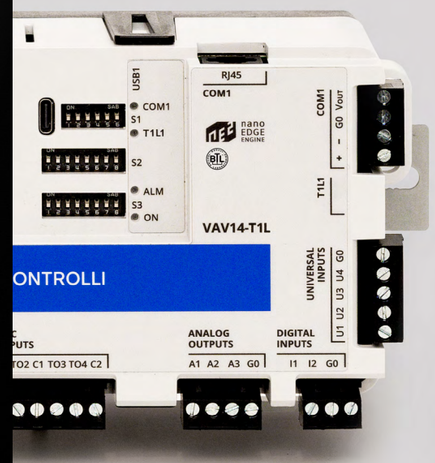
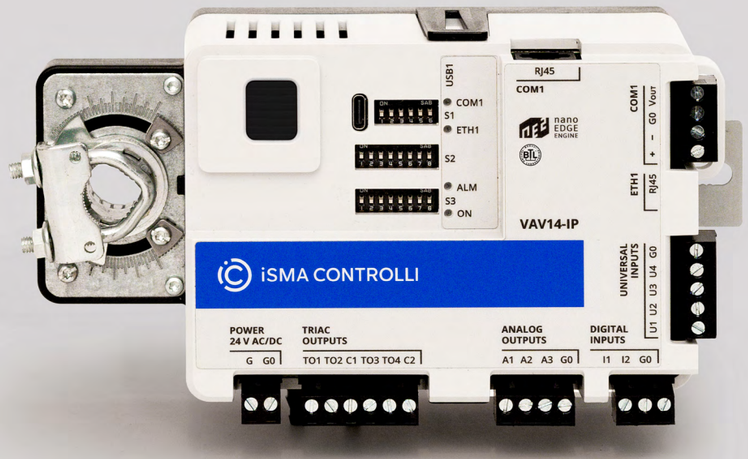


nano EDGE ENGINE

BACnet Modbus





Key features

Enhanced energy efficiency

Maximize your energy efficiency with our advanced built-in application, featuring cutting-edge adaptive control algorithms designed to deliver exceptional energy savings.

Flexibility & scalability

VAV14 application can easily be adjusted or modified according to the building requirements changes without a need to pay additional maintenance or licence fees.

Communication reliability

Thanks to a built-in switch with fail-safe protection and in the VAV14-IP and point-to-point connection in the VAV14-T1L. The data transmission stays uninterrupted, even during power supply interruptions.

Integration & connectivity

Effortlessly integrate with Building Management Systems (BMS) and IoT platforms using our auto-exposure functionality, ensuring smooth and seamless connectivity.

Esthetic structured cabling

Revolutionize your space with „CABLE GRID", designed organized solution for managing wires, preventing tangles, and reducing the risk of damage or accidents.

Discover available version

Choose the controller that perfectly suits your application, from the standard version with a daisy-chain Ethernet switch to T1L version, suitable for retrofit applications.

VAV14 Controllers

Ultimate flexibility in the VAV control

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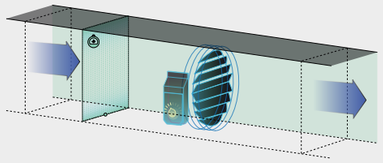
Efficient application for VAV boxes

To minimize time and simplify the commissioning process, the VAV14 Controllers are equipped with a pre-loaded application, which supports the most popular types of VAV boxes.

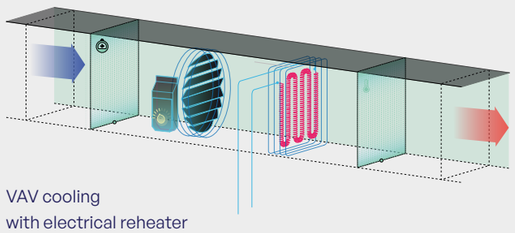
Configuration options

- VAV cooling
- VAV cooling / heating
- VAV cooling with electrical reheater
- VAV cooling with water reheater with optional perimeter
- VAV cooling with 2 staged electric reheater with optional perimeter
- Series fan powered VAV cooling with water reheater with optional perimeter
- Series fan powered VAV cooling with 2 staged electric reheater with optional perimeter
- Parallel fan powered VAV cooling with water reheater with optional perimeter
- Parallel fan powered VAV cooling with 2 staged electric reheater with optional perimeter

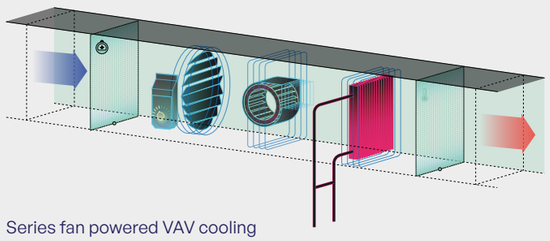
Out-of-the-box support for **216** VAV box types.



VAV cooling

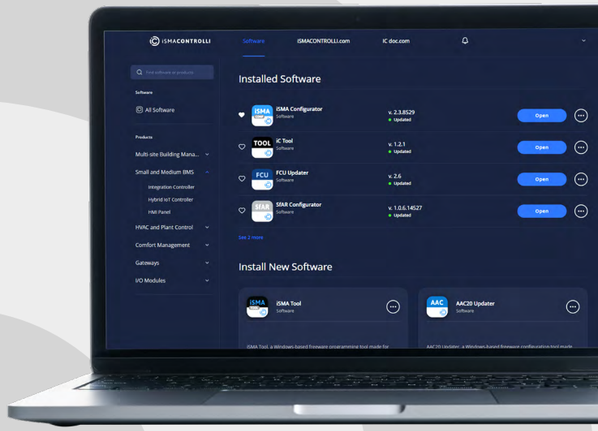


VAV cooling
with electrical reheater



Series fan powered VAV cooling
with water reheater with optional perimeter

Various ways of commissioning the VAV system



iSMA CONTROLLI enables installers, system integrators, and programmers with unique tools and software for configuring, commissioning, and programming the VAV14 Controllers.

Configuration & balancing

01. Niagara 4 with dedicated service.

02. iSMA Configurator free of charge yet powerful tool.

03. Control Point, dedicated room panel for operation and local commissioning from panel directly or by the USB port.



CP-DISP-VAV-W

CP-DISP-VAV-B

Programming

Fine-tune, change or program from scratch using Niagara Framework® or free of charge iC Tool.

01. Programming directly with Niagara 4 and up thanks to dedicated extensions.

02. iC Tool, advanced programming tool for nano EDGE ENGINE controllers.

niagara4

TOOL