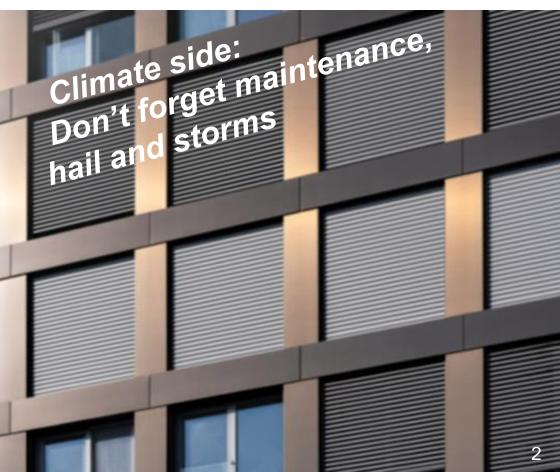
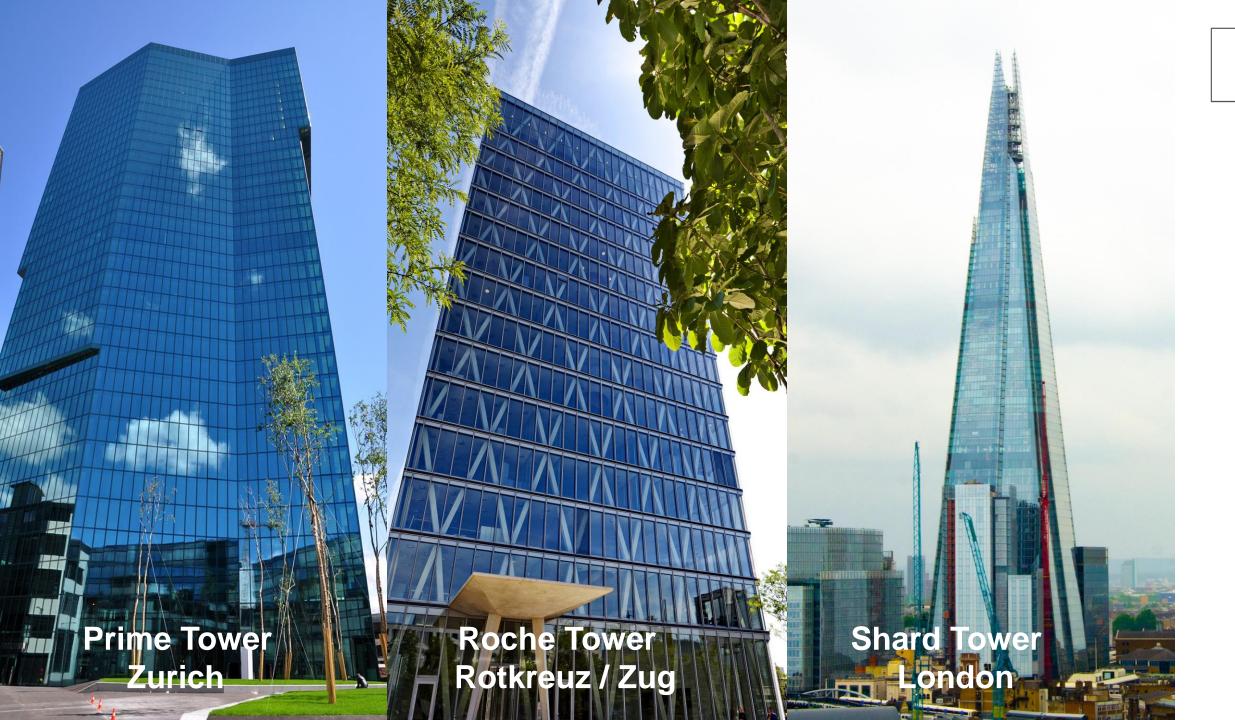


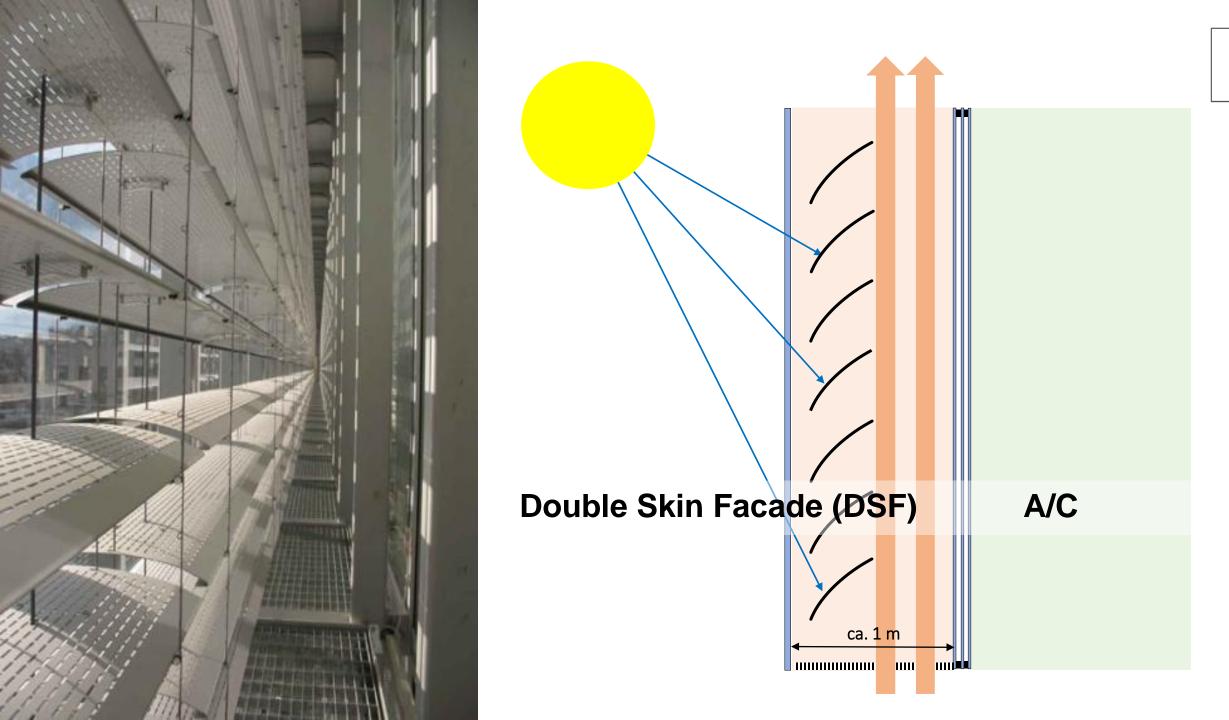


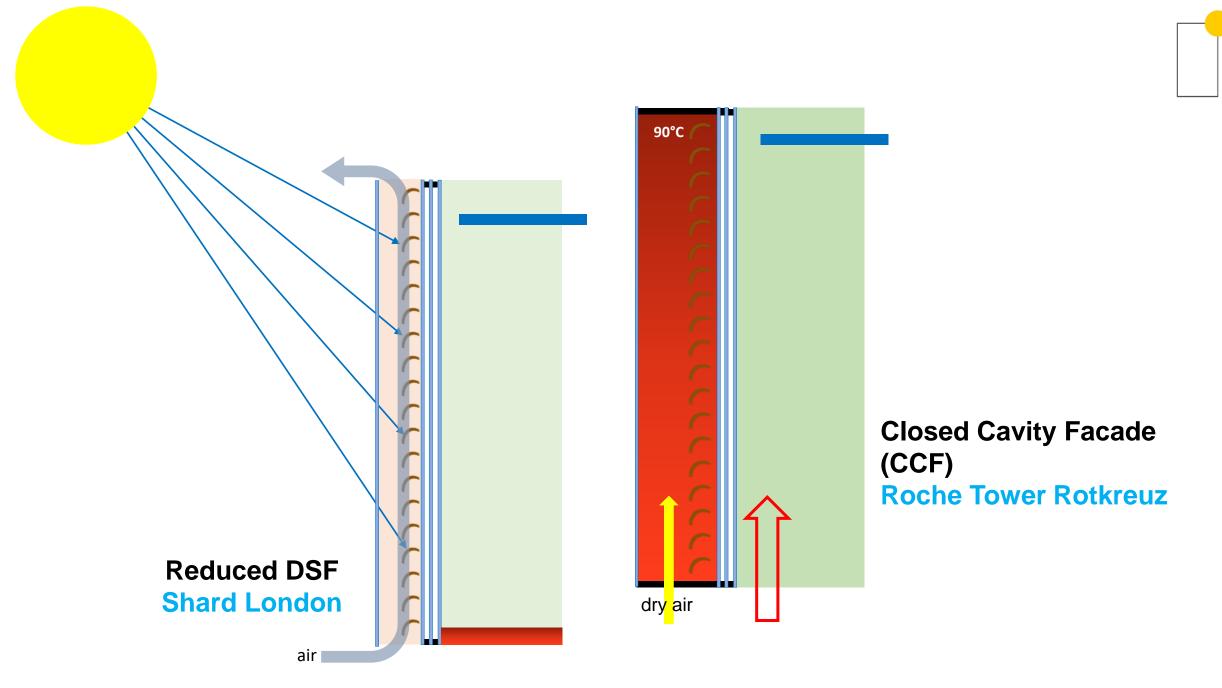
What is the best sunshield design?

Answer for high rise buildings: None of these two.



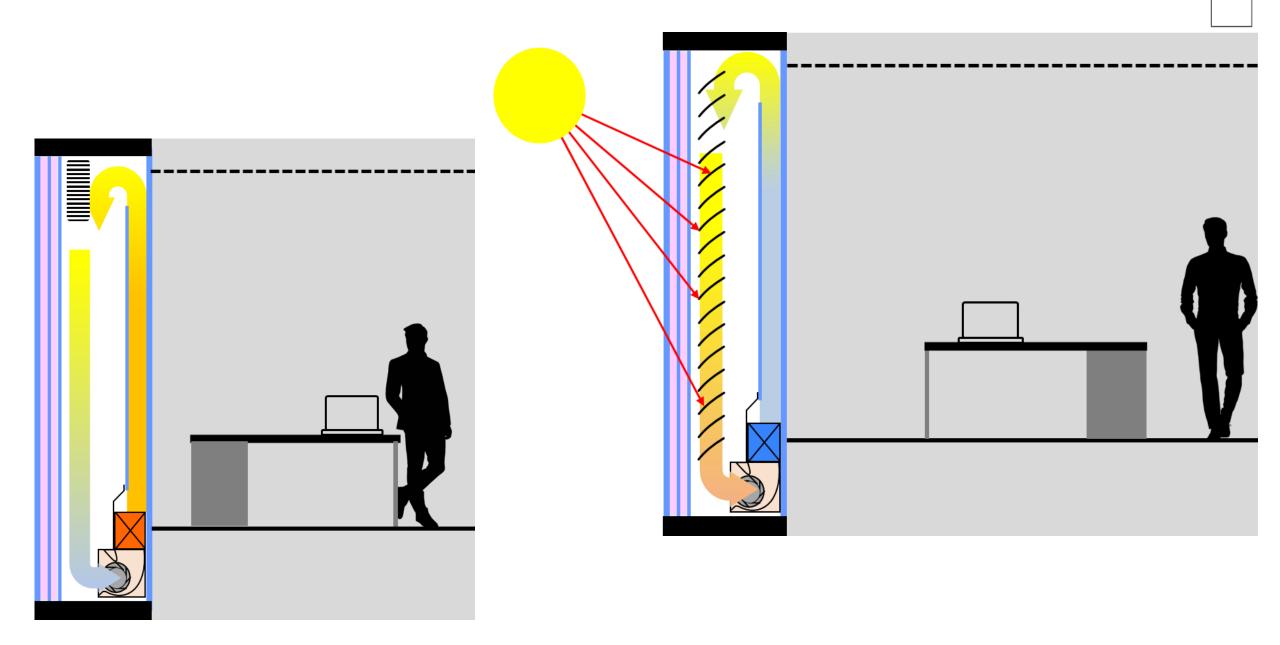




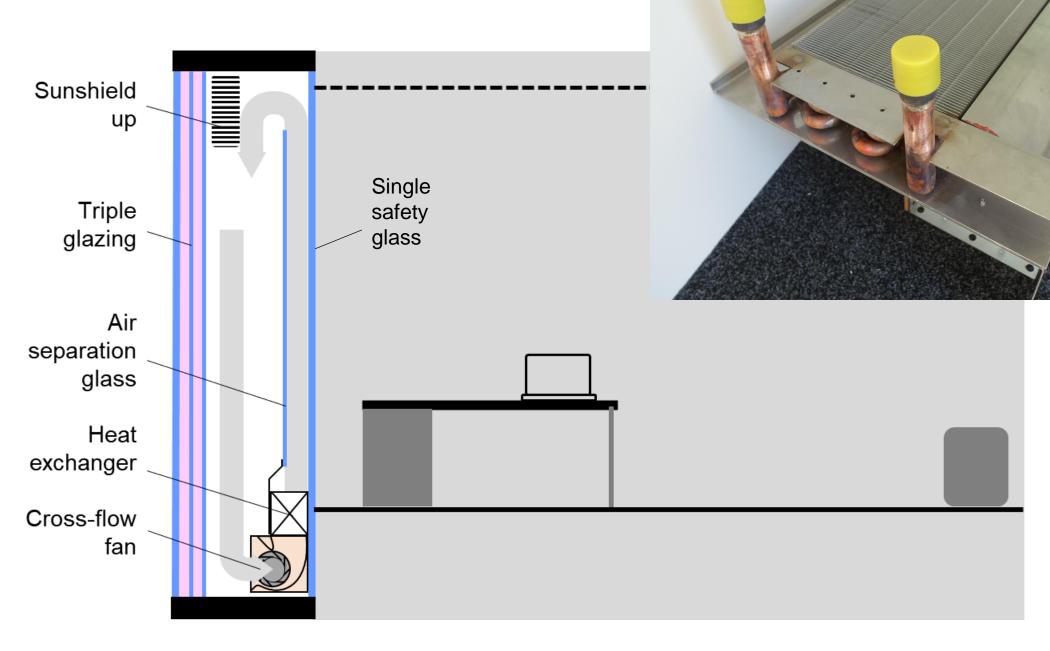




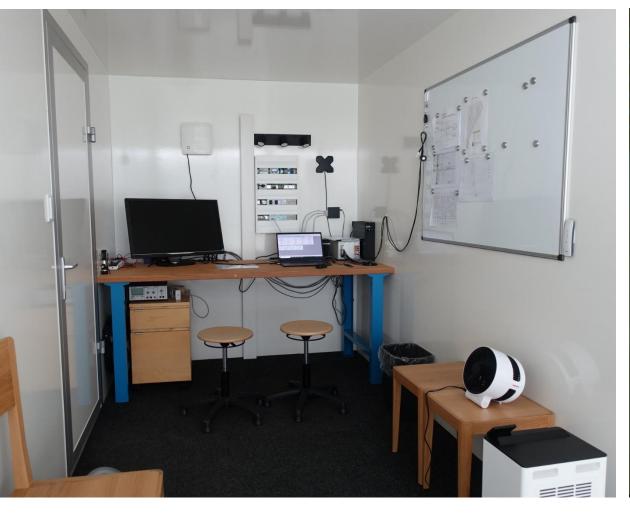
Winter (left) and summer operation (right)



Our solution is different



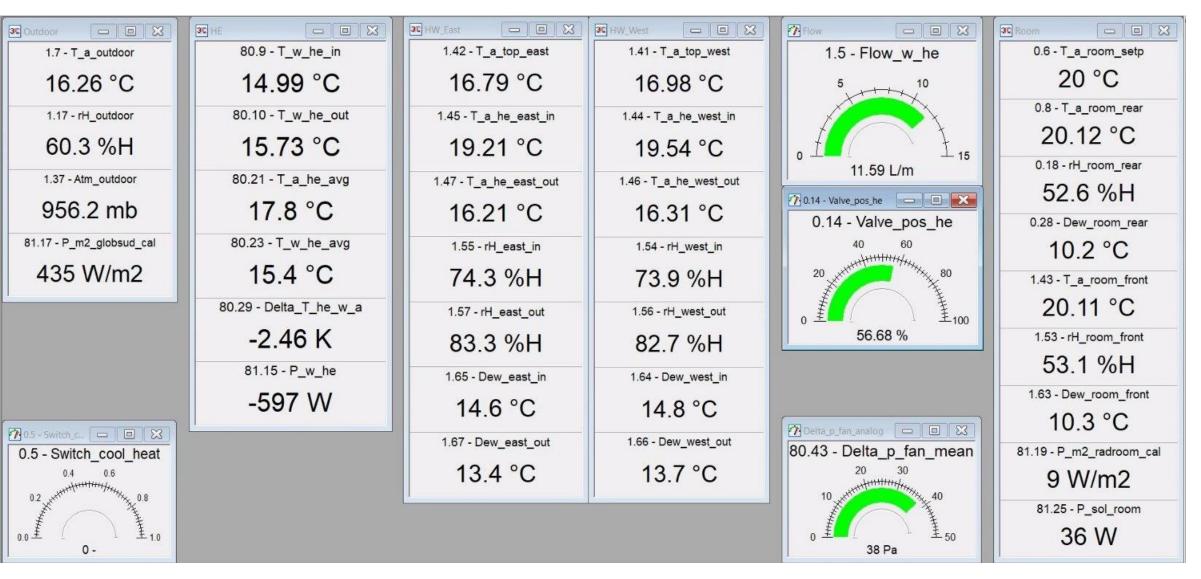
HyWin Test Unit



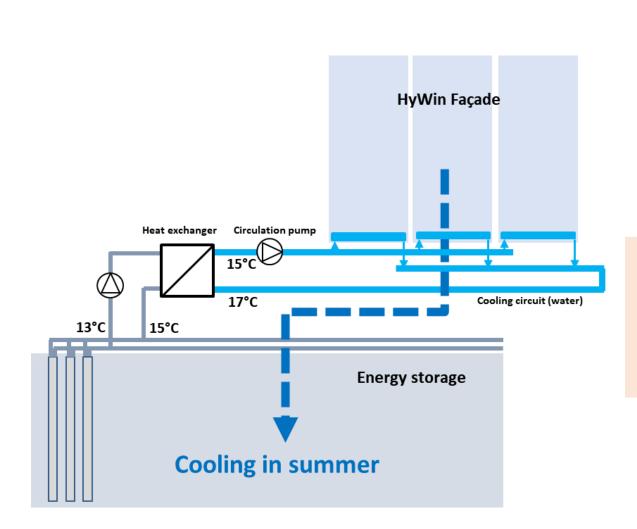


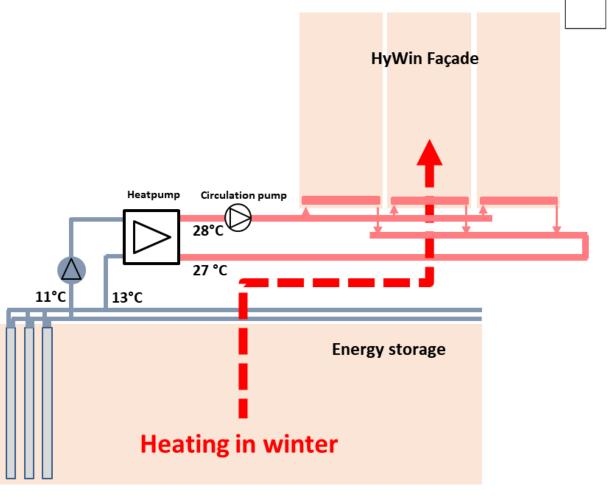
Datalogger with more than 50 sensors

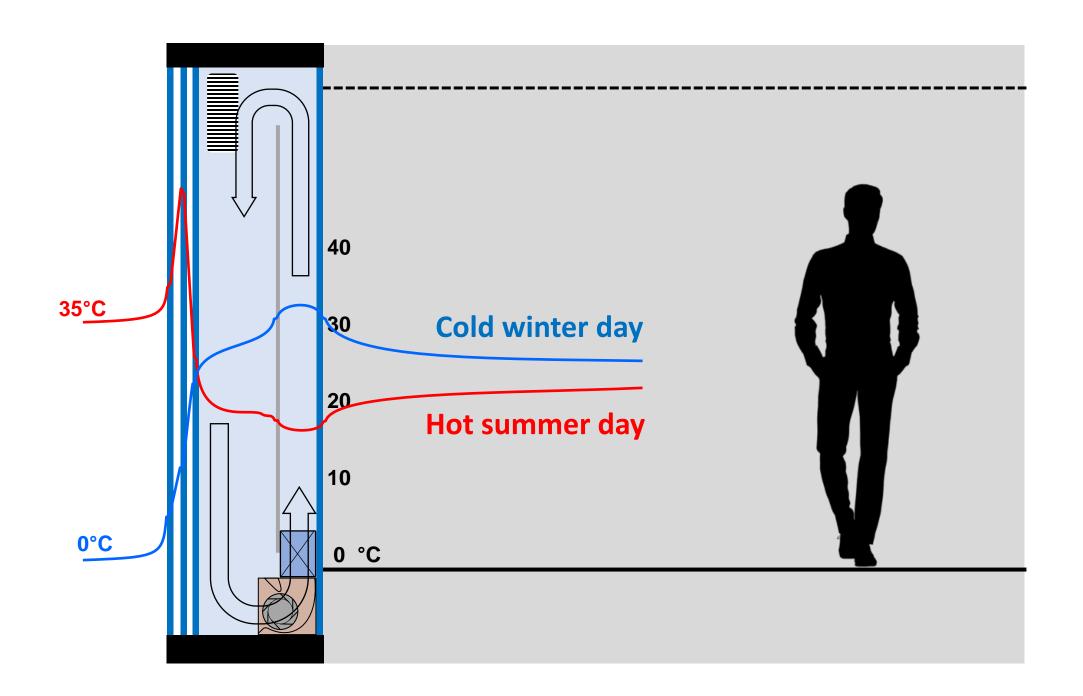




Seasonal storage







Conclusion

HyWin

- + Improved comfort with less energy consumption
- + Excellent room control: No direct heat transfer from outside to the room
- + Regeneration of geothermal probes (seasonal storage) without additional cost
- + Excellent lifetime of all components (and easy maintenance)
- + No additional heating
- + No additional cooling (if internal heat < 80 W/m² HyWin facade)
- + Easy integration of PV in the facade (perfect corelation)
- HyWin is new and different > looks like high tech
- To keep the seasonal storage in balance > we need some additional consumers
- HyWin combines two totally different technologies:
 facade building and room conditioning

