

CASE STUDY

THEATRE AIR CONDITIONING REPLACEMENT



Air Options were asked to review the existing air conditioning systems installed within a theatre, given these were ageing and generally in poor condition.

Following inspection we found that the units overall were very old and we were unlikely to be able to repair / get the systems operational and reliable without excessive costs.

We therefore recommended that the units were decommissioned and removed / replaced with new, which would offer increased capacity as well as improved energy efficiency.

Existing indoor systems had previously been over painted to match with the walls / decor that made matching up equivalent units a little more difficult given all nameplates had been painted. We however undertook some load calculations on the area taking into account occupancy / lighting loads to determine recommended capacities as well as using some of our historical knowledge of the old units to determine existing unit capacities and performance.

The replacement systems were chosen from Mitsubishi Electric's Mr Slim "Power Inverter" range of products as these proved to be a perfect fit as well as significantly improving the overall energy efficiency.

As part of the installation we dismantled the indoor units and had these professionally primed and sprayed to a site specific RAL colour to match the walls.

These systems were also fitted with the hard wired remote controllers located in the control room as opposed to locally allowing for improved operation during the course of operation.

All replacement systems were phased around the use of the theatre and left each day in a clean and tidy manner to allow for the use of the area by the client.

Since installation the client now benefits from a warranted and reliable solution with improved temperature control / comfort for the public watching the performances.

Building:	Theatre
Location:	London
Manufacturer:	Mitsubishi Electric
Heating & Cooling:	YES
Refrigerant:	R410a
Objectives:	Upgrade / Improve Cooling
Engineering Achievements:	Phased During Normal Working Hours
Timescale:	2 Weeks
Options:	Coloured Matched Indoors

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No matter how large or small your project may be,
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