

Table 1: Summary of the model

Model	Inputs	Outputs	Parameters	Variables
Model 1	Temperature, Humidity, Wind Speed	Energy Consumption	Energy Efficiency, Thermal Conductivity	Temperature, Humidity, Wind Speed
Model 2	Temperature, Humidity, Wind Speed, Solar Radiation	Energy Consumption, Solar Radiation	Energy Efficiency, Thermal Conductivity, Solar Radiation	Temperature, Humidity, Wind Speed, Solar Radiation
Model 3	Temperature, Humidity, Wind Speed, Solar Radiation, Air Quality	Energy Consumption, Solar Radiation, Air Quality	Energy Efficiency, Thermal Conductivity, Solar Radiation, Air Quality	Temperature, Humidity, Wind Speed, Solar Radiation, Air Quality
Model 4	Temperature, Humidity, Wind Speed, Solar Radiation, Air Quality, Building Structure	Energy Consumption, Solar Radiation, Air Quality, Building Structure	Energy Efficiency, Thermal Conductivity, Solar Radiation, Air Quality, Building Structure	Temperature, Humidity, Wind Speed, Solar Radiation, Air Quality, Building Structure
Model 5	Temperature, Humidity, Wind Speed, Solar Radiation, Air Quality, Building Structure, Occupancy	Energy Consumption, Solar Radiation, Air Quality, Building Structure, Occupancy	Energy Efficiency, Thermal Conductivity, Solar Radiation, Air Quality, Building Structure, Occupancy	Temperature, Humidity, Wind Speed, Solar Radiation, Air Quality, Building Structure, Occupancy