

Correction of performance parameters for actual site conditions

- 1) Net gear shaft power output = $P \times \delta - DP_{in} - DP_{ex}$
- 2) Net generator power output = Net gear shaft power output $\times \eta_{gen}$
- 3) Fuel consumption = $Q_f \times \delta$
- 4) Exhaust mass flow rate = $M_{ex} \times \delta$
- 5) Recoverable exhaust heat (referred to 160°C stack temperature) = $Q_{ex} \times \delta$

NOTE: If T_{stack} is different from 160°C, then:

$$\text{Recoverable exhaust heat} = [Q_{ex} + (160 - T_{stack}) \times 1.048^{**} \times M_{ex}] \times \delta$$

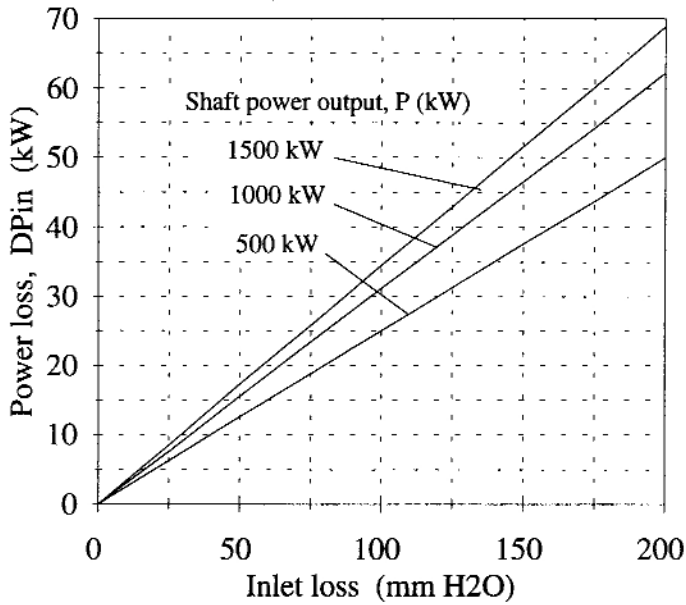


Figure 4: Correction for intake duct losses

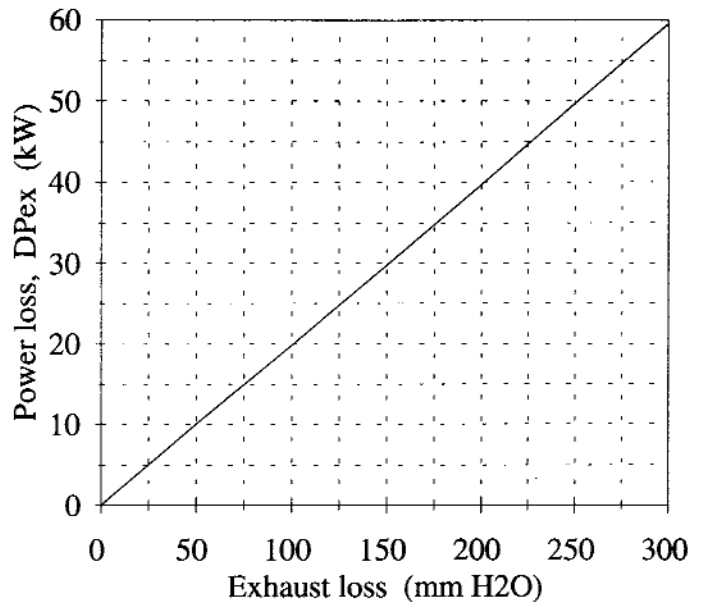
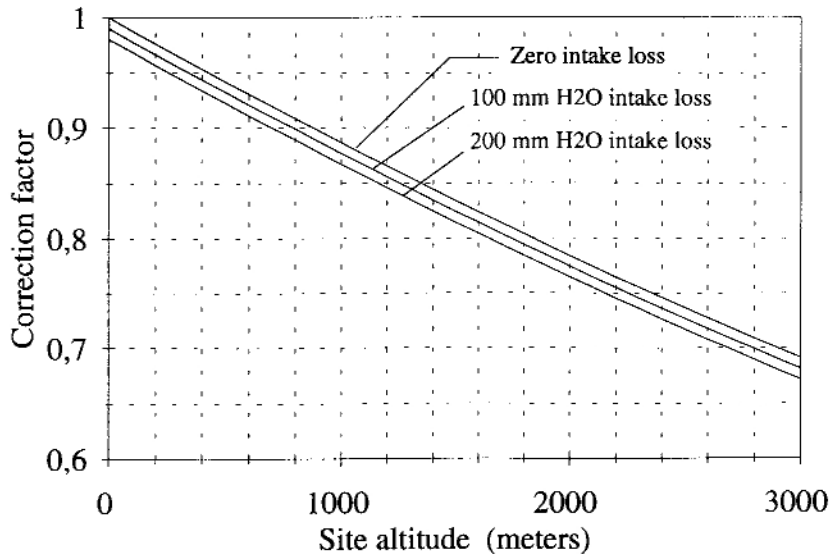


Figure 5: Correction for exhaust duct losses



The correction factor is denoted δ in the equations.

Figure 6: Correction for site altitude

For information purposes only. Contractual data to be supplied for each specific site.