



**COMBUSTION EFFICIENCY OF GAS FIRED APPLIANCES
(With Slochteren gas)**

Formula:

$$R = 100 - \left(0.95 + \frac{37.2}{\%CO_2} \right) \frac{T - t}{100}$$

R = Efficiency%

% CO₂ = % CO₂ measured in flue gases

T = stack temperature in °C

t = Combustion air temperature.

N.B.:

- 1) CO₂ and stack temperature must be measured at same point.**
- 2) This formula is valid only for complete combustion without CO or unburnt fraction**
- 3) Only Slochteren Gas.**

Example:

CO₂ 8% and T - t = 160°C

$$R = 100 - \left(0.95 + \frac{37.2}{8} \right) = 91\%$$