

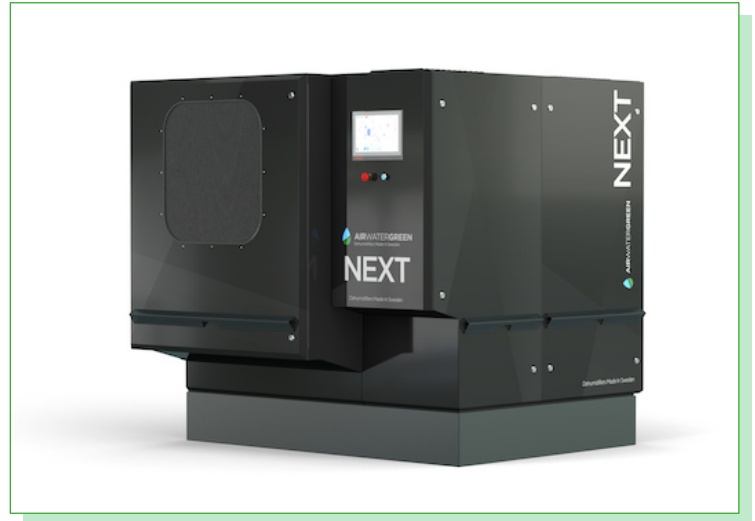
ONE-STEP HVAC SOLUTION NEXT-S

An industrial one-step air handling unit controlling ventilation, temperature and humidity

NEXT-S is a solution for providing a stable indoor climate for demanding environments.

It is well suited for installations in, for example food processing or storage, laboratories and archives.

The technology is based on the use of a liquid desiccant. This technology offers several advantages over traditional multi-stage solutions built on sorption rotor modules and cooling/heating batteries.



This One-Step HVAC solution already includes heating and cooling battery functionality.

This means that the NEXT-S is directly connected directly to piping for cooling and heating. The energy efficient CVP technology enables utilization of any available low-quality waste heat and cooling.

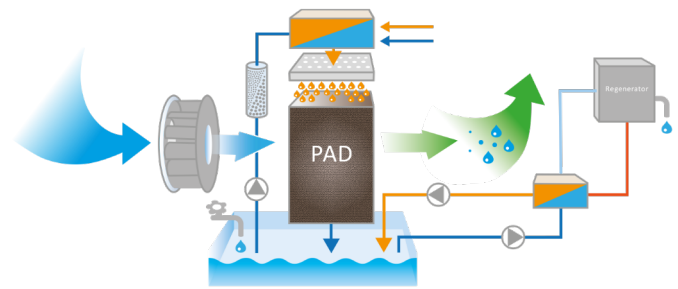
PRODUCT FACTS NEXT-S

- One-step HVAC solution
- Controlling temperature and humidity with built-in air ventilation and filtering
- Large touch screen for local control and maintenance
- Can be connected to cloud-based control and monitoring and / or to a local control system via TCP/IP or Modbus

ADVANTAGES

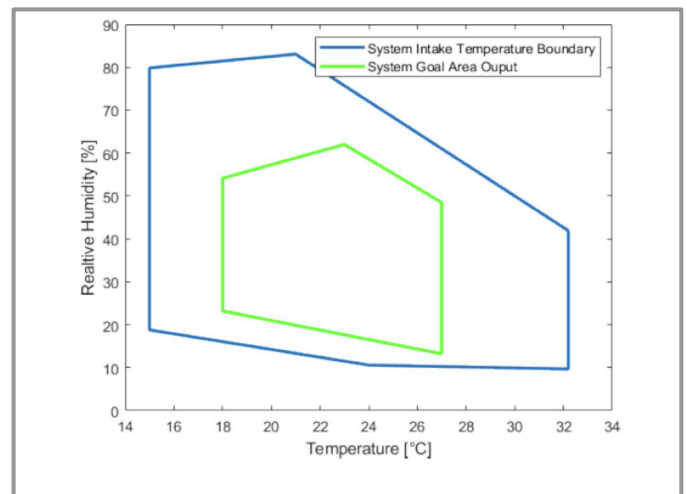
- Better precision in climate control
- More robust to varying input air conditions
- Possible to use low temperature difference cooling/heating sources
- Reduced installation footprint
- Lowest energy and peak power consumption
- Easy installation - Free-flow or Duct-connected

Functionality	Data
Air flow range (m3/h)	0 - 10.000
Set temperature range (C)	5° - 35°
Set relative humidity range (RH)	30 - 80%
Dehumidifying capacity	240 kg/24h
Humidification capacity	480 kg/24h
Input air temperature range (C)	0° - 40°
Input air relative humidity range (RH)	0 - 100%
Connection	400V 3-fas 50Hz 32A
Connection power (kW)	17
Cooling water temperature (C)	0° - 15°
Heating water temperature (C)	40° - 60°
Typical cooling/heating water (kW)	0 - 50
Available static pressure (Pa)	300
Dimensions WxHxL (mm)	2.000 x 1.800 x 1.800
Weight dry / operation (kg)	480 / 680
Sound (dB)	< 73
Communication	Modbus or TCP/IP
Air flow connection	Duct connected or free blowing
Air filter	Built-in cassette filter/ external bag filter



NEXT-S in heating & humidifying mode warming the airflow and increasing the relative humidity level at the same time.

TYPICAL WORKING CONDITION



Blue (outer): allowed input air condition

Green (inner): available set output air condition

Available options	Comment
External sensors	(T, RH, CO2, VOC etc)
Duct connection alternatives	In-/out
Fan selection	Alternative static pressure
Energy regeneration alternatives	Recovery of the regeneration heat