

Efficient heating comfort for a legendary hotel

The Metropole in Brussels is one of the most famous hotels in Europe. Opened in 1895, the 5-star hotel today is a landmark of the Belgian capital. It offers its guests a unique blend of tradition and elegance against a historical backdrop. The Metropole is located in the middle of Brussels' old town, just a few steps from major sights such as the Grand Place and the Théâtre Royal de la Monnaie.

For many years, boilers and burners by ELCO Mat-KLÖCKNER delivered reliable heat and warm water to the antique hotel. However, the use of oil as well as the emissions values and servicing the old system had become out-dated. Renovation had become necessary. One requirement on the part of customers was a high degree of energy efficiency with an optimal cost-benefit ratio. ELCO benefitted from the years of good quality of the old system as well as its reliable



customer service. The choice ultimately came down to the TRYON 3 MK 785 cast-iron boiler with the EK 05 modulating gas burner. Total output: 785 kW. Energy saved compared to the previous system: 30 %.

Customer

Hotel Metropole
Brouckère Square
1000 Brussels

Planning

FEXIM
Bara Street 17
1070 Brussels

Installation

Jean L'empreur
Bara Street 17
1070 Brussels

BENEFITS

Efficiency

- Highly efficient due to low-temperature boiler
- Modulating low-NO_x gas burner
- Jetstream anti-corrosion technology

Convenience

- Maintenance and service-friendly
- Short assembly times
- Intelligent, external control
- Quiet operation

Savings

- 30 % energy saved
- 40 % less CO₂ emissions
- Significantly reduced running costs

Renovation: Hotel Metropole, Brussels

The ideal heating solution by ELCO: flexible, economical and robust

The new system

The new heating system for the Hotel Metropole in Brussels is made up of four TRYON 3 MK 785 cast iron boilers with an integrated EK 05 gas burner. The new system achieves a much higher degree of efficiency in generating heat and warm water than the old heating system. The result is significant energy savings and substantially reduced emission values. The easy maintenance and robust technology ensure quality and a long life span. The modern, modulating gas burner with an external Honeywell control makes the system easy to operate and service.

The collaboration between the installation company and the technicians on the customer's side has been outstanding. The greatest challenge was the location of the boiler room in the basement, which could only be accessed by a narrow staircase. The TRYON 3 MK also proved the ideal solution here: It can be broken down into parts, thus allowing it to be easily brought down to the basement and reassembled there.

Equipment	New System
Cast iron boiler	TRYON 3 MK with EK 05 gas burner
Nominal heat output	785 kW
Overall height	1,470 mm
Overall width	1,130 mm
Overall length	2,433 mm
Weight	2,857 kg
Water content	441 l

TRYON 3 MK cast iron boiler with Jetstream technology

All of the models in this boiler series are operated with oil or gas and meet the European CE and OPTIMAZ guidelines. Combining these with VECTRON low-NOx oil or gas burners with selectable capacities gives the system solution flexibility when it comes to all requirements. Separable boiler elements make it easier to position and assemble the system. The Jetstream technology prevents the condensation of gas in the boiler. The result is an elimination of the risk of corrosion and a longer life span of the system.



The Hotel Metropole in Brussels

The Metropole in Brussels inspires many with its unique ambience. The hotel is a throwback to the palaces of the Renaissance, with overhanging marble staircases, wrought-iron furniture, glass paintings and leather sofas. It was recently awarded the "Best Large Business Hotel" in Western Europe. In the course of its 112-year history, the Metropole has hosted prominent guests such as Albert Einstein, Marie Curie, Caruso, Arthur Rubinstein and many more. The hotel has over 298 elegant rooms, 15 suites and the Metropole Executive Center with 12 meeting rooms.

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