

## **EXCLUSIVE AIR FLOW** – REPLACEMENT OF THE AIR FLOW SYSTEM GRAND HOTEL HUIS TER DUIN HAAMSTEDE



**no. 27**



**Reduces the on-going operational costs and offers an energy and cost saving of up to 40%**



**VENTAFLEX®**



**MORE EFFICIENCY FOR AIR DUCT SYSTEMS**





## Exclusive air flow – replacement of the air flow system Grand Hotel Huis ter Duin Haamstede NL



With the replacement of the air ventilation system the latest energy requirements for ventilation technology were implemented.

The unique insulating properties of polyurethane foam significantly reduce the energy demand when in operation, which is illustrated below in the practical comparison; this is what quickly helped to make the decision for using VENTAFLEX®.

### Practical comparison between VENTAFLEX® and fiberglass insulated spiral ducts

With an insulated air ducting system with the specifications

Length: 50 m  
Model range: 630  
Insulation thickness: 5 cm  
 $\Delta t$ : 20 K

Thus the following performance must be achieved:

**VENTAFLEX® : 900 W**  
**Third party piping: 1.430 W**

### Conclusion:

The VENTAFLEX® - System reduces ongoing operational costs and offers energy and cost savings of up to 40%.

## The task

For the plant process a flow rate of approx. 15,000 m<sup>3</sup> /h is needed.

## The VENTAFLEX solution

The installation of the system was conducted by our partner Airpro. The use of 3 meter assemblies, led to a significant reduction in installation time. Furthermore, having only half the weight compared to spiral ducting is again a considerable advantage with the installation. The significant wind loads on the coast were compensated for in this project by our new VENTAFIX clamps in combination with an innovative installation.

All of the VENTAFLEX® ventilation ducts and moulded parts delivered were clamped together using our proven VEN-

TASNAP clamp system. Suitable lengths were simply manufactured directly at the construction site

### The products used:

130 meters VENTAFLEX® industry pipes and tubes in the size Ø 200 to 520 mm and 60 shaped parts and 40 units pre-assembled throttle valves.

We used our proven Ventasnap clamp connection system.

## Overview of benefits

- Up to 40 % less energy loss
- Up to 60 % shorter installation times
- Up to 10 % less pressure loss
- Up to 70 % less weight



# VENTAFLEX®

MORE EFFICIENCY FOR AIR DUCT SYSTEMS

### VENTAFLEX

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

