

The Charterhouse.

Complete kitchen vent system with fire rating

CASE STUDY

Client:



Situation:

The Charterhouse in London, needed to update its main cooking facility and engaged with specialist catering designer/distributor df20 to find an all-encompassing solution. In turn, df20 approached Kitchen Vent Technical to design a full kitchen ventilation system which needed to be sympathetic to the Grade 1 Listing of the building. The vent design also had to protect against the fire risk attributable to such a building, incorporating three-hour fire-rated & insulated ductwork, automatic fire suppression and an integrated control system. Visual aspects of the building (dating back to the 14th century), required discretely positioned intake and discharge terminals.



The KVT Solution:

KVT took the design brief, surveyed the site, mapped a suitable route through three levels of the building, to safely discharge the large quantity of extracted air to atmosphere and developed a suitable method of bringing a similar quantity of return supply-air, back into the space. Both vent systems incorporated high-power, low-noise, centrifugal fans, frequency inverters and a fully automatic control panel to integrate fan controls, heating interface, gas interlock and safety systems in one, neat & tidy, compact cabinet. The return supply air also incorporated a large electric heater battery element for air tempering in cooler weather. Additional noise attenuation was also successfully incorporated.



Why KVT:

- ✓ KVT were able to coordinate with other trades and operate on site, with additional awkward conditions under the Covid 19 lockdown restrictions but still complete the works on time – even whilst filming of a prominent TV series took place.
- ✓ The comprehensive controls package integrates several processes into an automatic operation and takes away the hassle from the kitchen staff.
- ✓ The KVT systems were complete with main island canopy and services distribution unit, all of the very best quality and fully compliant with the latest standards including DW172, DW144 & TR19.
- ✓ KVT ticked all these boxes and still maintained a very tight budget.

Customer Feedback:

"KVT offered a comprehensive package incorporating all the elements required for this magnificent yet sensitive building. Fire suppression, noise reduction and challenging client working hours were all successfully adhered to in a timely and professional manner. The entire team from KVT adapted to site and its conditions, to complete a fantastic project on time and budget. Looking forward to future opportunities between DF20Ltd, KVT and their team".

Chris Fleming (Managing Director) – df20.

