



## Theme Park Case Study

The Hi-Velocity mini duct system provides a breath of fresh air in the world's most extreme live action horror maze

### Client requirements

When Thorpe Park in Surrey converted an old time river steamer into a large walk through maze based on the "SAW" series of horror films, ventilation was essential for both the customers and the actors working in parts of the maze.

### The solution

Hampshire contractors Rossair Ltd undertook the installation. Hi-Velocity is a high pressure air distribution system, which works by creating high pressure in a plenum duct. This method of air delivery enables the Hi-Velocity air handler to operate with up to 70m of plenum duct. The system was therefore the ideal choice to deliver fresh air to the areas required in this extensive area.

The plenum duct is connected to a series of small mini ducts, which terminate in drilled air delivery outlets – specifically sized holes in the ductwork. In order to add to the atmosphere of the ride, the ductwork was left on show.

During installation the client decided that heating & cooling were also required. A Hi-Velocity DX coil was easily added to the air handler and connected to a Daikin inverter heat pump condensing unit. This changed the system from fresh air delivery only to a full cooling, heating and ventilation system, which provided a high level of indoor air quality.

### Follow up

Rossair Ltd installed and completed the project on time and to everyone's satisfaction. The client is now enjoying complete heating, cooling and fresh air ventilation. Their customers are enjoying the most terrifying walk ever!

Brace yourself before visiting this particular Hi-Velocity installation!

The Hi-Velocity system saved space and provided essential fresh air ventilation for this indoor maze. The system was initially installed for fresh air ventilation only. Cooling and heating were easily added later when the requirements were changed.

**Hi-Velocity**  
Systems™



### Benefits

- Draught-free
- Heating and cooling
- Discrete
- Easy to install
- Space saving
- Energy efficient
- Fresh air option
- Quick temperature response
- Air purification option

### Installed in

Offices • Luxury houses  
Apartments • Hotels • Schools  
Factories • Laboratories  
Hospitals • Doctors surgeries  
Universities • Restaurants  
Shopping centres • Theme parks  
Leisure centres • Libraries  
Home cinemas • Care homes  
Commercial kitchens



Cooling & Heating Sales Ltd is the UK's leading expert on mini duct systems

Call us today on 0800 731 6352 to find out how Hi-Velocity can be the solution for your project.  
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