



Commercial Kitchen Extraction & HVAC Systems Specialists
ESTABLISHED 2005

Specification Report

Project: Unit 27 Borough Parade, Chippenham, Wiltshire, SN15 3WL

Prepared by: Fan Rescue Ltd

Date: 09/02/2026

Report No: OD657710

Risk Assessment for Odour

We are pleased to provide an equipment selection for an odour control solution.

As with any project we get involved in we always recommend to our clients that they should closely follow the EMAQ/DEFRA guide for guidance on odour control equipment selection.

This ensures that what the proposed will be in line with local authority's requirements and if the system is maintained correctly, they will not exhaust nuisance odours leading to complaints from nearby residents.

With this in mind we carried out a risk assessment as detailed in Appendix 3 of the EMAQ Guide.

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Taking into consideration the level of discharge, proximity of receptors, size of kitchen and cooking type your project requires a high level of odour control to comply.

We have scored as below and as taken from Appendix 3: Risk Assessment for Odour;

Dispersion: **Moderate = 5**, (Discharging 1m above ridge at 15 m/s)

Proximity of receptors: **Close = 10**, (Closest Sensitive receptors is less than 20 meters from kitchen discharge)

Size of kitchen: **Medium = 3**, (Between 30 and 100 covers or medium sized take away)

Cooking type: **Very High= 10**, (Burger)

Total score = **28 (High)**

The type of odour abatement system that complies is as below, taken directly from the EMAQ Guide and must be to a **High Level** of control;

Impact Risk Assessment

Impact Risk	Odour Control Requirement	Significance Score*
Low to Medium	Low level odour control	Less than 20
High	High level odour control	20 to 35
Very high	Very high level odour control	more than 35

* based on the sum of contributions from dispersion, proximity of receptors, size of kitchen and cooking type:

Scoring Criteria

CRITERIA	SCORE	SCORE	DETAILS
Dispersion	Very Poor	20	Low level discharge into courtyard or restriction on stack
	Poor	15	Not low level but below eaves, or discharge at below 10 m/s
	Moderate	10	Discharging 1m above eaves at 10 – 15 m/s
	Good	5	Discharging 1m above ridge at 15 m/s
Proximity of Receptors	Close	10	Closest sensitive receptor less than 20m from kitchen discharge
	Medium	5	Closest sensitive receptor between 20 and 100m from kitchen discharge
	Far	1	Closest sensitive receptor more than 100m from kitchen discharge
Size of Kitchen	Large	5	More than 100 covers or large sized take away
	Medium	3	Between 30 and 100 covers or medium sized take away
	Small	1	Less than 30 covers or small sizes take away
Cooking Type	Very High	10	Pub (high level of fried food), fried chicken, burgers or fish and chips. <i>Turkish, Middle Eastern, or any premises cooking with solid fuel.</i>
	High	7	<i>Vietnamese, Thai or Indian, Japanese, Chinese or Steakhouse</i>
	Medium	4	<i>Cantonese, Italian, French, Pizza (gas fired)</i>
	Low	1	<i>Most pubs, (no fried food, mainly reheating and sandwiches etc.), Tea rooms..</i>

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The System

High level odour filtration system, the proposed filtration system consist of 2No disposable pre-filterG4 (Please see attached technical information),highly efficient removing filtering oil and grease particles , recommended to be replaced very 2 -3 weeks depending on the usage, 1No ESP 5000B to eliminate cooking smoke, grease and odour (Please see attached technical information). Followed by air clean extra duty carbon filter unit & casing, carbon filters use panels of activated carbon to remove the malodourous gases within the commercial kitchen extract duct through the process of chemical adsorption, to give dwell time of 0.4sec recommended to be replaced very 6-12 months depending on the usage (Please see attached technical information),



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