

## BIDDLE CASE STUDY

# THE BIDDLE PROAIR SERIES 270 FAN COILS PROVIDE A QUIET AND CONTROLLED ENVIRONMENT AT LUXURY HOTEL RECEPTION AND RESTAURANT IN MANCHESTER.

### THE HVAC PROBLEM

The reception and dining area required a quiet, energy efficient heating and cooling solution, to ensure the hotel guests have the ideal dining experience, while maintaining a pleasant and welcoming ambience.

The dedicated Biddle specification team was on hand to guide the client through finding the perfect HVAC solution, specific to their requirements.



### THE PROJECT

The hotel is based in a very busy part in Manchester, which creates a high footfall through the entrance doorways with guest checking in and out.

Aesthetics is also a very important part of the hotel décor. The HVAC solution would be installed without a false ceiling below. Meaning that all components, pipe and duct work would be clearly visible for all to see.



## THE HVAC BIDDLE SOLUTION

Biddle understands that for the client it was paramount to guarantee their guests comfortable heating, cooling and ventilation whilst maintaining a quiet atmosphere during their stay. That's why, Biddle suggested the ProAir Series 270 range of fan coils.

The ProAir 270 fan coil units are ideal for exposed situations due to their low noise levels, even when the fan coil is running at full capacity it only produces 38 dB's; as a comparison an average library produces 40dB's. The fan coils are internally lined to ensure the quietest operation as they have installed the most energy-efficient motors available, Electronically Commuted (EC), Direct Current (DC) motors.

As standard the ProAir fan coils are supplied in galvanised steel, however, to comply with the strict aesthetic requirements of the hotel, we painted the units accordingly to fit with the surroundings.

From the factory our fan coils can be equipped with standard controls or free issue, yet Biddle can also supply a comprehensive controls offer to provide direct digital control of the ProAir 270 units. This allows the controller to be integrated into the wbuilding management system using a BACnet® network or alternatively multiple ProAir 270 units can be connected together.

In order to make sure that clean air is produced from the fan coil units and for fast, trouble-free cleaning, a removable G2 wire frame filter secured at the bottom of the unit is fitted at the inlet of the fan coil so that it can be easily removed.

The ProAir 270 Series fan coil units have been expertly installed on the exposed hotel ceilings and provide the perfect indoor levels of heating and cooling while maintaining the lowest noise levels.



## CONCLUSION

Here at Biddle, we always aim to provide the most cost effective, energy efficient solution to suit your needs.

## CONTACT US

If you're ready to find the perfect HVAC solution for you, our dedicated in-house technical and engineering experts, are on hand for advice and guidance every step of the way.

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**Contact us today!**

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# Biddle