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NOMENCLATURE

A_1	Inlet area of channel (m ²)
A_2	Outlet area of channel (m ²)
A_p	Cross section area of the pipe (m ²)
C_p	Specific heat at pressure constant (J/kg. °C)
F	Friction factor
G	Acceleration due gravity (m ² /s)
K_1	Inlet pressure loss coefficient
K_2	Outlet pressure loss coefficient
K_{30}	Elbow pressure loss coefficient

\dot{m}	Air mass flow rate (kg/s)
N	Number of air change (1/hr)
P_1	Pressure at inlet of the pipe (Pa)
P_2	Pressure at outlet of the pipe (Pa)
Q	Volume flow rate (m ³ /s)
v	Velocity through the cross-section area (m/s)
v_1	Velocity at inlet of channel (m/s)
v_2	Velocity at outlet of channel (m/s)

Greek symbols

θ	Tilt angle (degree)
ρ_1	Density of air at inlet of the pipe (kg/m ³)
ρ_2	Density of air at outlet of the pipe (kg/m ³)
ρ_T	Density of air at any temperature (kg/m ³)
β	Thermal expansion coefficient of air (1/K)