SWAN Projects
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9th July 2015

For the attention of Mr J Haw

Dear Sir,

Re- Massey Chambers, extension to King Street Town House (KSTH)

I would confirm our proposed strategy report for the air conditioning and ventilation systems, to serve the basement extension (known as Massey Chambers) to the King Street Town House project, Booth Street, Manchester. As Massey Chambers, is to serve as a small extension to the KSTH hotel, it will benefit from the main hotel's air conditioning and ventilation systems.

Air Conditioning.

There is a Daikin Heat Recovery air conditioning system, serving the ground, mezzanine and first floor levels of the King Street Town House hotel, and this is proposed to be extended, to provide 3 additional air conditioning units, in Massey Chambers, one in the wine store, one in the meeting room and one in the kitchen cold prep area.

Each of the systems is independently controlled, and as the system is 'heat recovery', each system can simultaneously provide heating or cooling as required.

When a room is calling for cooling, then the heat 'recovered' from that room, is diverted, via the Daikin Branch Selector boxes, to another area of the system, that is calling for heating.

The Daikin Heat Recovery system is rated A/A on the European Energy Rating, and is centrally controlled from the hotel Bacnet system, with default systems ensuring that the air conditioning system, will only operate when rooms are occupied, when windows are closed, and will 'set-back' to pre-programmed temperature settings at midday, each day.

Ventilation

As Massey Chambers is a basement, with little or no natural ventilation, an extension to the main Heat Recovery ventilation system which serves the KSTH hotel has been designed, to allow 12 litres of fresh air, per second, per person, throughout Massey Chambers.

Air is extracted from each room, and is passed through a Heat Recovery Air Handling Unit, in the main plant room of KSTH. The AHU features a thermal wheel heat exchanger, which recovers up to 85% of stored energy, in the form of heat (or cool) and transfers this energy to the incoming fresh air, which is then distributed throughout the Massey Chambers, via a range of ventilation grilles or diffusers.

The Heat Recovery ventilation system, ensures that the fresh air, is supplied at very close to the desired general temperature of the hotel, so that the air conditioning system then has only a limited amount of work to do, to achieve the exact desired room temperatures.

I hope the above meets with your approval, however should you require any further information, please do not hesitate to contact me.

Yours faithfully

Geoff Kennedy
for
SWAN Projects

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