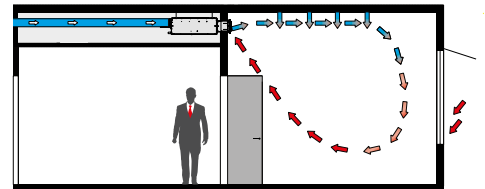


Grand Vari™ Hybrid Fan Coil Unit



A superior and complete solution

The hybrid fan coil solution is based on a single grille with dual functionality. The air is blown in from the upper part of the grille via the ceiling to the room, and air is returned via the lower part of the grille. The hybrid fan coil unit utilises both convection from the coil and radiation from the ceiling. The result is draught-free and constant temperature air conditioning. Additionally, the clever design of the controller for air and water flows ensures maximum comfort and the highest possible energy efficiency.



Comfortable indoor air



Draught-free air conditioning is made possible with the specially designed grille that forces the cooled air to flow via the ceiling throughout the room. The ceiling, which acts as a radiant ceiling, is cooled by the air flow.

The hybrid fan coil keeps the room temperature at the set point and eliminates the uncomfortable temperature variation as the cooling always matches the heat load.

Silent



The Grand Vari is airtight and has an effective, integrated, internal silencer chamber. Fresh air from the air-handling unit can be introduced to the room via the same integrated silencer chamber.

Energy efficient



The low sound level enables the optimum use of the fan capacity, and the chilled water temperature can be raised to gain significant indirect savings on water chilling costs. The dual-function grille of the hybrid fan coil prevents inlet and return air from mixing close to the grille. In comparison to traditional solutions, this increases the logarithmic temperature difference between water and air. This in turn increases the efficiency of the unit and reduces energy consumption.

Additionally, an EC fan enables variable speed control and low energy consumption. Chiller has found that the direct and indirect benefits of the system enable 30% lower energy consumption levels compared to traditional solutions.

Ready solution

Factory-tested

The Grand Vari is installation ready. Functionality is preset with customer parameters and is tested at the factory.

No ducting

No ducts are required thanks to the single grille that is directly connected to the hybrid fan coil unit.

Rapid installation

The Grand Vari is mounted onto a solid ceiling and all the connections are housed in the back plate, allowing more space for the installer. The hybrid fan coil has fast connectors for room controllers and an optional electrical plug.

Remote commissioning

The hybrid fan coil unit can be started up remotely via the building automation system. Maximum water flow, air flow and system flushing can be controlled remotely. The water flow is automatically balanced, thanks to the pressure-independent valve.

District cooling compatible

The high ΔT required by district cooling is achieved with proper heat exchanger construction.

User friendly

RedDot-awarded user interface

An informative and clear interface where both temperature setting and current temperature are visible to the user.



Fast maintenance

High availability

Unplanned maintenance is avoided thanks to alarm functions. The building management system will receive alarms about any filter cleaning or condensed water maintenance needs.

Easy to clean

The Grand Vari can be vacuum-cleaned by opening the hinged grille. The filter can also be easily removed for washing. In wet system the condensed water is removed using either free drainage or a condensate pump.



The air inlet is located on the top part and the return on the lower part of the grille for maximum efficiency. Cool air flows through the ceiling for draught-free air conditioning and a constant room temperature.
The photo: the reference case Hotel Klaus K.