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NOMENCLATURE

\dot{m}_w	Water mass flow rate (kg/s)
\dot{m}_a	Air mass flow rate (kg/s)
p_1	Initial pressure for nozzle (bar)
p_2	Final pressure for nozzle (bar)
Q_a	Air volume flow rate (m ³ /s)
Q_1	Initial volume flow rate for nozzle (m ³ /s)
Q_2	Final volume flow rate for nozzle (m ³ /s)
Q_w	Water volume flow rate (m ³ /s)
$T_{a,i}$	Inlet air temperature (°C)
$T_{a,o}$	Outlet air temperature (°C)
$T_{db,i}$	Dry-bulb temperature of inlet air (°C)
$T_{db,o}$	Dry-bulb temperature of outlet air (°C)
T_{wb}	Wet-bulb temperature of the air (°C)
v_a	Inlet air velocity (m/s)
x	Specific humidity (kg _w /kg _a)
$x_{a,i}$	Inlet air specific humidity (kg _w /kg _a)
$x_{a,o}$	Outlet air specific humidity (kg _w /kg _a)

Greek symbols

η_c	Global cooling efficiency (%)
$\Psi_{a,i}$	Inlet air humidity (%)
$\Psi_{a,o}$	Outlet air humidity (%)

Subscripts

a	Air
i	Inlet
o	Outlet
db	Dry-bulb
w	Water
wb	Wet-bulb