

Installations: SRS Aircraft Maintenance Hangar, Shannon, Ireland

From RVR

This hangar has a floor area of 2700m² and a roof height of 16m. The building is used for aircraft refurbishment and maintenance. It can handle aircraft sizes up to Boeing 737.

Floor space is at a premium in the building and air movement is not desirable. For these reasons and for reasons of energy efficiency, a gas fired radiant tube heating system was specified.

A total of 16 units each rated at 35kW were installed giving a total system capacity of 270kW. The units were mounted at a height of 9m over floor level. Fresh combustion air is ducted into each burner and all units are flued to atmosphere. In this way a fully "room sealed" system has been created. This is considered essential for a safety point of view.

The hangar is divided into seven control zones and a black bulb radiant temperature sensor was installed in each. This allows the heater to be controlled in groups. Time and temperature control is used with a night set back facility to maintain a minimum hangar temperature at night.

The system was commissioned in April 1997 and has operated very successfully since then with modest fuel consumption, high reliability and low maintenance requirements.

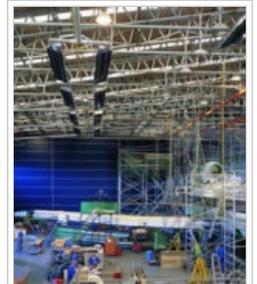
Companies Involved

- Consulting Engineers - Arup Consulting Engineers
- Installation Contractor - Morans of Ennis Ltd.

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Hangar (1 of 2)



Hangar (2 of 2)