



References

# eMAG Warehouse

#### Uponor involvement

130 000 meters of pipe | Magna industrial heating system | Q&E system

## Uponor & eMAG take a step forward towards sustainable industrial heatin

The largest online retailer in Romania has built two logistics warehouses totaling 250,000 m<sup>2</sup> in Joita commune, Giurgiu county. Each of them came with its own architecture, specific needs and constant activity in the interior space. Uponor took another step towards sustainable radiant heating after providing an optimal heating solution for a logistics warehouse that was, at the time of opening, the largest in South-East Europe.

The challenge of the eMAG beneficiary turned into a project designed for the future, with long-term optimized costs. The largest online retailer in Romania has built two logistics warehouses totaling 250,000 m<sup>2</sup> in Joita commune, Giurgiu county. Each of them came with its own architecture, specific needs and constant activity in the interior space.

### From challenging to pioneering

How do you heat a hall of over 120,000 m<sup>2</sup> sustainably, reducing operational costs by making monthly energy consumption more efficient?

The challenge began in 2018, with the construction of the first eMAG warehouse, which was a pioneer for industrial floor heating.

Conventional solutions meant heated air mounted on the roof. Warm air rises, so a higher temperature would have been needed to heat a huge hall at ground level. This means high energy costs.

An area of 120,000 m<sup>2</sup>, equivalent to more than 10 football pitches, needs sustainable solutions for air conditioning, which are functional and efficient, from an energy point of view, for a long period of time.

Optimizing materials by heating active surfaces

If until then industrial floor heating meant activating the entire surface, for the eMAG warehouse, Uponor, together with a team of designers, came up with a solution specially designed for a huge space of 120,000 m<sup>2</sup>:

The heated areas are the extremities and other areas totaling another 40 - 45 square km, which distribute a homogeneous temperature throughout the hall.

The Uponor team involved in the project:

Ana Trifan Diaconu - Project Area Sales Manager & Design Support

Mihai Istoc - Area Sales Manager Uponor Bucharest

Razvan Dieaconu - Technical Support Engineer

Uponor Poland, PDC division - engineering center providing expertise for complex projects.

### **Project Facts:**

Location	Completion
Joita, Romania	2021
Building Type	
Industrial	

#### Partners

Bauprojekt Team

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