

# CASE STUDY

## PROSCREEN AT DATACENTER MAINCUBES

### Maincubes Amsterdam

Maincubes is a data center operator and expert in colocation and digitalization. The company operates a network of secure data centers across Europe with high availability. One of their modernized data centers is located in Amsterdam, Schiphol-Rijk. On the roof of this location, six large cooling units are installed, whose condensers were previously unprotected from the intake of dirt. Dirty condensers have numerous negative effects on the units and, ultimately, on the entire cooling process. A contaminated condenser also contributes to increased energy consumption, leading to higher operational costs. The maintenance costs for these units can also become a significant burden on the overall budget.

### Collaboration with SPIE Netherlands

In collaboration with our partner SPIE, Interfilter (and Deltrian Netherlands) was commissioned to address this common issue. First, Interfilter carried out the measurements, after which SPIE provided the necessary data to calculate the Return on Investment (ROI). Peter de Jong from SPIE Netherlands commented on the preliminary work: "Thanks to the thorough and detailed approach in the initial phase, both for us and for Maincubes, the benefits of applying ProScreens became immediately clear."



## INSTALLATION OF THE SCREENS



Condenser pollution without ProScreen



During installation



Cooling units fitted with screens

# PROTECTION FOR AIR-COOLED CONDENSERS

## Easy maintenance and more efficient systems

Thanks to ProScreen, the condensers remain clean, and large debris is now effectively prevented from entering. "Throughout the year, ProScreen is very easy and quick to rinse or brush clean. This means that less frequent, thorough cleanings are needed, resulting in substantial cost savings. This leads to a more efficient, energy-saving, and cleaner cooling system that can run at maximum efficiency throughout the year," says Mats Verbrugge, Area Sales Manager at Interfilter Group and Deltrian Netherlands. An additional noteworthy benefit is the 6.5% reduction in energy consumption annually due to the use of ProScreens. In Maincubes' case, this amounts to a savings of at least €4,000 per year.

## Expected Results

"Based on the detailed ROI calculation provided by Interfilter, we expect Maincubes to recover the investment in ProScreens within 2.5 years. This is due to the reduced energy costs, lower maintenance costs, and the extended lifespan of the cooling units over the long term," says Peter de Jong from SPIE Netherlands. In conclusion, it's a win-win situation for all parties involved.

## Thanks to

We would like to thank Maincubes in Amsterdam and Peter de Jong on behalf of SPIE for their collaboration on this successful project. A strong partnership once again proves that great results can be achieved, in this case, a fantastic optimization of cooling systems.

## FACTS AND FIGURES



Protects condensers from  
dirt and hail



Reduces annual energy  
consumption and costs by  
6.5%



Reduces maintenance and  
cleaning costs by 50%



Extends the lifespan of  
cooling units



Easy to (dis)assemble  
and clean



ROI within 2.5 years