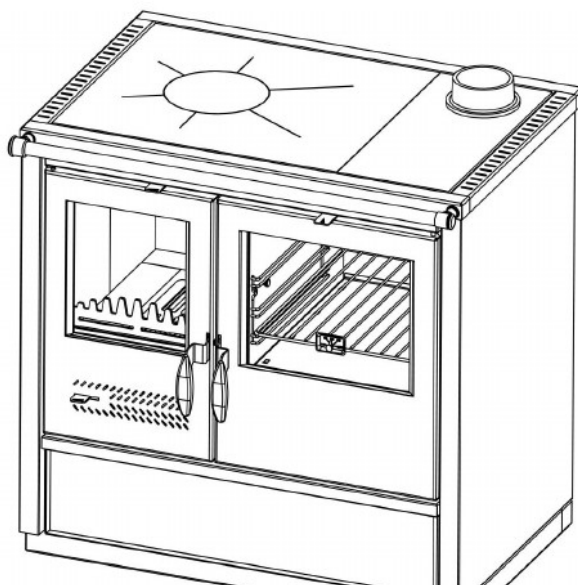


NORTH ECO

WOOD-BURNING COOKER

INSTALLATION AND OPERATING INSTRUCTIONS



Read these instructions carefully before installing and using the cooker. Keep the instructions for future reference.

NORTH ECO - 2025/2026

1. Basis of the instructions and intended use

These English instructions combine the operating and maintenance information from the TIM SISTEM NORTH factory manual with the 2025 NORTH ECO Declaration of Performance and CE data. Where a technical value in the older factory manual conflicts with the declared 2025 performance data, the newer declared value is used in these instructions. Installation clearances for the integrated version with insulated panels are shown separately on the basis of the corresponding NORTH ECO panel-version DoP.

NORTH ECO is a solid-fuel cooker fired with wood logs, intended for space heating, cooking and baking. The appliance is intended for intermittent operation with the firebox door closed. In the 2025 documentation the model is classified as a wood-log-fired wood cooker in accordance with EN 16510-1:2024 and EN 16510-2-3:2025.

2. Technical data

Parameter	NORTH ECO - declared / instruction value
Nominal heat output	8,3 kW
Efficiency at nominal heat output	89,7%
Seasonal space heating efficiency	79,7%
Energy Efficiency Index (EEI)	120
Energy class	A+
Recommended fuel	Wood logs
Fuel consumption at nominal output	2,14 kg/h
Flue gas temperature	158 °C
Minimum chimney draught	12 Pa
Flue gas mass flow	6,44 g/s
Flue gas connection	Ø120 mm
Chimney fire-safety class	T400 G
CO (13% O ₂)	865 mg/m ³
PM (13% O ₂)	30 mg/m ³
NO _x (13% O ₂)	87 mg/m ³
OGC (13% O ₂)	85 mg/m ³
Operating mode	Intermittent operation
Type	BF
Cooker nominal dimensions (older manual table)	900 × 600 × 850 mm
Firebox dimensions	290 × 450 × 270/280 mm*
Oven dimensions	350 × 475 × 295 mm

* The factory documents state the firebox height as both 270 and 280 mm. The factory dimension drawing is reproduced below unchanged; for installation dimensions, refer to the actual appliance and the manufacturer's drawing.

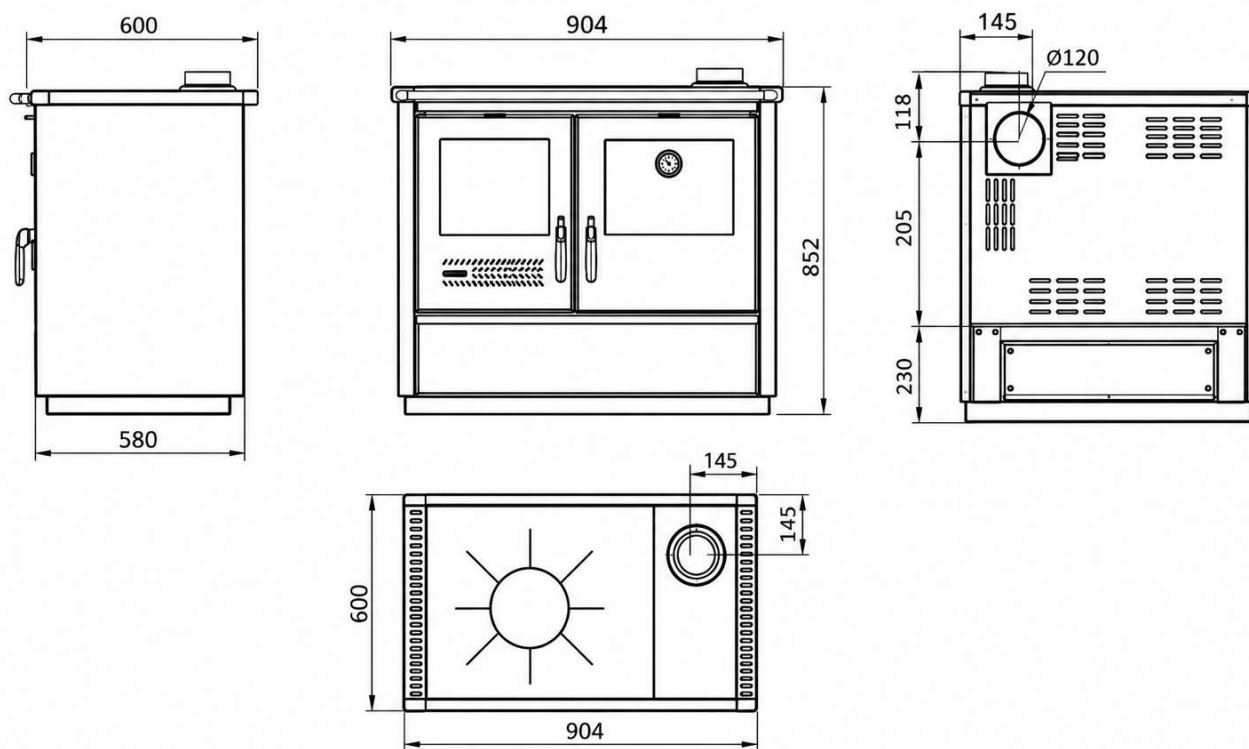


Figure 1. Factory dimension drawing of the NORTH cooker. The drawing shows approximate external dimensions of 904 × 627 × 852 mm; the nominal dimensions in the table are 900 × 600 × 850 mm.

3. Cooker components

- 1. Protection rail
- 2. Cooktop
- 3. Flue gas connector
- 4. Flue gas diverter
- 5. Thermometer
- 6. Oven
- 7. Oven door
- 8. Oven door handle
- 9. Drawer for non-flammable items
- 10. Firebox door handle
- 11. Primary air regulator
- 12. Firebox door
- 13. Firebox
- 14. Secondary air regulator / glass air wash

4. Safety before use

- Use only the recommended fuel - dry wood logs. Do not burn waste, plastics, oil-treated wood, textiles or explosive substances.
- Ensure a continuous and sufficient supply of combustion air to the room. Extractor fans and other appliances that create negative pressure must not interfere with the operation of the cooker.
- The surfaces and handles of the cooker become hot. Use protective gloves and keep children away from the hot appliance.
- Do not modify the construction of the appliance. Use only spare parts approved by the manufacturer.
- The cooker is intended to be operated with the firebox door closed; open the door only for ignition, refuelling and cleaning.

5. Installation and safety clearances

Installation must comply with local fire-safety and chimney requirements. The supporting surface must be capable of carrying the weight of the appliance, and a combustible floor must be protected with suitable non-combustible protection. According to the 2025 DoP, the floor protection must extend at least 400 mm in front of the firebox.

5.1 Standard NORTH ECO

Direction	Minimum clearance to combustible material
Below cooker	0 mm
Floor in front of firebox	400 mm
Ceiling	>750 mm
Rear	300 mm
Side	300 mm
Lateral radiation zone	200 mm
Front	1000 mm

5.2 Integrated NORTH ECO / NORTH ECO with insulated panels

The separate DoP for the version with insulated panels, dated 28 October 2025, gives the following declared clearances for installation between furniture/insulated panels. These values apply only to the NORTH ECO configuration with manufacturer-supplied insulated panels.

Installation configuration	Side	Rear	Front
NORTH without insulated panels (comparison value from the same DoP)	350 mm	450 mm	1000 mm
NORTH with manufacturer-supplied insulated panels	0 mm	300 mm	1000 mm

Note: the DoP for the version with insulated panels does not specify all directions listed in the standard NORTH ECO DoP (e.g. ceiling and lateral radiation zone). These values have therefore not been assumed here. Follow the documentation for the specific installation set and all applicable local requirements.

6. Chimney connection and combustion air

- The flue gas connection diameter is Ø120 mm. The connection must not be reduced between the cooker and the chimney.
- The declared minimum chimney draught for 2025 is 12 Pa.
- The chimney and connecting flue pipe must be gas-tight and arranged so that the flue gases can flow freely into the chimney. Do not insert the pipe so far into the flue that it reduces the flue cross-section.
- The declared chimney fire-safety class is T400 G. When sizing the chimney and assessing its suitability, use the declared flue gas temperature of 158 °C and mass flow of 6.44 g/s.
- If the draught is excessive or unstable, the solution must be agreed with a qualified chimney designer/installer; these instructions do not replace chimney sizing.
- A sufficient supply of fresh air must be ensured. In an airtight building, a separate combustion-air solution may be required.

6.1 Typical chimney faults

- The chimney outlet or cross-section is unsuitable.
- The flue has an excessively sharp change of direction or excessive inclination.
- Another appliance is connected to the same flue.
- The flue contains cracks, a foreign object, soot or another obstruction.
- The flue pipe has been inserted too far into the chimney flue.
- A fan or other appliance operating in the room creates negative pressure.
- The chimney cleaning door is open or not airtight.

7. First firing and ignition

Before the first firing, wipe painted surfaces with a clean, dry, soft cloth. During the first few firings the coating may give off an odour and a small amount of smoke; ventilate the room. Start with a moderate fire to avoid thermal shock.

1. Make sure that ash has been removed and the flue gas path is open.
2. Open the primary air regulator and move the flue gas diverter to the open/pulled-out position for ignition.
3. Place dry wood logs and kindling in the firebox and ignite them.
4. Once the flame is stable, close the firebox door and regulate combustion using the primary and secondary air controls.
5. When refuelling, first open the door slightly, wait for the pressure to equalise, and only then open it fully and slowly.
6. Add the next fuel load after the previous load has burned down; do not overload the firebox.

8. Heating, cooking and baking

8.1 General operation

The cooker operates intermittently. Keep the firebox door closed during operation. Remove ash regularly so that cooling and combustion air can pass through the grate. Use dry wood; the older factory manual recommends a maximum moisture content of 20%.

8.2 Rapid cooking

Pull out the flue gas diverter, keep the oven door closed and set the primary air for medium to stronger combustion. Use smaller fuel loads.

8.3 Combined operation

For cooking, baking and space heating, push in the flue gas diverter, keep the oven door closed and adjust combustion as required.

8.4 Baking

Push in the flue gas diverter. The older factory manual recommends an oven temperature of approximately 200 °C for baking and adding fuel in small quantities. Monitor the oven thermometer.

9. Chimney fire and emergency

- If a chimney fire is suspected, call the emergency services immediately.
- Close the combustion-air supply to the cooker and do not add fuel.
- Do not pour water into the cooker or chimney.
- Make sure the fire does not spread to nearby combustible materials.
- After a chimney fire, the system must not be used again until it has been inspected by a competent specialist.

10. Maintenance and cleaning

- Carry out all cleaning and maintenance work only when the cooker is cold.
- Regularly clean the firebox, grate, ash drawer, flue passages around the oven and the flue pipe.
- Clean the firebox glass only when cold, using a suitable mild cleaner; avoid abrasive products.
- Clean painted and enamelled external surfaces with a soft cloth and a neutral cleaning agent.
- The chimney must be inspected and cleaned regularly in accordance with local requirements and the intensity of use.

11. Troubleshooting

Problem	Possible cause	Corrective action
Cooker heats poorly	Incorrect air setting or weak draught	Check the air regulators, flue gas path and chimney.

Difficult ignition	Air supply closed, wet wood, insufficient fresh air	Open the air supply, use dry wood and ensure sufficient combustion air.
Smoke enters the room	Insufficient draught, ash on the grate, leaking connection	Clean the grate and flue gas paths; check the connections and chimney.
Glass soots up quickly	Wet wood, too much fuel, insufficient air/draught	Use dry wood, reduce the fuel load and check the secondary air supply.
Excessive heat output	Door/ash drawer does not close, defective seal, too much fuel	Close correctly, check the seals and reduce the fuel load.
Grate is damaged	Ash drawer too full or appliance overloaded	Empty the ash in good time and avoid overfiring.

12. Environment, servicing and spare parts

Packaging and an appliance taken out of service must be disposed of in accordance with local waste-management requirements. Repairs and structural modifications to the appliance must be carried out by a competent person. Use spare parts recommended by the manufacturer.

13. Spare-parts position list

The factory assembly drawing of the NORTH cooker uses the following position numbers. When ordering a spare part, always verify the position number and the serial number of the specific cooker.

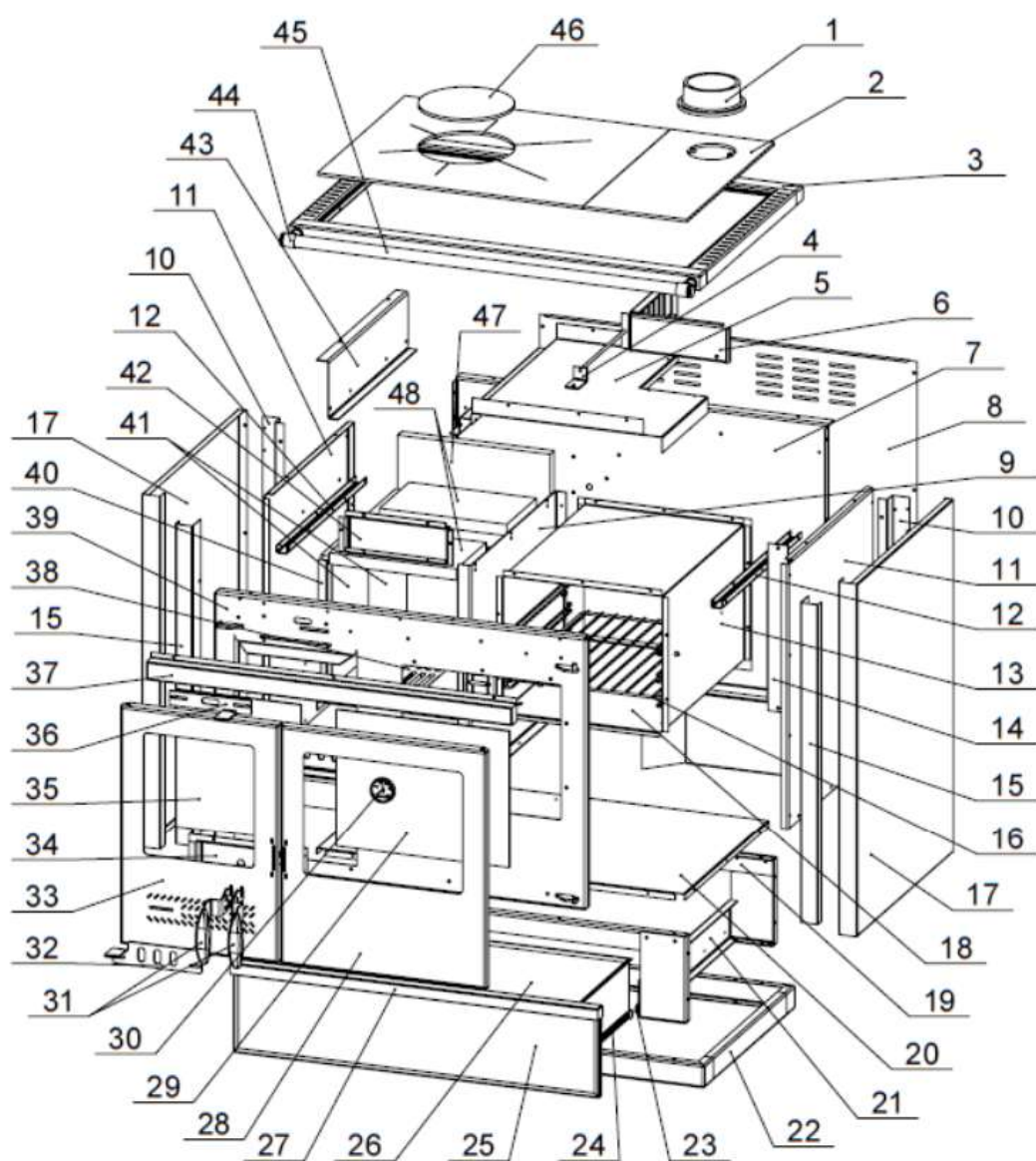


Figure 4. NORTH cooker spare-parts assembly drawing
- positions 1-48.

- 1. Flue gas connector
- 2. Cooktop support
- 3. Cooker frame
- 4. Flue gas diverter handle
- 5. Oven guard
- 6. Flue gas diverter
- 7. Rear inner panel
- 8. Rear outer panel
- 9. Firebox partition panel
- 10. Rear side-panel support
- 11. Inner side plate
- 12. Side firebrick support
- 13. Oven assembly
- 14. Deflector below oven
- 15. Front side-panel support
- 16. Oven rack
- 17. Side panel
- 18. Oven bottom
- 19. Body support
- 20. Bottom plate
- 21. Drawer-slide mounting
- 22. Base assembly
- 23. Fixed slide
- 24. Moving slide
- 25. Drawer decorative cover
- 26. Non-flammable-items drawer assembly
- 27. Drawer handle
- 28. Oven door
- 29. Oven door glass
- 30. Thermometer
- 31. Door handle
- 32. Primary air regulator
- 33. Firebox door
- 34. Primary air box
- 35. Firebox door glass
- 36. Secondary air regulator
- 37. Decorative plate
- 38. Grate
- 39. Front plate assembly
- 40. Front plate guard
- 41. Side firebrick
- 42. Secondary air box
- 43. Side-panel guard
- 44. Protection rail support
- 45. Protection rail
- 46. Cooktop
- 47. Rear firebox brick
- 48. Upper firebox brick

14. Document references

- TIM SISTEM NORTH - Installation, Adjustment and Operating Instruction (older factory manual, EN 12815).
- NORTH ECO Declaration of Performance No. 0018/17.12.25, 12.12.2025.
- NORTH ECO CE / product label: EN 16510-1 / EN 16510-2-3:2025, NB 1015.
- NORTH ECO version with insulated panels - Declaration of Performance No. 30-17815/T, 28 October 2025.

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