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Case Study

MEZ-AEROSEAL

Digiplex Data-Center

» The leakage from the ventilation units has been reduced by an average of approx. 90%, allowing the DeOX system to be reduced to 70% of its capacity, resulting in a significant reduction in operating costs. «

Digiplex Data-Center

Location: Fetsund, Norway

Date: July/September 2015

MEZ-AEROSEAL Partner: MEZ-TECHNIK GmbH

Executing company: GK Norge AS

Result: The two three-storey buildings include 36 Air Handling Units (Indirect Evaporative Coolers). The air extracted from the server rooms is cooled with outside air using heat exchangers and then goes back inside the server rooms. The Air Handling Units have to be particularly tight for this process, in order to avoid that the air is re-oxygenized and that the DeOX system therefore has to run at its maximum performance. The leakage of the Air Handling Units could be reduced by about 85 % in average. As a consequence, the DeOX system can now be run at only 70 % of its capacity, which results in an essential reduction of the operating costs.



Smell



Noise



Energy efficiency



Air tightness



Indoor air quality

Description

The Digiplex Data-Center in Fetsund near Oslo is an ultramodern server farm with a total surface of 4.200 m². The two three-storey, air cooled buildings, have a capacity for 40.000 servers. For fire prevention reasons, the level of oxygen in the air is reduced to 15 % (normal value is around 20,95 %), which corresponds to conditions as found in altitudes of around 4.000 m (~ 13.00 feet)..

Successful sealing

With our successful MEZ-AEROSEAL partner network we achieve great success again and again.

The change in leakages

Before sealing

- Approx. 18 - 70 L/s

After sealing

- Approx. 2,5 - 5 L/s

Reduction

- Approx. 85 - 93%



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