

INSTALLATION GUIDE – FLUE SYSTEMS



**Kaminhorn Primo professional flue –
Bracket start**



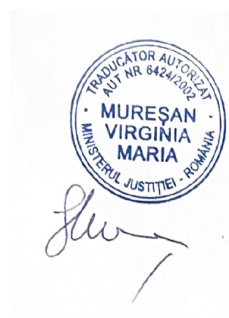
**Kaminhorn Primo professional
flue – 0 base**

IT IS OF THE UTMOST IMPORTANCE THAT THIS FLUE SYSTEM IS INSTALLED STRICTLY IN ACCORDANCE WITH LEGAL REQUIREMENTS AND THE INSTRUCTIONS PROVIDED IN THIS GUIDE.

PLEASE READ ALL INSTRUCTIONS CAREFULLY BEFORE STARTING THE INSTALLATION.

FAILURE TO INSTALL THE SYSTEM IN ACCORDANCE WITH THESE INSTRUCTIONS WILL INVALIDATE THE CERTIFICATION CONDITIONS AND THE MANUFACTURER'S WARRANTY.

FAILURE TO CLEAN THE FLUE AT LEAST 2 TIMES PER YEAR MAY LEAD TO THE ACCUMULATION OF TAR AND ASH DEPOSITS, WHICH CAN CAUSE FLUE SELF-IGNITION. THIS PHENOMENON IS EXTREMELY DANGEROUS FOR PERSONAL SAFETY AND FOR THE SAFETY OF THE DWELLING. THE FLUE SYSTEM WILL LOSE ITS WARRANTY IF SELF-IGNITION OF THE FLUE IS FOUND



Why choose a Kaminhorn flue?

Performance and energy efficiency:

Kaminhorn professional stainless-steel flues are manufactured in Romania and comply with current European safety standards, being CE-certified for operating temperatures of up to 400°C.

Versatility:

Kaminhorn flue systems integrate seamlessly into any exterior architectural style thanks to the available colour options and will remain reliable for many years.

Durability:

The robust and rigid construction helps the flue system withstand distortion and high temperatures over a long period of time.

Excellent ventilation:

The Kaminhorn Primo professional flue operates on the principle of natural draught and is equipped with a ventilation duct for aeration of the insulation wool.

Optimal operation at high temperatures:

The stainless-steel flue systems produced by Kaminhorn are designed and certified in accordance with EU regulations to operate reliably at high working temperatures.

Safety:

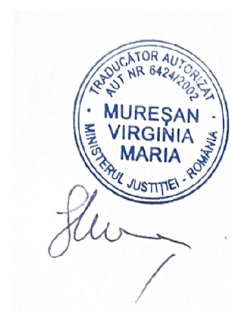
The Kaminhorn stainless-steel flue system is resistant to self-ignition and certified in accordance with current European standards, providing users with a worry-free operating experience.

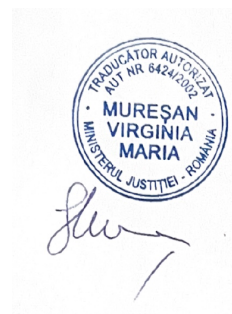
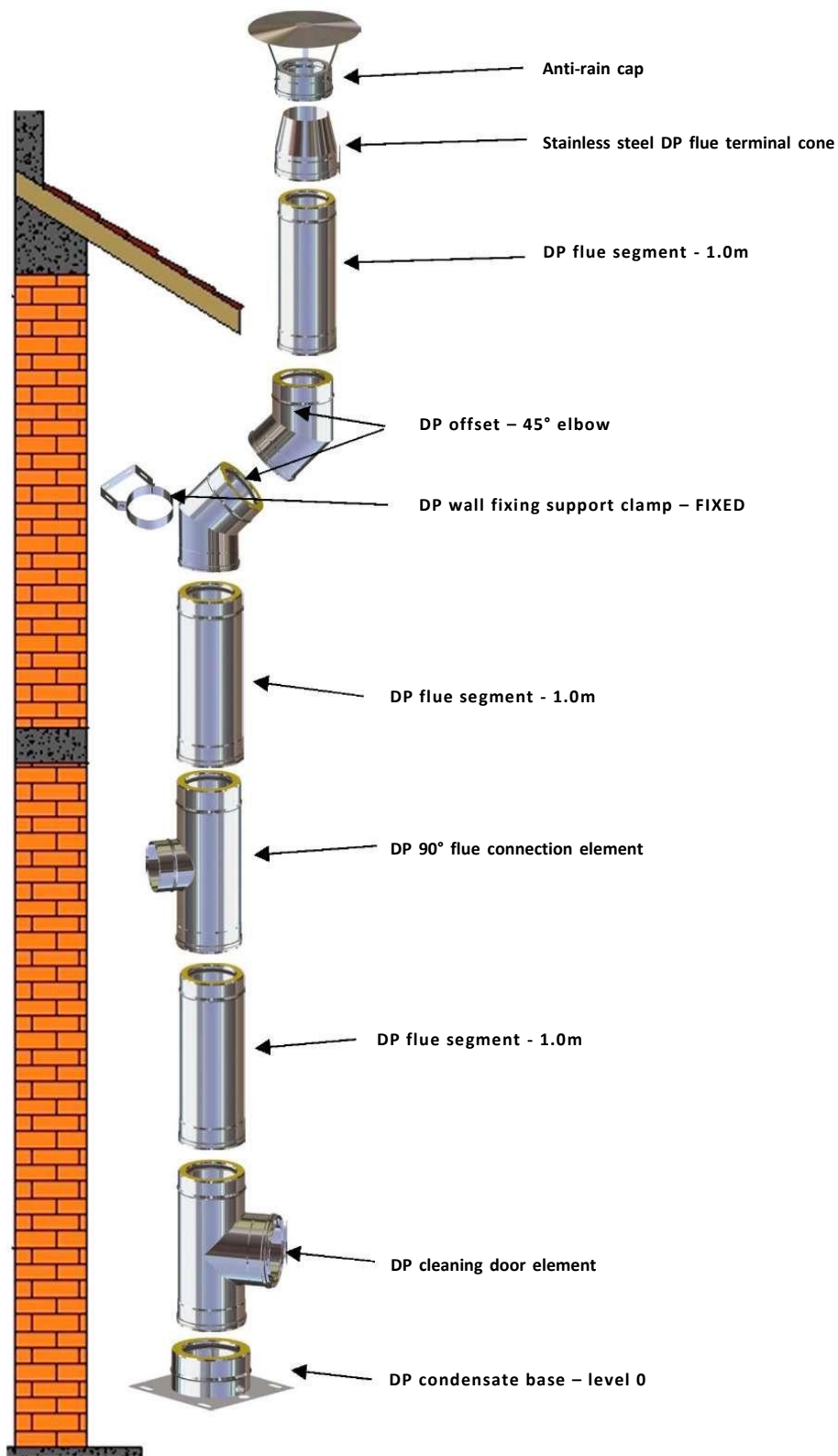
Easy connection to a wide range of products:

The flue system is recommended for the following fuel types: gaseous, liquid, and solid fuels, and is intended for the discharge, by natural draught, of combustion gases generated by: boilers, stoves, fireplaces, and other heat sources.

Warranty:

Kaminhorn offers a 10-year warranty for its stainless-steel flue system products.





1. General Instructions

- The installation of the flue system must be carried out in accordance with legal requirements and the applicable technical regulations. Please check with local authorities for details regarding the applicable requirements.
- All works must be performed by authorized, qualified, and trained personnel, in compliance with occupational health and safety regulations.
- Failure to observe the installation instructions and maintenance instructions will result in loss of the product warranty and releases the manufacturer from any liability, claims, or damages.

1.1 Safety and compliance

- Observe building codes and national regulations applicable to the installation of combustion gas discharge systems.
- The system must be installed in a location that ensures adequate ventilation and the minimum safety clearances from combustible materials.
- Ensure that the installation area is clean, dry, and free of obstacles that could affect proper operation.

2. Technical requirements

2.1 Safety clearances

- Flue systems must extend at least **60cm** above the highest point of the roof and at least **60cm** above any structural element located within a 3-meter radius.
- Observe the following clearances from combustible materials in ventilated (unobstructed) spaces:
 - **Internal diameter 80-400mm:** Minimum clearance 95mm
 - **Internal diameter 450-800mm:** Minimum clearance 110mm
- Caution! At floor/ceiling penetrations, a ventilated gap of at least 95mm must be provided, or the space must be filled with semi-rigid, fire-resistant thermal insulation, suitable for high temperatures of at least 1,000°C.
- Caution! Wall fixing clamps must not be anchored directly into combustible materials such as wood, plastic, etc.
- Caution! The use of improvised roof penetrations: galvanized sheet metal, steel, PVC membranes, or bituminous membranes, is prohibited.

2.2 Materials and resistance

- Kaminhorn systems are manufactured from durable stainless steel and are designed to operate at temperatures of up to 400°C.
- The basalt insulation wool used has a thickness of 25mm and a density of 90kg/m³

3. Preparatory works

1. **Location identification:** Determine the flue starting point and its route through the building, the connection level, the fixing and load-bearing points, as well as the distance from adjacent combustible structural elements.
2. **Stable support:** Provide a solid support for the flue base, either a concrete foundation or a metal bracket securely fixed to the structure.
3. **Proper dimensions:** Openings for wall or floor penetrations must be made in accordance with the specified dimensions, without compromising the structural strength.
4. **Tool check:** Prepare tools such as drill bits, silicone sealant guns, wrenches, and cutting tools.



4. Installation instructions

4.1 Installation of the condensate base

- **Floor installation with zero base:** Secure the condensate base using corrosion-resistant screws.
- **Wall installation with bracket fixing:** Use metal brackets and screws with a diameter of at least 8mm. Ensure that the fixing is firm and correctly aligned.

4.2 Assembly of the segments

- **Vertical connection:** Assemble the flue segments starting from the base and secure them using clamps.
- **Elbows and offsets:** To change direction, install 45° or 90° elbows.

4.3 Fixing to the structure

- Secure the flue to the walls every 2-3 meters using fixing clamps.
- Ensure the stability of the flue by correctly tightening all fixings.

4.4 Installation of the terminal

- Attach the conical cap or anti-rain cap to the top.
- Check that all connections are sealed.

5. Maintenance instructions

1. Regular inspections

- Inspect the flue system annually for soot deposits, loosened fixings, or other faults.
- Clean the inside of the flue at least once per year, or more frequently depending on the level of use of the heat source, in order to remove tar deposits, with the help of a qualified, authorized chimney sweep, using special brushes and avoiding abrasive tools that could damage the stainless steel.

2. Condensate drainage:

- Ensure proper condensate drainage by connecting the condensate base to a floor drain trap.

3. Use of recommended fuels

- Use dry wood (moisture content below 22%) or fuels that comply with the specifications. Firewood must be stored in a dry place for at least 1 year before use.

4. Professional interventions:

- Any fault must be remedied by a specialist, a chimney sweep authorized in chimney maintenance.



Recommended tools

- **Essential tools:** Protective gloves, eye protection, measuring tape, trowel.
- **Specialized equipment:** Masonry drill bits, silicone sealant gun, adjustable wrenches.
- **Cleaning tools:** Special flue brushes, cloth for surface protection.

Warnings

- Do not use the flue as a support for other structures.
- **Failure to clean the flue may lead to the accumulation of dangerous gases or fire hazards.**
- Check with a specialist if any operational anomalies are detected (insufficient draught, smoke leakage, unusual odors, loosening of fixing and support elements, etc.).
- Avoid the accumulation of ash or tar deposits inside the flue. Inspect the flue system at least twice per year. The system warranty is void if the flue system has experienced self-ignition due to tar or ash deposits.

Important notes:

- The rigid stainless-steel pipe is intended for use in accordance with the National Building Code, Installation Code for Oil-Burning Equipment CAN/CSA-B139; Gas-Burning Equipment CAN/CSA-B149; Solid-Fuel-Burning Appliances and Equipment CAN/CSA-B365. All installation codes listed above refer to requirements applicable to flue systems. Under no circumstances shall the installer bypass or deviate from the applicable codes.



The following tools and materials may be required, as well as others, depending on the location and structure of the flue system:

- Protective work gloves
- Eye protection
- Ladder/Scaffolding
- Industrial vacuum cleaner
- 1/2" or 3/8" masonry drill bits
- Measuring tape
- Utility knife
- Hex-head screwdriver
- Hammer
- Pliers
- Cold chisel
- Silicone applicator gun
- Bag of premixed mortar
- Trowel
- Mortar container
- Aluminum foil adhesive tape
- Dust protection mask (3M 9900 or equivalent)
- Surface protection (cover cloth)
- Flue brushes/Cleaning rods
- Extension cords/Work light
- 1/8" high-speed drill bits
- Reversible electric or cordless drill
- Metal saw/Reciprocating saw with blades
- Small adjustable wrench/Ratchet wrench set
- Awl/Chalk pencil/Felt-tip marker
- Tin snips/Side cutters/Cutting shears
- Metal bending tool
- High-temperature silicone sealant
- Rope (3 meters longer than the flue, including a wire hook at one end)
- 1/8" rivet gun
- Additional rivets





WARRANTY CERTIFICATE

SC AB Group Ceramics SRL hereby issues this warranty certificate to the beneficiary of a KaminInox stainless-steel flue system.

PURCHASER:.....

Invoice No.

Address:

Installation location:

The warranty comes into force on the date of product delivery.

Warranty conditions:

- The flue must be installed using all original components of the KaminInox system.
- During installation, the applicable technical regulations in force and the manufacturer's installation instructions, made available to the Beneficiary, must be observed, and commissioning and inspection of the KaminInox flue system must be carried out by qualified/authorized personnel.
- Only claims submitted in writing, accompanied by the purchase invoice of the products and a copy of the warranty certificate, will be considered.
- Detailed warranty conditions are stated on the reverse side of this certificate.

The warranty does not cover:

- damage to the products caused by third parties (improper handling, transport, or installation, etc.);
- flue systems used for the discharge of gases containing halogen compounds (chlorides, fluorides, etc.) or discharge systems installed in places where such chemicals are present;
- damage caused by natural disasters (storms, earthquakes, floods, etc.).



KaminHorn
SC Ab Group Ceramics SRL
Director general,
Anastasoiaie Razvan

DISTRIBUTOR:

Distributor's signature and stamp:

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WARRANTY CERTIFICATE

Any complaint regarding the occurrence of damage or improper operation of the flue system must be submitted in writing to the SC AB Group Ceramics SRL address, and accompanied by the invoice for the purchased products and a copy of the warranty certificate. Any damage that occurs must be reported to the manufacturer within a maximum of 30 days from the date of occurrence. Where the conditions set out below are met, the supplier undertakes to provide the beneficiary with new component parts to replace the damaged ones during the warranty period.

Warranty granting conditions:

- Selection of the appropriate flue system type, determination of the effective height, and sizing of the vertical flue duct diameter in accordance with the applicable technical regulations and the technical documentation of AB Group Ceramics SRL;
- Use of original KaminInox components only during installation, and compliance with the installation technology prescribed by the manufacturer, with any modification of the components prohibited (e.g. shortening by cutting, widening, bending, etc.);
- Installation of all component parts and accessories required for proper operation and maintenance;
- Installation of the flue system is the responsibility of the beneficiary/installer, and all measures necessary to ensure structural stability, in accordance with the climatic and seismic conditions of the installation site, shall be taken in compliance with the applicable legislation;
- During installation of the flue system, the required clearances from combustible materials must be observed in accordance with the legislation in force and taking into account the following:
 - Type I, single-wall (SP) flue systems
 - in the case of a flue system made of 0.5mm stainless steel (EN 1856-1 T400 NI W Vm L20050 G 100 diameter: $\varnothing 80 \div 400$ mm, wall thickness: 0.5mm) the ventilated clearance from combustible materials shall be at least 10cm.
 - in the case of a flue system made of 0.7mm stainless steel (EN 1856-1 T400 NI W Vm L20070 G 200 diameter: $\varnothing 450 \div 800$ mm, wall thickness: 0.7mm) the ventilated clearance from combustible materials shall be at least 20cm.
 - Tip II, double-wall (DP) flue systems
 - in the case of a flue system made of 0.5mm (EN 1856-1 T400 NI W Vm L20050 G 95 diameter: $\varnothing 80 \div 400$ mm, outer wall thickness 0.5mm) the ventilated clearance from combustible materials shall be at least 9.5cm.
 - in the case of a flue system made of 0.7mm (EN 1856-1 T400 NI W Vm L20070 G 105 diameter: $\varnothing 450 \div 800$ mm, outer wall thickness 0.7mm) the ventilated clearance from combustible materials shall be at least 10.5cm.
- Construction of the connecting duct and the connection components to the flue using stainless steel of the same quality as that used in the manufacture of the flue system;
- Operation and maintenance of the heat source and the flue system in accordance with the applicable legislation and in compliance with the manufacturer's instructions;
- Maintenance/cleaning of the flue shall be carried out at least once per year, exclusively by qualified and authorized personnel, who shall issue a report confirming the work performed;
- Signing of this certificate by the installer, acknowledging receipt and compliance with the installation instructions provided to the beneficiary in printed form.

The warranty becomes void in the following cases:

- The capacity is increased or the type of heat source for which the flue system was originally designed is changed;
- Damaged component parts are replaced before the manufacturer's specialists have carried out the necessary inspections and established the appropriate remedial measures.

CAUTION! SC AB Group Ceramics SRL shall not be held liable for installation errors and/or deficiencies! Such responsibility lies exclusively with the installer, regardless of whether the installer was recommended or trained by the manufacturer.

Installer:

Installation date:

Signature:



ROMÂNIA, MINISTERUL JUSTIȚIEI

Subsemnata, MUREȘAN VIRGINIA MARIA, certific acuratețea acestei traduceri cu textul documentului în limba română, traducere executată de mine. Traducător, Autorizația nr. 6424/2002

I the undersigned, MUREȘAN VIRGINIA MARIA, do certify the accuracy of this translation with the text of the original document into Romanian, which was endorsed by me. Translator, Aut. No. 6424/2002

