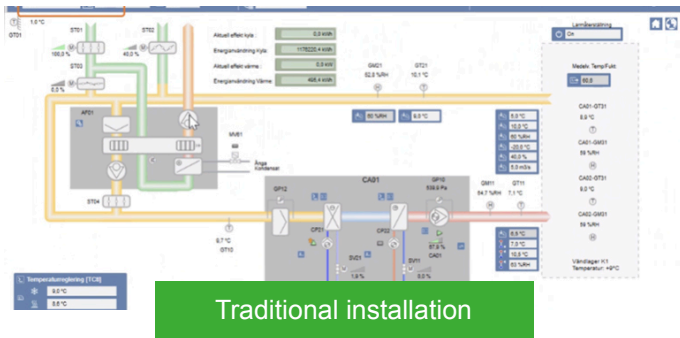




ONESTEP HVAC APPLICATION THE COLD STORAGE



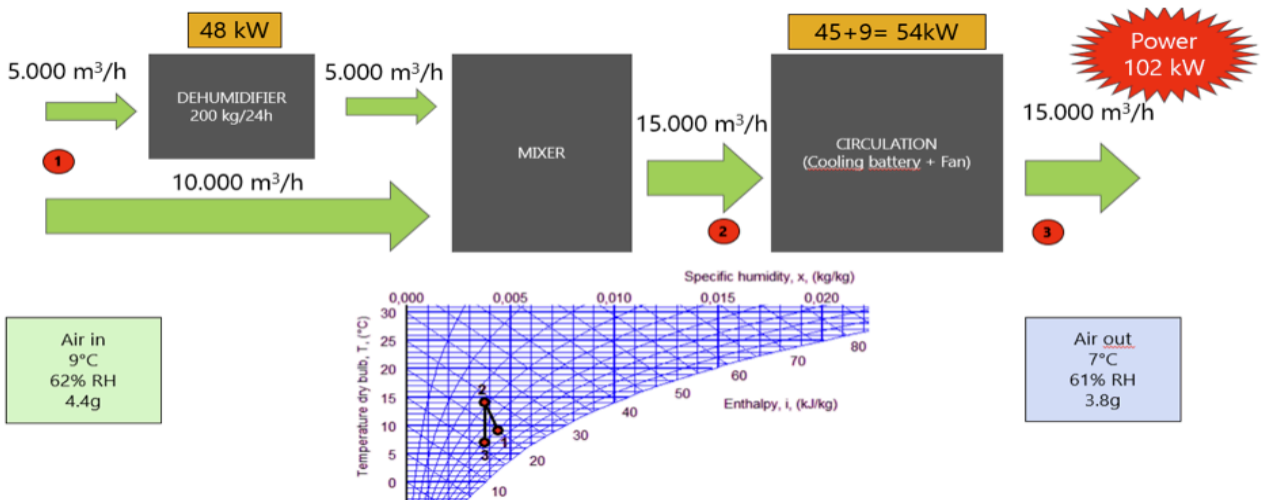
Traditional installation



OneStep HVAC

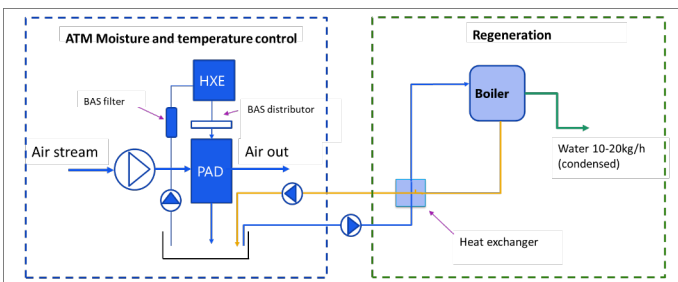
- A food storage building was kept at a constant climate of not exceeding 11°C and RH to be below 60%. The combined moisture load from goods stored and air leakages was about 200kg per 24 hours.
- The overall system was monitored and controlled by a commercial facility management system.
- Air going back into the building was cooled to 7°C to balance heating in the premises. The system was fully operational but had uptime problems due to old dehumidifiers.

EXISTING TRADITIONAL INSTALLATION



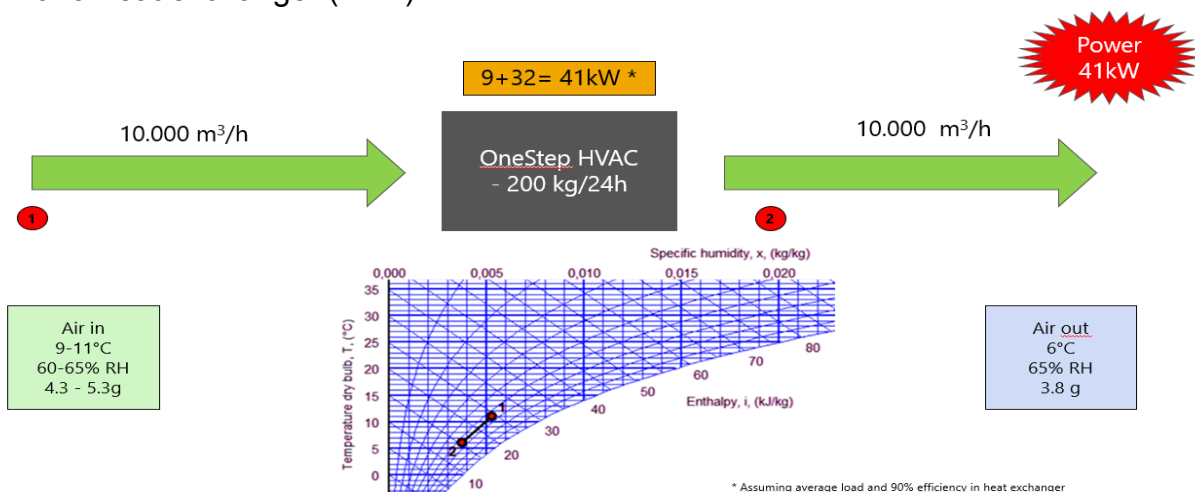
The facility department was looking for replacement options giving better energy performance, and lower top power limits).

Reduced floor space was very desirable if possible.



- The AWG OneStep HVAC was installed as the only air treatment unit. The unit acts as a dehumidifier, cooler and ventilation equipment.
- During dehumidification the regeneration energy was recovered and deployed in the local heat water system.

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



RESULTS:

- Perfect stable climate (temperature and humidity) in storage area
- Reduced climate variations night/day and over the seasons
- The equipment was installed with limited floor space making more areas free for other usage.
- Ventilation was reduced since it was not longer needed for the cooling battery operation. Output temperature was reduced by 1°C to compensate for lower air volumes.
- Very good uptime with few interruptions
- Overall power consumption was significantly reduced

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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