



$\dot{m}_{en \leftrightarrow sp}$ = rate of water exchange between the environment and the seat patch of the frog ($\text{kg} \cdot \text{s}^{-1}$)

$\dot{m}_{sp \leftrightarrow bl}$ = rate of water exchange between the seat patch and the blood circulating to the core ($\text{kg} \cdot \text{s}^{-1}$)

A_v = the surface area through which water is exchanged between the environment and the frog (m^2)

A_{bl} = the surface area through which water is exchanged between the seat patch and the blood stream (m^2)

K_{sp} = the hydric conductance of the skin to water exchange with the environment ($\text{kg} \cdot \text{N}^{-1} \text{s}^{-1}$)

K_{bl} = the hydric conductance for transport of water between the seat patch and blood ($\text{kg} \cdot \text{N}^{-1} \text{s}^{-1}$)

Ψ_{sp} = the water potential of the seat patch (Pa)

Ψ_{en} = the water potential of the environment (Pa)

Ψ_{bl} = the water potential of the blood (Pa)