

Hout verbranden



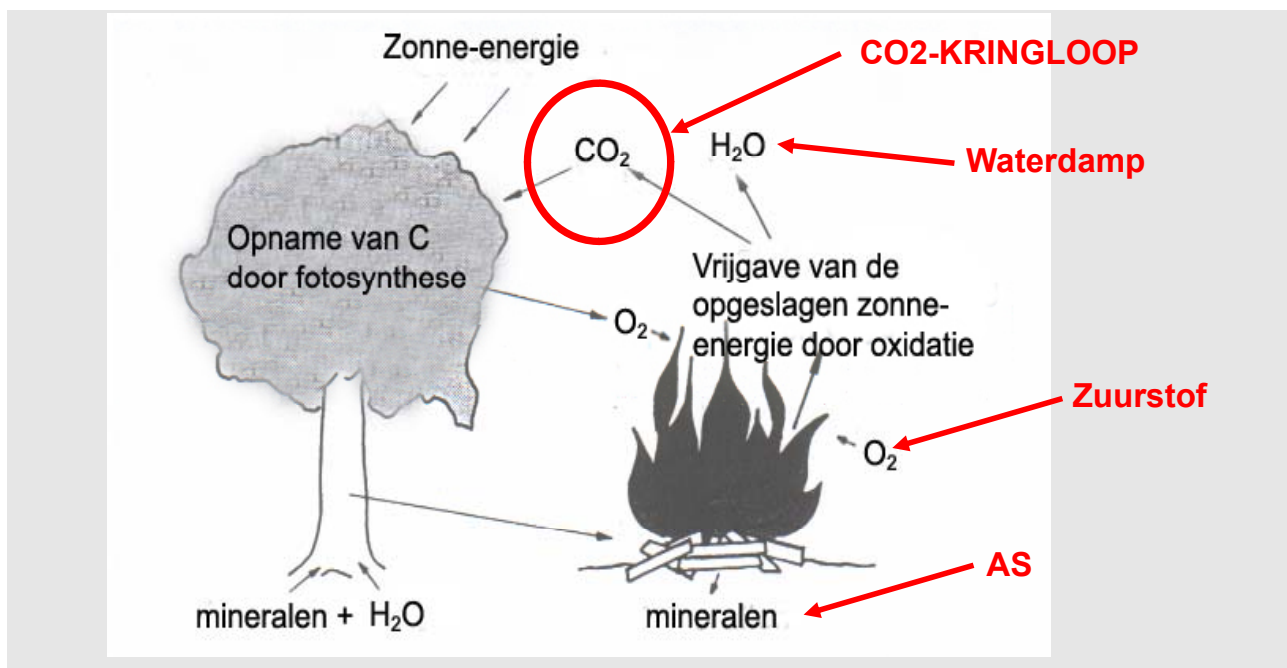
RIKA Metallwarengesellschaft m.b.H. & CO KG
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 office@rika.at

DVR-Nr. 0853135, Ust-IdNr. ATU50509800
 Eingetragen beim LG Steyr FN 200251 m, vertreten durch persönlich
 haftenden Gesellschafter RIKA GmbH, eingetragen beim LG Steyr FN 61288 f,
 Geschäftsführer: Karl Stefan Riener

ing. Ludwig Van Wonterghem – Stroomop bvba - Kuurne

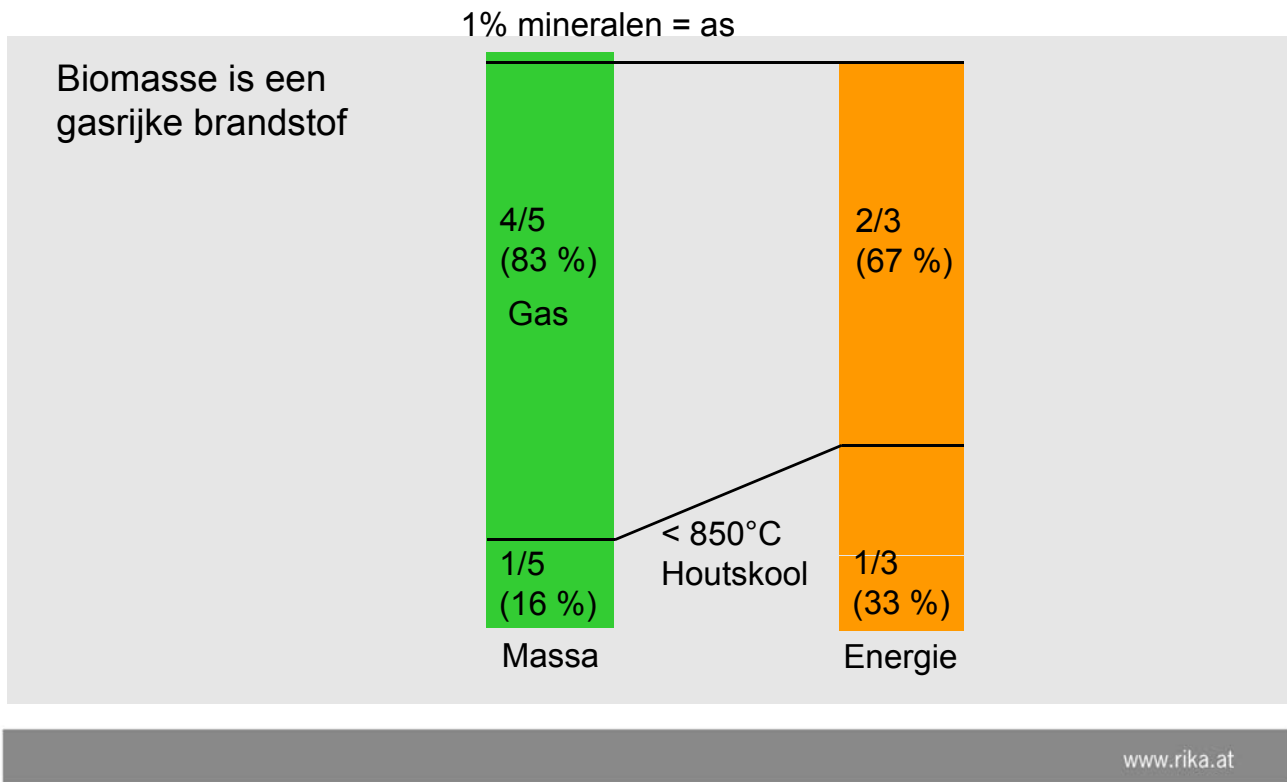
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De brandstof hout



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De brandstof hout



De verbranding



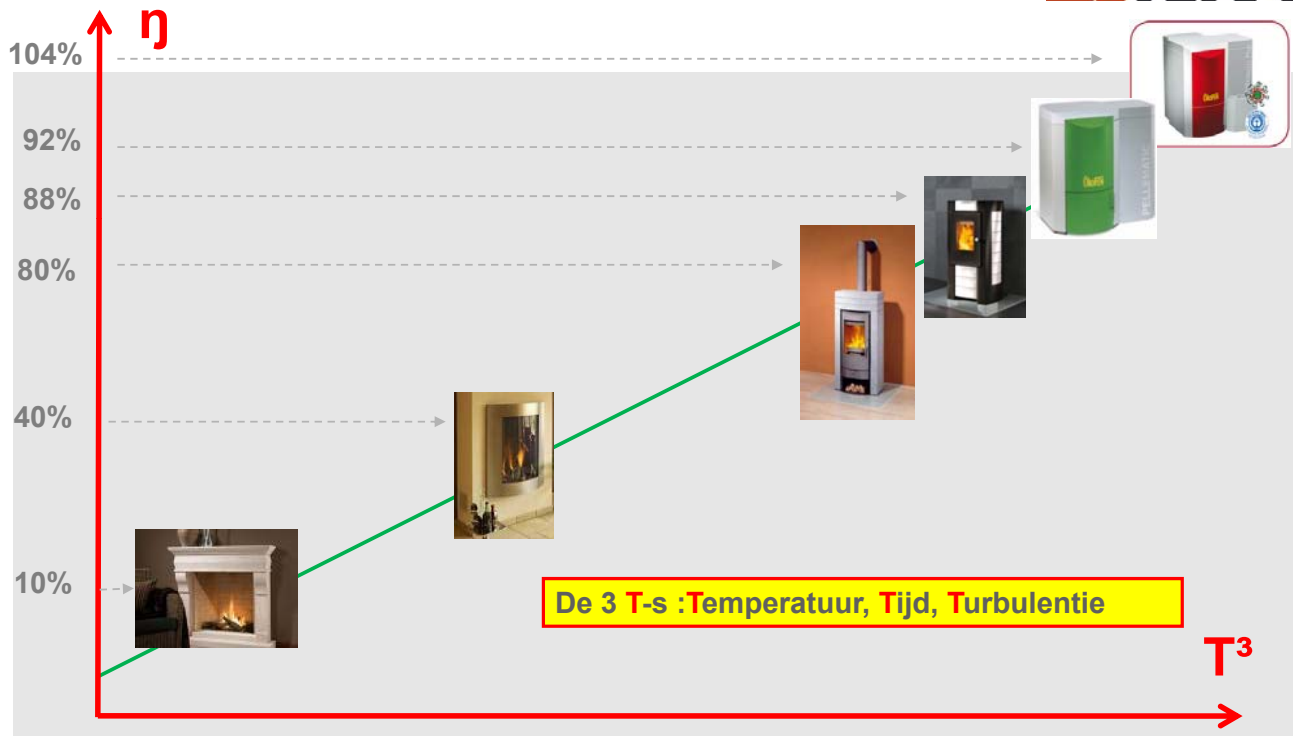
De 3 : T's

Temperatuur

Tijd

Turbulentie

Rendementen bij houtverbranding



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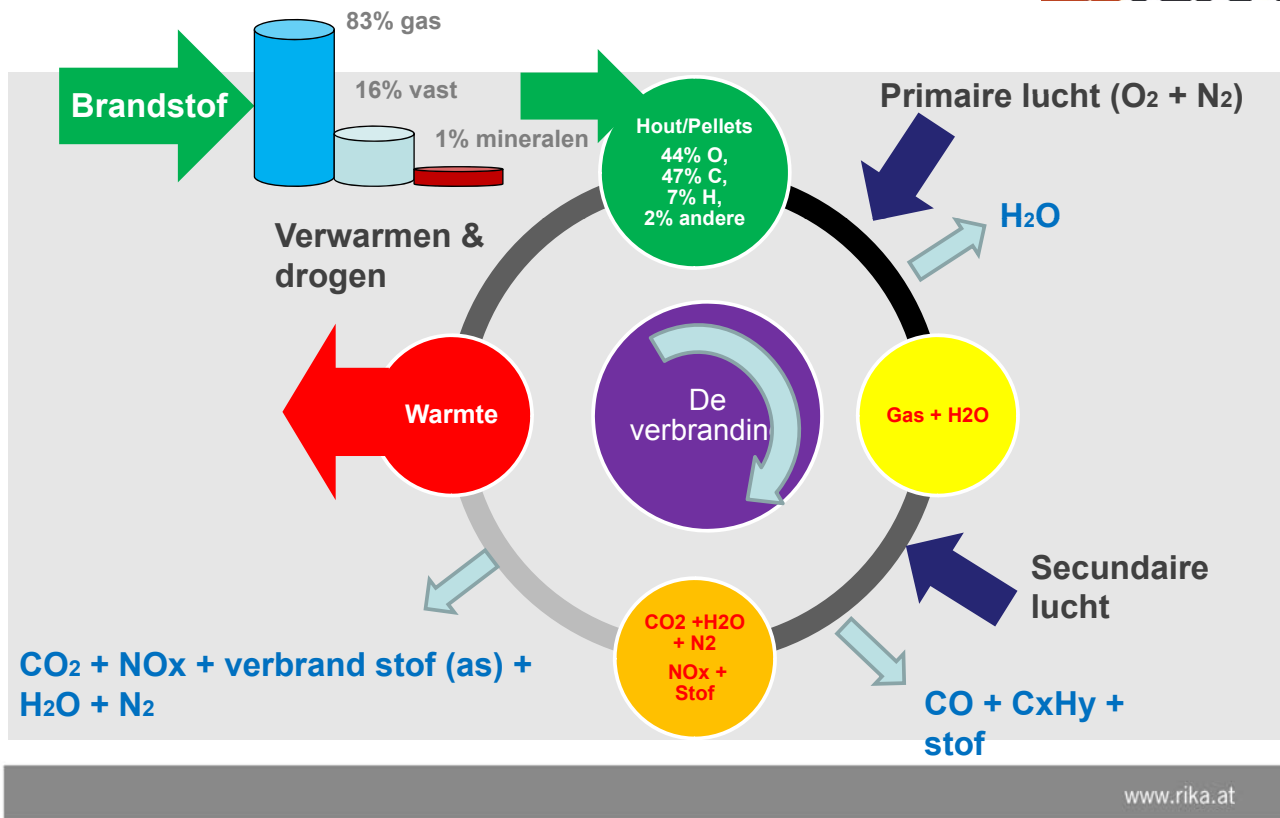
De verbranding



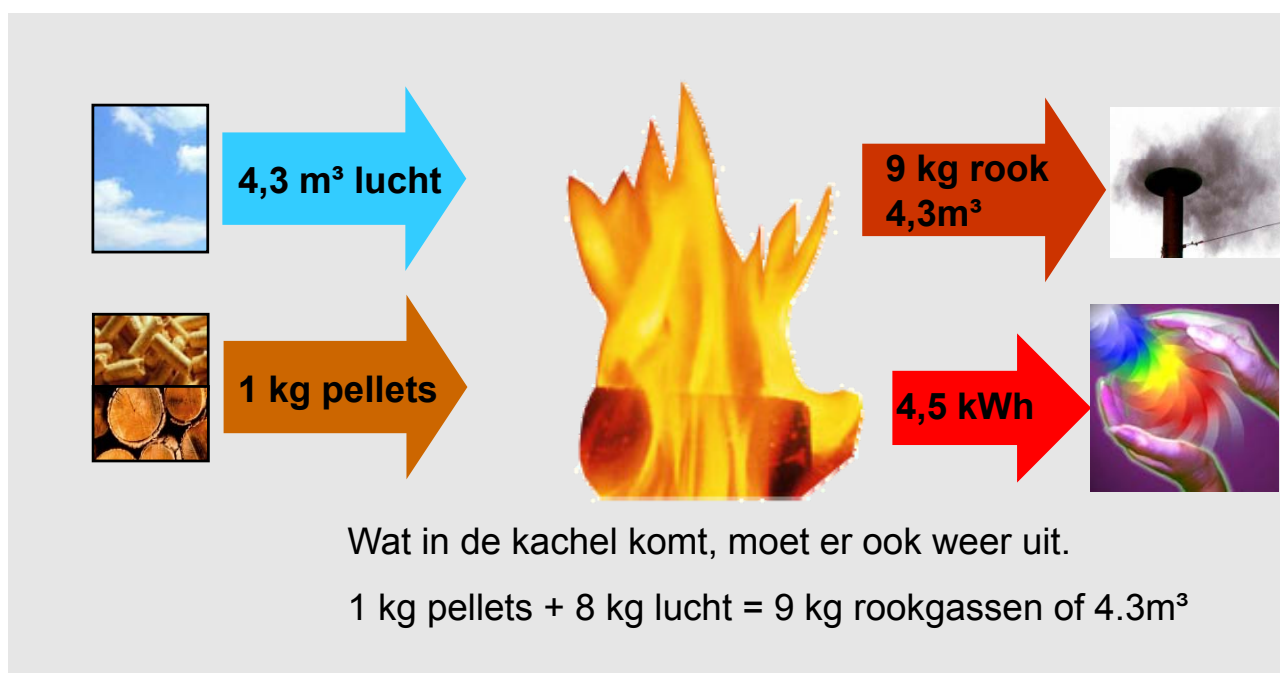
1. Verwarmen en drogen (100°C)
hout : 15 à 20%, pellets : 8% vocht !
2. Pyrolyse (150°C) (intern, $\lambda = 0$) (CO en teer)
3. Ontgassing (250°C) $\lambda < 1$
4. Vergassing van de koolstof (500°C) $\lambda < 1$
5. Oxidatie van de gassen (tussen 700 en 1400°C) $\lambda > 1$

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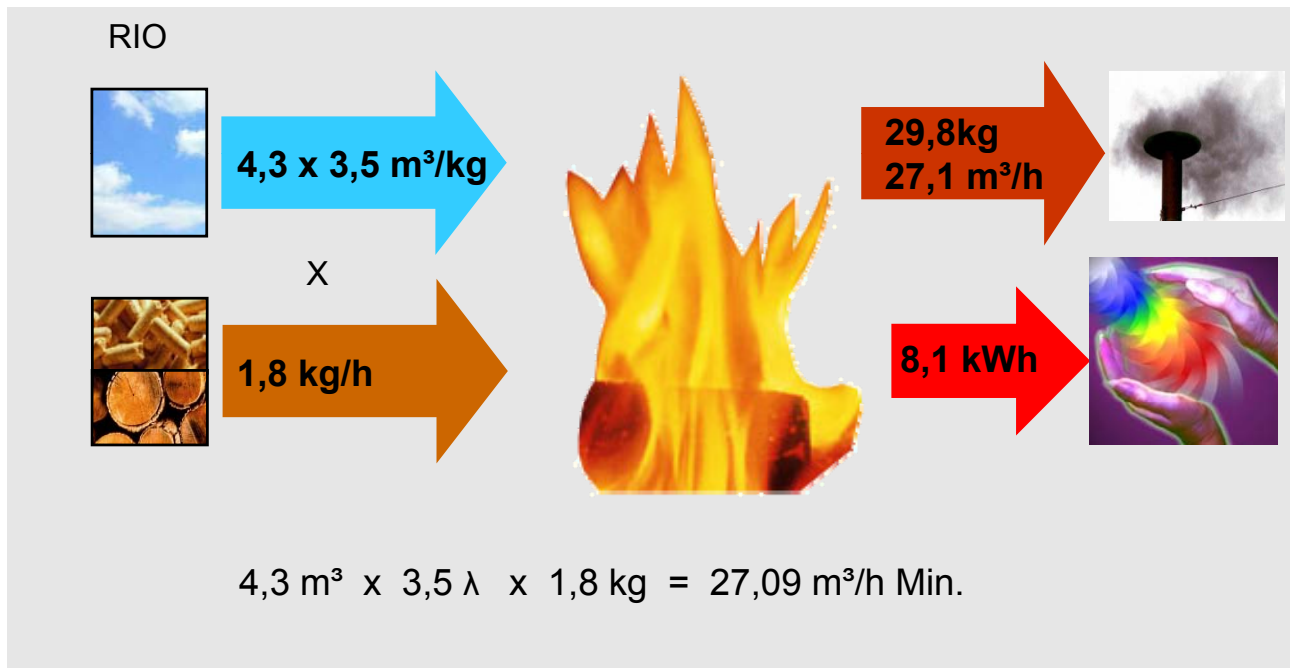
Verbranding van hout & pellets



Verhoudingen

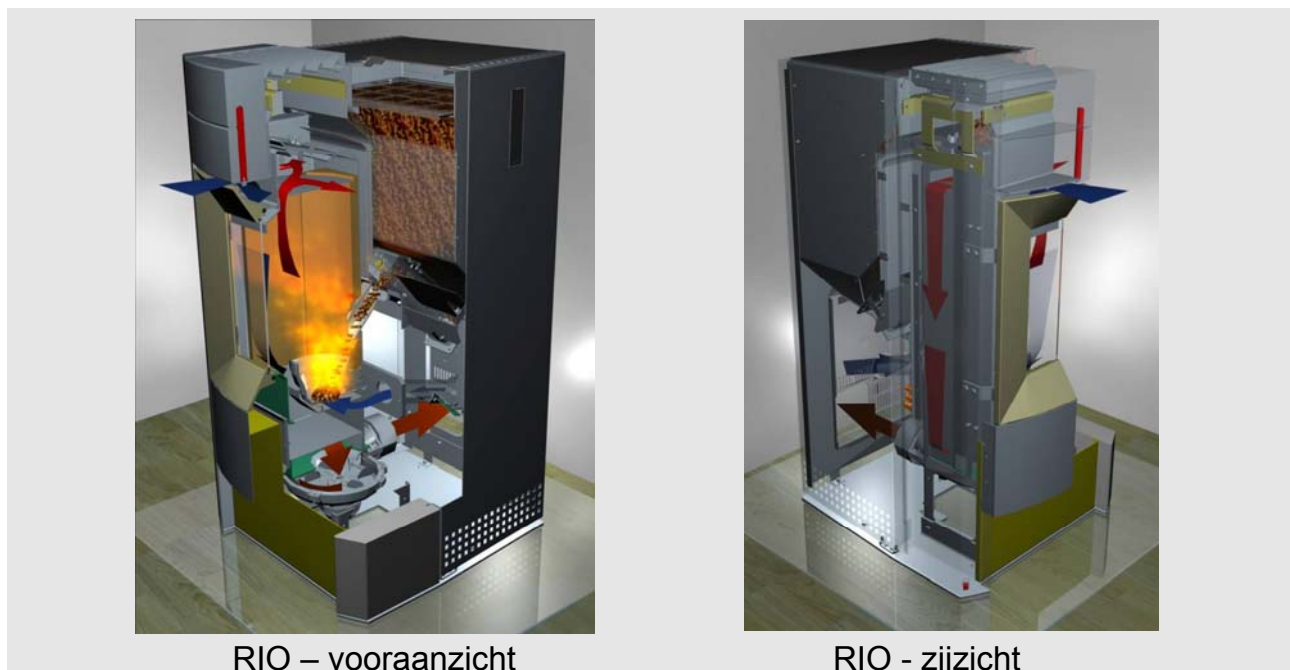


Voorbeeld



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Rookgaskanalen



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'Valse' lucht

