



## The self-contained **FIRESAFE** kitchen ventilation system





Building and equipping a professional kitchen can be an expensive exercise when considering location, planning applications, equipment, fire regulations, external ductwork, etc.

But, what if you could locate a professional kitchen almost anywhere?

With the

Refresh Firesafe Extraction Solution, you can!!!

Our compact Refresh Firesafe units incorporate the very latest air extraction systems, with the option of including conditioning, recirculation and fire suppression capabilities together with multistage filtration and biochemical technologies- without the need for permanent exhaust fans and expensive ductwork to atmosphere.

No more worrying about finding the right location, gaining planning permission for external building work and expensive external ductwork.

Just find the right location and start generating business.



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### No requirement for route to atmosphere.



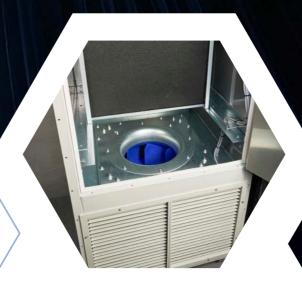


Unlock new locations

Reduce fire risk

# Typical locations where Refresh Firesafe units offer an excellent solution include:-

- Shopping Malls
- Concession areas in transport hubs such as airports, train stations and bus interchanges
- Theatres, Arena's, Concert Halls
- Hotels
- Sports Stadia
- Buildings with listed status





benefits



Cost benefits

- Universities, Colleges and Schools
- Leisure attractions
- Retail outlets
- High rise buildings
- Basement areas
- Buildings with restricted planning consent



### Model Number Identification

FKE	005	СВ	3	- 02

Where:

- FKE Fire safe Construction Kitchen Extract
- 005 Airflow (0.5m<sup>3</sup>/s)
- CB - Activated carbon filters
- 1/3 1 Single phase, 3 Three phase
- 02 - 0.2s dwell time (standard for maximum rated airflow)

### What is Dwell time?

Dwell time is the time needed for the air to pass through the filter whilst remaining in contact with the Activated Carbon media.

The longer the passing air remains in contact with the activated carbon media the greater the removal of air borne odours.

Refer to guidelines below for dwell time range that may be considered for various applications.



### Nature of cooking

Light catering, kitchens, fish & chips, restauran

High concentration of fried foods / burgers

Indian, Chinese restaurants / cooking with lots

Higher dwell time can be achieved by reducing the airflow through the units.

For example, FKE-Pro unit with the model number FKE036CB3-02 has a rated airflow of 3.6m<sup>3</sup>/s and a dwell time of 0.2s. Dwell time of this unit can be increased to 0.3s by reducing the airflow to 75% of the rated airflow (i.e 2.7m<sup>3</sup>/s) and the dwell time can be further increased to 0.4s by reducing the airflow to 50% of the rated airflow (i.e 1.8m<sup>3</sup>/s).

	Dwell time	
nts, pizza & burgers	0.1s - 0.2s	
	0.2s - 0.3s	
of onion, garlic & spices	0.2s - 0.4s	





The Refresh Firesafe solution has been specifically designed to facilitate cooking extractionwithout the need to discharge to outside atmosphere.

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Refresh FIRESAFE

## Refresh Firesafe **Product Range**

The range of Refresh Firesafe units offer a selfcontained cooking extraction solution designed to recirculate cleaned air back into the kitchen spacerather than extracting it outside the building. The Refresh Firesafe solution incorporates an impressive range of advanced features whilst also delivering exceptional advantages.

These units are suitable for electrical cookline appliances and are available in three different series, FKE-Standard, FKE-Pro mini and FKE-Pro, covering an airflow range of 0.5m<sup>3</sup>/s to 3.6m<sup>3</sup>/s.

The FKE-Standard series of units incorporates 3-stages of filtration. These units are very compact and light in construction.

The FKE-Pro mini series delivers all the benefits of the FKE-Standard series and in addition, includes a fourth stage of filtration with high-efficiency, advanced activated carbon filtration with a dwell time of 0.1s as standard at maximum rated airflow. The FKE-Pro series also delivers all the benefits of the FKE-Standard series and in addition, includes a fourth stage of filtration with high-efficiency, advanced activated carbon filtration but with a higher dwell time of 0.2s as standard at maximum rated airflow.

Consideration for any cooling requirements to cater for internal heat loads should be considered at planning stage.

Refresh Firesafe units are provided with a Control Kit having several enhanced features and control options. A Premium Controls option with several sophisticated premium features is available upon request.

The Refresh Firesafe range is manufactured to the highest standards and incorporates the very latest technology-delivering a highly competitive, energy efficient, state-of-the-art recirculation solution.

## Features and advantages of the **Refresh Firesafe**

### **Features include:-**

- Compact unit design-utilising the latest materials and equipment
- Innovative design-recirculating • clean air back into the kitchen space
- Extensive range -solving almost any • situation
- Multi-stage, high efficiency filtration
- The latest bio-chemical technologyto combat fats and grease build up within the canopy
- No requirement for expensive • external ductwork
- Quick and easy installation
- Reduced maintenance costscompared to other similar solutions
- Latest fan technology reducing • operating costs
- High efficiency filters, whilst removing fats and grease, also help to reduce the risk of bacteria and viruses being recirculated.
- Can also be used as a standalone • unit to clean air within a room.
- The unit construction has undergone • a 2 hour observation Fire Resistance Test-utilising the general principles of BS476 Part 20:1987 (Warrington Fire Report 429782 Available on request).

### **Advantages include:-**

- High efficiency extraction, conditioning and recirculation of air-from one, compact designed unit
- Quick and easy to install- saving on materials, time and money
- Substantially reduced operating costs
- Reduced external ductwork cleaning requirements •
- No complicated planning applications • requiring external ducting
- A very flexible solution- plug and play
- Kitchens can usually be situated in locations which would normally be restricted-due to external ductwork requirements
- Simplified planning applications •
- Ideal for both new and retrofit applications
- Highly energy efficient •
- Low capital costs when compared to other solutions •
- Provides a safer, more comfortable and • productive environment
- The option of additional built in fire suppression, • cooling and heat reclaim systems
- Designed and manufactured by Weatheritedelivering high efficiency HVAC solutions for over 50 years



## General description and operation



### Compliance

- Fire Officer • Air Quality Consultant
- Acoustic Consultant



- Environmental Health Officer
   Building Control Officer
  - Food Standards Agency

### **Standard Filtration**

- Stage 1 Washable stainless steel grease filter
- Stage 2 Pleated panel filter (ISO coarse 70% / G4) Stage 3 - Carbon rigid compact filter
- (ISO ePM1 60% / F7)
- Stage 4 Activated carbon filter (FKE Pro Mini & FKE Pro series)

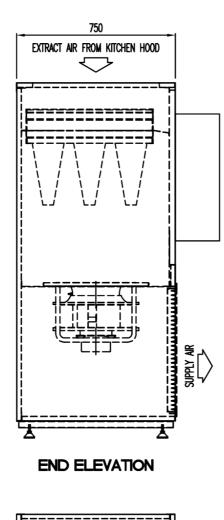


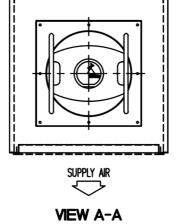
### **FKE Standard Series**

### Unit - Models FKE0051, FKE0053 & FKE0093

# 750 EXTRACT AIR FROM KITCHEN HOOD $\bigtriangledown$ ο E<del>ctercester</del>: 1600 O/S UNIT 0 **V**A AV 8 FRONT ELEVATION \_\_\_\_\_

PLAN VIEW





Specifications - Models FKE0051, FKE0053 & FKE0093

Constru			
	Design Air Flow	Air Flow	Unit Model
	m³/s		
Stage 1 - Sta	0.5		FKE0051
Stage 2 - High	0.5		FKE0053
Stage 3 - C	0.9	<b>&gt;</b>	FKE0093

	Design												
	Desig	ın Air	External Static Pressure			Rated	Rated	Maximum	Electrical		Specific Fan		
Unit Model	Flo	ŚW	Design	Available Max ESP*	Fans	Current		Temperature	Frequency	Dhase	Power**		
	m³/s	m³/hr	Pa	Pa		Amps	kW	°C	Hz	Phase	kW/m³/s		
FKE0051	0.5	1800	250	625	Ø310	6.6	1.3	45	50/60	Single	1.09		
FKE0053	0.5	1800	250	1045	Ø355	4	2.5	50	50/60	Three	1.08		
FKE0093	0.9	3240	250	975	Ø355	4	2.5	50	50/60	Three	0.95		
* - Max availabl	e ESP give	n in-case o	of unusual site re	equirements only	y	** - @Mean	filter condi	ition and Design Ex	ternal Static	Pressure			

	Dim	ensional I	Data		Noise Data***				
				Estimated	Casin	g Breakout @ 1m free	e field		
Unit Model		Dimensions		Weight <sup>++</sup>	Clean	Mean	Dirty		
	W (mm)	D (mm)⁺	H (mm)	kg	d(B)A	d(B)A	d(B)A		
FKE0051	750	750	1680	218	40	43	46		
FKE0053	750	750	1680	222	40	45	49		
FKE0093	750	750	1680	222	38	39	42		
+ - Excluding co					+++ - Noise data based on Design ESP				
++ - This weight	t does not inclu	ide the weight of	optional extra	5					

	Inlet / Outlet Sound Power Level <sup>×</sup>												
Unit Model	Octave bands (Hz)	63	125	250	500	1000	2000	4000	8000				
FKE0051	Inlet	72	66	66	63	58	55	47	41				
FREUUSI	Outlet	75	74	76	72	73	71	66	62				
FKE0053	Inlet	70	70	66	62	55	53	46	39				
FKEUU55	Outlet	76	78	75	72	74	69	65	59				
	Inlet	57	57	65	62	56	55	48	44				
FKE0093		65	66	74	72	74	71	67	64				



For comprehensive specifications and construction details please contact us on +44 (0)121 665 2266, Alternatively, e-mail us at: sales@weatheritegroup.com or visit the website: www.weatheriteac.com

### Notes:

- 1. Allow 800mm clear service access in front of each door
- 2. Inlet/Outlet sound power level calculated @ design ESP and mean filter conditions. For clean filters these will reduce slightly
- Maximum available pressure given in-case of unusual site 3. requirements only
- 4. The unit construction has undergone a 2 hour observation Fire Resistance Test-utilising the general principles of BS476 Part 20:1987 (Warrington Fire Report 429782 available on request).

# **FKE Standard Series**

### iction

	The unit
Filtration	observation
	principles
	Rep

ainless Steel Mesh Pre-Filter h Capacity Pleated Panel Filter Carbon Rigid Compact Filter

construction has undergone a 2 hour n Fire Resistance Test-utilising the general s of BS476 Part20:1987 (Warrington Fire port 429782 available on request)





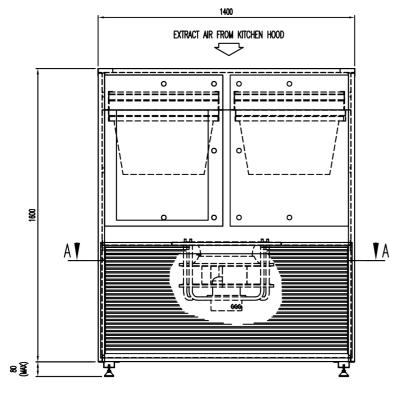
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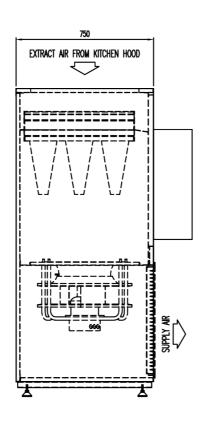
### **FKE Standard Series**

### Unit - Model FKE0183

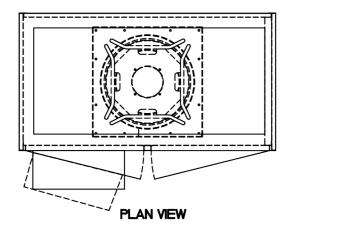
## **FKE Standard Series Specifications - Model FKE0183**

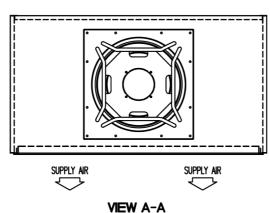


FRONT ELEVATION



END ELEVATION





Construction											
Unit Model	Air Flow	Design Air Flow m <sup>3</sup> /s	Filtration				obser	e unit construction has u vation Fire Resistance Tes iciples of BS476 Part20:19	st-utilising the general 87 (Warrington Fire		
FKE0183	×	1.8	<b>Stage 1</b> - Stainless Steel Mesh Pre-Filter <b>Stage 2</b> - High Capacity Pleated Panel Filter <b>Stage 3</b> - Carbon Rigid Compact Filter				REM	Report 429782 availab			
Design											
	Design Air	External Static Pressure	R	Rated	Rated	Maximu	ım	Electrical	Specific Fan		

	Design											
	Design Air		External Static Pressure			Rated	Rated	Maximum	Electrical		Specific Fan	
Unit Model		, w	Design	Available Max ESP*	ailable Max Current Power Temperatu	Temperature	Frequency	Phase	Power**			
	m³/s	m³/hr	Pa	Pa		Amps kW °C Hz Pha		Phase	kW/m³/s			
FKE018F3	1.8	6480	250	545	Ø450	4.8	2.9	40	50/60	Three	0.96	
* - Max availabl	e ESP give	n in-case	of unusual site re	equirements only	y :	** - @Mean i	filter condi	tion and Design Ex	ternal Static	Pressure		

	Dim	ensional I	Data		Noise Data***				
				Estimated	Casing Breakout @ 1m free field				
Unit Model	Model Dimensions W (mm) D (mm)⁺ H (mm)		Weight**	Clean	Mean	Dirty			
			kg	d(B)A	d(B)A	d(B)A			
FKE0183	1400	750	1680	342	48	48	49		
+ - Excluding co					+++ - Noise data based on Design ESP				
++ - This weight	does not inclu	ide the weight of	optional extra	5					

	Inlet / Outlet Sound Power Level <sup>×</sup>											
Unit Model	Unit Model         Octave bands (Hz)         63         125         250         500         1000         2000         4000         8000											
FKE0183	Inlet	76	71	74	70	62	58	51	50			
FKEU183	Outlet	80	79	82	80	80	74	70	68			
× - Sound po	wer levels based on d	esian external s	tatic pressure a	nd mean filter c	ondition (Not V	veiahted)						



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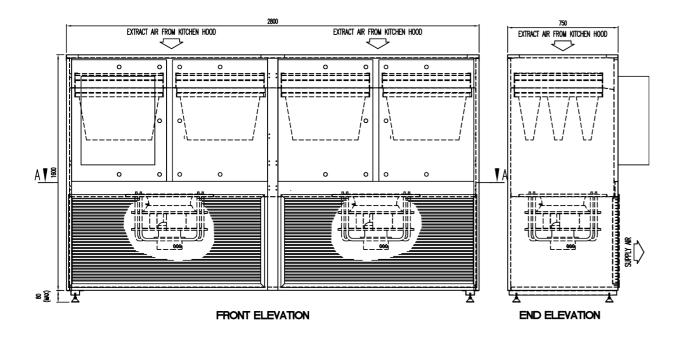




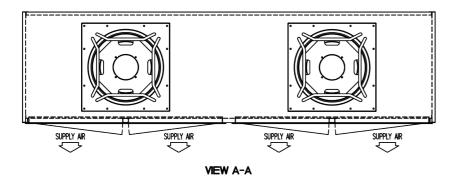
### **FKE Standard Series**

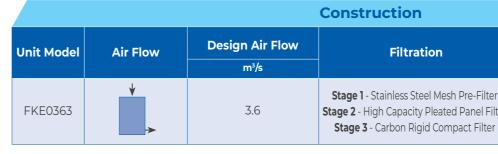
### Unit - Model FKE0363

## **FKE Standard Series Specifications - Model FKE0363**



PLAN VIEW





	Design											
			External Static Pressure			Rated	Rated	Maximum	Electrical		Specific Fan	
Unit Model			Design Available Max ESP*		Fans	Current	Power	Temperature	Frequency		Power**	
			Pa	Pa		Amps	kW	°C	Hz	Phase	kW/m³/s	
FKE0363	3.6	12960	250	545	2 x Ø450	9.6	5.8	40	50/60	Three	0.96	
* - Max availabl	* - Max available ESP given in-case of unusual site requirements only ** - @Mean filter condition and Design External Static Pressure											

	Dim	ensional I	Data			Noise Data***					
				Estimated	Casing Breakout @ 1m free field						
Unit Model	Dimensions			Weight**	Clean	Mean	Dirty				
	$\begin{array}{c c} W (mm) & D (mm)^{+} & H (mm) \end{array}$		H (mm)	kg	d(B)A	d(B)A	d(B)A				
FKE0363	2800	750	1680	591	51	51	52				
+ - Excluding of		pth de the weight of	ontional extra	-	+++ - Noise data based on Design ESP						

	Inlet / Outlet Sound Power Level <sup>×</sup>											
Unit Model	Octave bands (Hz)	63	125	250	500	1000	2000	4000	8000			
FKE0363	Inlet	79	74	77	73	65	61	54	53			
FREUJUJ	Outlet         83         82         85         83         83         77         73         71											
* - Sound power levels based on design external static pressure and mean filter condition (Not Weighted)												



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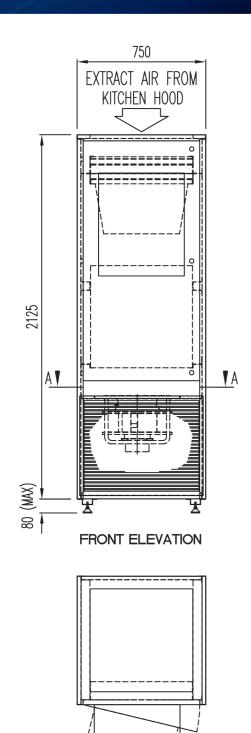
Filtration	The unit construction has undergone a 2 hour observation Fire Resistance Test-utilising the general principles of BS476 Part20:1987 (Warrington Fire Depart (2020) a united are request)
	Report 429782 available on request)
ainless Steel Mesh Pre-Filter Capacity Pleated Panel Filter arbon Rigid Compact Filter	



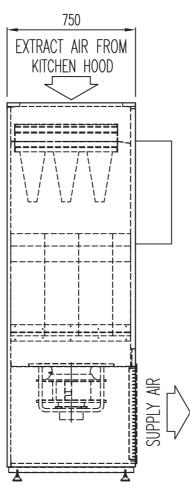
### **FKE PRO Mini Series**

### Unit - Model FKE009CB3-01

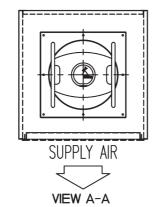
## **FKE PRO Mini Series** Specifications - Model FKE009CB3-01



PLAN VIEW



END ELEVATION



#### Construction **Design Air Flow** Filtration Unit Model **Air Flow** m³/s Stage 1 - Stainless Steel Mesh Pre-Filter FKE009CB3-01 0.9

	Design											
	Design Air Flow m³/s m³/hr		External Static Pressure			Rated	Rated	Maximum	Electrical		Specific Fan	
Unit Model			Design Available ESP*		Fans	Current	Power	Temperature	Frequency		Power**	
			Pa	Pa		Amps	kW	°C	Hz	Phase	kW/m³/s	
FKE009CB3-01	0.9	3240	250	790	Ø355	4	2.5	50	50/60	Three	1.24	
* - Max available ESP given in-case of unusual site requirements only ** - @Mean filter condition and Design External Static Pressure												

Dir	nensi	onal D	Data		No	oise Dat	:a***	Dwell Time
				Estimated	Casing Br	eakout @ 1	m free field	
Unit Model Dimensions				Weight**	Clean	Mean	Dirty	Seconds
	W (mm) D (mm) <sup>+</sup> H (mm)		kg	d(B)A	d(B)A	d(B)A		
FKE009CB3-01	750	750	2205	360	40	44	45	O.1
+ - Excluding control ++ - This weight does			ght of opi	tional extras	+++ - Noise o	data based o	n Design ESP	

		li.	nlet / Out	tlet Soun					
Unit Model	Octave bands (Hz)	63	125	250					
FKE009CB3-01	Inlet	58	56	67					
FREUUSCBS-UI	Outlet	69	68	79					
* - Sound power levels based on design external static pressure and mean filter c									



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The unit construction has undergone a 2 hour observation Fire Resistance Test-utilising the general principles of BS476 Part20:1987 (Warrington Fire Report 429782 available on request)

Stage 2 - High Capacity Pleated Panel Filter Stage 3 - Carbon Rigid Compact Filter Stage 4 - Activated Carbon Filter

REMOVES



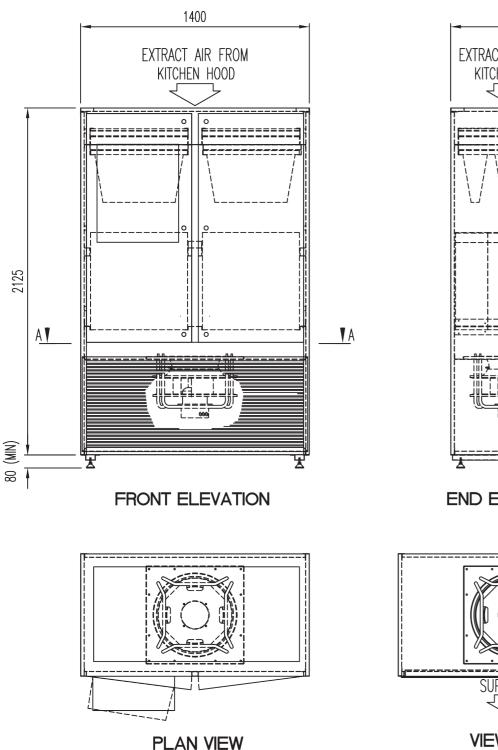
#### nd Power Level<sup>×</sup> 500 1000 2000 4000 8000 60 53 51 42 36 74 76 74 70 66 lition (N

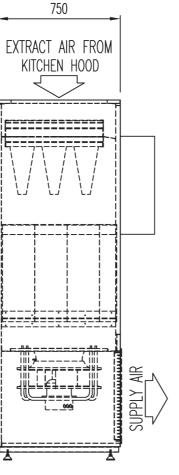


### **FKE PRO Mini Series**

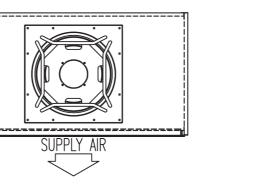
### Unit - Model FKE018CB3-01

## **FKE PRO Mini Series** Specifications - Model FKE018CB3-01

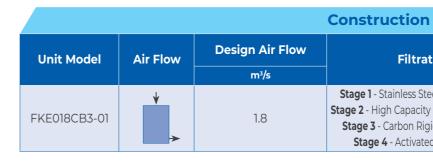




END ELEVATION



**VIEW A-A** 



	Design											
	Design Air FlowExternal St Designm³/sm³/hrPa		External Sta	atic Pressure		Rated	Rated	Maximum	Electrical		Specific Fan	
Unit Model			Design Available Max ESP* Fan		Fans	Current	Power	Temperature	Frequency		Power**	
			Pa	Pa		Amps	kW	°C	Hz	Phase	kW/m³/s	
FKE018CB3-01	1.8	6480	250	360	Ø450	4.8	2.9	40	50/60	Three	1.23	
* - Max available ESP given in-case of unusual site requirements only ** - @Mean filter condition and Design External Static Pressure												

D	imens	ional [	Data		No	oise Dat	:a***	Dwell Time
				Estimated	Casing Br	eakout @ 1	m free field	
Unit Model Dimensions				Weight**	Clean	Mean	Dirty	Seconds
	W (mm) D (mm) <sup>+</sup> H (mm)		kg	d(B)A	d(B)A	d(B)A		
FKE018CB3-01	1400	750	2205	594	49	49	50	0.1
+ - Excluding contr ++ - This weight do			ight of op	tional extras	+++ - Noise o	data based o	n Design ESP	

	Inlet / Outlet Sound Power Level <sup>×</sup>												
Unit Model	Octave bands (Hz)												
	Inlet	74	67	73	67	59	53	43	40				
FREUICES-UI	FKE018CB3-01         Outlet         81         78         84         81         81         76         71         68												
* - Sound power levels based on design external static pressure and mean filter condition (Not Weighted)													



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Filtra	tion
1 11 11 11 11	

The unit construction has undergone a 2 hour observation Fire Resistance Test-utilising the general principles of BS476 Part20:1987 (Warrington Fire Report 429782 available on request)

Stage 1 - Stainless Steel Mesh Pre-Filter Stage 2 - High Capacity Pleated Panel Filter Stage 3 - Carbon Rigid Compact Filter Stage 4 - Activated Carbon Filter

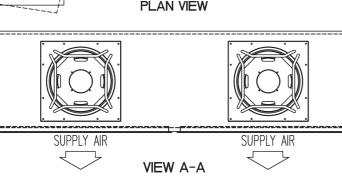




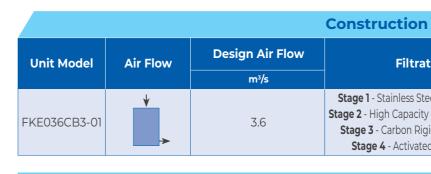
### **FKE PRO Mini Series**

### Unit - Model FKE036CB3-01

### 2800 750 EXTRACT AIR FROM EXTRACT AIR FROM EXTRACT AIR FROM KITCHEN HOOD KITCHEN HOOD KITCHEN HOOD E \_\_\_\_\_ \_\_\_\_\_ -----2125 <del>- ##\_\_\_\_\_##\_</del>\_ ║╞╘╞╡╸╕╧╡║ (MAX) 8 END FRONT ELEVATION ELEVATION PLAN VIEW



## **FKE PRO Mini Series** Specifications - Model FKE036CB3-01



	Design											
	Design		External Static Pressure			Rated	Rated	Maximum	Electrical		Specific Fan	
Unit Model	Air	Flow	Design Available Max ESP*		Fans	Current	Power	Temperature	Frequency	Phase	Power**	
	m³/s	m³/hr	Pa	Pa		Amps	kW	°C	Hz	Filase	kW/m³/s	
FKE036CB3-01	3.6	12960	250	360	2 x Ø450	9.6	5.8	40	50/60	Three	1.23	
* - Max available ESP given in-case of unusual site requirements only ** - @Mean filter condition and Design External Static Pressure												

Di	mensi	ional C	Data		No	oise Dat	:a***	Dwell Time		
Dimensions Unit Model		IS	Estimated Weight <sup>**</sup>	Casing Bro Clean	Casing Breakout @ 1m f		Seconds			
	W (mm) D (n		H (mm)	kg	d(B)A	d(B)A	d(B)A			
FKE036CB3-01	2800	750	2205	1069	52	52	53	0.1		
+ - Excluding contro ++ - This weight doe			ght of op	tional extras	+++ - Noise o	data based o	n Design ESP			

	Inlet / Outlet Sound Power Level <sup>×</sup>											
Unit Model	Octave bands (Hz)	63	125	250	500	1000	2000	4000	8000			
	Inlet	77	70	76	70	62	56	46	43			
FREUSOCDS-UI	FKE036CB3-01         Outlet         84         81         87         84         84         79         74         71											
<sup>x</sup> - Sound power levels based on design external static pressure and mean filter condition (Not Weighted)												



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- Maximum available pressure given in-case of unusual site 3. requirements only
- 4. The unit construction has undergone a 2 hour observation Fire Resistance Test-utilising the general principles of BS476 Part 20:1987 (Warrington Fire Report 429782 available on request).

#### Filtration

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Stage 1 - Stainless Steel Mesh Pre-Filter Stage 2 - High Capacity Pleated Panel Filter Stage 3 - Carbon Rigid Compact Filter Stage 4 - Activated Carbon Filter

REMOVES

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	Smoke	Od

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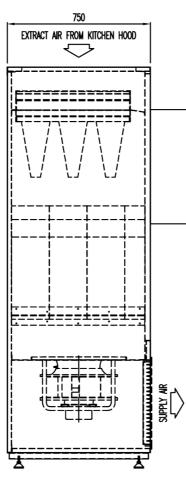


### **FKE PRO Series**

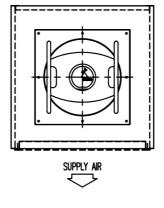
### Unit - Models FKE005CB1-02 & FKE005CB3-02

## 750 EXTRACT AIR FROM KITCHEN HOOD $\bigtriangledown$ 0 **F**===== s/o 2025 0 0 AV **V**A 8 FRONT ELEVATION

PLAN VIEW



END ELEVATION



**VIEW A-A** 

## **FKE PRO Series Specifications -** Models FKE005CB1-02 & FKE005CB3-02

Construe			
	Design Air Flow	Air Flow	Unit Model
	m³/s		
Stage 1 - Sta Stage 2 - High	0.5	*	FKE005CB1-02
Stage 3 - Ca Stage 4 -	0.5	*	FKE005CB3-02

Design												
	Des	Design Externa		xternal Static Pressure		Rated		Maximum	Electrical		Specific Fan	
Unit Model	Air Flow		Design	Available Max ESP*	Fans	Current	Power	Temperature	Frequency	Phase	Power**	
	m³/s	m³/hr	Pa	Pa		Amps	kW	°C	Hz	Flidse	kW/m³/s	
FKE005CB1-02	0.5	1800	250	525	Ø310	6.6	1.3	45	50/60	Single	1.30	
FKE005CB3-02	0.5	1800	250	945	Ø355	4	2.5	50	50/60	Three	1.31	
* - Max available ESP given in-case of unusual site requirements only ** - @Mean filter condition and Design External Static Pressure												

D	imens	ional [	Data		No	oise Dat	:a***	Dwell Time			
				Estimated	Casing Br	eakout @ 1	m free field				
Unit Model	Dimensions		Weight**		Clean	Mean	Dirty	Seconds		0.4s Dwell	
	W (mm)	D (mm) <sup>+</sup>	H (mm)	kg	d(B)A	d(B)A	d(B)A		Time	Time	
FKE005CB1-02	750	750	2105	350	42	45	48	0.2	Reduce the airflow to 75% of the	Reduce the airflow to 50% of the	
FKE005CB3-02	750	750	2105	354	43	47	51	0.2	design airflow	design airflow	
<ul> <li>+ - Excluding control panel depth</li> <li>+ - This weight does not include the weight of optional extras</li> </ul>					+++ - Noise	data based c	n Design ESP				

	Inlet / Outlet Sound Power Level <sup>×</sup>											
Unit Model	Octave bands (Hz)	63	125	250	500	1000	2000	4000	8000			
FKE005CB1-02	Inlet	71	64	65	61	54	50	40	33			
FREUUSCBI-UZ	Outlet	77	76	78	74	74	73	68	64			
FKE005CB3-02	Inlet	71	69	66	61	53	48	39	32			
FREUUSCBS-UZ	Outlet	80	80	79	75	76	72	67	62			
* - Sound power	* - Sound power levels based on design external static pressure and mean filter condition (Not Weighted)											



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### Notes:

- 1. Allow 800mm clear service access in front of each door
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The unit construction has undergone a 2 hour observation Fire Resistance Test-utilising the general principles of BS476 Part20:1987 (Warrington Fire Report 429782 available on request)

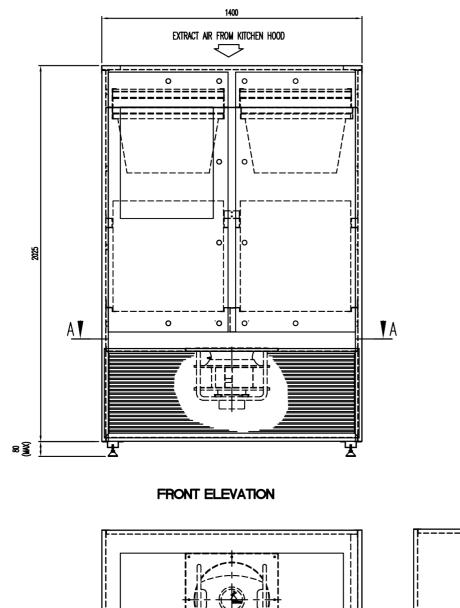
ainless Steel Mesh Pre-Filter n Capacity Pleated Panel Filter arbon Rigid Compact Filter - Activated Carbon Filter



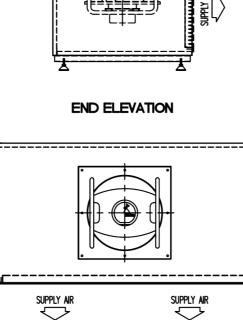


### **FKE PRO Series** Unit - Model FKE009CB3-02

## **FKE PRO Series** Specifications - Model FKE009CB3-02



PLAN VIEW



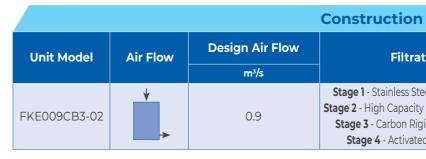
**VIEW A-A** 

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EXTRACT AIR FROM KITCHEN HOOD

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	Design										
	Design Air Flow		<b>External Static Pressure</b>			Rated		Maximum	Electrical		Specific Fan
Unit Model			Design	Available Max ESP*	Fans	s Current	Power	Temperature	Frequency	Phase	Power**
	m³/s	m³/hr	Pa	Pa		Amps	kW	°C	Hz	Fliase	kW/m³/s
FKE009CB3-02	0.9	3240	250	875	Ø355	4	2.5	50	50/60	Three	1.11
* - Max available ESP given in-case of unusual site requirements only ** - @Mean filter condition and Design External Static Pressure											

Dir	nensi	onal E	Data		No	oise Dat	:a***	Dwell Time			
				Estimated	Casing Br	eakout @ 1	m free field				
Unit Model			mensions Weigh		Clean Mear		Dirty	Seconds		0.4s Dwell	
	W (mm)	D (mm)⁺	H (mm)	kg	d(B)A	d(B)A	d(B)A		Time	Time	
FKE009CB3-02	1400	750	2105	565	39	41	44	0.2	Reduce the airflow to 75% of the design airflow	Reduce the airflow to 50% of the design airflow	
+ - Excluding control ++ - This weight does			aht of on	tional extras	+++ - Noise data based on Design ESP						

	Inlet / Outlet Sound Power Level <sup>×</sup>											
Unit Model	Octave bands (Hz)	63	125	250	500	1000	2000	4000	8000			
	Inlet	57	55	65	59	52	49	40	36			
FKE009CB3-02         Outlet         67         67         76         73         75         73         69         65												
<sup>x</sup> - Sound power levels based on design external static pressure and mean filter condition (Not Weighted)												



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### Notes:

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#### Filtration

The unit construction has undergone a 2 hour observation Fire Resistance Test-utilising the general principles of BS476 Part20:1987 (Warrington Fire Report 429782 available on request)

Stage 1 - Stainless Steel Mesh Pre-Filter Stage 2 - High Capacity Pleated Panel Filter Stage 3 - Carbon Rigid Compact Filter Stage 4 - Activated Carbon Filter

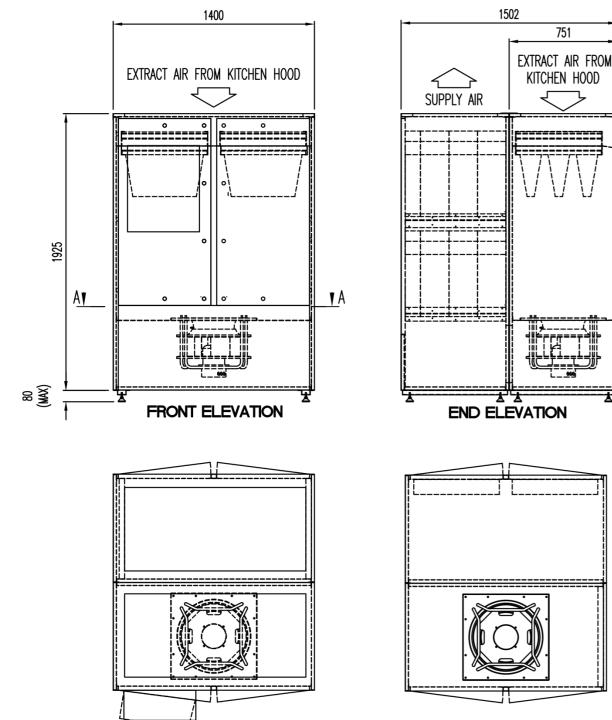




### **FKE PRO Series** Unit - Model FKE018CB3-02

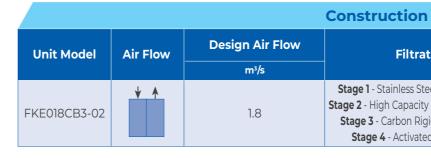
## **FKE PRO Series**

Specifications - Model FKE018CB3-02



PLAN VIEW

**VIEW A-A** 



	Design										
	Des	Design External Sta		tic Pressure		Rated	Rated	Maximum	Electrical		Specific Fan
Unit Model	Air Flow		Design	Available Max ESP*	Fans	Current	Power	Temperature	Frequency	Phase	Power**
	m³/s	m³/hr	Pa	Pa		Amps	kW	°C	Hz	Fliase	kW/m³/s
FKE018CB3-02	1.8	6480	250	790	Ø450	8.4	5.2	40	50/60	Three	1.56
* - Max available ESP given in-case of unusual site requirements only ** - @Mean filter condition and Design External Static Pressure											

Dir	nensi	onal E	Data		No	oise Dat	:a***		Dwell Tir	ne
		•		Estimated	Casing Br	eakout @ 1	m free field			
Unit Model	וס	mensio	ns	Weight**	Clean	Mean	Dirty	Seconds		0.4s Dwell
	W (mm)	D (mm) <sup>+</sup>	H (mm)	kg	d(B)A	d(B)A	d(B)A		Time	Time
FKE018CB3-02	1400	1502	2005	1014	49	51	52	0.2	Reduce the airflow to 75% of the design airflow	Reduce the airflow to 50% of the design airflow
+ - Excluding control p ++ - This weight does r			ht of opti	onal extras	+++ - Noise o	data based o	n Design ESP			

		li	nlet / Out	tlet Soun	d Power	Level×			
Unit Model	Octave bands (Hz)	63	125	250	500	1000	2000	4000	8000
FKE018CB3-02	Inlet	67	67	76	71	66	61	53	51
FREUIOCB3-02	Outlet	71	71	80	74	74	69	60	53
* - Sound power	levels based on des	ign external s	tatic pressure a	nd mean filter c	ondition (Not W	/eighted)			



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#### Filtration

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Stage 1 - Stainless Steel Mesh Pre-Filter Stage 2 - High Capacity Pleated Panel Filter Stage 3 - Carbon Rigid Compact Filter Stage 4 - Activated Carbon Filter



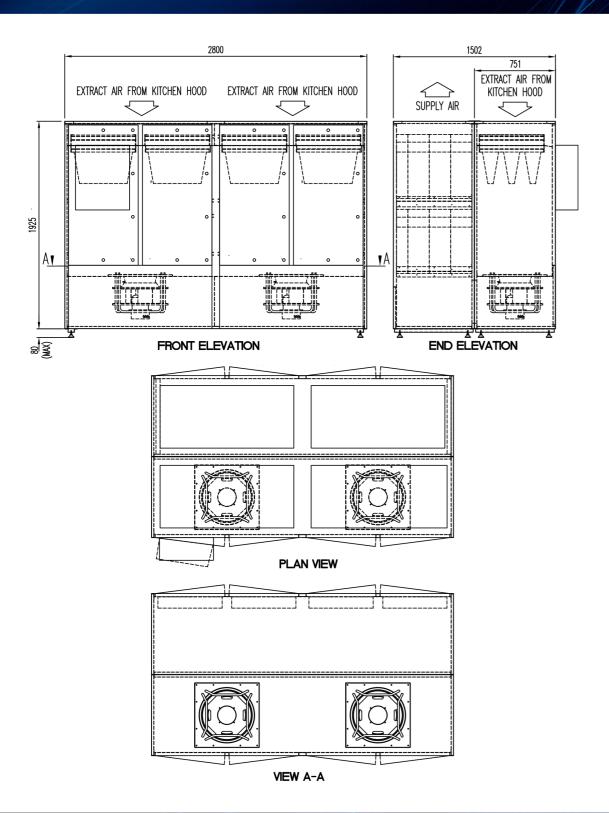
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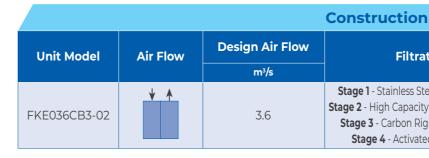


### **FKE PRO Series**

### Unit - Model FKE036CB3-02

## **FKE PRO Series** Specifications - Model FKE036CB3-02





					Des	ign					
	Des	sign	External Sta	tic Pressure		Rated	Rated	Maximum	Electi		Specific Fan
Unit Model		-low	Design	Available Max ESP*	Fans	Current	Power	Temperature	Frequency	Phase	Power**
	m³/s	m³/hr	Pa	Pa		Amps	kW	°C	Hz	Pliase	kW/m³/s
FKE036CB3-02	3.6	12960	250	790	2 x Ø450	16.8	10.4	40	50/60	Three	1.56
* - Max available ES	P given	in-case (	of unusual site re	quirements onl	y ** - (	@Mean filte	r condition	and Design Extern	al Static Pre	ssure	

Di	mensi	onal [	Data		Noise Data***				<b>Dwell Tir</b>	ne
				Estimated	Casing Br	eakout @ 1	m free field			
Unit Model	וס	mensio	ns	Weight**	Clean	Mean	Dirty	Seconds		0.4s Dwell
	W (mm)	D (mm) <sup>+</sup>	H (mm)	kg	d(B)A	d(B)A	d(B)A		Time	Time
FKE036CB3-02	2800	1502	2005	1831	52	54	55	0.2	Reduce the airflow to 75% of the design airflow	Reduce the airflow to 50% of the design airflow
+ - Excluding contro			iaht of op	tional extras	+++ - Noise	data based o	n Design ESP			

		l.	nlet / Out	tlet Soun	d Power	Level×			
Unit Model	Octave bands (Hz)	63	125	250	500	1000	2000	4000	8000
	Inlet	70	70	79	74	69	64	56	54
FKE036CB3-02	Outlet	74	74	83	77	77	72	63	56
* - Sound powe	r levels based on des	ign external s	tatic pressure a	nd mean filter c	ondition (Not W	/eighted)			



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Filtration		
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Stage 1 - Stainless Steel Mesh Pre-Filter Stage 2 - High Capacity Pleated Panel Filter Stage 3 - Carbon Rigid Compact Filter Stage 4 - Activated Carbon Filter







### The Complete Solution

Weatherite Air Conditioning provide the complete service- from initial discussions with the client through to survey, design, manufacture, installation and commissioning. And, to ensure the client is fully supported we provide full 24-hour support services.

### Whether your requirement is for a brand new kitchen or part of a refurbishment project, we will ensure we deliver a service that is second to none.

With over 50 years' experience and expertise to match, Weatherite Air Conditioning has been designing and manufacturing a comprehensive range of air distribution products and is the UK's leading independent HVAC equipment manufacturer. Utilising the very latest production techniques and innovative technologies, Weatherite has delivered heating, ventilation and air conditioning solutions to many blue-chip, UK organisations.

We are experts in creating and delivering clean air environmental solutions and have years of first-hand experience and knowledge. Ensuring we deliver exactly the right solution, first time, is our number one priority and we value honesty, integrity, reliability and consistency in every action we take and every solution we deliver. Being aware that a kitchen, with poor ventilation can become uncomfortable for those working in the vicinity, as well as a possible health and safety hazard drives our philosophy of delivering consistent, reliable, high quality, integrated solutions.





## A complete self-contained kitchen ventilation system with a difference

Weatherite Air Conditioning will deliver the very best solution on time, within budget and incorporating the very latest extract technologies - and we will be there to support our solution 24/7/365.





### **Contact Details:**

For further information please contact the sales team on: **+44 (0)121 665 2266** or email: **sales@weatheritegroup.com** or visit the website: **www.weatheriteac.com** 











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