

## Ghelamco - Arenahotel Gent

This assignment includes the study for the electrical, HVAC and sanitary installation for a hotel.

This hotel has an underground car park (level -1) for approximately 300 cars.

In total there are 205 ordinary hotel rooms and 62 large rooms for long stays.

The building is 10 storeys high and is divided as follows:

- - Level 0: Lobby (500m<sup>2</sup>), party room 150 persons (500m<sup>2</sup>), storage kitchen, warehouse, bar, shop, restaurant/breakfast room.
- - Level 1: Offices, conference rooms, multifunctional room (600m<sup>2</sup>), dining room, kitchen, staff rooms, fitness, large roof terrace
- - Level 2 to level 10: Hotel rooms

Technical installation:

- - 2 x 500kW boiler
- - 1 x ice water chiller monoblock of 319kW cooling capacity
- - 1 x heat pump 4-pipe monoblock with 350kW cooling capacity and 446kW heating capacity.
- - 6 x air group with a total flow rate of 61,290m<sup>3</sup>/h
- - 1 x pulse and extraction group of 8,000m<sup>3</sup>/h for the kitchen
- - 4 x pressure relief system in stairwell of 11,000m<sup>3</sup>/h each

Heating and cooling terminal units: ventilators heating and cooling, heating and cooling central heating batteries, radiators

Reference: 17060.001

### Developer

Ghelamco - leper

### Designer / Architect

Bontinck Architecture and Engineering cvba

### Location

Gent

### Budget technics

6 675 000 euro (excl. btw)

### Surface

18800 m<sup>2</sup>

### Periode

### Study:

03/2015 - 09/2016

### Services

Building services  
engineering