

Canopy UK - A guide to odour control

Odour control must be designed to prevent odour nuisance in each situation. The following diagram determines the odour control required using a risk assessment method. Please see below for considerations considered to calculate the level of odour control required.

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	35+

*Based on the sum of contributions from dispersion, proximity of receptors, size of kitchen & cooking type

Criteria	Score	Score	Details
Dispersion	Very Poor	20	Low level discharge, discharge into courtyard or restriction on stack.
	Poor	15	Not low level but below eaves, or discharge at below 10m/s
	Moderate	10	Discharging 1m above eaves at 10-15 m/s
	Good	5	Discharging 1m above the 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
	Far	1	Closest sensitive receptor more than 100m from kitchen discharge
Size of kitchen	Large	5	More than 100 covers or large size takeaway
	Medium	3	Between 30 and 100 covers or medium size takeaway
	Small	1	Less than 30 covers or a small takeaway
Cooking type (odour and grease loading)	Very high	10	High Level pub, 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.

Example application of scoring procedure for four different cooking situations

Example	Dispersion	Proximity of receptors	Size of kitchen	Cooking type	Total score
1, Pub	15	1	5	1	22
2, Kebab	20	10	3	7	40
3, Medium Indian	15	5	5	7	32
4, French restaurant	5	10	1	1	17

Odour assessment of premises and surrounding areas.

Site Address

Dominos
 Old Chapel
 Bridge Street
 Brigg
 DN20 8LP

Business	Dispersion	Proximity of receptors	Size of kitchen	Cooking type	Total score
Takeaway	20	5	5	1	31

With an impact risk of 31, this system will require a higher level of odour control, Canopy UK propose installing the following:

Fine filtration, with carbon filter unit & UVO-500. 0.4 second Dwell time will be achieved with the filter box sizing and filtration.

Assessed & Signed

Paul Spires

Canopy UK

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Canopy UK, use Defra & DW/172 as a guidance for the calculations we carry out.