iCONstant

ENERGY EFFICIENT CONTINUOUS VENTILATION





IMPROVE YOUR INDOOR AIR QUALITY

Air pollution isn't limited to busy cities, as although new British homes are incredibly well built and provide excellent insulation, they are virtually airtight. This airtightness has led to indoor air being up to 50% more polluted than outdoor air.

The following tips can help you combat the issues of indoor air pollution and improve the indoor air quality in your home:



TAKE YOUR SHOES OFF AT THE DOOR.

Believe it or not, this simple act prevents dirt and dust amongst other things being trailed around the house. General living means that the dirt can easily turn into airborne pollutants which can exacerbate allergies and even cause respiratory problems.



USING WOOD/TILE FLOORING WHERE POSSIBLE.

Wood and tile floors are easier to clean than carpets and unlike carpets, don't trap dirt and hair which can trigger allergies and cause respiratory problems. Carpets are also the perfect environment for collecting dust mites. Over 50% of asthmatics are sensitive to house dust mites. Using wood floor will significantly reduce the risk of dust mites building up.



MINIMISE CONDENSATION IN YOUR BATHROOM OR KITCHEN.

Everyone likes a steamy bath or a hot shower, however this causes a lot of excess moisture to develop in the room. If this moisture isn't controlled and swiftly removed from the room, it can lead to mould developing in the area. This will affect your health as the spores can trigger allergies and will also affect the health of the property.



VENTILATE EFFECTIVELY.

There is a wide range of options available to you which ensures that excess moisture and pollutants are swiftly removed from your property (and in some cases prevented from entering). By ensuring your wet rooms (kitchens, bathrooms and toilets etc.) are properly ventilated, you ensure that excess moisture isn't given the opportunity to develop into mould and damp which can negatively impact both the health of the fabric of the building and the health of you and your family.

EXTRACT & REPLACE

The air in your home comes in from outside through trickle vents in the windows, air bricks, leaky flooring, loft hatches and all the cracks and holes in the fabric of the building.

Once inside air circulates around the dwelling collecting pollutants on the way through open doors or through the gap under the door when they are shut. It is worth noting that a 10mm gap above the finished floor covering is required by the latest Building Regulations.

This polluted air is then removed from the toilet, bathroom, en-suite, utility room or kitchen by an extractor fan.

For effective extraction to take place it is important that, even in a well sealed dwelling, there is sufficient air coming in to replace the air lost through extraction.



Introducing the iCONstant range of continuous running extract fans available for any wet room in the home. The range utilises the very latest motor technology and incorporates advanced features to produce an energy efficient fan that helps to eliminate the problems of condensation by continuously extracting the damp air at the source.

The iCONstant operates at the optimum level whatever the circumstances of the installation. This is perfect for the new build and RMI sectors, where specifiers, landlords and tenants all seek a ventilation solution that is energy efficient, economical to run, and quiet to operate.

iCONstant T iCONstant HT iCONstant flex T iCONstant flex HT

iCONstant®

Recognised on SAP PCDB



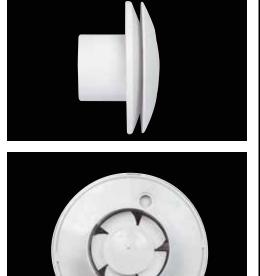


Recognised on SAP PCDB and SAP 10.2 compliant



Standard Assessment Procedure (SAP) Product Characteristics Database (PCDB)







DIFFERENT TYPES OF VENTILATION CONTROL

Both the iCONstant and iCONstant flex models offer continuous ventilation with a choice of two versions to meet different user needs.



RUN ON TIMER CONTROL T

The run on timer control means that the fan will continue to run in boost for a pre-set length of time. The run-on timer function can be adjusted by the user and can be setup from 2 to 45 minutes. It is designed to ensure that excess moisture created whilst the room is in use is removed.



HUMIDIY TIMER CONTROL HT

Using iCONstant with a humidity timer function means that the fan will remain in boost until the humidity is below the pre-set levels to ensure that excess moisture is removed from the room.

THE ENERGY EFFICIENT CONTINUOUS EXTRACTOR FAN RANGE

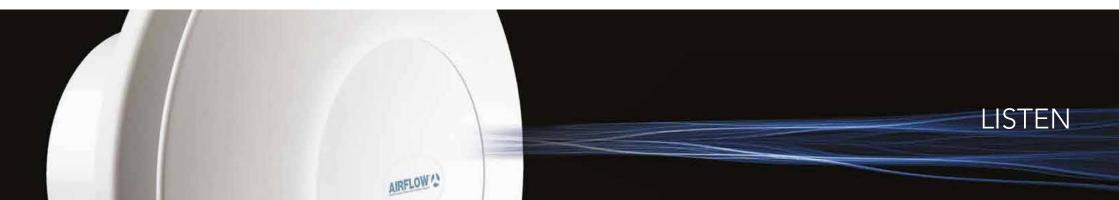
The iCONstant range offers superior continuous ventilation performance, energy efficiency and low noise levels. Designed by Airflow, the stylish round façade is echoed from the extremely successful iCON range of intermittent extractor fans, setting it apart from anything else on the market.

iCONstant

iCONstant continuous running extract fans are suitable for any wet room in the home and help to eliminate the problems of condensation and mould growth by continuously extracting the damp, moist air. Ideal for refurbishments, the iCONstant is energy efficient, economical to run and quiet to operate.

iCONstant flex

iCONstant flex continuous running extract fans are suitable for any wet room in the home and provide the perfect solution for both new builds and refurbishments. Developed to consume minimal energy, the iCONstant flex range utilises the latest motor technology and incorporates advanced features to eliminate the need for user intervention.





ZONES FOR EXTRACTOR FANS

Regulations specify the installation requirement of fans in wet rooms. The zonal considerations for these environments are outlined below.

70NF 0

The area inside of the bath or a shower tray that can physically hold or contain water which prohibits any fan from being installed.

70NF 1

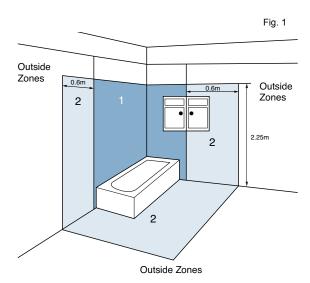
The area directly above the zone 0, limited to a height of 2.25m from the finished floor level. IPX4 fans can be installed in zone 1 if the shower head is fixed and cannot be rotated towards the fan. Otherwise, IPX5 is required.

ZONE 2

10

This is the zone beyond zones 0 and 1, continuing 0.6m horizontally and up to 2.25m vertically. IPX4 or higher protection is required.

We recommend that all fan installations must be carried out by a fully qualified and registered electrician.

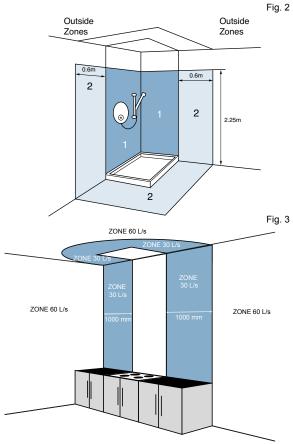


WHAT IS AN IP RATING?

IP stands for ingress protection and consists of two digits measuring how well a product is protected from both solid objects and liquids. The first digit tells us how well the product is protected from solid objects and the second one is about resistance to water.

A product with a rating of IPX5 can resist sustained, low-pressure water jet sprays from any direction. The testing lasts for 15mins, and the volume of water is 12.5 l/min. The iCONstant range is IPX5 rated meaning it can be fitted anywhere in Zones 1 and 2.*

*Wired in accordance with IEEE wiring regulations 18th edition



Note: Air flow rates applicable to England, Wales and Northern Ireland

A cooker hood extracting directly to outside is the preferred method of kitchen ventilation. When using iCONstant fans on their own or in conjunction with a recirculating cooker hood, Airflow recommends they are positioned a reasonable distance away from the hob as shown in Fig 3. This is to cut down on grease emitted from the hob that can build up in the fan and the duct system.





WHY dMEV?

dMEV systems provide continuous ventilation, ensuring consistent removal of moisture, odors, and indoor pollutants. This helps maintain a healthier indoor environment, all year round.

Operating automatically, without the need for manual intervention, iCONstant continuous running fans don't rely on occupants to switch them on or off. Its the perfect solution for the social housing sector where specifiers, landlords and tenants all seek a ventilation solution that is energy efficient, economical to run and quiet to operate.

ECONOMICAL OPERATION

iCONstant has been developed to consume minimal energy using a highly efficient 24 V DC motor. The motor draws a mere 1.21 watts on the lowest trickle speed of 6 l/s. The boost speed on the humidity version is intelligently controlled to minimise the period of the boost flow and not significantly ramp up running costs. The iCONstant is extremely economical to run, costing less than a low energy light bulb over a year, making it a perfect solution for a variety of properties.

SIMPLE CONTROLS

On the timer version, the boost speed can be set to run on for between 2 and 45 minutes. With the humidity timer version, the intelligent humidity sensor will activate the boost speed when the set point is reached – this can be adjusted anywhere between 60% and 90%. When the humidity level falls below the set-point again, the fan will revert to its set trickle speed. Boost speed can be manually activated by the integral pull cord or by an optional remote switch.

WHICH FAN WHERE?

SELECTION GUIDE

	Toilet	En-Suite / Bathroom	Utility Room	Kitchen
FAN TYPE		•••	Image: Control of the	
iCONstant	•	Zones 1 or 2	•	•
iCONstant flex	•	Zones 1 or 2	•	•

Guidance only: Install fans in accordance with IEE wiring regulations 18th edition (BS7671:2018)

UNIQUE LED SET UP DIAGNOSTICS



Cover removed showing LED self diagnostics and optional functionality buttons of flow rates fine tuning. This function can be very useful during commissioning.

Adjust and perfect your iCONstant air flow in a few simple steps using the unique LED set-up:

Adjust Air flow: Press the top button to increase, and the bottom button to decrease.

The LED will flash once per press.

Save Settings: Hold both buttons for 5 seconds.

The LED flashes for 2 seconds to confirm.

Secure the Cover: Attach the cover with 2 screws. If the LED stays on, inspect for obstructions.

Finalise: Twist the front cover clockwise to secure.

Enjoy a smooth, efficient operation with our easy-to-configure LED set-up diagnostics system.

CONSTANT AIR FLOW







iCONstant, 24/7, 365.

DIP SWITCHES

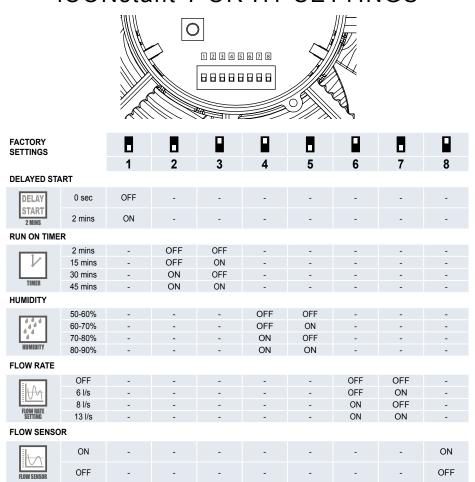
WHAT IS A DIP SWITCH?

Dip Switch Factory Setting

A series of tiny switches built into the circuit board that enables you to configure your iCONstant or iCONstant flex extractor fan with the available features and functions, such as delay start, run on timer, room

refresh, and the humidity timer. DIP switches are always toggle switches, which means they have two possible positions, on or off. The tables below explain the dip switches control.

iCONstant T OR HT SETTINGS



Delayed Start (0 sec – 2 mins)

Delay start ensures that iCONstant does not initiate boost when the person uses the room for a short period of time, and it will boost after the adjusted delay time, avoiding unnecessary power consumption and increasing energy efficiency. This setting is controlled by dip switch 1 shown on the table on the left.

Factory setting 2 min.

Humidity (HT models only)

The humidity sensor can be set to activate the boost speed when the set point is reached – this can be adjusted anywhere between 60% and 90%. When the humidity level falls below the set-point again, the fan will revert to its set trickle speed.

Setting the humidity sensors activation point is controlled by dip

switches 4 and 5. A combination of the humidity sensor options are shown on the table on the left **(HUMIDITY)**

Factory setting 70 - 80%.

Flow Sensor

The iCONstant flex includes an integrated flow sensor to ensure the fan constantly maintains its set extract rate under all conditions, without the need for user intervention

The Flow Sensor can be turned ON or OFF by adjusting dip switch 9 shown on the table on the left. (FLOW SENSOR)

Factory setting ON.

Run on Timer (2 mins, 15 mins, 30 mins and 45 min)

Once you have left the room the fan will continue to boost for a pre-set

length of time. You can set the timer setting on how long you want the fan to continue boosting at the higher rate before it automatically reverts to its set trickle speed.

Setting the timer is controlled by dip switches 2 and 3. A combination of the timer options are shown on the table on the left (**RUN ON TIMER**)

Factory setting 15 minutes.

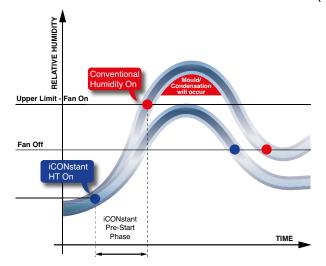
Flow Rate

The iCONstant offers a selection of three trickle speeds between 6 l/s to 13 l/s

Setting the flow rate is controlled by dip switches 6 and 7. A combination flow rate options are shown on the table on the left (FLOW RATE)

Factory setting 8 l/s.

INTELLIGENT HUMIDITY (HT models only)

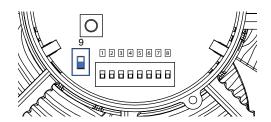


Airflow's intelligent humidity sensor offers an additional feature of being able to recognise a rapid increase in humidity and activates the boost speed before the pre-set values are reached, so that preventative ventilation commences.

Should this occur, the fan switches off when the humidity level is within 10% of the set point.

Energy consumption is kept to a minimum and noise levels are reduced whilst ensuring optimum ventilation without the need for user intervention.

iCONstant flex T OR HT SETTINGS



FACTORY SETTINGS		8	8			8		8		8
		1	2	3	4	5	6	7	8	9
DELAYED	START									
DELAY	0 sec	OFF	-	-	-	-	-	-	-	-
START 2 MINS	2 mins	ON	-	-	-	-	-	-	-	-
RUN ON T	IMER									
	2 mins	-	OFF	OFF	-	-	-	-	-	-
	15 mins	-	OFF	ON	-	-	-	-	-	-
	30 mins	-	ON	OFF	-	-	-	-	-	-
TIMER	45 mins	-	ON	ON	-	-	-	-	-	-
HUMIDITY										
	50-60%	-	-	-	OFF	OFF	-	-	-	-
	60-70%	-	-	-	OFF	ON	-	-	-	-
HUMIDITY	70-80%	-	-	-	ON	OFF	-	-	-	-
HUMIDITY	80-90%	-	-	-	ON	ON	-	-	-	-
FLOW RA	ΓΕ									
	OFF	-	-	-	-	-	OFF	OFF	OFF	-
	6 l/s	-	-	-	-	-	OFF	ON	OFF	-
1AA	8 l/s	-	-	-	-	-	ON	OFF	OFF	-
FLOW RATE	11 l/s	-	-	-	-	-	ON	ON	OFF	-
SETTING	13 l/s	-	-	-	-	-	OFF	ON	ON	-
	16 l/s	-	-	-	-	-	ON	OFF	ON	-
FLOW SE	ISOR									
	ON	-	-	-	-	-	-	-	-	ON
FLOW SENSOR	OFF	-	-	-	-	-	-	-	-	OFF

Dip Switch Factory Setting

Delayed Start (0 sec – 2 mins)

Delay start ensures that iCONstant flex does not initiate boost when the person uses the room for a short period of time, and it will boost after the adjusted delay time, avoiding unnecessary power consumption and increasing energy efficiency. This setting is controlled by dip switch 1 shown on the table on the left.

Factory setting 2 min.

Humidity (HT models only)

The humidity sensor can be set to activate the boost speed when the set point is reached – this can be adjusted anywhere between 60%

and 90%. When the humidity level falls below the set-point again, the fan will revert to its set trickle speed.

Setting the humidity sensors activation point is controlled by dip switches 4 and 5. A combination of the humidity sensor options are shown on the table on the left **(HUMIDITY)**

Factory setting 70 - 80%.

Run on Timer (2 mins, 15 mins, 30 mins and 45 min)

Once you have left the room the fan will continue to boost for a pre-set length of time. You can set the timer setting on how long you want the fan to continue boosting at the higher rate before it automatically reverts to

its set trickle speed.

Setting the timer is controlled by dip switches 2 and 3. A combination of the timer options are shown on the table on the left (RUN ON TIMER)

Factory setting 15 minutes.

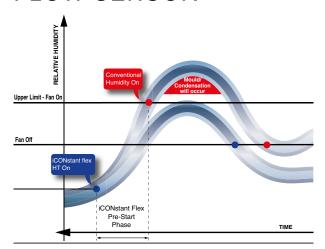
Flow Rate

The iCONstant flex offers a selection of five trickle speeds between 6 l/s to 16 l/s.

Setting the flow rate is controlled by dip switches 6, 7, and 8. A combination flow rate options are shown on the table on the left (FLOW RATE)

Factory setting 8 l/s.

FLOW SENSOR



Flow Sensor

The iCONstant flex includes an integrated flow sensor to ensure the fan constantly maintains its set extract rate under all conditions, without the need for user intervention

The Flow Sensor can be turned ON or OFF by adjusting dip switch 9 shown on the table on the left. (FLOW SENSOR)

Factory setting ON.



iCONstant

iCONstant helps eliminate the problems of condensation and mould growth by continuously extracting the damp, moist air at the source. This makes it the ideal solution for retrofit and RMI applications.









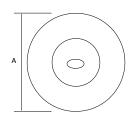


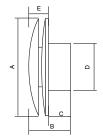
FEATURES

- Continuous running axial fan
- Selectable trickle speeds 6 / 8 / 13 l/s
- Boost speed 8 / 13 l/s with maximum of 22 l/s
- Boost speed can be activated by the integral pull cord (which can be stowed away) or by an optional remote switch
- Unique setup diagnostic LED light
- · Power interruption, settings maintained
- Very quiet running fan from 10 dB(A)
- 24V DC Motor economical to operate from 1.21 watts on trickle speed of 6 l/s
- Costs less than a low energy light bulb to run
- The timer overrun on boost speed can be set to run on for 2, 15, 30 or 45 minutes
- Optional two minute delay start on timer version
- Flow sensor ensures the fan maintains a constant extraction rate under all conditions
- IPX5 rating install in Zone 1 and 2
- Ideal for refurbishments

- Complies with Building Regulations when installed correctly
- Recognised on the SAP PCDB
- Stylish circular design suitable for wall and ceiling mounting
- 3 year warranty

DIMENSIONS



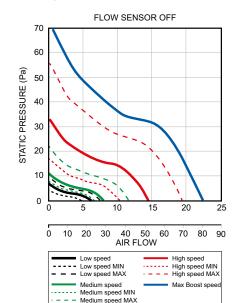


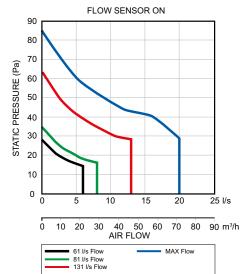
Model	Α	В	С	D	E
iCONstant	197	120	70	100	50

TECHNICAL DATA

Specification		iCONsta	int		
Air flow m³/h (trickle/boost)	22 / 29	29 / 47	7	47 / 79	
Air flow I/s (trickle/boost)	6/8	8 / 13	1	13 / 22	
Fan type	Axial				
Controls	Timer or Humidity & Timer				
Sound pressure dB(A)@3 m	12.2 / 17.3	17.3 / 28	3.4	28.4 / 37.8	
Power watts	1.21 / 1.61	1.61 / 1.	.81	1.81 / 3.31	
Amps	3				
Calculated Specific Fan Power (SFP)	0.18 / 0.15	0.15 / 0.	.13	0.13 / 0.14	
Building Regulations ADF	Yes				
Duct diameter (mm)	100				
Voltage		100/240 V - 5	0/60 Hz		
Rating (wall and ceiling)		IPX5			
Weight (kg)		0.55			
Dimensions (H x W x D) mm		197 x 197 >	c 120		
Part No.	7268	7117 (T) 7	2687118 (HT)		
EAN	501900	9318288 5	5019009318295	i	

PERFORMANCE







iCONstant flex

iCONstant flex range is SAP PCDB recognised and 10.2 compliant making it the perfect solution for new build properties and retrofit applications. One of its unique features is its five selectable trickle speeds that can be manually adjusted, dependent on the application.









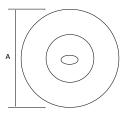


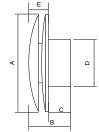
FEATURES

- Continuous running axial fan
- Selectable trickle speeds 6 / 8 / 11 / 13 / 16 l/s that can be manually adjusted
- Boost speeds 8 / 11 / 13 / 16 I/s with maximum of 20 I/s
- Boost speed can be activated by the integral pull cord (which can be stowed away) or by an optional remote switch
- Unique setup diagnostic LED light
- · Power interruption, settings maintained
- Very quiet running fan from 15.4 dB(A)
- 24V DC Motor economical to operate from 1.26 watts on trickle speed of 6 l/s
- Costs less than a low energy light bulb to run
- The timer overrun on boost speed can be set to run on for 2, 15, 30 or 45 minutes
- Optional two minute delay start on timer version
- Flow sensor ensures the fan maintains a constant extraction rate under all conditions
- IPX5 rating install in Zone 1 and 2

- Ideal for new build and refurbishments
- Complies with Building Regulations when installed correctly
- Recognised on the SAP PCDB and 10.2 compliant
- Stylish circular design suitable for wall and ceiling mounting
- · Other versions available Humidity Timer
- 3-year warranty

DIMENSIONS



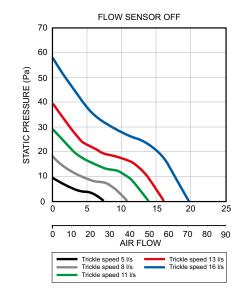


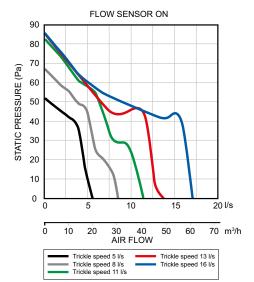
Model	Α	В	С	D	Е
iCONstant	197	120	70	100	50

TECHNICAL DATA

Specification			iCONstant fle	C			
Air flow m³/h (trickle/boost)	18 / 29	29 / 40	40 / 47	47 / 58	58 / 72		
Air flow I/s (trickle/boost)	5/8	8 / 11	11 / 13	13 / 16	16 / 20		
Fan type	Axial						
Controls	Timer or Humidity & Timer						
Sound pressure dB(A)@3 m	15.4 / 21.6	21.6 / 26.8	26.8 / 31.0	31.0 / 32.6	32.6 / 39.9		
Power watts	1.26 / 1.51	1.51 / 1.79	1.79 / 1.96	1.96 / 2.54	2.54 / 4.42		
Amps	0.014/0.015	0.015 / 0.018	0.018 / 0.019	0.019/0.027	0.027 / 0.037		
Calculated Specific Fan Power (SFP)	0.25 / 0.19	0.19/0.16	0.16 / 0.15	0.15 / 0.16	0.16 / 0.22		
Building Regulations ADF	Yes						
Duct diameter (mm)		100					
Voltage		1	00/240 V - 50/60	Hz			
Rating (wall and ceiling)			IPX5				
Weight (kg)			0.55				
Dimensions (H x W x D) mm			197 x 197 x 120)			
Part No.		726871	19 (T) 72687	′120 (HT)			
EAN		5019009332055 5019009332062					

PERFORMANCE





SAP PERFORMANCE FOR ICONSTANT

iCONstant

iCONstant flex

Unit configuration	Location	Flow rate	Specification fan power (W/I/s)	Unit configuration	Location	Flow rate	Specification fan power (W/I/s)
In room (rigid duct)	Kitchen	13 l/s	0.18	In room	Kitchen	13 l/s	0.19
	Wet room	8 l/s	0.19	0.5 m			
In room (flexible duct) 0.5m 2.0m R=D	Kitchen	13 l/s	0.20	R=D R=D	Wet room	8 l/s	0.22
T RED	Wet room	8 l/s	0.19	Through wall	Kitchen	13 l/s	0.15
Through wall	Kitchen	13 l/s	0.15	_			
	Wet room	8 l/s	0.16		Wet room	8 l/s	0.19

source: BRF

ACCESSORIES

FOR USE WITH YOUR FAN

VENTING KITS



A range of connecting ducts and grilles to connect your Airflow fan to the outside. Various sizes and colours available.



	ition Tra	Į
Part No.		
51978301 ø100	mm ¶	
90001242 ø125	mm 🍍	
52364801 ø150	mm	

ACCESSORIES

FOR USE WITH YOUR FAN

VENTING KITS CONTINUED





STAINLESS STEEL EXTERNAL GRILLES



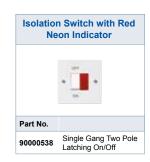
Outside stainless steel grilles for greater weather protection, suitable where a greater aesthetic appeal is necessary.



REMOTE SWITCHES







PINTEREST LINKEDIN YOUTUBE **INSTAGRAM FACEBOOK AIRFLOW TRENDING**

PRODUCT SUPPORT

FAN SELECTION SOFTWARE

SELECTAIR

airflowselectair.co.uk

Airflow's selection software, Selectair can be used to help make the right product choices, depending on the project. This can be accessed at airflow.com along with useful demonstration videos on how to use the software.

Selectair has been designed to make sure that the products selected will fulfill the requirements of your application. The software will provide a list of suitable products depending on the room, installation type and type of ducting if needed.



By automatically calculating the pressure drop values for your requirement, a choice of products are linked to ensure "installed performance" criteria is met. This gives the specifier the confidence to know that choosing a fan from the products offered will deliver the performance expected to meet the latest building regulations for effective ventilation.

TECHNICAL



We have a fully trained technical team in our UK head office and in the field, that can provide assistance and application advice on ventilation solutions.

CONTACT US



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Sales

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BIM

We also have product data in industry leading format for designers using BIM software, so that all information is available in one file.

Airflow's BIM models adhere to criteria required by the following BIM standards: IFC, COBie, RIBA, CIBSE

Airflow can provide bespoke information, not covered by these standards, such as ErP data and whether a product is Passivhaus approved.

Airflow's BIM models are compatible with Revit 2015 and newer. The models are available Revit 2015 as standard and will automatically upgrade to the user's version of Revit upon first use.

airflow.com/BIM



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