

## CASE STUDY

# MAZOOON DAIRY COMPANY, MUSCAT: MINI DATA CENTRES FOR DAIRY FARM

Mazoon Dairy Company, Oman, is the first customer in the Middle East region to implement Datwyler's modular Mini Data Centre.



Datwyler supplies its Micro and Mini Data Centre solutions for "edge computing", decentralised data processing at the network "edge". The data centre solutions were tested and optimised by the Datwyler experts responsible to ensure that they meet all customer requirements for reliability, efficiency, ease of use and high quality standards.

The Datwyler Middle East team has also been actively promoting these innovative technologies. Successfully: in late 2018 the first order was received for modular Mini Data Centre (MDC) and a complete cabling infrastructure. It came from the Mazoon Dairy Company S.A.O.C., based in Muscat, Oman.

### Flagship project in the desert village

Mazoon Dairy Company is currently constructing a high-tech dairy farm in the desert village of As-Sunaynah in Al Buraimi Governorate in the northeast of Oman – a milestone in the agricultural and economic development of the country. Production should start by June 2019 at the latest. This flagship project, which is supported by numerous national investment companies and funds

and will employ a staff of up to 2300, should enable Oman to achieve a leading position in the production of high-quality milk on the Arabian Peninsula.

The integrated milk production and processing business is being launched with some 3800 cows. A herd of 25,000 cows is planned by 2026. Feeding centres, milking parlours and a centralised processing plant also form part of the concept in addition to reception centres, administrative offices, a control office and a storage facility for raw materials. Onsite sales, logistics and distribution should ensure that the products will be delivered on time in Oman and the wider region.

### Complete data centre

In order to achieve optimum performance and maximum transmission speed in the high-tech farm, the Mazoon Dairy Company commissioned Datwyler to supply a powerful IT infrastructure solution which among other things includes a complete data centre at the head office in Muscat.

The system solution comprises 150 kilometres of Cat.6<sub>A</sub> data cable and 3000 RJ45 modules as well as around 100 kilometres of 4- and 24-core single-mode fibre optic cable, in each case with patch panels, patch cables and accessories. In addition, there are several 42U racks and 12U wall-mounted cabinets.





Datwyler's modular mini data centres are an integral part of the solution. Depending on the size of the site these comprise four racks with a separate cooling system or

two racks with side coolers. The MDCs are ready-to-run solutions tailored to customer requirements and include the power supply, emergency power, cooling, fire alarm and fire extinguishing systems and access control as well as user-friendly monitoring and management software.

The material was delivered by May 2019. Phoenix Technologies & Solutions, Datwyler's local partner in Oman, has worked closely with the end customer since the specification phase and dealt with the full service. Phoenix Technologies & Solutions is confident that the Datwyler infrastructure solution will meet all the end customer's project requirements.

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