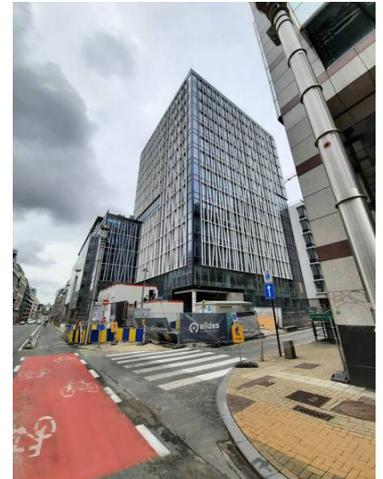


REFERENCE | 05/2022

Copernicus Brussels (for the EU government) – Brussels, Belgium Cross-application integration into the latest BMS system



Introduction

This 14-floor office building located in Brussels will be used by the EU government. The company DTplan was selected for HVAC automation, KNX automation and lighting control.

Requirements

The solution had to be compatible with Honeywell EBI, and the BACnet/IP protocol was required. To ensure a future-proof installation, DTplan wanted to have an open, expandable and freely programmable system. In addition, it was critical that the solution communicate with several important building services such as the fire damper monitoring system.

Solution

DTplan selected Centraline products to automate the HVAC installation. The company integrated a HAWK8000 on every floor for a total of 14. Two additional HAWK8000s were added for heating, cooling and ventilation. Another two HAWK8000s were integrated into the building to handle various communication functions with external products.

A total of 250 Merlin room controllers were integrated into the different zones; these are controlled by the 14 HAWKs. This project had more than 6,000 BACnet points with the data points available for Honeywell EBI to visualize on the central platform of the European Commission. The building contains 24 electrical HVAC cabinets built by DTplan.

Customer value

The customer wanted a freely programmable controller to maintain optimum HVAC conditions. Low-temperature, flow-controlled heating/cooling ceilings condition the building's temperature: Two gas-condensing boilers with heat recuperation from the cooling plant produce heat while two chillers with an open condenser and two cooling towers cool the building. Plate exchangers were used for redundant server-room cooling, for heat recuperation involved in dehumidification, and for preheating the heating circuit related to the climate ceiling. The two air-handling units are conditioned using enthalpy control, ensuring occupants always enjoy a perfect working environment.

Centraline Products



HAWK 8000



MERLIN NX