

RISK ASSESSMENT FOR ODOUR

The following 'Risk Assessment for Odour' has been derived from criteria outlined by DEFRA 2005 and EMAQ+, Guidance on the Control of Odour and Noise from Commercial Kitchen Exhaust Systems Appendix 3. The assessment is carried out to accurately score the site according to EMAQ+ standards.

Odour control must be designed to prevent odour nuisance in a given situation. The following score methodology is suggested as a means of determining odour control requirements using a simple risk assessment approach.

The impact risk is determined based on these factors:

Impact Risk	Odour Control Requirement	Significance Score
Low/Medium	Low Level Odour Control	Less than 20
High	High Level Odour Control	20-35
Very High	Very High Level Odour Control	More than 35

Criteria	Rating	Score	Details
Dispersion	Very Poor	25	Low level discharge, discharge into courtyard or restriction on stack
	Poor	20	Not low level but below eaves, or discharge at below 10 m/s.
	Moderate	10	Moderate 10 Discharging 1m above eaves at 10 - 15m/s
	Good	5	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 take away
Cooking Type (odour/grease loading)	Very High	10	Pub (high level of fried food), fried chicken, burgers or fish & chips
	High	7	Kebab, Vietnamese, Thai or Indian.
	Medium	4	Cantonese, Japanese or Chinese
	Low	1	Most pubs, Italian, French, Pizza or Steakhouse

Plasma Clean Air equipment is designed to offer the highest performance and reliability and is compliant with Building & Engineering Services Association (BESA) DW/172, EMAQ+ and Department for Environment, Food and Rural Affairs (DEFRA) Guidance on the control of odour and noise 2005 / 2010.

In accordance with the criteria outlined above, Plasma Clean Air can carry out an EMAQ+ approved odour risk assessment which is reported as follows.

Report Template

Criteria	Rating	Score	Details/Comments
Dispersion	Good	5	Vertical discharge 15m's above eaves + 14m from ground level
Proximity of Receptors	Close	10	Residential Beyond Discharge but windows set back & opposite direction to discharge
Size of Kitchen	Small	1	1 x Part Oven oven - Fridge to Discharge Gas Br. Packer 0.2m ³ /s
Cooking Type	Low	1	Since Gas Fridge Part Oven oven.

Impact Risk	Odour Control Requirement	Significance Score
Low	Low	17.

* Worst Case Scenario considered = 0.2m³/s @ 15m's with least adverse effect - little to no dispersion from odour particularly,

There is odours to range from Gas Penetration & is not deemed "Known Exposure",

At 10. 2024.