
The sensible solution

SITUATED IN THE GERLAND-DISTRICT TECHNOPOLE IN THE SOUTHERN PART OF LYON, AN AREA THAT IS ORIENTED TOWARDS HIGH TECHNOLOGY INDUSTRIES, ECOLE NORMALE SUPÉRIEURE DE LYON (ENS LYON) IS ONE OF THE TOPSCIENTIFIC “ GRANDES ECOLES “ IN FRANCE.

IN THE CONTINUITY OF THE PRESTIGIOUS SCHOOLS CREATED IN PARIS BETWEEN 1794 AND 1915, ENS LYON STARTED ITS ACTIVITIES IN 1987 IN LYON IN A COMPLETELY NEW SITE. ITS MISSION IS TO PREPARE STUDENTS FOR RESEARCH AND/OR UNIVERSITY TEACHING CAREERS IN MATHEMATICS, COMPUTER SCIENCE, PHYSICS, CHEMISTRY, MOLECULAR BIOLOGY AND EARTH SCIENCES. IN ADDITION TO ITS TEACHING FACILITIES, THE ENS LYON COMPRISES 10 RESEARCH LABORATORIES, STRONGLY SUPPORTED BY THE CNRS (CENTRE NATIONAL DE LA RECHERCHE SCIENTIFI QUE) AND HAVING CLOSE CONNECTIONS WITH OTHER PUBLIC AND PRIVATE RESEARCH FUNDING INSTITUTIONS.

DUE TO THE COMPLEX SOLUTIONS NEEDED GRUNDFOS WAS THE NATURAL CHOICE WHEN IT WAS TIME TO FIND A PUMP SUPPLIER.

THE SITUATION

Based on a site of 8 hectares the school in addition to teaching facilities also includes a library, a restaurant and residences. In all it amounts to 37,000 square meters. The school required applications for heating, ventilation and air conditioning of the buildings mentioned. Due to the need of water distribution with variable flow and temperature Grundfos choose to install In-Line pumps.

TOPIC:

Low energy costs. - Low maintenance and service costs. - High reliability.exactly as specified- a requirement that Grundfos met in full. The ENS Lyon, reports thatthere so far have been no breakdowns with the pumps, and,the overall assessment of the chosen installations come out positive based on the products fulllife cycle cost.

LOCATION:

Ecole Normale Supérieure de Lyon

COMPANY:

Grundfos

THE GRUNDFOS SOLUTION

Grundfos In-Line pumps feature high-quality cast iron surfaces that are cathodically treated to make them significantly smoother. This reduces friction and improves the efficiency of the pump. For the school this meant a solution that generated less heat and thereby reduced the requirements to cooling. As a benefit the lower operating temperatures prolong the service life of the motor bearings and the motor requires less frequent lubrication. This saves both time and money on the school maintenance budget.

THE OUTCOME

Due to close cooperation the technical installation work was carried out at virtually the same time in all the four sections of the school. It was therefore important that the contractor responsible for all the technical fittings could rely completely on its suppliers to deliver.