

SAMAFLUE™ MODULAR PELLET STOVE VENTING & EXHAUST KIT

Engineered for high thermal efficiency, leak-proof combustion seal, and universal pellet stove compatibility.

PRODUCT OVERVIEW

The SAMAFIue™ Exhaust System is a complete, factory-engineered modular venting kit designed specifically for residential pellet stoves and biomass heating units.

Crafted with precision-laser cut stainless steel and heat-resistant exterior finishes, SAMAFIue provides a safe, gas-tight, and corrosion-resistant path for combustion products while enhancing interior and exterior building aesthetics.

Complete Kit Convenience: Includes all necessary indoor extensions, wall pass-through collars, T-pieces with drain caps, 90°/45° elbows, and anti-wind discharge terminals in one box.

KEY PERFORMANCE ADVANTAGES

- Gas-Tight Triple Gasket Seal:** Factory-installed silicone O-rings ensure positive-pressure (P1) gastight performance without smoke leakage.
- Biomass Condensate Resistant:** Specially treated inner walls withstand corrosive wood pellet combustion acids and moisture.
- Dual Finish Options:** Available in pristine *Architectural Matte White* and *Executive Matte Black* to match any stove finish.
- Precision Push-Fit Design:** Fast, tool-free inter-pipe coupling for streamlined professional installation.

TECHNICAL SPECIFICATIONS

PARAMETER	STANDARD SPECIFICATION	COMPLIANCE & TESTING
Inner Pipe Material	High-Grade AISI 316L / 304 Stainless Steel	EN 1856-2 / CE Certified
Exterior Finish	High-Temperature Powder Coat (Black / White)	UV & Heat Resistant up to 300°C
Nominal Diameters	80 mm (Standard) / 100 mm (High Capacity)	Fits standard pellet stove outlets
Temperature Rating	Continuous: T200 (200°C) Max Peak: T400 (400°C)	Thermal Shock Tested
Pressure Class	Positive Pressure P1 (up to 200 Pa)	High-Temp Silicone Gasket Sealed
Clearance to Combustibles	50 mm with proper insulation / pass-through	Safety Distance Compliant
Fuel Compatibility	Wood Pellets, Agricultural Biomass, Olive Pit Pellets	V2 / V3 Corrosion Rated

KIT PACKAGE COMPONENTS BREAKDOWN

Component	Qty / Unit	Description & Application	Available Finishes
Straight Flue Pipe (1000mm)	1x / 2x	Main vertical or horizontal exhaust run extension.	WHITE BLACK
Straight Flue Pipe (500mm)	1x	Intermediate length adjustment section.	WHITE BLACK
90° / 45° Elbows	1x Each	Precision-bent directional offset connectors.	WHITE BLACK
T-Junction & Condensate Cap	1x Kit	Main manifold connector with bottom removable inspection/drain cap.	WHITE BLACK

Component	Qty / Unit	Description & Application	Available Finishes
Wall Pass-Through Rosettes	2x Flanges	Decorative trim plates for clean interior/ exterior wall integration.	WHITE BLACK
Anti-Wind Vent Terminal	1x Hood	Weatherproof, pest-screened horizontal or vertical discharge cap.	WHITE BLACK
Wall Support Brackets	2x Brackets	Heavy-duty adjustable wall mount clamps for structural anchoring.	Steel Powder Coated

INSTALLATION & MAINTENANCE GUIDELINES

Installation Best Practices

- Always ensure the female socket points upwards to allow proper condensate flow back down into the T-piece collector.
- Apply high-temperature silicone lubricant (included) to gaskets during push-fit assembly to prevent seal distortion.
- Maintain minimum 50mm clearance to wooden framing or combustible material. Use insulated wall pass-through thimbles when exiting timber-framed structures.

Routine Maintenance

- Inspect and empty the lower T-piece condensate collection cap monthly during peak heating season.
- Perform an annual chimney sweep using non-scratch nylon brushes to remove fine pellet ash residue.
- Check silicone sealing gaskets bi-annually and replace if signs of thermal wear or hardening appear.

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Haifa Port Commercial Zone, Israel
Technical Support & Order Inquiries: support@golansama.com

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