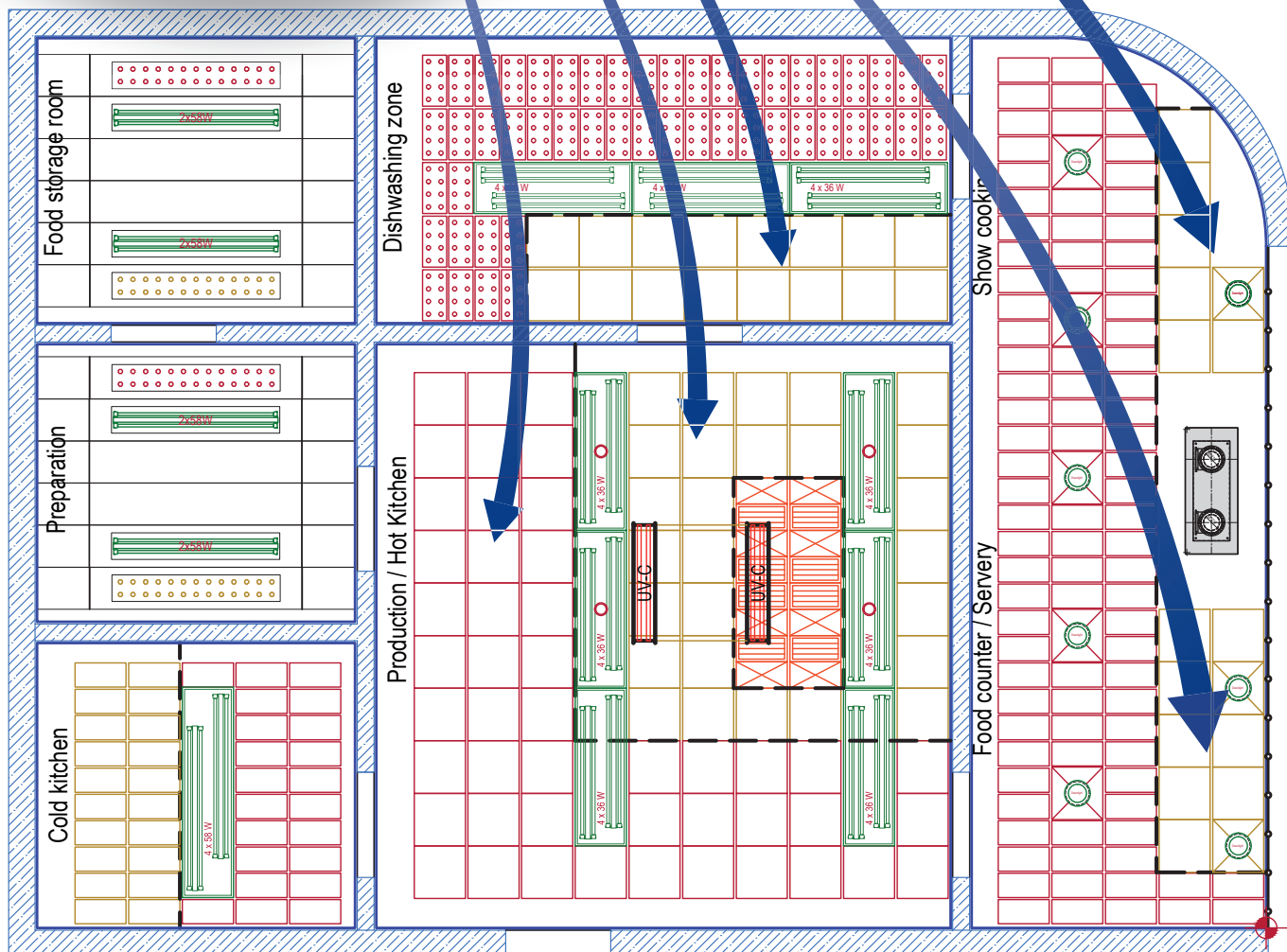
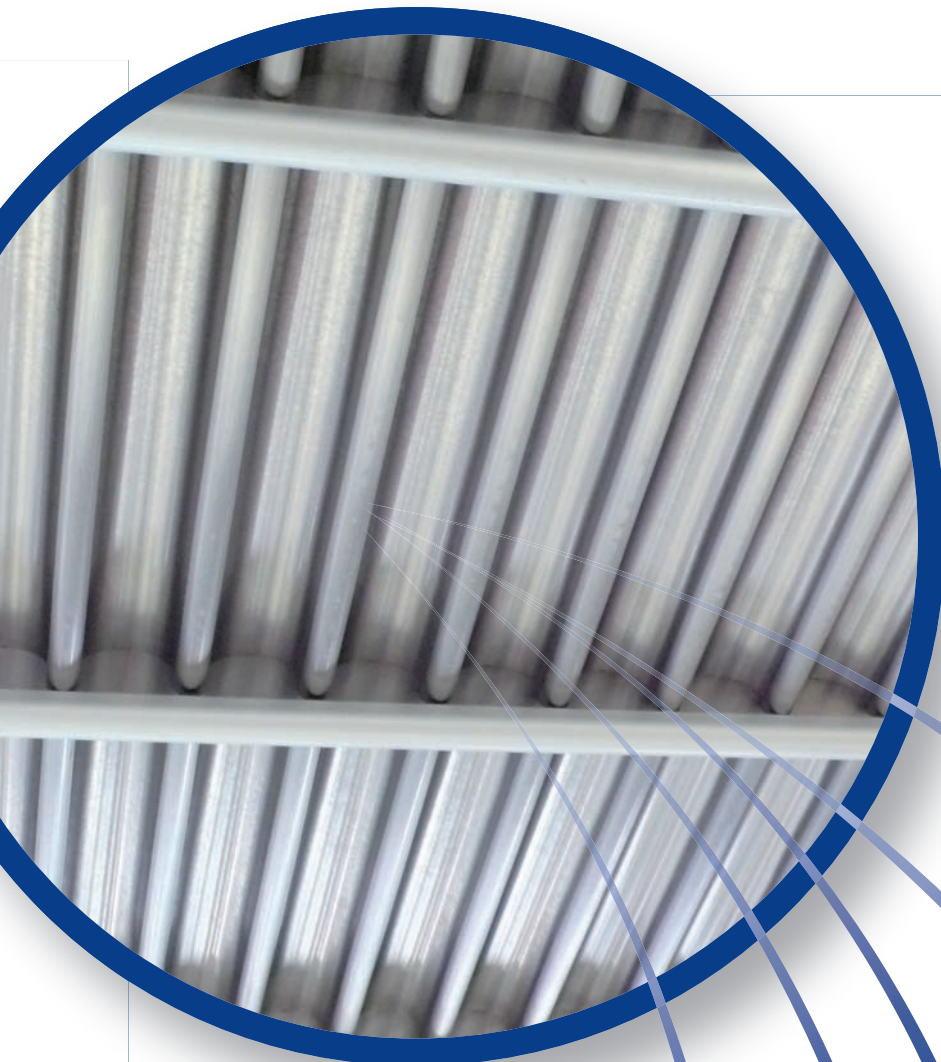


# 1. GIF Active Cassette Ceiling



# 1 GIF Active Cassette Ceiling

GIF Active  
Cassette  
Ceiling

Production kitchen and dishwashing zone, pot wash, food counters / serveries and show cooking



TU Dresden (Dresden University of Technology)

# GIF Active Cassette Ceiling

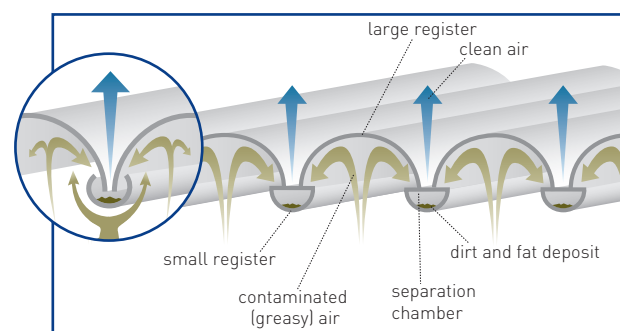
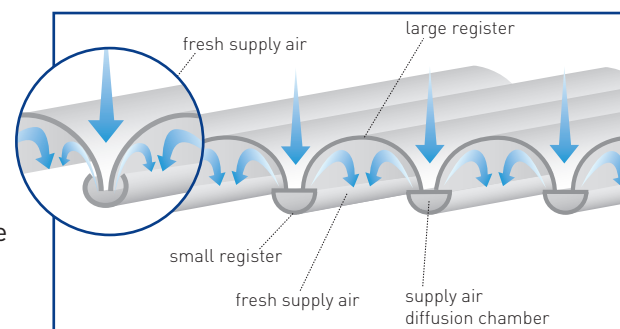
Production kitchen and dishwashing zone, pot wash, food counters / serveries and show cooking

## Description of the system

The entire GIF Active Cassette Ceiling is designed as an area-active, modular cassette construction and performs both exhaust air functions above cooking appliances as well as air supply functions outside the exhaust air areas.

The active cassettes serve as aerosol separators on the exhaust air side according to VDI 2052 and DIN 18869-5 and form a large-scale exhaust air area. Moreover, flame propagation safety over the entire area of the GIF Ventilated Ceiling can be verified according to ULC (Underwriters' Laboratories of Canada).

The active cassettes are only manufactured from AISI 304 stainless steel and reach the highest degree of interception (up to 97%) due to very tight manufacturing tolerances. The exhaust flow velocity above the active cassette is so low (0.08 m/s), even at a distance of only 20 mm, that floating particles, which have not been intercepted in the separation chamber, trickle back on to the top of the cassette surface by mass inertia.



# GIF Active Cassette Ceiling

Production, kitchen and dishwashing zone, pot wash, food counters / serveries and show cooking

All active cassettes can be removed from the ceiling grid simply by pushing and pulling in the rows. Therefore, the GIF Active Cassette Ceiling can be removed from virtually any location almost entirely ( $\approx 98\%$ ) and can be cleaned in any industrial dishwasher. As a result, climbing on kitchen equipment is not necessary and hygienic cleaning is guaranteed.

The unique modular system offers very high transparency and hygiene due to a construction which is fully reversible.

On the air supply side, the GIF Active Cassette Ceiling

is applied for supplying low-turbulence fresh air on a large scale according to the principle of layered flow. Therefore, an energy-efficient solution is standard. The special design ensures an indirect fresh air flow, even with high air volumes and low inflow speeds, without induction impulse.

Since the active cassettes for the exhaust air and the fresh air areas are identical, they are fully interchangeable in any configuration.

## Facts and advantages

- **Compliant with or exceeding current directives and standards (VDI 2052, VDI 6022, DIN 18869) also including the inspection capability of components at the back (no access panels needed)**
- **Durability of the AISI 304 stainless steel material**
- **Interlinking cassettes facilitate quick and easy removal**

# Smartly solved – easy to handle



- **Economic and hygienic cleaning of only 4 components per m<sup>2</sup> in the dishwasher**
- **Active cassettes can be pushed and pulled in the suspension profiles, as a result they are easy to remove without the need for tools**
- **Partial cleaning possible if required**
- **No need to climb on greasy, hot kitchen appliances (danger of slipping)**

# Ventilated ceilings as part of a system

- Modular installation provides high flexibility when renovating or relocating

- Highest degree of separation due to combined gravity and condensation separators

- Flame propagation safety according to DIN 18869-5 and ULC according to TNO for the entire ceiling construction

- Draught-free fresh air supply/laminar outlet according to DIN 18869-3

- Homogenous appearance when viewed from below, a completely level and uniform wall-to-wall solution

- No low hanging components, no impairment of view

- Homogenous capture of exhaust air

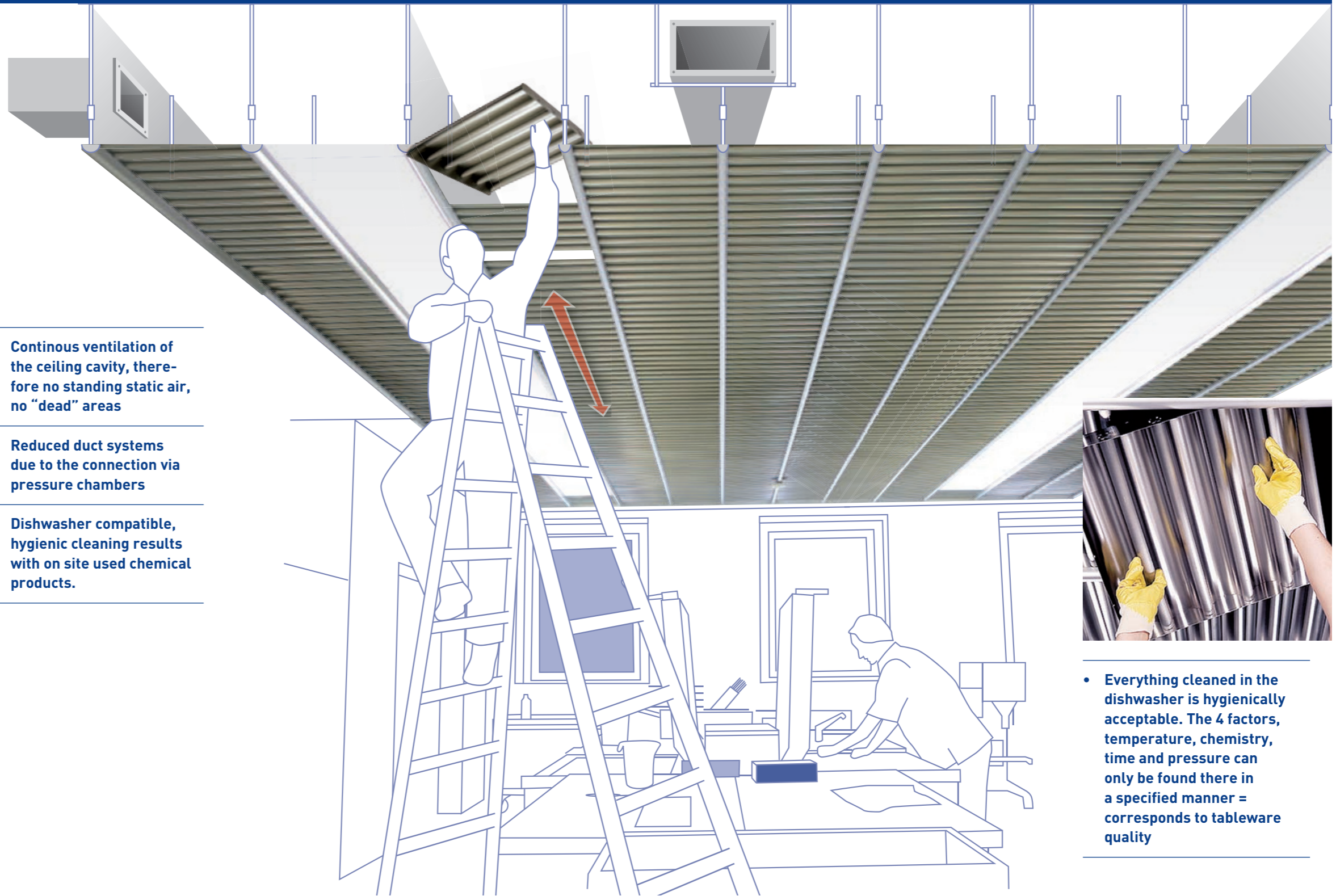
- All components are interchangeable

- Very low installation depth of only 200 mm

- Continous ventilation of the ceiling cavity, therefore no standing static air, no "dead" areas

- Reduced duct systems due to the connection via pressure chambers

- Dishwasher compatible, hygienic cleaning results with on site used chemical products.



- Everything cleaned in the dishwasher is hygienically acceptable. The 4 factors, temperature, chemistry, time and pressure can only be found there in a specified manner = corresponds to tableware quality