



Case Study: Hartl Group, Hofkirchen, Germany

Data Centre cooling with Oasis™ 200

Benefits :

- Easy installation without any duct work
- Easy operation and maintenance
- Very high energy efficiency
- Total PUE lower than 1.1
- Cooling without refrigerants

## Oasis™ offers simplicity and contributes to a PUE at only 1.1

Hartl Group was founded in 1992 by Peter Hartl, and is headquartered in Hofkirchen, Lower Bavaria Germany.

Being one of the leading IT service providers in the area, Hartl Group is offering services like consulting and auditing, process optimization, Data Centre hosting in Austria and Lower

Bavaria, user helpdesk, training, network and communication.

The multiple certified Data Centres provide customers with services like Private/ hybrid/PublicCloud-scenarios, consulting and process optimization, storage, backup and virtualization within storage, desktop and applications.

In March 2016 a brand new Data Centre was inaugurated in Hofkirchen to replace older facilities no longer up to date.

The new Data Centre features the most modern solutions within safety, energy efficiency and storage solutions.

The Data Centre is hosting data for smaller and bigger local companies, banks etc. and will be able to contain 64 racks and work with an IT load of up to 600 KW.

### Striving for a low PUE

During the planning of the new Data Centre, Peter Hartl got in contact with Munters in his search for an energy efficient cooling solution.

Striving for a PUE as low as possible, Munters' indirect evaporative cooling system Oasis™ could form the perfect solution.

Compared to a traditional DX based cooling solutions for Data Centres, the Oasis™ solution typically saves up to 75% energy. Mainly due to the elimination of compressors and also thanks to the reduced need of fans involved.

Munters worked out a design with two Oasis™ 200 units that would be able to satisfy the requirement of strictly controlling the temperature within the Data Centre between 23-25°C around the year.

### Easy installation - no ductwork

The units were designed to be installed outdoor, back to back, and with air in- and outlets on the side of the units, enabling direct connection onto the building. Hereby ductwork was avoided and installation made easy.



The two Oasis™ 200 units, placed next to the solar panel covered energy efficient Data Centre facility

Indoor and outdoor preparations have been made already for installation of 2 extra Oasis™ units in case of future extension of the Data Centre capacity.

Installation of the Oasis™ units took place early February 2016 and units are operating to Peter Hartl's full satisfaction.



Mr. Peter Hartl, CEO Hartl Group, and Key Application Manager Data Centres, Mr. Anton Immerz, Munters GmbH

In particular Mr. Hartl appreciates:

- the easy installation and simplicity of the solution,
- that it is operating fully without any refrigerants or need of chilled water
- the very low PUE. In combination with other energy saving measures (the UPS solution, the design concept of the interior etc.), the PUE can successfully be kept extremely low at less than 1,1. This fully matches Mr. Hartl's wish of operating the most energy efficient Data Centre in the region.

Also to reduce the energy consumption of the premises, a 100 KW solar panel system has been installed on the roof of the building.

The Data Centre will be certified according to the TÜV certification Kategorie 3 +.



The Fitness area's pool is designed to act as a water supply back-up for the Oasis™ units in the unlikely event of a disruption of the public water supply.

Hartl Group has a very high focus on safety issues like backup systems for power supply, advanced entrance control and fire safety. In case of unexpected lack of public water supply for the Oasis™ units, the water from the employees indoor swimming pool in the relax area, can be used.



Learn more about Oasis™ and the range of Munters solutions for DataCentres on [www.munters.com/Oasis](http://www.munters.com/Oasis)

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