

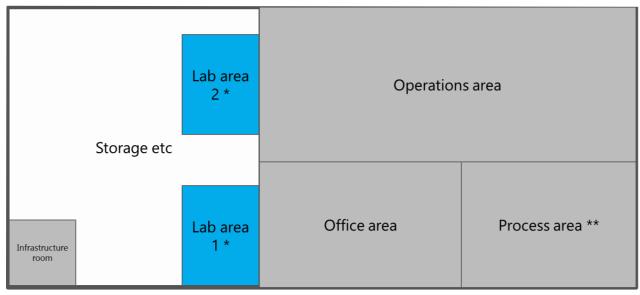






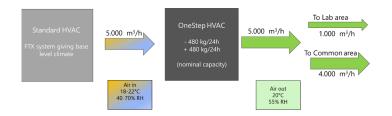
THE LABORATORY

- A analysis company had severe problems with unstable indoor climate impacting test results of their operations.
- The general air treatment system created a fairly stable temperature however with highly varying humidity.
- The building was supported by a standard FTX system providing 5.000 m3 /h. The most critical environmental requirement was in two lab areas with a volume of only 200 m3.
- Local temperatures were controlled with small AC installations in the rooms – humidity however varied a lot even during a single day. In the process area humidity was during times increased to above 70% to create favorable conditions.
- During cold winter days with a general low indoor humidity (after heating air) it was at times difficult to reach the desired level.
- In the general operations and office areas air conditions were acceptable even if staff sometimes complained about dry air during winter and excess humidity during late summer.
- Door openings in the storage area created short interruptions with inflow of outside air.

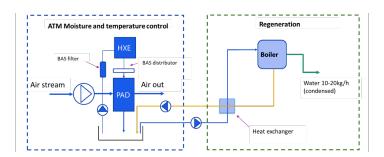


^{*} Requirement for very stable climate

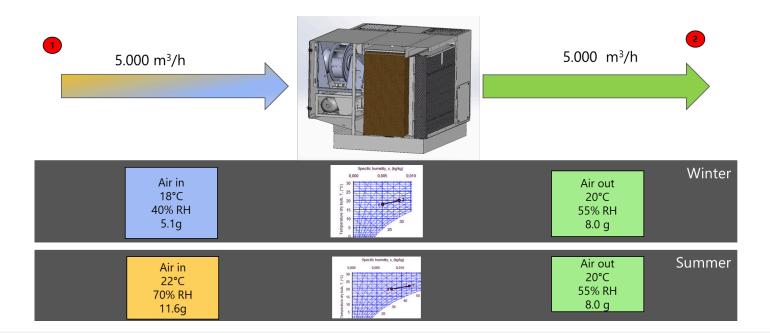
^{**} Humidified during periods to 70% RH



- The AWG OneStep HVAC was installed in series with the existing basic air handling unit functioning as a stabilizing element.
- Depending on input air the unit acts as a dehumidifier/cooler or humidifier/heater.



- The CVP (controlled vapor pressure) system operates in two separate processes.
- In the ATM/Absorber module moisture is removed/added to the air stream and simultaneously the air temperature is set with a heat exchanger (HXE)



RESULTS:

- Perfect stable climate (temperature and humidity) in the critical lab areas to a set area for T in the 18 – 22*C range with RH 40 – 60%
- Climate variation is only a few % over the day and year
- More stable general conditions in offices and operational areas creating a healthy working environment throughout the year
- Starting from a higher room humidity conditions could be set as preferred in the process area requiring higher humidities (RH 70% +)

ABOUT US

Airwatergreen design, manufacture and sell air treatment products for all climatic conditions.

Dehumidifiers to control the air humidity and products to maintain a stable indoor climate controlling both the humidity level and the temperature.

Our products are designed using our patented methods. Methods that generate a range of unique advantages.

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