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SBD Lab

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Dataset for an Office Building in Ouagadougou's Sahelian Climate

Version 1.0



Bouda, Alphonse; Attia, Shady; Hema, Cesaire; Adamah, MESSAN, 2025, "Dataset for an Office Building in Ouagadougou's Sahelian Climate", <https://doi.org/10.7910/DVN/CFXIFW>, Harvard Dataverse, V1

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Description 

This dataset presents hourly indoor and outdoor measurements of air temperature and relative humidity collected in a six-story office building (R+6) located in Ouagadougou, Burkina Faso. Measurements were recorded in an air-conditioned office during two representative climatic periods: from November 20 to December 19, 2023, and from March 14 to April 13, 2024. The dataset includes four primary variables: outdoor air temperature (Ta_out, °C), outdoor relative humidity (RH_out, %), indoor air temperature (Ta_int, °C), indoor relative humidity (RH_int, %) and indoor air velocity (Va_ind, m/s). Outdoor conditions exhibit typical diurnal temperature cycles of the Sahelian climate, while indoor conditions reflect controlled thermal comfort during working hours and passive response during nights and weekends. The dataset is intended for model calibration and validation in building energy simulations using tools such as DesignBuilder and EnergyPlus. (2025-10-30)

Feedback

Keyword 

Sahelian climate, Indoor environmental quality, Thermal comfort, Building monitoring, Office building, Field measurements










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