



## Tulikivi new model range 2006

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### Exterior-Core Construction – Innovative Heating Technology

- The new exterior-core construction consists of separate interior and exterior stones.
- The interior stones form a functioning fireplace.
- The heat-retaining soapstone mass has been concentrated in the inner structures of the fireplace which make up more than 50% of the total mass.
- There are four types of cores: cores for square, vertical and horizontal door models and a core for corner models.
- Functional parts such as doors are attached to the core while the exterior stones act as lining. This allows for more freedom in the design of the exterior stones (structure and materials).
- Thanks to its exterior-core construction, a fireplace retains heat steadily and releases it over a prolonged period.

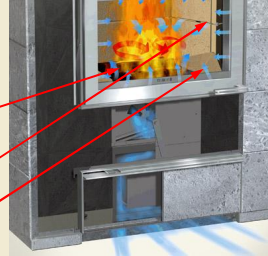


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## Tulikivi Whirlbox - Innovative Heating Technology

- The Tulikivi whirlbox combustion technology directs combustion air into the different parts of the firebox, which means the box's entire capacity is utilized effectively.
- About 20% of the total air that is fed into the combustion process goes through the grate (primary air).
- About 40% of combustion air is fed through the fireplace's panels (secondary air).
- About 40% of total air is fed through the firebox door in the form of rinsing air.
- The Tulikivi whirlbox
  - burns wood efficiently and impressively → high rate of efficiency ( $\eta \sim 85\%$ )
  - generates minimal emissions (e.g. CO  $\sim 700$  ppm)



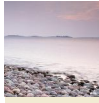
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## Test results

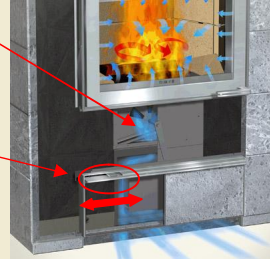
	Efficiency %	CO (mg/MJ)	NOX (mg/MJ)	OGC (mg/MJ)	Particles (mg/MJ)
Austrian requirement	78	1100	150	80	60
New products	85	729	71	59	9

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## Combustion Air Control Unit – Tight and Easy to Use

- The combustion air control unit is located at the front of the fireplace under the firebox door.
- The combustion air control unit has a simple and tight construction.
- The flow of combustion air is controlled by adjusting one lever.
- If necessary, the combustion air control unit can be replaced through the firebox door.



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## Heating a Fireplace – Simpler Than Ever



- The heating of new-generation Tulikivi fireplaces is even simpler than before.
  - The fireplace needs hardly any adjustment during heating.
  - Recommendations for how much wood should be burned (1 kg of wood / 100 kg of the fireplace's weight / heating) help the customer use the fireplace correctly.
  - The Tulikivi whirlbox burns wood cleanly and efficiently – less maintenance.
- Dry wood (moisture 15-20%) or wood briquettes should be burned in Tulikivi fireplaces.

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## Fine Particle Achievement of the Year 2006 to Tulikivi Corporation

The Fine Particle Forum, formed as part of the FINE technology programme at TEKES (Finnish Funding Agency for Technology and Innovation), presented Tulikivi with the 2006 Fine Particle Achievement of the Year award. One of the reasons given for choosing Tulikivi was the considerable effort the company has devoted to cleaner combustion technology that helps reduce emissions from small-scale burning of wood. Tulikivi has therefore improved air quality.



Puhtaanpöly polttotekniikka  
Vuoden  
Hiukkastekö  
2006  
Parempi ilmansaatu.

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## Fennia Prize 2007

- Die Produkte der neuen Specksteinofenkollektion der Tulikivi Oyj haben im Designwettbewerb Fennia Prize 2007 einen Ehrenpreis erhalten. Die Produkte wurden in enger Zusammenarbeit mit dem Designbüro Creadesign Oy von Hannu Kähönen entworfen.



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