

Catering Equipment

Kitchen Equipment

Air conditioning

Reference:

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To whom it may concern,

I am writing to you regarding the extraction canopy. The canopy is manufactured from 430 Grade stainless steel and is in two sections. Also, there is steel wall cladding under the canopy system. The canopy system will be extraction **only**. The canopy is constructed of stainless steel with baffle type grease filters. These filters offer a Pascal resistance of 125. The canopy dimensions are L3800 x D1200 x H500mm.

The air for the canopy needs to be extracted at 2.16m³/s; to achieve this we would recommend a mounted fan, which is capable of extracting up to 2.19m³/s through a Pascal resistance of 100 which would achieve a face velocity of approximately 5.

The make and model of the fan is Woods 45 Max Fan Compact.

Part number: EJ463266

Power supply: 230V/50HZ 1 phase.

Noise level: 43dBA when monitored at 3 meters.

We recommend approximately 33dBA. To achieve a more acceptable noise level, we fitted two attenuators (silencers) - one **before** and one **after** the fan motor. The attenuators we used are 1DENP before the fan and 2DENP after the fan. The **before** attenuator will reduce the dBA level by 10 (canopy side) and the **after** attenuator will reduce the dBA by 18 (atmosphere/outside building) thus producing approximately 32dBA when mounted at 3 meters from the fan.

The duct size is 450mm. The ducting passes through the back wall of the kitchen and straight up towards the roof, approximately 1.2M above the roof; terminated via a jet type cowl offering no resistance thus reducing the dBA levels at termination. Also, the extractor fan will be connected to the gas interlock system. The extraction flue and all fastenings on the extract of the premises will be constructed from galvanised, rust-proof steel, complying with all your requirements.

Thank you.