

# SENKO

*For a perfect warm home!*

## INSTRUCTION MANUAL - INSTALLATION

### CENTRAL HEATING COOKERS



- C-20
- C-25
- C-30
- C-35
- C-20 PREMIUM
- C-25 PREMIUM
- C-35 PREMIUM



*For a perfect  
warm home!*



**Dear client, thank you for choosing a SENKO cooker!**

This product was designed and manufactured to it's finest details in order to fulfill your every need for functionality and safety.

With the help of Instruction manual - INSTALLATION you will learn to correctly install the product, and using the Instruction manual - HANDLING you will learn to use the product.

Both manuals can be found at <http://en.senko.hr/>, or you can request them at [info@senko.hr](mailto:info@senko.hr).

Senko managment

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## 1. INSTALLATION

Once you have removed packaging from the cooker, it is necessary to **make a detailed inspection in order to determine any potential damages** that might have occurred during transport. Detected damages must instantly be reported to the manufacturer.

In places of any connection points on the cooker (chimney, air inlet), **inspection hatches must be installed for system maintenance and servicing purposes.**

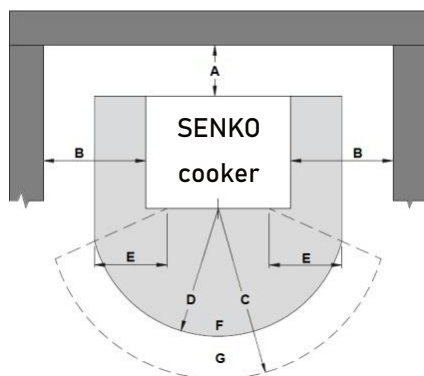
**IMPORTANT! Before you start using your cooker, it is OBLIGATORY to insert the automatic regulator probe into the corresponding connector!**

### 1.1. POSITIONING

**A scale level must be used to place the cooker in a horizontal position with no incline.** It is necessary to ensure **the minimum distance of the cooker from any flammable objects**; such as wood, chipboard, cork and similar. If the materials are easily combustible such as PVC, polyurethane and similar, the necessary safety distances need to be doubled. Before positioning adjust the height according to chapter 1.7.

**The minimum distance from any flammable surfaces** above is 1000 mm and in front of the cooker is 800 mm, and 50 mm in all other directions.

When mounting the cooker on the floor made from easily combustible material (**wooden floors**), the cooker must be **mounted on an insulating non-combustible surface.**



A	50 mm from the rear wall
B	50 mm from the side wall
C	800 mm from the front side
D	500 mm floor protection
E	50 mm (measured from the maximum angle of firebox door)
F	Floor protection
G	Radiation area

**A cooker should not be placed in rooms where there are gas stoves or cookers, and in the bathroom, in buildings intended as laundries or similar.** The same applies for **rooms or flats with air circulation or hot air circulation with ventilation systems (air condition, extractor or kitchen hoods), EXCEPT** if such ventilation systems have safety mechanisms, which sustain the air pressure above 4 Pa in a room, where the cooker is mounted or in rooms which are in direct contact with exterior air.

**It is recommended to place the cooker as close as possible to the chimney hole, i.e. next to the chimney hole itself in order to avoid using an additional smoke uptake pipe (Figure 1a)!**

If you want to place the cooker **between the kitchen elements**, it is necessary to **ensure the safety distances** (spacing between the cooker and the kitchen element intended for air circulation - cooling) **depending on the temperature durability shown in the certificate of the material used to make the kitchen element.**

Here also you should take care on how to ensure **access to a cooker for maintenance and servicing.**

## 1.2. CHIMNEY PREPARATION AND CONTROL

Prior to cooker mounting, it is necessary to check the chimney – the diameter, height, possible clogging or damages. The chimney must be **certified by an authorized local chimney-sweeper**. The effective **chimney height** must be **at least 5 meters** from the point of flue gases outlet (*Figure 1c*).

Flue draught must be within parameters:

- for C-20  $\Rightarrow 13 \pm 2$  Pa,
- for C-30  $\Rightarrow 15 \pm 2$  Pa,
- for C-25  $\Rightarrow 13 \pm 2$  Pa,
- for C-35  $\Rightarrow 15 \pm 2$  Pa,

The chimney must be **at least 0,5 meters above the roof ridge**. The minimum distance between the two connections on the same chimney must be **60 cm** (*Figure 1d*).

Chimney diameter is chosen according to information provided by the chimney manufacturer – e.g., for flue draught of 15 Pa, the diameter is usually 160 mm.

**The chimney must be smooth on the inside, well insulated and well fastened.** All cleaning hatches must be well fastened. All gaskets must be regularly inspected and replaced when necessary.

## 1.3. CONNECTING TO CHIMNEY

When connecting the cooker to the chimney it is necessary to ad here to local, national and European regulations (norms) – **DIN 4705**.

It is necessary to ensure that **the connection between the cooker and the chimney is executed tightly and impermeably**. Smoke outlet pipe must have a **suitable incline** (minimum 3°) in cases where the cooker is removed from the chimney opening.

Smoke outlet pipe must not penetrate into the chimney clear opening (*Figure 1b*).

**It is not allowed to reduce the prescribed pipe diameters!**

Differences between the proper and improper connection of the cooker to the chimney are displayed in the following figure.

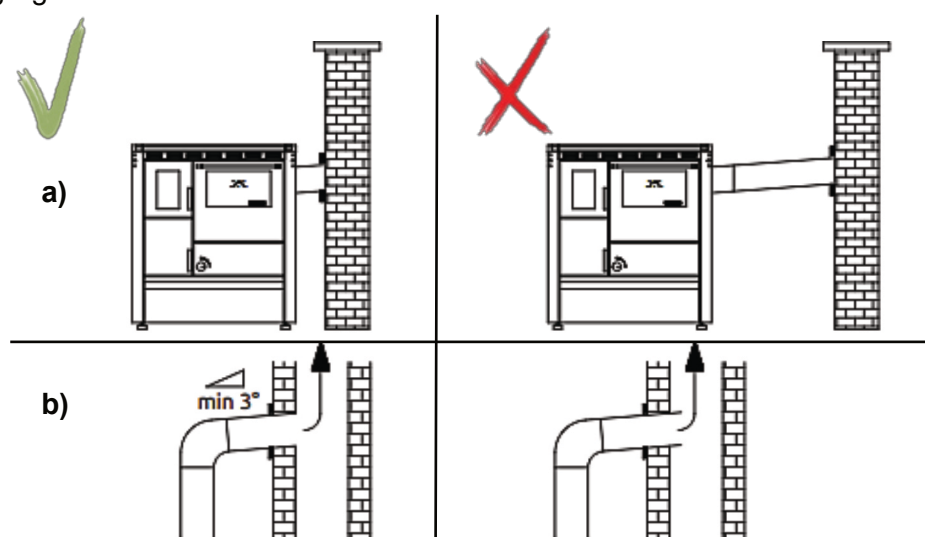
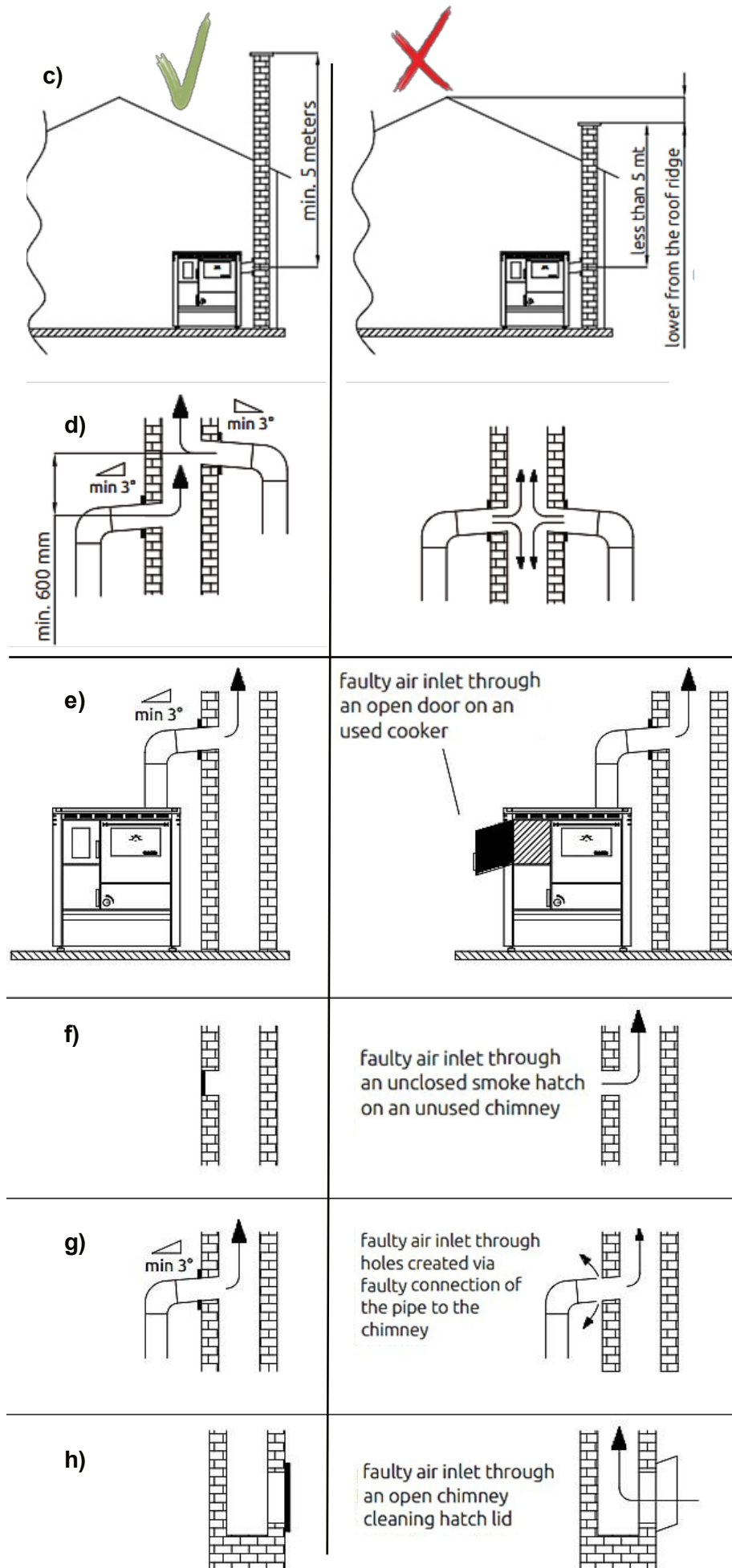


Figure 1

Differences between the proper and improper connection of the cooker to the chimney



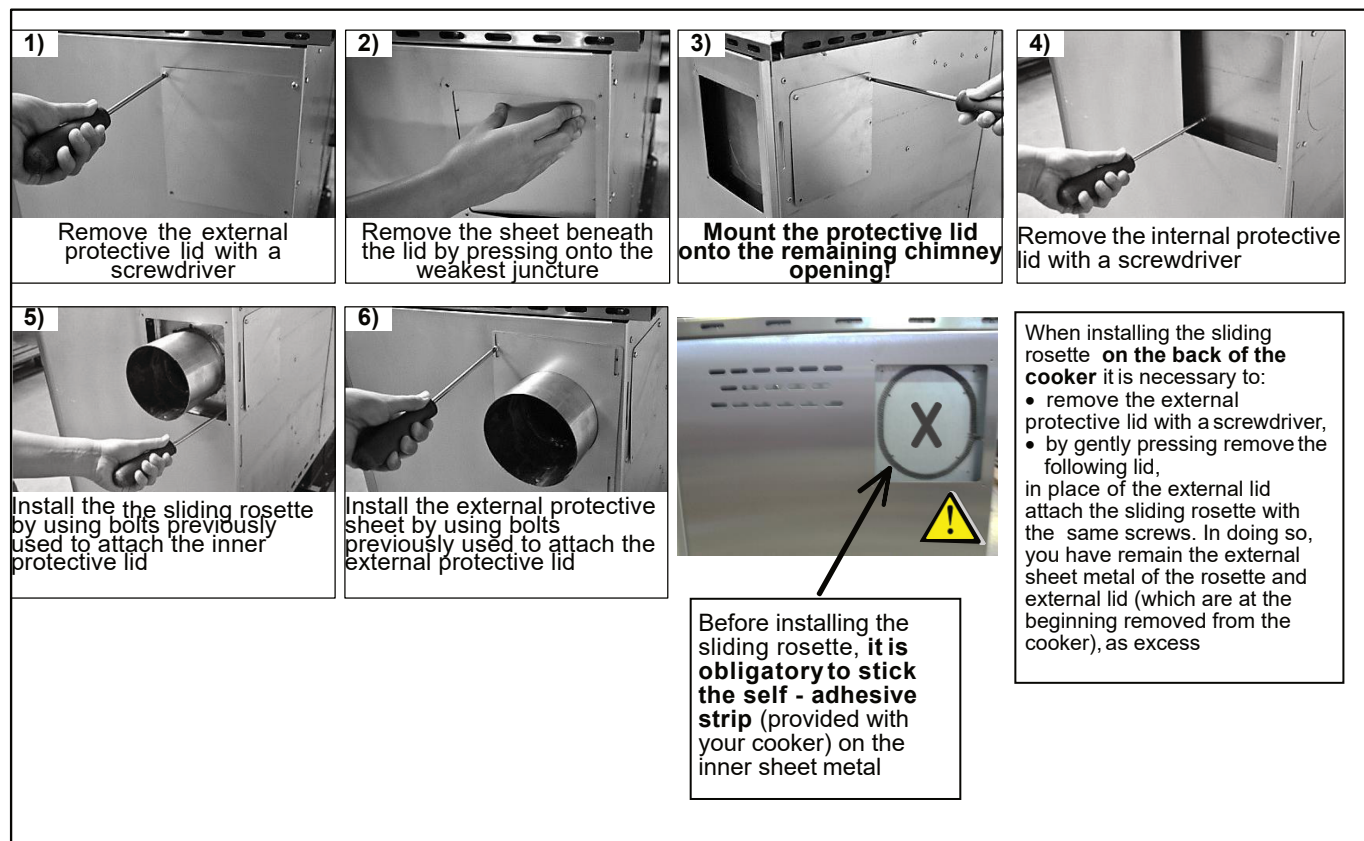
**Figure 1**

**Differences between the proper and improper connection of the cooker to the chimney**

Connect the cooker to the chimney **using a sliding rosette of 130 mm, 140 mm or 150 mm** in diameter. Specially designed sliding rosette enables the adjustment of the chimney opening in tolerance of 1,5 cm upwards, i.e. downwards.

In case it is necessary to connect the cooker to the chimney **with vertical uninsulated pipe**, use the smoke outlet pipe, **up to 125 cm maximum length**. It is not allowed to reduce the prescribed pipe diameters!

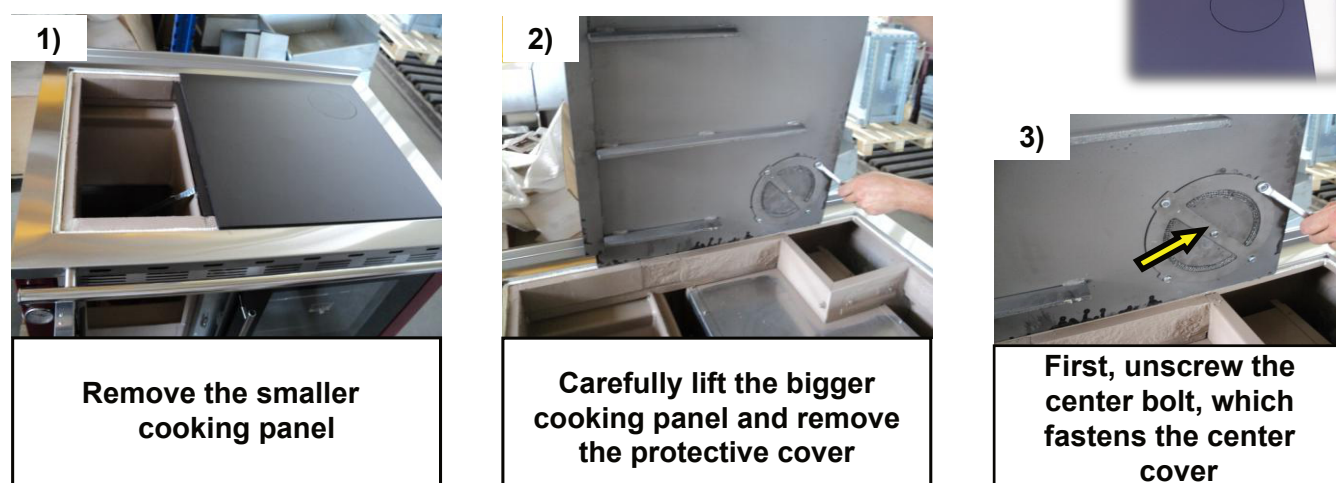
**If the cooker is further removed from the chimney opening**, it is connected via extension tube and an elbow. The extension smoke inlet pipe must have an appropriate incline (see Figure 1) and must not exceed 100 cm in length. The connection of the chimney and the smoke inlet pipe must be completely fastened!

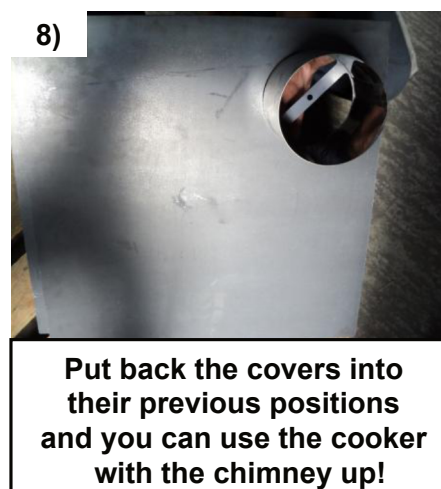
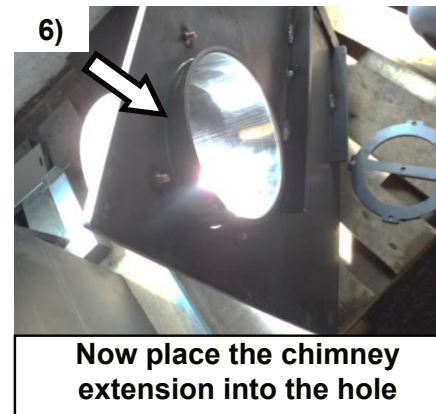
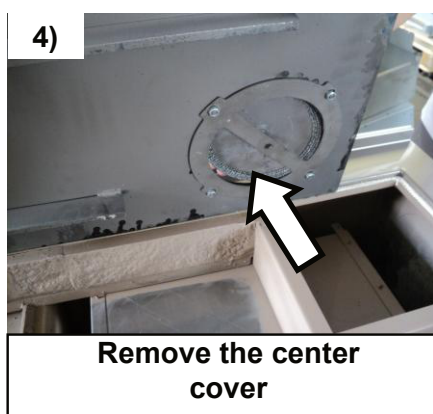


**Figure 2**

### Installation process of sliding rosette

#### 1.3.1 CONNECTING TO THE CHIMNEY FROM THE UPPER PART OF THE COOKING PANEL - available on models C25, C25 Premium, C35 and C35 Premium





**IMPORTANT:** before re-tightening of the bolts, place the seal that you received with the cooker!

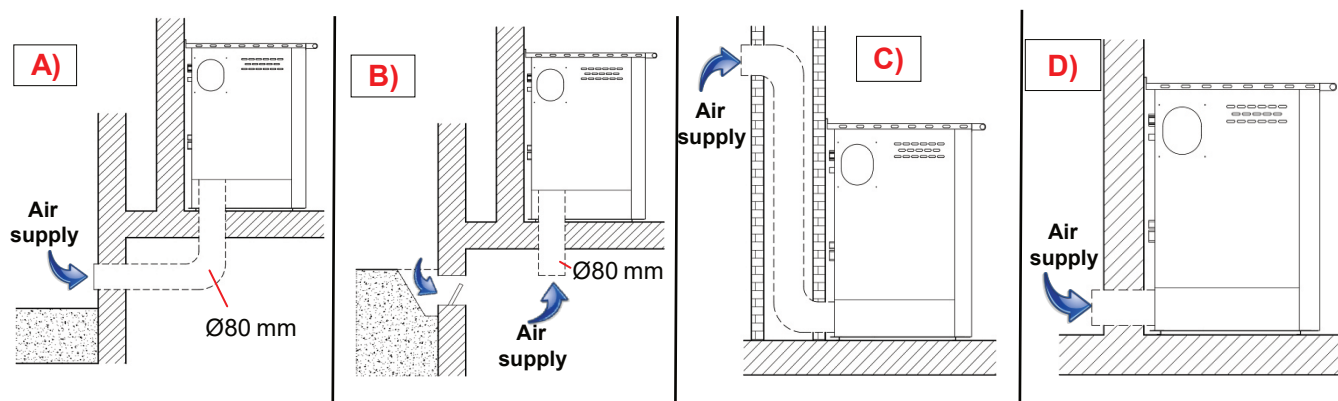
#### 1.4. FRESH AIR VENTS

The room where the cooker is installed **must be provided with sufficient air inflow to ensure combustion**. The area must be regularly ventilated.

The fresh air vent must be situated **near the room floor** and allow the inflow of fresh air into the room. **The minimum dimension of the vent must be 6 cm<sup>2</sup> per kW of nominal power** (e.g. for 30 kW  $\Rightarrow$  180 cm<sup>2</sup>  $\Rightarrow$  10 x 18 cm vent).

A pipe can also be installed on the **existing opening Ø120mm on the rear side of the cooker**, for the purpose of entering fresh outside air.

#### **ORIENTEERING** and **SIMPLIFIED** schemes of connecting to the combustion air supply



#### **A) Combustion air supply via pipe line through a basement room**

The combustion air is preheated with this connection option, which is favorable to a clean combustion. The routing in the basement room is easy to make.

#### **B) Combustion air supply via a basement room**

The combustion air is preheated. The basement room must be excluded from the home ventilation system and be open to the outside. High levels of dust and moisture should be avoided.

#### **C) Combustion air supply from above**

An air supply from above may only be performed with tested chimney systems. A chimney calculation is mandatory here!

#### **D) Combustion air supply directly from outdoor**

With an air supply directly through the outside wall, the combustion air is only slightly preheated, which is unfavorable to a clean combustion. There is also the danger of condensation!

**NOTE: This version of the air supply is not recommended!**

#### **Please be aware!**

- A prerequisite for the connection of cooker used in combination with domestic ventilation systems is that the approval of the local qualified chimney sweep is obtained!
- It is not permitted to install cut-off devices in the supply air duct (dampers, sliders, etc.). To prevent air from permanently flowing through the appliance when it is not in use, close the dampers in the appliance.
- Make sure that the outdoor air inlet is protected against blockage by means of a protective grating.
- For the supply air duct to the combustion air connecting piece it is best to use a non-combustible, flexible aluminium hose. Max. length 4 m with 3 bends.
- The supply air duct must be insulated to avoid condensation and must be protected against wind!
- According to the regulations for chimney sweeping and inspection ventilation systems must be checked for blockages once a year by the local qualified chimney sweep. To facilitate this, appropriate inspection doors should be provided. Please consult your local qualified chimney sweep regarding this matter.

## 1.5. OVEN THERMOMETER

Thermometer indicates the oven temperature; this value is informative. **If the oven temperature exceeds 300C, the oven must be partly opened to prevent damage to the thermometer, oven door hinge and oven door.**

**The warranty will be void** in case the damage to the parts listed before occurred from excessive oven temperature.

## 1.6. CENTRAL HEATING SYSTEM CONNECTION

Prior to commencing the firing procedure, the cooker must be connected to waterworks and central heating system and the boiler must be filled with water. **Continuous circulation of water through the boiler** must be ensured. The boiler must be well devoid of air prior to operations commencement.

The pipe installation **must be executed in accordance with valid technical regulations** and DIN 4751 norm – part 1 for open systems and DIN 4751 – part 2 for closed systems, following **professional standards**, and **only by an authorized expert**.

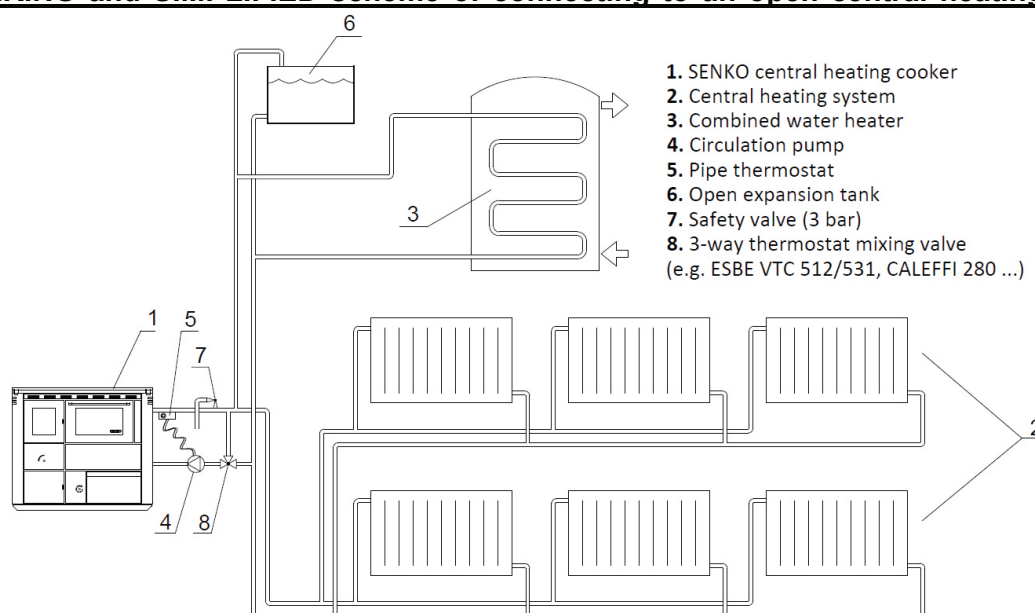
**It is not allowed** to reduce the diameter of the pipe connecting the boiler to the heating installation connection point. Otherwise, the warranty will be void.

Prior to connecting the boiler to the heating installation, **the pipelines are to be thoroughly cleansed from potential filth sediments**. This prevents boiler overheating, system noise, pump malfunctions and mixing valve malfunctions. **The connection to the heating system is executed via union flat joint, with or without the mixing valve** onto an open or closed system.

**Installation of an approved safety valve** with opening overpressure set to 3 bar is mandatory in closed systems.

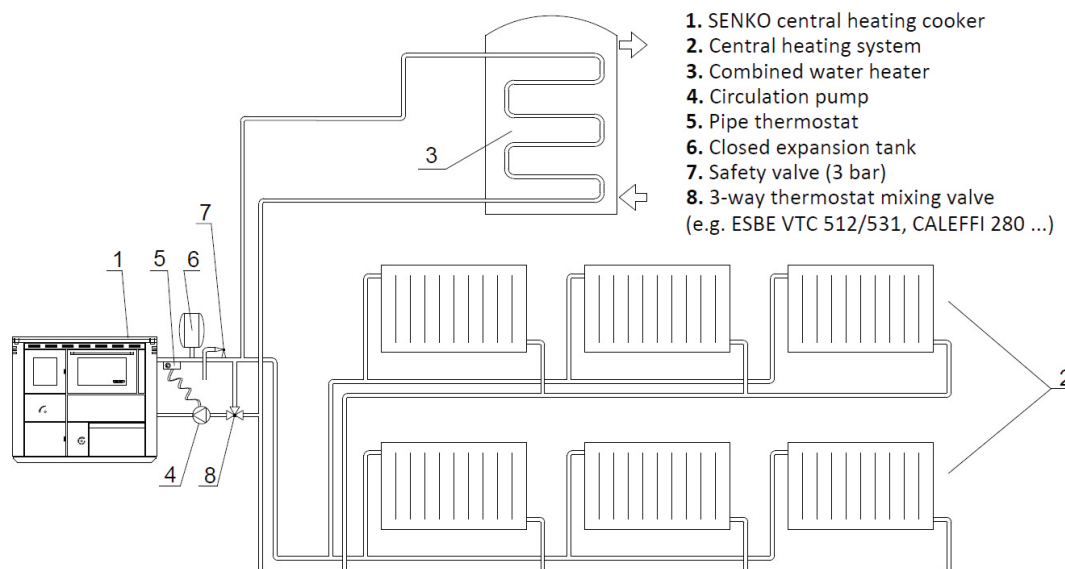
Safety and expansion conduits must not have any kind of block elements.

### **ORIENTEERING and SIMPLIFIED scheme of connecting to an open central heating system**



**Figure 3**

## **ORIENTEERING and SIMPLIFIED scheme of connecting to a closed central heating system**



**Figure 4**

It is necessary to **install the deaerating valve**. When filling the boiler and the radiator system it is necessary to open the mixing valve, if one had been installed; adequately deaerate the boiler and the heating system.

The **mixing valve** (8 – Figure 4) maintains the boiler temperature at **minimum 55°C**, thus preventing the boiler from condensation. If one had not been installed, it is necessary to ensure firing conditions that will prevent boiler condensation □ **pipeline thermostat** (5 – Figure 4) which activates the circulation pump **must not be adjusted to values lower than 55°C!** Condensation may appear at the beginning of the firing process or due to insufficient feeding.

### **1.6.1. COOKER THERMAL PROTECTION**

When connecting the cooker to the central heating system it is **necessary to install the safety thermal valve**. It shall be installed on the **cooker rear side to R3/4" connection point – inner thread** ⇒ see Figures 5 and 6.

**Water outlet into the sewer** (or SW tank – sanitary water) is connected

- R3/4" (7) - figure 5,
- R1/2" (9) - figure 6,

**YOU SHOULD NOT USE THE BOILER IF IT ISN'T FULL OF WATER!**

The **sensor** (probe) of the **safety thermal valve** is connected to the **connection point (5)** ⇒ broken line in Figures 5 and 6.

On the front side of the cooker is the **thermometer (6)** which indicates the boiler **water temperature** which is an **informative value**. This temperature can vary  $\pm 20^{\circ}\text{C}$  and cannot be considered as a real water temperature in boiler.

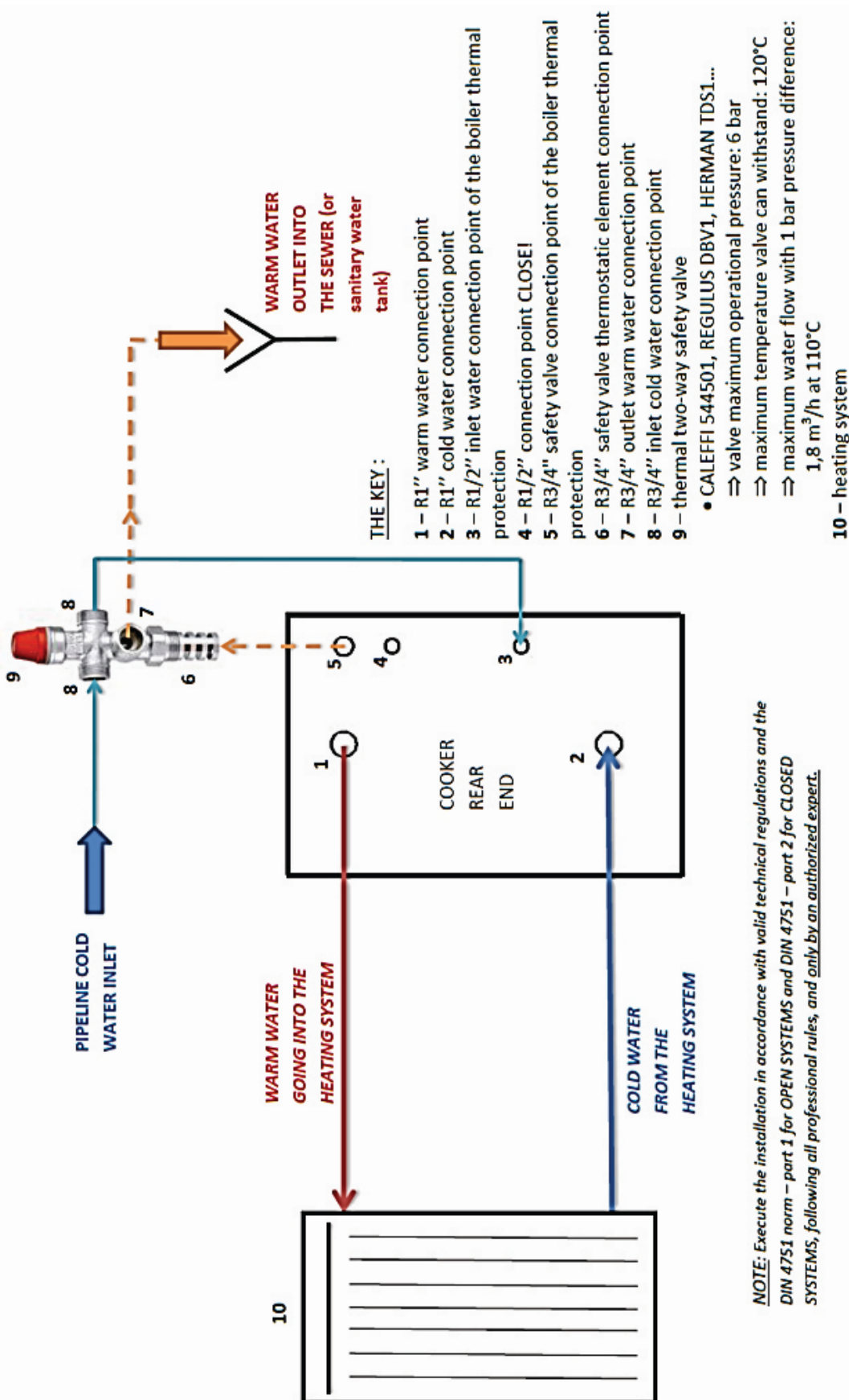
At the outlet of hot water from the boiler, the central heating system must be fitted with **thermo-manometer** which shows the **real water temperature!**

Connection schemes for central heating system are shown in the following figures.

Displayed schemes are for guidance only and do not have the project value!

### 1.6.1.1. THERMAL TWO-WAY SAFETY VALVE

Orientational scheme for connecting cookers to a central heating system with a thermal two-way safety valve



**NOTE:** Execute the installation in accordance with valid technical regulations and the DIN 4751 norm – part 1 for OPEN SYSTEMS and DIN 4751 – part 2 for CLOSED SYSTEMS, following all professional rules, and only by an authorized expert.

Figure 5

### 1.6.1.2. THERMAL SAFETY VALVE

#### Orientational scheme for connecting the cooker to the central heating system with CALEFFI 544400 thermal safety valve

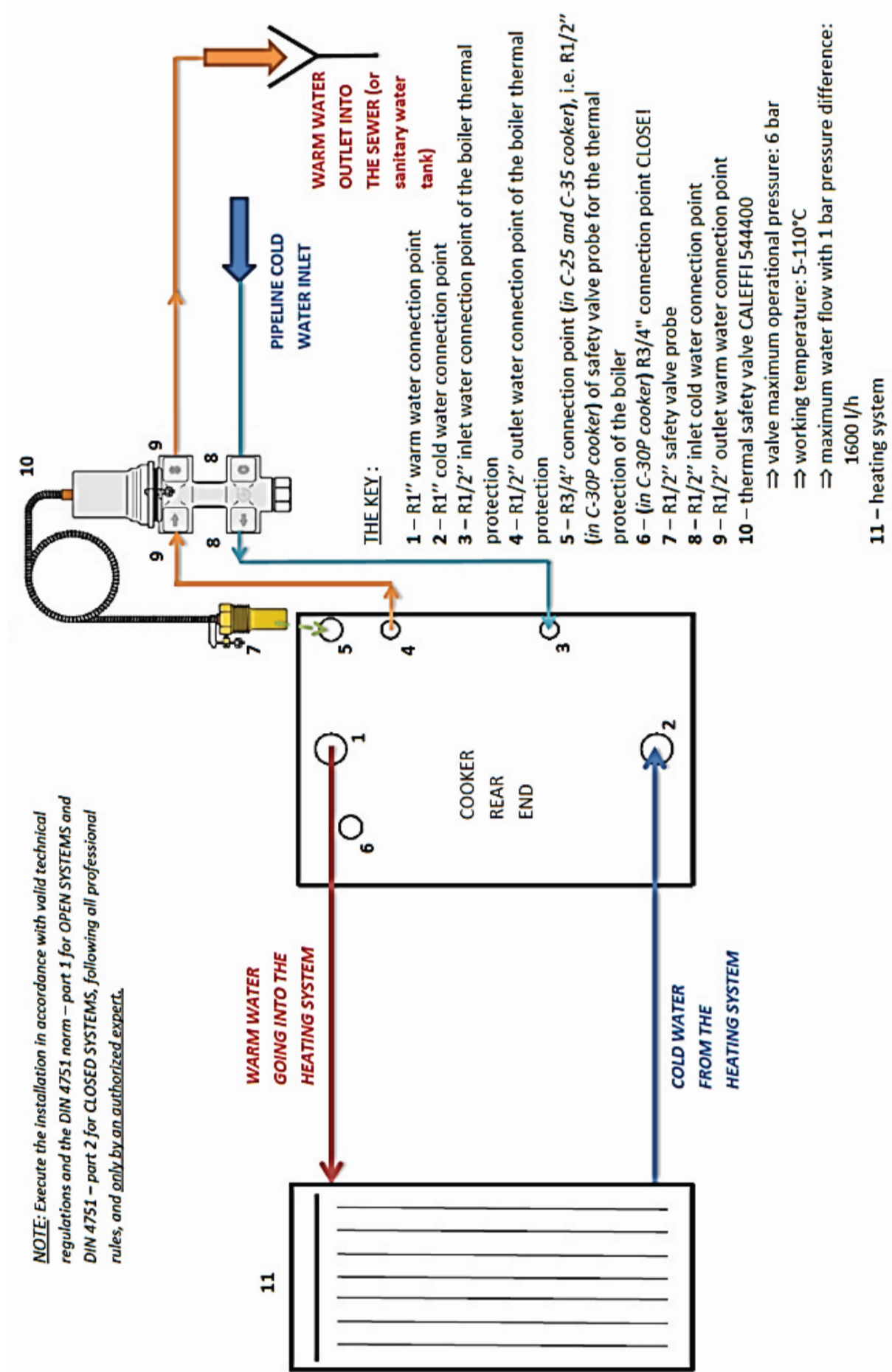


Figure 6

### 1.6.2. INSTALLATION TESTING

**Prior to initial firing** it is necessary to check if the boiler and the entire heating system are filled with water and well deaerated. Also check if the smoke uptake pipe is properly fastened.

**After initiation** makes sure:

- there is no leakage of any kind,
- that the entire installation is deaerated,
- that the water temperature in the boiler is increasing,
- that boiler operations do not result in condensation ("sweating") in the chimney.

Repeat the entire inspection after several days of constant feeding! Also, **PRIOR TO INSTALLATION activate the safety valve and check its proper functionality.**

### 1.6.3. RECEIVING AND MAINTAINING THE INSTALLATION

When receiving the installation, inspect the installation in its entirety with the contractor. **The contractor is obligated to provide basic information about the installation operations and indicate the position and function of the installation key components.** Also, the contractor is obligated to complete the installation report which can be found at the end of this *Manual*!

Deaerate the entire heating system after several days and refill it with water if necessary.

**Inspection of installation working performance is to be executed at least once a year** by an authorized maintenance technician. This will ensure safe working performance of the boiler, as well as economic and immaculate heating.

**In case of installation faulty operation, contact your central heating installation contractor exclusively!**

### 1.7. HEIGHT ADJUSTMENT

On the cooker base (3) there are 4 feet with screw to **adjust the height 850 – 920 mm of the cooker.**

Adjustment is made by turning the screw M10 to the desired height. After that, the M10 nut needs to be tightened with a wrench OK17 to avoid damaging of the feet.



**Figure 7**

#### **Important:**

- **BEFORE ADJUSTMENT**, lift UP the cooker to a suitable position so that the height adjustment process can be performed easier.
- For easier tightening of the nut, two key slots are available on the pedestal.

## 2. TECHNICAL DATA

SENKO cooker		C-20	C-20 PREMIUM	C-30	C-25	C-35	C-25 PREMIUM	C-35 PREMIUM
Nominal heat output, kW		15,8-25	15,8-25	19,1-35	17,2-25	21-35	17,2-25	21-35
Boiler, kW		5,8-20	5,8-20	5,2-23	4,5-18	5,4-21	4,5-18	5,4-21
Room, kW		10-5	10-5	13,9-12	12,7-7	15,6-14	12,7-7	15,6-14
Amount of water in boiler, L		20	20	28	20	28	20	28
Weight, kg		160	184	200	235	270	260	300
Cooking plate (W×D), mm		457×437	457×437	567×455	860×440	860×567	860×440	860×567
Oven (W×H×D), mm		-	-	-	-	-	-	-
Flue gases exhaust, mm		Ø 130		Ø 140	Ø 130	Ø 150	Ø 130	Ø 150
Primary air dampers, mm		Ø 120		Ø 120	Ø 120	Ø 120	Ø 120	Ø 120
Required flue draught, Pa		13	13	15	13	15	13	15
Efficiency, %		84,7	84,7	83,32	82,9	82	82,9	82
Regulation	Primary air	automatic						
	Secondary air	by hand						
Boiler protection		Prearranged for thermal protection against overheating						
Movable firebox grate		Mechanism						
Oven (height), mm		850-920						
Firebox door		Fireproof glass						
Energy efficiency class		A+	A+	A+	A+	A+	A+	A+

- technical specification apply to wood logs and wooden briquettes used as fuel
- technical specifications are indicative and may vary as such. The manufacturer withholds the right to change any technical specification to further improve the products

### 3. TECHNICAL SUPPORT

Dear client,

If you were unable to find the solution to the malfunctions, that potentially developed while using your product, in the table above, please feel free to contact our complaint and support service:

- Tel: 040 337-344
- E-mail: [info@senko.hr](mailto:info@senko.hr), [podrska@senko.hr](mailto:podrska@senko.hr)

WE'D LIKE TO TAKE THIS OPPORTUNITY TO REMIND YOU WHAT YOU NEED TO PREPARE WHEN CONTACTING OUR COMPLAINT AND SUPPORT SERVICE:

Before you contact us, prepare the following documents:

- **purchase receipt with the date of purchase,**
- **warranty** (at the back of this *Manual*),
- **written installation report** (at the back of this *Manual*),
- **Instruction manual.**

The documents listed above are necessary to ensure the quickest and clearest removal of the occurring malfunction !



## 4. TERMS OF WARRANTY

These warranty conditions are valid in all European countries, in which SENKO products are sold. The client addresses the manufacturer/dealer or the nearest authorized servicing agent for all complaints; providing the purchase receipt with the date of purchase, warranty and installation report in the process.

### DURATION OF THE WARRANTY

Manufacturer SENKO d.o.o. provides a **2-year** warranty for its product, in the case of production faults and construction materials. Oven thermometer, oven grid, manual regulator, regulation buttons, oven door hinges) have a **6-months** warranty.

The manufacturer guarantees that the product was produced according to the EN 12815 norm and that it complies with all the demands set by the norm. The user is obligated to adhere to the Instruction manual.

### EXCEPTIONS

Exceptions are parts subject to wear such as chamotte and chamotte plates, firebox grate, ash box, seals and glass panes.

**Chamotte plates** – changes in colour or cracks are dependent on the material and can never be completely ruled out. However, they do not impair the functioning of the appliance (as long as the plates remain in the firebox) and they are not a motive for complaint.

**Glass** (door, panels, CERAN cooking plate) - breakage or damage of the glass because of external hazard, changes on the surface due to thermal influences such as fly-ash or soot at the surface of the glass.

**Discolouring** of paint due to overload of thermal strain.

**Seals** - e.g. hardening or breakage due to thermal or mechanical strain.

**Surface coatings** - frequent cleaning or cleaning with abrasive cleaning agents.

**Castings and parts which are subject to high thermal stress** - firebox grate, cooking plate or ash box.

**Heat exchanger (boiler)** is not subject to the warranty in the event in which it is not secured with adequate anti-condensate circuit which guarantees a minimum return water temperature of at least 55°C (*only at central heating cookers*).

### REPAIRS

Possible repairs within the warranty will be executed within 30 days from the date of product delivery to the manufacturer. Should the repairs not be executed within 30 days from the delivery to the manufacturer, the product will be replaced with a new one. The manufacturer will notify the client about the executed repairs. The client is obligated to take over the product within 5 days from the repair completion.

### COSTS

The manufacturer does not defray any delivery and return costs.

Prior to commencement of repairs within the warranty (for damages caused by incorrect use, cooker transport and mounting), the manufacturer will notify the client about the repair price in written form. Once the client agrees, the manufacturer will execute the repairs and charge the client for the repairs.

### SPARE PARTS

Original parts replaced within the warranty do not have to match the removed parts in external physical appearance, but they must match them in quality and functionality.

### DISCLAIMER OF LIABILITY

Manufacturer cannot accept any liability for the loss or the damage of an appliance through theft, fire, vandalism or similar causes. Indirect or direct damage caused to the product, which is the result of improper transportation of the product, are excluded from the liability. We cannot accept any liability for damages caused by chemical or electrochemical effects (e.g. pollutants in the combustion air and similar) which are the result of improper installation of the product and violation of this Instruction manual - Installation and Instruction manual - Handling.

### ADDITIONAL TERMS

Small dimensional differences in construction materials and parts of the cooker are not a reason for complaint. During the period in which the product was inefficient, we will not grant any compensation. This warranty applies only to the customer specified in the warranty sheet and cannot be transferred to others.

**The warranty is void** if the user made alterations to the product without manufacturer's prior knowledge. If the user was negligent and performed maintenance on the wrong way. If the user is using fuel that is not compliant with the types and quantities indicated in this Manual

**The warranty is valid if the installation was executed by an authorized professional and upon presenting the written installation report.**

Possible disputes to be settled by the competent Court in Čakovec.

The manufacturer SENKO d.o.o. withholds the right to alter any technical details, data and photographs published in this manual without prior warning, for the purpose of improving its products. Photographs of the cooker, parts, elements and equipment published in this manual can be different from the actual items.

WARRANTY No.

SOLID FUEL CENTRAL HEATING COOKER:

- |   |   |                                 |                                 |   |
|---|---|---------------------------------|---------------------------------|---|
| <input type="checkbox"/> C-20 L         | <input type="checkbox"/> C-30 L         | <input type="checkbox"/> C-25 L | <input type="checkbox"/> C-35 L | <input type="checkbox"/> C-25 D PREMIUM |
| <input type="checkbox"/> C-20 D         | <input type="checkbox"/> C-30 D         | <input type="checkbox"/> C-25 D | <input type="checkbox"/> C-35 D | <input type="checkbox"/> C-25 L PREMIUM |
| <input type="checkbox"/> C-35 D PREMIUM | <input type="checkbox"/> C-35 L PREMIUM |                                 |                                 | <input type="checkbox"/> C-20 D PREMIUM |
|   |   |                                 |                                 | <input type="checkbox"/> C-20 L PREMIUM |

SERIAL NUMBER: \_\_\_\_\_

DATE OF MANUFACTURE: \_\_\_\_\_

STORE NAME AND ADDRESS: \_\_\_\_\_  
\_\_\_\_\_CLIENT NAME AND ADDRESS: \_\_\_\_\_  
\_\_\_\_\_

DATE OF PURCHASE: \_\_\_\_\_

STORE STAMP AND SIGNATURE: \_\_\_\_\_

Date of receipt:

\_\_\_\_\_

Malfunction description :

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Servicing agency comments:

\_\_\_\_\_  
\_\_\_\_\_

Date of service : \_\_\_\_\_

Stamp and technician signature:

\_\_\_\_\_

Date of receipt:

\_\_\_\_\_

Malfunction description :

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Servicing agency comments:

\_\_\_\_\_  
\_\_\_\_\_

Date of service : \_\_\_\_\_

Stamp and technician signature:

\_\_\_\_\_

FILLED BY THE CHIMNEY - SWEEPER

Chimney connection made by: \_\_\_\_\_

Person in charge: \_\_\_\_\_

Street: \_\_\_\_\_ City: \_\_\_\_\_

Phone: \_\_\_\_\_ Country: \_\_\_\_\_

Date: \_\_\_\_\_ Signature: \_\_\_\_\_

Chimney

Type: .....

Dimensions (mm): .....

Height (m): .....

Draught (Pa): .....

Exit temp- fluegases (°C): .....

Last inspection on: .....

Connection number: .....

Smoke venting pipe

Cross-section (mm): .....

Length (m): .....

Number of elbows: .....

Air supply pipe

Cross-section(mm): .....

Length(m): .....

Number of elbows: .....

FILLED BY CENTRAL HEATING TECHNICIAN

Central heating connection made by : \_\_\_\_\_

Person in charge: \_\_\_\_\_

Street: \_\_\_\_\_ City: \_\_\_\_\_

Phone: \_\_\_\_\_ Country: \_\_\_\_\_

Date: \_\_\_\_\_ Signature: \_\_\_\_\_

Open system ☐ yes ☐ noClosed system ☐ yes ☐ noHeated space volume (m<sup>3</sup>): .....Expansion tank volume (m<sup>3</sup>): .....

Pump type: .....

Water flow (m<sup>3</sup>/h): .....

Safety valve type: ..... Safety valve approved at .....bar

Water temperature (°C) inlet: ..... outlet: .....

# SENKO

Vladimira Nazora 22, Štefanec, 40000 Čakovec, Hrvatska

Tel: +385 (0)40 33 73 44 • E-mail: [info@senko.hr](mailto:info@senko.hr)

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MODERN FORMS FOR  
A HEALTHY  
ENVIRONMENT.



You can find *Instruction manual - INSTALLATION*  
and *Instruction manual - HANDLING*  
at <http://en.senko.hr/>

We reserve the right to change all figures, technical details and colours of products mentioned in this manual without prior notice.