

Rolls Royce Jet Engines Factory







Condensation Free Air Distribution System

The Rolls Royce jet engines factory in Singapore was opened in 2010 due to increasing demands in Asia. The main concern for this factory was to make sure that condensation would not trouble manufacturing of the well known high technological Rolls Royce jet engines. Euro Air was proud to deliver a special solution for this very special factory.

Facts

Building owner: Rolls Royce

M&E: Hitachi Plant

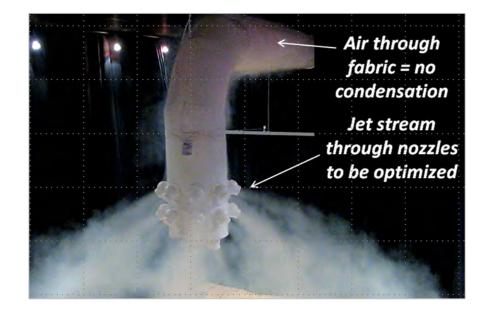
Distributor: LGM

Air distribution system through fabric and droppers with directional nozzles

To make sure that the factory would be condensation free, Euro Air fabric air distribution system was made of custom grey color DFC40 fabric combined with droppers.

What is so special about the droppers is that they are equipped with KE Fibertec vario Ø48 mm nozzles which are directional and solve clearance issues with the yellow horizontal cranes.







Case: Rolls Royce, Singapore



The fabric ducts were mounted on aluminum flexrail and suspended with threaded beams.

The installation consists of 8 fabric ducts starting with a diameter of Ø1800 mm going down to Ø630 after 100 meters length. About 10.000 m2 of fabric was used.

Facts

Production year 2010

Euro Air system: Hybrid system

DFC40 & nozzles

Custom color: Silver Grey RAL7001

Installation height: 16 meters

Air volume/duct: 72.000 m3/hr.

Static pressure: 139 Pa

Sound level: 40 dB(A)





BCA Green Mark for Buildings Award

The Rolls Royce factory project was awarded a Platinum Award from BCA Green Mark Building.



"Nick Ang, LGM from The LGM Group Pte Ltd Singapore

We are so proud of this installation. We had a very good collaboration with M&E Hitachi especially with project Manager Ito Jun. We were able to coordinate design and technical insights with Euro Air and air distribution is working as fine as a Rolls Royce jet engine..."



