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NOMENCLATURE

A_g	visible area of window, m ²
C	thermal conductance, W. m ⁻² . °C ⁻¹
CDD	cooling degree-days, °C. days
E_c	cooling load, J

E_H	heating load, J
EER	coefficient of performance of the cooling system, dimensionless
g	solar energy transmittance of the glass, dimensionless
HDD	heating degree-days, °C. days
N	total number of time steps, dimensionless
P	weight of window, kg
q_c	summer load per unit area, J. m ⁻²
q_H	winter load per unit area, J. m ⁻²
q_s	solar energy per unit area transmitted through the window, J. m ⁻²
RH	relative humidity, %
T_b	internal base temperature, °C
T_o	daily average outdoor air temperature, °C
T_p	perceived daily average outdoor temperature, °C
$T_{1,j}$	temperature of surface 1 at time step j, °C
$T_{2,j}$	temperature of surface 2 at time step j, °C
U	thermal transmittance, W. m ⁻² . °C ⁻¹

Greek symbols

η	efficiency of heating system, dimensionless
φ_j	heat flux at time step j, W. m ⁻²
ϕ_s	solar energy incident on the window, J. m ⁻²