



## Echo Gallery Kielce, Poland



### Frese ALPHA

- Max diff. pressure: 600 kPa
- Operating temperature:  
-20° to +120°C
- Dimensions: DN15-DN50
- Flow rate:  
From 25 l/h to 11,355 l/h
- Material: DZR brass
- Static pressure: PN25
- For cooling and heating applications

### Project Overview and Details

Echo Gallery is the largest shopping and entertainment center in Poland – in terms of the number of shops - 300.

The grand opening of the expanded Echo Gallery took place in September 2011. The total area of the center is 150,000 m<sup>2</sup>, of which 70,000 m<sup>2</sup> is commercial space. This gallery offers famous international brands as well as Polish products. Besides shopping the customers can relax in the catering area as well as in the entertainment center.

“Best refurbished retail development 2011”

This building received many prizes. It received the title of “Best refurbished retail development” during the exhibition MAPIC in Cannes in 2011.

MAPIC is one of the leading Real Estate oriented trade shows which relates directly to Commercial Real Estate

### Solution

In order to regulate heat pumps 600 pieces of automatic balancing valves were selected - Frese ALPHA (DN15-DN40). The valves were equipped with p/t plugs with integrated ball valve. High pressure cartridges were selected with differential pressure between 7 and 600 kPa and with the flow range from 54 to 11,350 l/h.

KNOWLEDGE

QUALITY

INNOVATION

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**Frese**  
Energy-saving valves