samo ako su ispunjeni slede i uslovi garancije:

- 1.1. Kotao mora biti priklju en po navedenim hidrauli kim šemama iz tehni kog uputstva,naro ito obratiti pažnju na sigurnosne ventile,termi ko osiguranje oticanjem, mešaju i ventil za zaštitu hladnog kraja kotla odnosno protiv kondenzacije, opseg radnog pritiska kotla, opseg radne temperature kotla,uslove u kotlarnici itd.
- 1.2. Kotao mora biti priklju en na dimnjak propisanog popre nog preseka, karakteristika izolacije i visine.
- 1.3. Dimovod od kotla do dimnjaka mora mora biti izведен po tehni kom uputstvu.
- 1.4. Korisnik mora da se pridržava navedenih uputstava o koriš enju i održavanju.

2. Garancijska izjava

Izjavljujemo:

- da proizvod ima propisana i deklarisana kvalitetna svojstva.
Obavezujemo se, da smo na zahtev kupca ako pravovremeno u garancijskom roku podnese zahtev za popravku, o svakom trošku izvršiti sve popravke kvarova, tako da će proizvod raditi u skladu sa deklarisanim svojstvima,
- da će proizvod u garancijskom roku raditi besprekorno ako se budu poštovala uputstva za upotrebu, rad i montažu,
- da smo u garancijskom roku biti spremni da otklonimo sve kvarove na proizvodu i držati na zalihama sve potrebne rezervne delove,
- **garancijski rok po inje od DANA KUPOVINE I TRAJE 60 MESECI ILI 72MESECA OD DATUMA PROIZVODNJE (datum proizvodnje nalazi se na nalepnici sa zadnje strane kotla)**
- **garancija važi ako je garantni list overen od strane prodavca i ako je upisan datum kupovine i priložen ra un.**

3. Garancijski period od godinu dana važi za slede e delove:

- opeka u ložištu,
- livena rešetkasta vratanca,
- liveni rost-rešetka.



4. Garancijski rok ne važi:

- kod kvarova koje je na inio kupac zbog nestru nog rukovanja proizvodom,
- kod mehani kih kvarova na injenih prilikom transporta i prilikom koriš enja(vrsti predmeti),
- ako je proizvod instaliran nestru no, suprotno važe im propisima iz tog podru ija,
- ako je kupac koristio proizvod iznad deklarisanih svojstava i u normalnim okolnostima,
- ukoliko se utvrdi da hidrauli ka šema nije ura ena po preporukama firme „Radijator Inženjering d.o.o”,
- ukoliko se utvrdi da kotao u toku koriš enja nije redovno održavan i iš en,

5. Garancijski rok prestaje da važi:

- ako se ustanovi da je kvarove otklanjala neovlaš ena osoba ili neovlaš eni servis,
- ako kod popravke nisu bili upotrebljeni i ugra eni originalni delovi,
- kad isti e garancijski rok.

6. Kod prijave kvarova obavezno je dati slede e podatke:

- naziv i tip proizvoda,
- datum kupovine,
- fabri ki ili radioni ki broj kamina,
- kratak opis kvara, odnosno nedostatka,
- ta nu adresu i kontakt telefon, mejl.

1. BASIC TECHNICAL CHARACTERISTICS OF BOILER

The boiler is in robust welded construction with double shell wall so that all surfaces are suffused that are in contact with flame or hot gases. It is made of carbon steel boiler plate of the thickness of 5 mm.

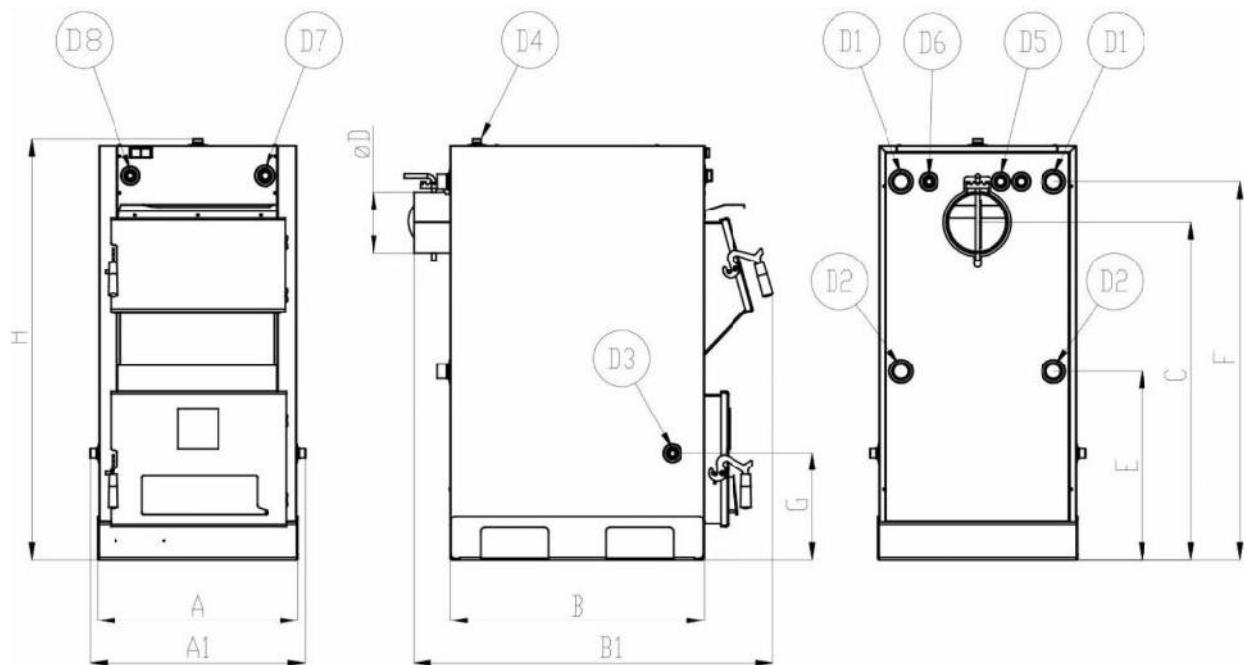
High reliability in operation as well as a long and high quality operation are provided by the latest boiler welding procedures (both manually and by means of robot welding) and technology of metal cutting by numerically controlled machines used for certain cutting patterns. Examination of each boiler for leakage is double one, being performed on the special hydraulic devices.

Construction of **Series C**, with its interior heat-exchanging surfaces secures the so-called three drafts, three zones inside the boiler with different thermodynamic properties. In this way high efficiency of solid fuel is obtained. According to the principle of combustion, this a boiler with upper combustion so it gives the very best results when working with granulated coal, coke, wood waste. There is a possibility of transition to liquid fuel burner by the installation of the burner on the lower door.

Boiler base are the grates made of gray cast iron 40mm thick. By their heating forced temperature is increasing in the furnace thus reducing the possibility of condensation. Boiler doors are of welded type with boiler refractory insulating material of the thickness of 30mm. Each size of **Series C Boiler**, the door for starting fire and the door fuel input are as wide as the furnace itself, so it is very easy to fuel and clean the boiler. The ashtray is of the same width.

The boiler also has a specially designed chamber that serves for heat exchange in case of connecting the valve to ensure thermal outlet.

HOT WATER BOILERS OF SERIES "C"



Connections:

- D1 - Connection for hot water from boiler
- D2 - Connection for cold water of boiler
- D3 - Connection for filling and emptying boiler
- D4 - Connection for safety group
- D5 - Connection for thermal valve insurance swelling
- D6 - Connection for probe of thermal valve insurance swelling
- D7 - Connection for draft regulator
- D8 - Connection for manometer or probe for burner

| Type of boiler | Power kW | Working Pressure kPa | Test pressure kPa | Volume of water in the boiler L | Mass of boiler kg | Requirement air flue Pa |
|----------------|----------|----------------------|-------------------|---------------------------------|-------------------|-------------------------|
| C25 | 25 | 300 | 450 | 68 | 262 | 20 |
| C33 | 33 | 300 | 450 | 88 | 336 | 20 |
| C40 | 40 | 300 | 450 | 105 | 353 | 20 |
| C50 | 50 | 300 | 450 | 153 | 409 | 25 |

| Type of boiler | Dimensions | | | | | | | | | | | | | | | | | |
|----------------|------------|-----|-----|------|------|-----|-----|------|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|
| | A mm | A1 | B | B1 | C | ØD | E | F | G | H | D1 | D2 | D3 | D4 | D5 | D6 | D7 | D8 |
| C25 | 490 | 530 | 685 | 990 | 1000 | 180 | 555 | 1120 | 300 | 1230 | 1 | 1 | 1/2 | 1/2 | 1/2 | 1/2 | 3/4 | 1/2 |
| C33 | 595 | 640 | 755 | 1065 | 1000 | 180 | 555 | 1120 | 315 | 1250 | 5/4 | 5/4 | 1/2 | 1/2 | 1/2 | 1/2 | 3/4 | 1/2 |
| C40 | 645 | 690 | 755 | 1065 | 1000 | 180 | 555 | 1120 | 315 | 1250 | 5/4 | 5/4 | 1/2 | 1/2 | 1/2 | 1/2 | 3/4 | 1/2 |
| C50 | 710 | 740 | 770 | 1085 | 1110 | 200 | 625 | 1260 | 260 | 1365 | 5/4 | 5/4 | 1/2 | 3/4 | 1/2 | 1/2 | 3/4 | 1/2 |

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2. BOILER ASSEMBLY

The boiler must be installed on a concrete base about 100 mm in height from the floor of the room. The boiler must be positioned so that the boiler is easily accessed from all sides for cleaning and maintenance.

For normal operation of the boiler it is necessary to bring fresh air into the boiler room. Air slot size of the boiler room must be of minimum dimensions of 200 mm x 200 mm.

For normal operation of the boiler it is necessary for the chimney to be of the prescribed characteristics and made of coils of the secluded prescribed diameter pipes.

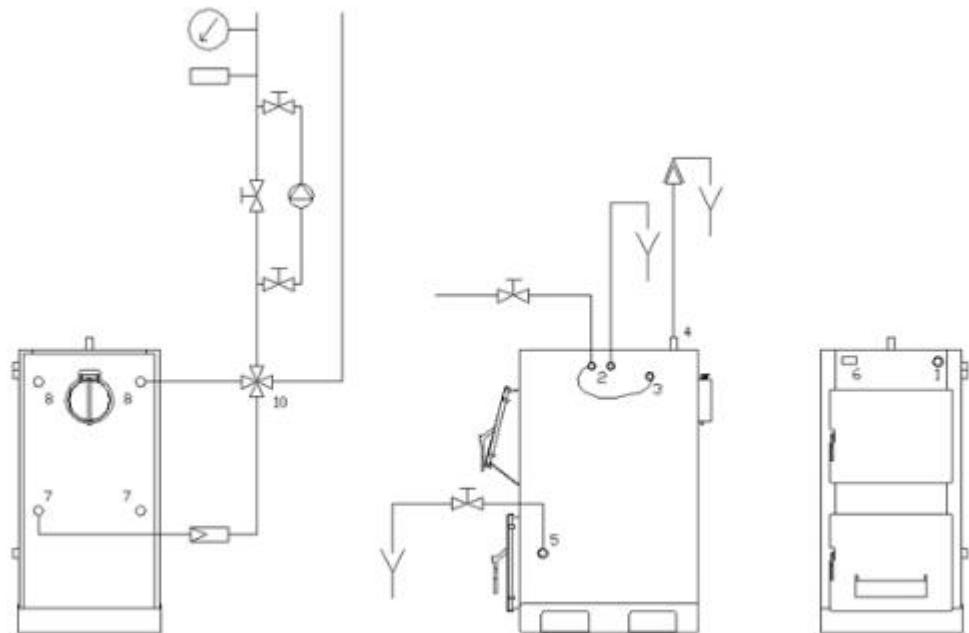
Outlet into the chimney must go up the chimney, and any bend should not be with sharp corners. Otherwise there is incomplete combustion and smoke is going backwards into the boiler room.

The boiler and the installation must be equipped with adequate safety devices.

NOTE:

FOR THIS CONSTRUCTION OF BOILER THE INSTALLATION OF MIXING VALVE IS REQUIRED OPERATING AND THE LOWEST TEMPERATURE OF 70 ° C., THIS RESULTS IN THE HIGHEST POSSIBLE LEVEL OF UTILIZATION IN THIS DESIGN, THE BEST COMBUSTION ELIMINATING THE BAD EFFECT OF CONDENSATION, SO, THE OPERATING LIFE OF BOILER IS INCREASED.

Connection Diagram of Boiler to the Central Heating System



LEGEND

Available connectors during installation of the boiler to the heating system:

1. Connector to control airflow (draught)
2. Connectors for thermal safety by outflowing (input and output)
3. Probe connector of the valves ensuring thermal safety
4. Connector on safety line (irradiation and safety line)
5. Connector for charging and discharging
6. Thermometer
7. Connector for return line
8. Connector for pressure pipe
9. Collector for impurities
10. Mixing valve - four branch
11. Valve
12. Circulation pump
13. Probe
14. Thermometer
15. Manometer
16. Distribution line
17. Return line

NOTE:

INSTALLATION OF SAFETY VALVE IS OBLIGATORY NA SEPARATE - CONNECTION OF PROTECTION LINE. OTHERWISE WE DISCLAIM ANY WARRANTY NOR DO WE ACCEPT ANY LIABILITY FOR ADVERSE CONSEQUENCES FOR WRONG CONNECTING OF BOILER.

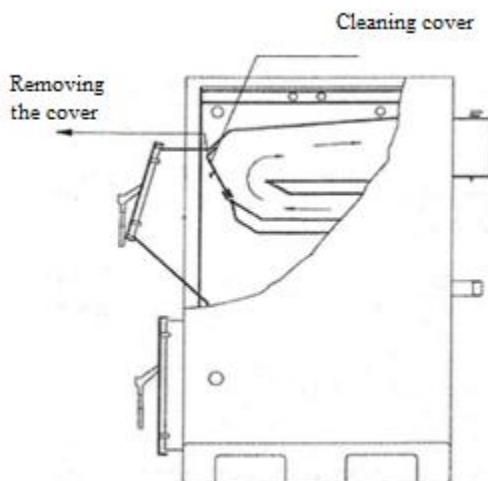
3. FIRING THE BOILER

When firing the boiler for the first time the following conditions must be met:

Chimney and its outlet must be kept clean and in good condition

- Flap for regulating the draft in the flue connection must be open
- Flap for cleaning must, at all times be, while the boiler is in operation, in its working position as shown on the sketch. The only exceptional case is when there is a problem of smoking when firing the boiler. Then the flap is possible to take for cleaning out of the boiler, keeping it in such position for about thirty minutes to leave the boiler with reduced air flow and to heat up the chimney, and then carefully return the flap for cleaning carefully. Warm chimney with a small amount of fuel as, in the case of a big fire, when bringing back the flap for cleaning the boiler operator is in jeopardy. The boiler must have all installed security devices for the central heating system
- when initiating the fire in the boiler use the lower door, and when the fire is developed put the fuel through the upper door.
- When the boiler is in operation all doors must be closed.
- For heating boilers use strictly dry wood, as to avoid condensation in the boiler

When switching the boiler to operate with fuel oil, it is possible to assemble the burner on the lower door, but it is also possible to fit the suitable automation system on the boiler itself.



4. NOTE !

Too low temperature of starting and return water affects the formation of condensation, which directly affects the life of the boiler. In extreme cases, there may lead to condensation which can be measured by liters, so when the condensed matter leaks it is suspected that the tank is leaking. Condensed matter in itself has the sulfuric acid which is formed by the sulfur removed from the products of combustion. Sulfuric acid causes the corrosion of metal. Dew point depends on the type of fuel, air pressure and humidity and varies in the range of 45 ° C -50 ° C. Therefore, we must be careful when the boiler is in operation the return water should never fall below 55 ° C. The boiler is not useful for low - temperature operation. It should be specially noted that the boiler is installed on the system of adequate capacity, because there will come the cooling and condensation. If the boiler is covered with tar and soot the heat transfer is weak and it will, also, cause the cooling of boiler and condensation.

It is possible to avoid the condensation in the Boiler:

- by properly choosing the chimney,
- by prescribed way of firing and prescribed type of combustion fuel,
- by regular maintenance of boiler and chimney, and in particular,
- by using the four-branch mixing valve.

5. MAINTENANCE OF BOILER

When using solid fuel, in boiler, can accumulate, relatively quickly, a layer of soot and tar. Therefore, it is recommended to daily clean the ash from the fireplace.

When cleaning we have to bring a greater amount of fresh air into the boiler room to avoid the suffocating of stoker.

Be sure to thoroughly clean it once every seven days. The boiler is of such construction that it is possible to clean the exchanger surface through upper firing door. Flap for cleaning is moved out from its furnace and is completely removed from the boiler.

When the boiler is thoroughly cleaned, firing fuel to a higher extent is necessary for one so that the temperature reaches 85 ° C, which contributes to the combustion of soot and harmful substances in the firebox of the boiler. In this way, the boiler will have a better efficiency.

We recommend a regular monitoring by the chimney sweeper.

Upon termination of the heating season the boiler should be thoroughly cleaned, and then all doors should be closed including the door for draft regulation. This prevents, in summer season, the air flow through the boiler, i.e. it eliminates the possibility of cooling of ends heat exchanger's boxes and the effect of dew creating. Possible dew creating boiler even in summer affects the life of boiler negatively.

Guarantee

1. Radijator Inženjering d.o.o covers the warranty period of 60 MONTHS only if following warranty conditions are fulfilled:

- 1.1. The boiler must be connected according to the technical diagrams given in technical instructions; special attention should be paid to safety valves, thermal insurance by draining, mixing valve for protection of cold end of the boiler, i.e. for protection against condensation, boiler operating pressure range, boiler operating temperature range, conditions in the boiler room etc.
- 1.2. The boiler must be connected to the chimney with prescribed cross-section, particulars of insulation and height.
- 1.3. The uptake from boiler to the chimney must be done according to the technical instructions.
- 1.4. The owner must follow stated instructions about use and maintenance.

2. Warranty declaration

We declare:

- that the product has prescribed and declared quality characteristics.
We are obliged, at the request of the buyer if such request for repair is submitted in due time and in the warranty period, at our expense, to carry out all repairs of damages, in such way that the product will operate in accordance with declared characteristics,
- that the product will operate without fault during the warranty period if all the instructions for use, operation and installation are followed,
- that in the warranty period we will be ready to eliminate all damages on the product and keep in stock all necessary spare parts,
- **the warranty period starts from the DAY OF PURCHASE AND LASTS 60 MONTHS OR 72 MONTHS FROM THE DATE OF MANUFACTURE (date of manufacture is specified on the label on the back side of the boiler)**
- **the warranty is valid if the warranty sheet is stamped by the seller and if date of purchase is written on it and the bill is enclosed.**



3. Warranty period of one year is valid for the following parts:

- bricks in the burning unit,
- cast iron grill doors,
- cast iron gril

4. Warranty period is not valid:

- for damages caused by the buyer due to poor handling of the product,
- for mechanical damages made during transport and in use (solid objects),
- if the product is unprofessionally installed, contrary to the valid regulations in that area,
- if the buyer has used the product above the declared characteristics and in normal conditions,
- if it is determined that the technical diagram was not done according to the recommendations of the company "Radijator Inženjering d.o.o",
- if it is determined that the boiler was not regularly maintained and cleaned during the use,

5. Warranty period becomes invalid:

- if it is determined that damage has been repaired by unauthorized person or unauthorized service shop,
- if original parts were not used and installed during the repair,
- if warranty period expires.

6. When reporting damages, the following details must be provided:

- name and type of the product,
- date of purchase,
- factory or workshop number of the boiler,
- brief description of malfunction, i.e. the shortcoming,
- exact address and contact phone number, e-mail.

GARANTNI LIST / GUARANTEE LIST

Tip kotla / Boiler type

Fabrički broj / Factory No.

Garantni rok / Guarantee period

60 MESECI/ 60 MONTHS

**Datum proizvodnje /
Date of manufacture**

**Potpis ovlašćenog lica /
Signature of Authorized person**

pečat / stamp

Prodato u firmi / Company of Sale

Adresa / Address

Telefon / Phone

Datum prodaje / Date of Sale

Potpis / Signature

*Potrošač ima sva prava na osnovu Zakona o zaštiti potrošača ("Sl.glasnik RS", br. erbia62/2014). Garancija ne isključuje niti utiče na prava potrošača koja proizilaze iz zakonske odgovornosti prodavca za nesaobzirnost robe u ugovoru./ The consumer shall exercise all rights under the Consumer Protection Law ("OJ of RS" No 62/2014). The guarantee does not exclude nor affect the consumer's rights derived from the legal liability of the seller for any lack of conformity of the goods under a Contract.