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NOMENCLATURE

A	Area, m^2
G	solar irradiation, w/m^2
q	Mass flow rate, kg/s
Ti	inlet temperature of the air, °C
To	outlet temperature of the air, °C
Tair	Air temperature in the middle of the collector, °C
Tabs	absorber temperature in the middle of the collector, °C
Tamb	ambient temperature, °C
UL	overall heat loss coefficient, $w/m^2.K$
F_R	Removal factor efficiency, /
PPV	Power of the PV cell, Watt
PF	Fan power, Watt
VF	Fan speed, m/h
Ω	fan rotation speed, Rpm
Cp	Air specific heat, J/kg.K
qv	volume flow rate, m^3/h
qm	mass flow, kg/h
Im	Current measured, A
Um	Voltage measured, volt
Q	Thermal power, watt

Greek symbols

α	Absorptivity of Absorber
τ	Transmissivity of glass
ηel	electrical efficiency, %
ηth	thermal efficiency, %

Subscripts

i	incident
u	useful
o	lost
a	absorbed
t	inertia