

Case Study

For Your Perfect Indoor Climate



Key Benefits

- ✓ Solves the problem of how to air condition a historic, listed building.
- ✓ Discreet air outlets blend beautifully into the stunning interior design.
- ✓ Comfortable, virtually draught-free cooling.
- ✓ De-stratification keeps the room warmer when heating - warm air that normally rises and is lost in the high ceilings is reclaimed and used.

The Perfect Cooling Solution for This Iconic, Listed Function Room

The problem: The Jockey Club at Newmarket race course is a magnificent Grade Two listed building and a popular venue for private and corporate functions. The iconic Coffee Room is the oldest of the reception rooms, dating back to 1752. It showcases a remarkable collection of famous equestrian paintings and historic racing trophies. The impressive bronze statue of the Classic Derby winner Hyperion can be viewed through imposing arched Georgian windows.

Unfortunately, the Coffee Room was unusable in warm weather due to uncomfortable overheating. The many windows are large and at high-level. A discreet cooling system was urgently needed. However, a traditional wall mounted air conditioning system would spoil the impressive interior design.

The solution: One 19.5kW Ingenious Air Small Duct System, paired with a sustainable heat pump, was installed to provide perfect climate control. Cooling and back-up heating were enhanced by a combination of re-circulated and damper controlled outside air supply. Provision was made to fit an energy saving CO₂ sensor, which controls outside air supply to match the occupancy of the room. English Heritage agreed the finish of discreet white air outlets to blend unobtrusively into the impressive interior design.

Follow up: The Ingenious Air Small Duct System creates the perfect indoor climate whilst maintaining the prestigious atmosphere. The Coffee Room no longer overheats. Events are hosted all year round, regardless of the outside temperature.

Mr. Bob Senior, Consultant M & E Engineer, KJ Tait Engineers:

“The unusually shaped room was difficult to service with very little accessible wall-space, and only the tall ceiling through which to locate ventilation. Air outlets had minimal impact on the coved ceiling and the slim ducts were compact enough to fit in the existing timber roof structure without expensive or intrusive alterations. This delighted the Conservation Officer and the Club.

The Events Manager is pleased with the resulting environment in the room, which is appreciably cooler than before. This allows the Club to take bookings year-round. Previously they had to advise clients to avoid the room for large events in the summer months”.

The Ingenious Air Small Duct System - WINNER of UK 'Air Conditioning Product of the Year' RAC Industry Cooling Awards 2015



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