

## **KRISTAL PALM BEACH NÜRNBERG: SIGNIFICANT SAVINGS IN THE WATER PARK**



**Renovation of the ventilation system (air volume of 25,000 m<sup>3</sup>)**



**VENTAFLEX<sup>®</sup>**

Greater efficiently in air ducts



### Kristal Palm Beach Nürnberg: Renovation of the ventilation system in the water park (air volume of 25,000 m<sup>3</sup>)



Even during the joint planning of the new ventilation system for the Kristal Palm Beach it already became clear that it would come to a significant savings compared to the original version „Metal blanket with subsequent insulation“.

One reason is the economical acquisition, a second reason being the light weight VENTAFLEX system (simplified static due to the weight advantages over steel) and the third reason being the excellent insulating properties. Cost effective, easy implementation and permanent low operating costs makes the Kristal Palm Beach to a „fun water park“ for the operator



#### The task

1. Planning and implementation of a new ventilation system (Air volume of 25,000 m<sup>3</sup>)
2. Possibly the most economical overall solution in acquisition and maintenance
3. High demands on the optical implementation and high hygienic requirements.

#### The VENTAFLEX solution

- ▶ 1. Appealing air ducting both vertically and horizontally with pipe diameters of Ø 730 - 1270 mm. Insulated transitions „rounded corners“ as a special form part GRP-PU-GRP.
- ▶ 2. The excellent insulation value of the VENTAFLEX ducts (thermal conductivity group 022) saved the need for additional insulation, eliminating an entire work step.
- ▶ 3. Since VENTAFLEX tubes are up to

70% lighter than comparable spiral seam pipes, considerable costs in statics and construction of the plant were saved.

Mr. Michael Platzer of Lüftungsbau Platzer GmbH indicates that the builder was very pleased with the VENTAFLEX system, which was unknown to him previously and he will most definitely use the system again when there is a comparable application. A very good conclusion.

#### Overview of benefits

- **Costs savings** with the materials
- **More installation options** due to the variety of designs
- **Savings in operating costs** (up to 40% less energy loss, up to 10% less pressure loss)
- **Lower installation costs** (up to 60% less installation time)
- **Up to 70% weight reduction** – important for the structural engineering and handling
- **Rapid individual adaptations**



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Further references at [www.ventaflex.de](http://www.ventaflex.de)

