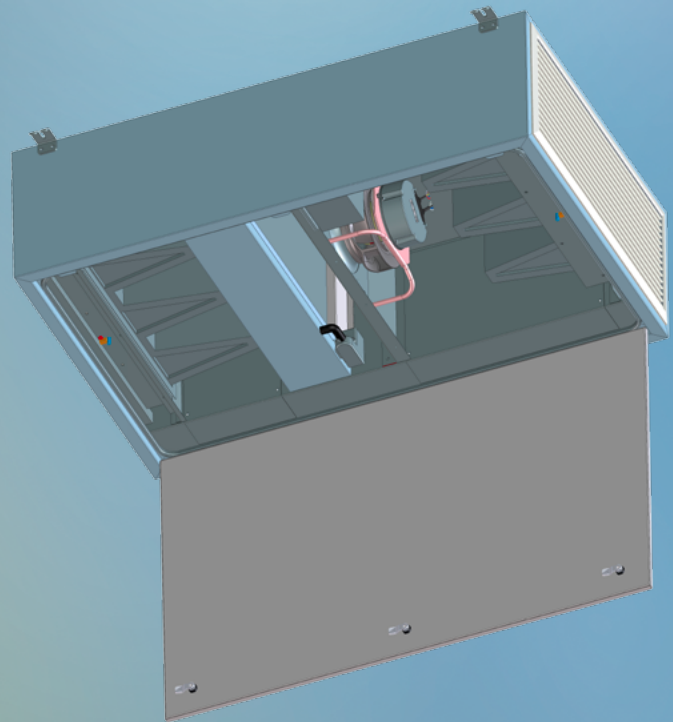


Secondary air cooler unit Vindur[®] TOP



Weiss mediclean[®] has developed the first-ever secondary air cooler unit with two filter stages plus an optional “thermal disinfection system”. In addition, the unit is also equipped with an energy efficient EC fan, a cooler with a condensate lifting pump and a DDC control unit (including the possibility of web visualisation).

Dialysis wards, patients’ rooms, recovery rooms, examination rooms (sonography, ECG, X-ray, endoscopy etc.) as well as control rooms for CT and MRT are just a few examples of rooms occupied by people that are subject to the hygiene requirements in accordance with

VDI 6022 and DIN 1946-4, room class II. Easy accessibility and the possibility to carry out disinfectant cleaning are as much of a priority as avoiding the growth of microorganisms.

Vindur® TOP provides pioneering solutions

Vindur® TOP is the answer to existing secondary air cooler units, which do not meet the hygiene requirements of VDI 6022 and DIN 1946-4.

Easy to access, to clean and to exchange parts

Easy accessibility is a prerequisite for the exchange of integrated components and performance of regular maintenance. With smooth surfaces and material that can be disinfected, the minimum hygiene standards for an effective disinfectant cleaning are ensured.

The Vindur® TOP secondary air cooler unit is preferably placed close to the ceiling and guarantees accessibility via its housing flap, which can be opened downwards for the purpose of cleaning or exchanging integrated components, e.g. filters.

Reliably kill off microorganisms

In every air-conditioning unit, in which a cooler is integrated, air condensate may accrue as a result of cooling.

The condensate is the ideal breeding ground for bacteria and mould, which are also sucked out of the air. In particular, during downtimes a massive microbial growth of bacteria and mould may occur and they will get into the room air when the unit is started again.

Option

With Vindur® TOP, the growth of microorganisms can be avoided by using the "thermal disinfection system," a sequential heating of the heat exchanger and the condensate pan. In doing so, the temperature and exposure time are chosen so that the heat exchanger (cooler) and the condensate pan are completely dried out and microorganisms are reliably killed off.

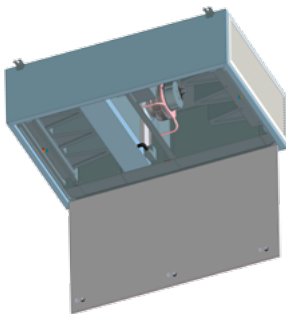


Image 1: Assembly under the false ceiling



Image 2: Installation in the false ceiling

The Vindur® TOP secondary air cooler unit, model D12 (dimensions W x D x H = 900 x 400 x 1400 mm) can be placed close to the ceiling and installed either beneath the false ceiling (Image 1) or within the false ceiling (Image 2).

In the direction of the air flow, the secondary air cooler unit contains the following integrated components:

- Intake grid
- PM1/250 filter (F7)
- Cooler with condensate pan and condensate lifting pump
- Option: thermal disinfection system
- EC fan
- PM1/280 filter (F9)
- Electrical module incl. DDC control unit (option: web visualisation)
- Exhaust grid

Air volume and temperature can be selected either using the room control console (remote or connected) or via a touch display (connected). The refrigeration output is a total of 4.7 kW (chilled water 7/12 °C) with an air flow rate of 1200 m³/h and an air inlet of 27 °C 46% RH. The unit is optionally available with a chilled-water cooler or with a direct evaporator. The condensate is dissipated using an integrated condensate lifting pump.