

Equations:

$$t_c = \frac{t_s + T}{\left(1 + a d_w R \frac{t_s + T}{b P}\right)}, \quad (1)$$

where t_c is the corrected air temperature (°C), t_s , d_w and P are the air temperature (°C), H₂O density (g m⁻³) and air pressure (kPa) measured by the Irgason correspondingly; $T = 273.15$ °K; a and b are the empirical coefficients equal to 0.32 and 18.02 correspondingly.