

SystemairCAD 2026 Week 12 release

C2026-03.39.M5

It is once again time for a SystemairCAD release. As usual we have a series of news and updates.

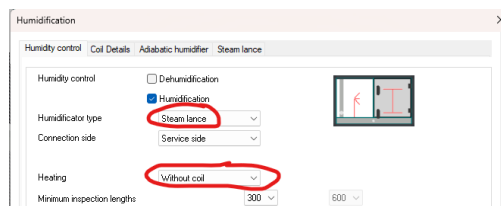
Calculation speed

We optimized the unit calculation speed in SystemairCAD slightly, and I hope you will be able to feel the difference in the performance of the system.

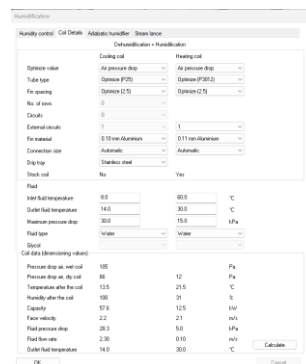
Humidification


The humidification received a small brush up to improve the useability.

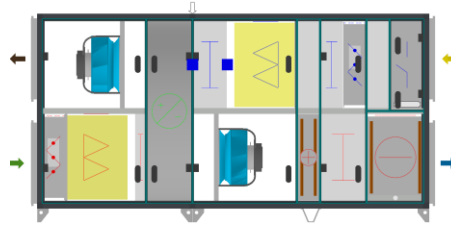
A “No heating coil” heating coil option is added for humidification with a Steam lance.



Data is better aligned in the coil dialog.



Icon  for the adiabatic cooler is changed, and insertion points are limited to the extract air.



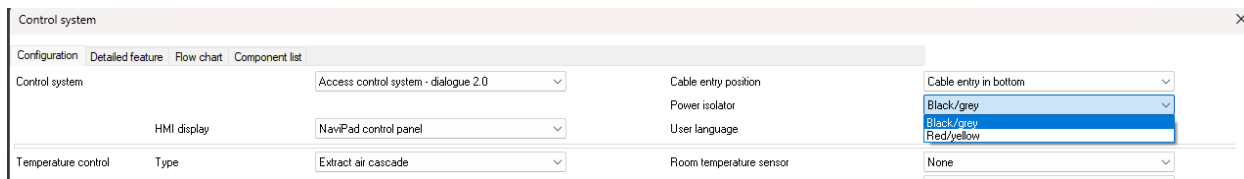
In general you must use the Humidification function to humidify or dehumidify the supply air, no matter if you use a steam lance or an adiabatic humidifier.

The adiabatic cooling function is used for adiabatic cooling in the extract. Cooling energy that you can recover in the heat exchanger, to lower the supply air temperature in summer.

Power isolator

Updates in the machinery directive, enforced by 20. Jan. 2027, require us to deliver a power isolator for units with control system in the future. The power isolator will be added automatically to the bill of material in SystemairCAD. An isolator will be added for the unit power supply and all electrical coils who as a separate power connection. An electrical coil can have more than one power connection, and the system will add on isolator for every connection.

The system offers to select between a “black / gray” and a “red / yellow” power isolator.



No changes are implemented for Geniox Core units.

Flat steel roof

The bill of material is optimized for the Flat steel roof. Small changes are implemented to decrease the amount of part included in some configurations of the flat steel roof.

Electrical heating coils

The section length of the electrical heating coils are changes slightly for some coil capacities. The new coil type from VEAB require a bit more length in the unit.

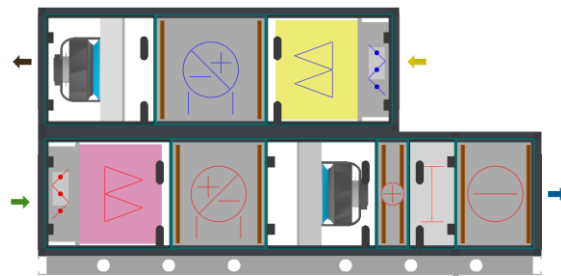
Drip tray update

Because of hygiene requirements we where forced to increase the slope of all drip trays. This causes a small reduction in the finned area of cooling coils in some configurations.

The reduction of the finned area will increase the pressure drop of the affected coils. In borderline situations it can cause the coil to increase in number of rows and circuits. Coils affected are:

- Water cooling coils
- DX cooling coils
- Water change over coils
- DX change over coils
- Run around coil systems

DBM DLL software update



DBM implemented a change in the thermodynamic calculation for the very large coils. It affects the performance of the coils for Geniox units size 38 – 44. Here we see an increase in both rows and circuits to meet the same performance as in previous versions.

Modbus and BACnet protocols

Modbus and BACnet variables are updated to reflect the updates done in the Access controller. The descriptions are also updated for better explanations of every variable. The document is only available in English from SystemairCAD.