



CASE STUDY



ORANGE DATA CENTRE NORMANDY



Val-de-Reuil (27),
France

May 2022

Project description

The Orange data centre in Val-de-Reuil combines state-of-the-art infrastructure with strict security protocols to offer a reliable and highly resilient environment for storing and processing data.

The project involved installing a floating HP (High Pressure) system using 14 liquid chillers with AquaForce® 30XA 1002 air cooled condensers in order to save energy.

In simple terms, the floating HP system varies the condensation temperature of the refrigerant in the condenser to adapt it to the outdoor temperature. This solution enables the energy consumption level to be substantially reduced, performance improved and machine parts protected from premature wear.



ADVANTAGES

- Fully funded within the EEC framework
- Upgrading of the control system with obsolescence management for controllers and programmes
- Optimisation of control system/machine management
- Improved energy performance for low-to-medium-load units
- Improved sound level

Background

The Orange data centre was looking to save energy while reducing its environmental impact. To achieve this, they contacted the Carrier BluEdge service team to help optimise the equipment and reduce the costs linked to machine operation.

Within this context, Carrier BluEdge offered innovative solutions and specialist competence to help Orange successfully meet these challenges.

TECHNOLOGIES

- Installation of a floating High Pressure system using 14 liquid chillers with AquaForce® 30XA 1002 air cooled condensers

Challenges and solutions

We committed to providing this service at the site prior to the end of 2022 in order to benefit from funding within the Energy Saving Certificates (EEC) framework. This deadline necessitated detailed planning, efficient coordination with the teams and strict execution of the work.

It was also necessary to ensure the compliance of 4 liquid chillers with AquaForce® 30XA 1002 air cooled condensers, in accordance with the requirements and standards of the Pressure Equipment Directive (PED), to ensure the safety of the installed machines.

The determination and expertise of our team played a vital role in the success of this project. The technical advantages of our solution were a key driver behind the decision to use Carrier equipment.



For more information, please contact your local Carrier BluEdge representative or visit carrier.fr



DATA CENTRES