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PLANNING
ACKD
REPLIED
RECD 28 JAN 2010
DATE
FOR ACTION

19/05/09

Our Ref: NP/DS/190509

Dear Steve,

Re: Pall Mall Kitchen, Manchester

SPECIFICATION OF VENTILATION SYSTEM

The canopy will be manufactured from 304 grade satin finish stainless steel.
Within the canopy will be fitted a full length filter housing containing removable, washable baffle filters and grease catchment trays.
To the front face of the canopy will be a full length insulated supply air plenum chamber with double deflection grilles.
Bulkhead lights will be fitted to the canopy and pre-wired to a common junction box.

Extract system

Sized on face area of canopy 3.4 m x 1.1 m at 0.5 m/s face velocity (heavy loading as dw/172 specification) extraction air volume would be 1.87 m3/s.

Mounted above the canopy would be a systemair MUB062-560DV-K square duct fan with motor out of the airstream, suitable for operation in ambient temperatures up to 100 C. The casing would consist of an aluminium frame with fibreglass reinforced plastic corners and double skin, galvanised steel panels with a 20mm mineral wool insulation.
The mub casing is equipped with a grease tray under the impeller and a protective guard at the motor side,an isolator switch is mounted on the casing.

Fan speed 1400 RPM, 2.2 kW motor, 415/3/50 elec supply flc = 5.8 amps, sc = 32 amps (d-o-l) sound level 57 DBA at 3M.

The fan unit would be complete with a 5 speed autotransformer type speed control suitable for operation on 415/3/50 electrical supply which can be used on one of the lower speeds in normal operation "boosting" to full speed when the occasion demands.
On the discharge side of the fan would be a carbon filter unit comprising pre-filter grade f5 disposable bag filter cp413 bs5588 fire rated and discarb carbon filter with 208 high grade activated carbon giving 65%-70% efficiency with 50% adsorption index

From the carbon filter unit would be a duct connection passing through the wall where an acoustic exhaust louvre would be mounted at the termination of the duct.

Supply system

Sized on 80% of extraction rate giving a supply air volume of 1.5 m3/s.

Mounted on the outside wall face would be a supply air duct fitted with an acoustic intake louvre.

The duct would pass through the wall face where a v formation pleated air filter grade g3 would be fitted.

From the filter housing would be a connection to a supply air fan ref sccp500/4-1 compact power plus fan axial type,galvanised casing,aluminium impeller 1350 rpm,1.1 kw motor, 240/1/50 elec supply flc = 7.2 amps, sc = 21.6 amps (d-o-l) sound level 62 DBA at 3M

The supply air fan would be complete with a 5 speed autotransformer type speed controller suitable for operation on 240/1/50 electrical supply to vary the amount of supply air to the canopy.

From the fan would be a connection to the supply air section of the canopy where double deflection supply air grilles with dampers would be fitted on the front face to supply air into the kitchen area the grilles would be manufactured from satin anodised aluminium sections.

All in accordance with DW172.

We would advise that local authority approval be sought before carbon filters are used. We are able to achieve dw172 which is the hvca standard for commercial kitchen ventilation but because of the nebulous nature of the health and environment regulations which can vary from location to location we cannot accept any financial responsibility with regards to any further upgrade of the system.

Yours sincerely,

Nick Pendlebury
Managing Director


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