Low energy museum stores and archives in Denmark – and worldwide

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Museum stores are not for people
Temperature controls chemical decay
Rate of decay by hydrolysis
Rate of decay by hydrolysis
Rate of decay by hydrolysis
Rate of decay by hydrolysis
Royal Library, Copenhagen
Full HVAC for control of T and RH
Climate range with HVAC

28 kWh/m³

Temperature (°C)

Relative humidity (%)
Dehumidification
Climate with dehumidification

6 kWh/m³

28 kWh/m³

Temperature (°C)

Relative humidity (%)
Airplane shelter, heavy design
constant RH, variable T
Museum store, Ribe
Climate with temperature inertia and dehumidification

![Graph showing climate with temperature inertia and dehumidification](image)
No daily variations in T and RH
Summer

20 °C

dehumidifier

50 %RH

16 °C

14 °C
Heat storage in the ground

February

August
Low energy store in Canberra, ACT