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|-----------|---|
| 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) |

NOMENCLATURE

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|-------|--|
| 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 |

Greek symbols

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|----------|---|
| 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) |