

# AIRCLEAN

YOUR AIR FILTER MANUFACTURER

P.O. BOX 147,  
MAIDSTONE, ME14 2LA.

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## Kitchavent 2000 / 3000 / 4000

### Applications

- Complete grease, smoke, and odour solution
- 2 / 3 / or 4 Stage Filtration
- Duct Mounted
- Modules and combinations to suit all airflows
- Suitable for all cuisines

The Airclean Kitchavent can be installed into any convenient position in the duct run from the hood to the extract fan, offering a filtration solution for grease, smoke and cooking odours present in a kitchen extract.



### Stage 1 : Grease Filter

A washable filter that will filter and remove any grease that has passed through the initial pre filters in the cooker hood.

### Stage 2 : F5 Bag Filter

A disposable secondary filter to protect, prolong and ensure the working life of the HEPA and Activated Carbon Filter.

### Stage 3 : HEPA Filter

If "Blue Smoke" is a problem from char grilling a HEPA filter will ensure the removal of smoke to an efficiency of up to 99.997%.

### Stage 4 : Activated Carbon Filter

The final stage of filtration actually adsorbs the odourous organic compounds remaining in the air. By determining the type of cuisine the kitchen is cooking, a contact time can be determined to ensure the removal of any pertinent odours.

### Construction

The casing is manufactured from pre-coated steel, having plain external flanges of 40mm, two access doors on both sides, and a painted finish. The Grease Filter is located in a grease trough to facilitate regular cleaning of the unit.

### Maintenance

The cleaning regime is set by the user, and should be in accordance with HVCA document TR/17. Generally the Bag filter will require changing at least every 3 months and the Activated Carbon Filter when odours are being let by.

A sample of the activated carbon can be submitted to ourselves for analysis after 2 months of use, the results will provide a guide prediction as to when the unit will require changing. (See Section 6 of catalogue AC6/4 "Free Carbon Testing Service")

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## Technical

### The Kitchavent Series

The Kitchavent is available with varying styles and levels of filtration to meet specific kitchen requirements.

KITCHAVENT	Air Filter Combination	Filtration Offered
2000	F5 Bag Filter / Activated Carbon Filter	Light Grease / Odours
3000	G2 Grease Filter / F5 Bag Filter / Activated Carbon Filter	Medium to Heavy Grease / Odours
4000	G2 Grease Filter / F5 Bag Filter / HEPA Filter / Activated Carbon Filter	Medium to Heavy Grease / Smoke / Odours

### Contact Times

Typically recommended contact times :-

**0.1 Seconds Contact Time :** Suitable for most odour removal in English and Chinese Cuisine. (Light Odours)

**0.3 Seconds Contact Time :** Suitable for most odour removal in Indian and Thai Cuisine. (Heavy Odours)

For Specific odour removal please refer to our "Guide to Gaseous Adsorption" (Catalogue AC6/1b, Section 6), or contact our technical team.

### Positioning and Mounting

Units having a grease filter must be installed with horizontal airflow direction, and can be multiplied up for larger installations. If the Grease filter is not installed (Kitchavent 2000), then a vertically down airflow can be used.

Filter Changes and maintenance can be carried out from both sides of the units. Consideration must be made for manual handling and mounting as the weights of the Activated Carbon Filters and the actual units are high. (See below, and Catalogue AC6/2a Section 6).

Where installation access is difficult, **flat pack** AHU style Kitchavents are available for engineers to simply put together on site.

### Operating Conditions

**Max allowable air on conditions to the unit are 40 Degree Centigrade and 80% Relative Humidity, if these conditions are exceeded then the activated carbon filter will be ineffective.**

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## KITCHAVENT 2000 - 2 Stage Odour Control : 0.1 Second Contact Time

Airflow Rating @ 0.1 Second Contact Time		Overall Casing Size (mm) *				Cell Qty.	Part Numbers
m3/s	P.D. (Pa)		Height	Width	Depth		Casing / F5 Bag / Activated Carbon
	Clean	Dirty					
0.13	160	195	383	383	877	1	(1x) 1815201 / (1x) 1410621 / (1x) 1620601
0.26	160	195	383	681	877	2	(1x) 1815202 / (2x) 1410621 / (2x) 1620601
0.39	160	195	383	979	877	3	(1x) 1815203 / (3x) 1410621 / (3x) 1620601
0.52	160	195	383	1277	877	4	(1x) 1815204 / (4x) 1410621 / (4x) 1620601
0.27	322	400	383	383	1182	1	(1x) 1815211 / (1x) 1410621 / (1x) 1620602
0.54	322	400	383	681	1182	2	(1x) 1815212 / (2x) 1410621 / (2x) 1620602
0.81	322	400	383	979	1182	3	(1x) 1815213 / (3x) 1410621 / (3x) 1620602
1.08	322	400	383	1277	1182	4	(1x) 1815214 / (4x) 1410621 / (4x) 1620602
0.3	132	169	535	535	877	1	(1x) 1815221 / (1x) 1410623 / (1x) 1620603
0.6	132	169	535	985	877	2	(1x) 1815222 / (2x) 1410623 / (2x) 1620603
0.54	253	321	535	535	1182	1	(1x) 1815231 / (1x) 1410623 / (1x) 1620604
1.08	253	321	535	985	1182	2	(1x) 1815232 / (2x) 1410623 / (2x) 1620604
0.53	296	367	688	383	1182	1	(1x) 1815251 / (1x) 1410624 / (1x) 1620606
1.06	296	367	688	681	1182	2	(1x) 1815252 / (2x) 1410624 / (2x) 1620606
1.59	296	367	688	979	1182	3	(1x) 1815253 / (3x) 1410624 / (3x) 1620606
2.12	296	367	688	1277	1182	4	(1x) 1815254 / (4x) 1410624 / (4x) 1620606

## KITCHAVENT 2000 - 2 Stage Odour Control : 0.3s Contact Time

Airflow Rating @ 0.3 Second Contact Time		Overall Casing Size (mm) *				Cell Qty.	Part Numbers
m3/s	P.D. (Pa)		Height	Width	Depth		Casing / F5 Bag / Activated Carbon
	Clean	Dirty					
0.04	53	65	383	383	877	1	(1x) 1815201 / (1x) 1410621 / (1x) 1620601
0.09	53	65	383	681	877	2	(1x) 1815202 / (2x) 1410621 / (2x) 1620601
0.13	53	65	383	979	877	3	(1x) 1815203 / (3x) 1410621 / (3x) 1620601
0.17	53	65	383	1277	877	4	(1x) 1815204 / (4x) 1410621 / (4x) 1620601
0.09	107	133	383	383	1182	1	(1x) 1815211 / (1x) 1410621 / (1x) 1620602
0.18	107	133	383	681	1182	2	(1x) 1815212 / (2x) 1410621 / (2x) 1620602
0.27	107	133	383	979	1182	3	(1x) 1815213 / (3x) 1410621 / (3x) 1620602
0.36	107	133	383	1277	1182	4	(1x) 1815214 / (4x) 1410621 / (4x) 1620602
0.10	44	56	535	535	877	1	(1x) 1815221 / (1x) 1410623 / (1x) 1620603
0.20	44	56	535	985	877	2	(1x) 1815222 / (2x) 1410623 / (2x) 1620603
0.18	84	107	535	535	1182	1	(1x) 1815231 / (1x) 1410623 / (1x) 1620604
0.36	84	107	535	985	1182	2	(1x) 1815232 / (2x) 1410623 / (2x) 1620604
0.18	99	122	688	383	1182	1	(1x) 1815251 / (1x) 1410624 / (1x) 1620606
0.35	99	122	688	681	1182	2	(1x) 1815252 / (2x) 1410624 / (2x) 1620606
0.53	99	122	688	979	1182	3	(1x) 1815253 / (3x) 1410624 / (3x) 1620606
0.71	99	122	688	1277	1182	4	(1x) 1815254 / (4x) 1410624 / (4x) 1620606

\* Duct Size is overall size Less 80mm.

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## KITCHAVENT 3000 - 3 Stage Grease and Odour Control : 0.1 Second Contact Time

Airflow Rating @ 0.1 Second Contact Time			Overall Casing Size (mm) *			Cell Qty.	Part Numbers
m3/s	P.D. (Pa)		Height	Width	Depth		Casing / Grease / F5 Bag / Activated Carbon
	Clean	Dirty					
0.13	178	231	383	383	877	1	(1x) 1815301 / (1x) 1310601 / (1x) 1410621 / (1x) 1620601
0.26	178	231	383	681	877	2	(1x) 1815302 / (2x) 1310601 / (2x) 1410621 / (2x) 1620601
0.39	178	231	383	979	877	3	(1x) 1815303 / (1x) 1310601 / (3x) 1410621 / (3x) 1620601
0.52	178	231	383	1277	877	4	(1x) 1815304 / (1x) 1310601 / (4x) 1410621 / (4x) 1620601
0.27	354	464	383	383	1182	1	(1x) 1815311 / (1x) 1310601 / (1x) 1410621 / (1x) 1620602
0.54	354	464	383	681	1182	2	(1x) 1815312 / (2x) 1310601 / (2x) 1410621 / (2x) 1620602
0.81	354	464	383	979	1182	3	(1x) 1815313 / (2x) 1310601 / (3x) 1410621 / (3x) 1620602
1.08	354	464	383	1277	1182	4	(1x) 1815314 / (2x) 1310601 / (4x) 1410621 / (4x) 1620602
0.3	150	205	535	535	877	1	(1x) 1815321 / (1x) 1310603 / (1x) 1410623 / (1x) 1620603
0.6	150	205	535	985	877	2	(1x) 1815322 / (2x) 1310603 / (2x) 1410623 / (2x) 1620603
0.54	286	387	535	535	1182	1	(1x) 1815331 / (1x) 1310603 / (1x) 1410623 / (1x) 1620604
1.08	286	387	535	985	1182	2	(1x) 1815332 / (2x) 1310603 / (2x) 1410623 / (2x) 1620604
0.53	331	437	688	383	1182	1	(1x) 1815351 / (1x) 1310604 / (1x) 1410624 / (1x) 1620606
1.06	331	437	688	681	1182	2	(1x) 1815352 / (2x) 1310604 / (2x) 1410624 / (2x) 1620606
1.59	331	437	688	979	1182	3	(1x) 1815353 / (3x) 1310604 / (3x) 1410624 / (3x) 1620606
2.12	331	437	688	1277	1182	4	(1x) 1815354 / (4x) 1310604 / (4x) 1410624 / (4x) 1620606

## KITCHAVENT 3000 - 3 Stage Grease and Odour Control : 0.3 Second Contact Time

Airflow Rating @ 0.3 Second Contact Time			Overall Casing Size (mm) *			Cell Qty.	Part Numbers
m3/s	P.D. (Pa)		Height	Width	Depth		Casing / Grease / F5 Bag / Activated Carbon
	Clean	Dirty					
0.04	59	77	383	383	877	1	(1x) 1815301 / (1x) 1310601 / (1x) 1410621 / (1x) 1620601
0.09	59	77	383	681	877	2	(1x) 1815302 / (2x) 1310601 / (2x) 1410621 / (2x) 1620601
0.13	59	77	383	979	877	3	(1x) 1815303 / (1x) 1310601 / (3x) 1410621 / (3x) 1620601
0.17	59	77	383	1277	877	4	(1x) 1815304 / (1x) 1310601 / (4x) 1410621 / (4x) 1620601
0.09	118	155	383	383	1182	1	(1x) 1815311 / (1x) 1310601 / (1x) 1410621 / (1x) 1620602
0.18	118	155	383	681	1182	2	(1x) 1815312 / (2x) 1310601 / (2x) 1410621 / (2x) 1620602
0.27	118	155	383	979	1182	3	(1x) 1815313 / (2x) 1310601 / (3x) 1410621 / (3x) 1620602
0.36	118	155	383	1277	1182	4	(1x) 1815314 / (2x) 1310601 / (4x) 1410621 / (4x) 1620602
0.10	50	68	535	535	877	1	(1x) 1815321 / (1x) 1310603 / (1x) 1410623 / (1x) 1620603
0.20	50	68	535	985	877	2	(1x) 1815322 / (2x) 1310603 / (2x) 1410623 / (2x) 1620603
0.18	95	129	535	535	1182	1	(1x) 1815331 / (1x) 1310603 / (1x) 1410623 / (1x) 1620604
0.36	95	129	535	985	1182	2	(1x) 1815332 / (2x) 1310603 / (2x) 1410623 / (2x) 1620604
0.18	110	146	688	383	1182	1	(1x) 1815351 / (1x) 1310604 / (1x) 1410624 / (1x) 1620606
0.35	110	146	688	681	1182	2	(1x) 1815352 / (2x) 1310604 / (2x) 1410624 / (2x) 1620606
0.53	110	146	688	979	1182	3	(1x) 1815353 / (3x) 1310604 / (3x) 1410624 / (3x) 1620606
0.71	110	146	688	1277	1182	4	(1x) 1815354 / (4x) 1310604 / (4x) 1410624 / (4x) 1620606

\* Duct Size is overall size Less 80mm.

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## KITCHAVENT 4000 - 4 Stage Grease, Smoke, and Odour Control : 0.1 Second Contact Time

Airflow Rating @ 0.1 Second Contact Time		Overall Casing Size (mm) *			Cell Qty.	Part Numbers
m3/s	P.D. (Pa)		Height	Width	Depth	Casing / Grease / F5 Bag / HEPA / Activated Carbon
	Clean	Dirty				
0.13	275	425	383	383	1519	1 (1x) 1815401 / (1x) 1310601 / (1x) 1410621 / (1x) 1510801 / (1x) 1620601
0.26	275	425	383	681	1519	2 (1x) 1815402 / (2x) 1310601 / (2x) 1410621 / (2x) 1510801 / (2x) 1620601
0.39	275	425	383	979	1519	3 (1x) 1815403 / (3x) 1310601 / (3x) 1410621 / (3x) 1510801 / (3x) 1620601
0.52	275	425	383	1277	1519	4 (1x) 1815404 / (4x) 1310601 / (4x) 1410621 / (4x) 1510801 / (4x) 1620601
0.20	418	651	383	383	1824	1 (1x) 1815401 / (1x) 1310601 / (1x) 1410621 / (1x) 1510801 / (1x) 1620602
0.40	418	651	383	681	1824	2 (1x) 1815402 / (2x) 1310601 / (2x) 1410621 / (2x) 1510801 / (2x) 1620602
0.60	418	651	383	979	1824	3 (1x) 1815403 / (3x) 1310601 / (3x) 1410621 / (3x) 1510801 / (3x) 1620602
0.80	418	651	383	1277	1824	4 (1x) 1815404 / (4x) 1310601 / (4x) 1410621 / (4x) 1510801 / (4x) 1620602
0.30	254	413	535	535	1519	1 (1x) 1815421 / (1x) 1310603 / (1x) 1410623 / (1x) 1510803 / (1x) 1620603
0.60	254	413	535	985	1519	2 (1x) 1815422 / (2x) 1310603 / (2x) 1410623 / (2x) 1510803 / (2x) 1620603
0.43	373	599	535	535	1824	1 (1x) 1815421 / (1x) 1310603 / (1x) 1410623 / (1x) 1510803 / (1x) 1620604
0.86	373	599	535	985	1824	2 (1x) 1815422 / (2x) 1310603 / (2x) 1410623 / (2x) 1510803 / (2x) 1620604
0.40	401	632	688	383	1824	1 (1x) 1815451 / (1x) 1310604 / (1x) 1410624 / (1x) 1510804 / (1x) 1620606
0.80	401	632	688	681	1824	2 (1x) 1815452 / (2x) 1310604 / (2x) 1410624 / (2x) 1510804 / (2x) 1620606
1.20	401	632	688	979	1824	3 (1x) 1815453 / (3x) 1310604 / (3x) 1410624 / (3x) 1510804 / (3x) 1620606
1.60	401	632	688	1277	1824	4 (1x) 1815454 / (4x) 1310604 / (4x) 1410624 / (4x) 1510804 / (4x) 1620606

## KITCHAVENT 4000 - 4 Stage Grease, Smoke, and Odour Control : 0.3 Second Contact Time

Airflow Rating @ 0.3 Second Contact Time		Overall Casing Size (mm) *			Cell Qty.	Part Numbers
m3/s	Clean P.D. (Pa)		Height	Width	Depth	Casing / Grease / F5 Bag / HEPA / Activated Carbon
	Clean	Dirty				
0.04	92	142	383	383	1519	1 (1x) 1815401 / (1x) 1310601 / (1x) 1410621 / (1x) 1510801 / (1x) 1620601
0.09	92	142	383	681	1519	2 (1x) 1815402 / (2x) 1310601 / (2x) 1410621 / (2x) 1510801 / (2x) 1620601
0.13	92	142	383	979	1519	3 (1x) 1815403 / (3x) 1310601 / (3x) 1410621 / (3x) 1510801 / (3x) 1620601
0.17	92	142	383	1277	1519	4 (1x) 1815404 / (4x) 1310601 / (4x) 1410621 / (4x) 1510801 / (4x) 1620601
0.07	139	217	383	383	1824	1 (1x) 1815401 / (1x) 1310601 / (1x) 1410621 / (1x) 1510801 / (1x) 1620602
0.13	139	217	383	681	1824	2 (1x) 1815402 / (2x) 1310601 / (2x) 1410621 / (2x) 1510801 / (2x) 1620602
0.20	139	217	383	979	1824	3 (1x) 1815403 / (3x) 1310601 / (3x) 1410621 / (3x) 1510801 / (3x) 1620602
0.27	139	217	383	1277	1824	4 (1x) 1815404 / (4x) 1310601 / (4x) 1410621 / (4x) 1510801 / (4x) 1620602
0.10	85	138	535	535	1519	1 (1x) 1815421 / (1x) 1310603 / (1x) 1410623 / (1x) 1510803 / (1x) 1620603
0.20	85	138	535	985	1519	2 (1x) 1815422 / (2x) 1310603 / (2x) 1410623 / (2x) 1510803 / (2x) 1620603
0.14	124	200	535	535	1824	1 (1x) 1815421 / (1x) 1310603 / (1x) 1410623 / (1x) 1510803 / (1x) 1620604
0.29	124	200	535	985	1824	2 (1x) 1815422 / (2x) 1310603 / (2x) 1410623 / (2x) 1510803 / (2x) 1620604
0.13	134	211	688	383	1824	1 (1x) 1815451 / (1x) 1310604 / (1x) 1410624 / (1x) 1510804 / (1x) 1620606
0.27	134	211	688	681	1824	2 (1x) 1815452 / (2x) 1310604 / (2x) 1410624 / (2x) 1510804 / (2x) 1620606
0.40	134	211	688	979	1824	3 (1x) 1815453 / (3x) 1310604 / (3x) 1410624 / (3x) 1510804 / (3x) 1620606
0.53	134	211	688	1277	1824	4 (1x) 1815454 / (4x) 1310604 / (4x) 1410624 / (4x) 1510804 / (4x) 1620606

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