

Adiabatic cooling: once impractical – now a game changer



Outdoor conditions:
32°C | 25% relative humidity

Hall conditions without measures:
34,5°C | Outside air humidity

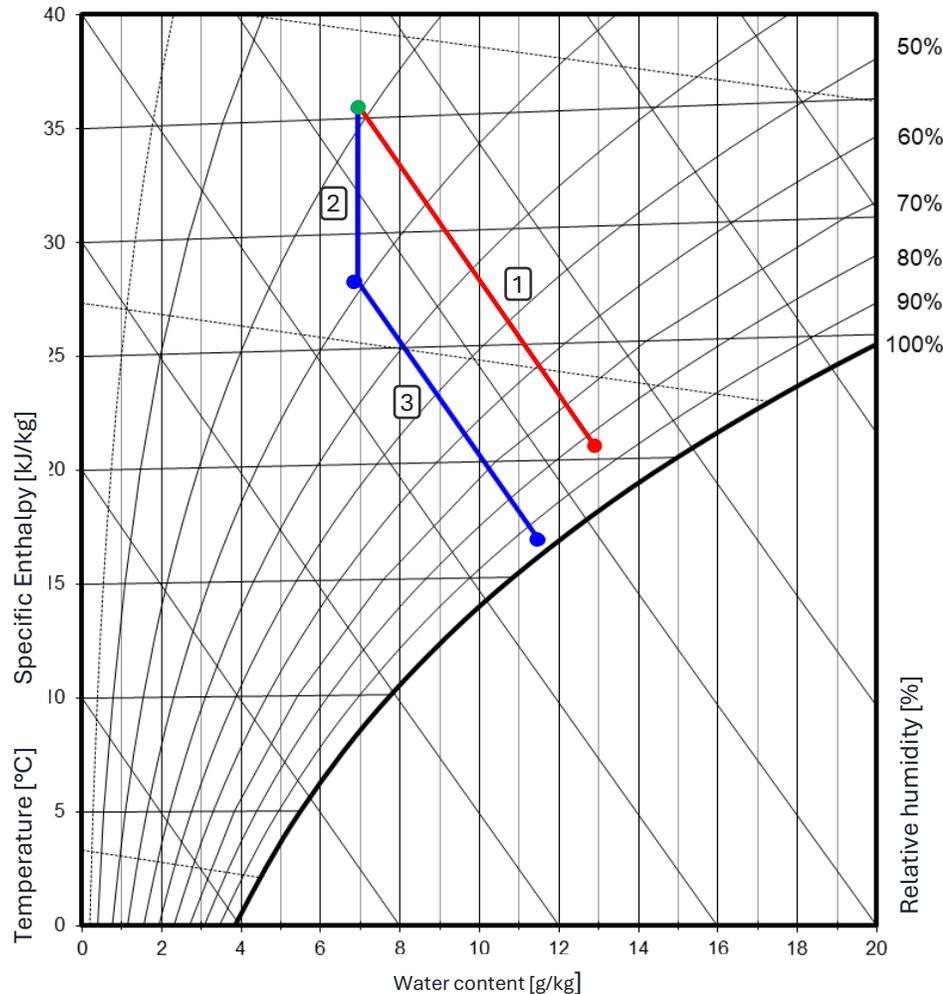
With **single-stage** adiabatic cooling system:
28.5 °C | 13.0 g/kg humidity
Uncomfortable
EN-16798 | ASHRAE 55

INFRANORM®

With **two-stage** adiabatic cooling system:
24.5 °C | 11.6 g/kg humidity
Comfortable
EN-16798 | ASHRAE 55

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(Real Climatedata Vienna 2023)



+ IN THE PAST: single-stage adiabatic cooling:
1 = direct adiabatic cooling

+ TODAY: two-stage adiabatic cooling:
2 = indirect 'dry' cooling
3 = direct adiabatic cooling

+ Result:
Significantly lower humidity with a much cooler supply air temperature

→ pleasantly cool indoor air conditions instead of a warm, humid greenhouse-like climate.