

iCONstant

Continuous Ventilation - suitable for any room



Key Features

- From 10dB(A) the quietest dMEV fan available
- Selectable trickle flow rates 22/29/47 m³/hr. Boost up to 72 m³/hr
- Just over £1.00 per year to run on trickle speed
- Constant volume - Guaranteed to deliver installed performance
- The only IPX5 dMEV fan rated for both wall and ceiling installs
- Timer and Humidity versions. Two minute delay start (boost) option
- Memory retained in event of a power cut
- LED self diagnostics and 'fine tune' commissioning option of flow rate
- Complies with Building Regulations
- SAP Appendix Q eligible
- 3 year warranty

iCONstant.

Based on our very successful iCON brand, we have developed the quietest dMEV fan available for toilet/bathroom and utility room installation bringing incredibly low sound levels to this market sector. The fan is perfect in the kitchen too. Utilizing the very latest motor technology and incorporating advanced features we have been able to produce an energy efficient fan that will help eliminate the problems of condensation by continuously extracting the damp air that is the source of the problem.

The iCONstant boasts features that reduce human intervention and ensure the fan is always operating at the optimum level whatever the circumstances of the installation. This is perfect 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.

iCONstant, the virtually silent, low energy dMEV fan from Airflow – packed with features – results guaranteed.



Models

Timer	On boost timer can be set to run on for 2, 15, 30 or 40 minutes
Humidity Timer	Intelligent humidity sensor adjustable between 60% and 90%. On boost, timer can be set to run on for 2, 15, 30 or 40 minutes

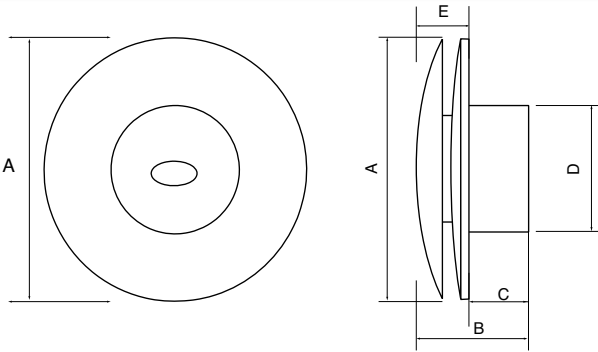
Technical Data

Specification	iCONstant		
Air flow m³/hr (trickle/boost)	22 / 29	29 / 47	47 / 72
Air flow l/sec (trickle/boost)	6 / 8	8 / 13	13 / 20
Fan type	Axial		
Controls	Timer/ Humidity Timer		
Sound pressure dB(A)@3m	10 / 15	15 / 28	28 / 38
Power watts	1.07 / 1.21	1.21 / 1.68	1.68 / 2.90
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	100/240V-50/60Hz		
Rating (wall and ceiling)	IPX5		
Weight (kg)	0.55		
Dimensions (H x W x D) mm	197 x 197 x 120		
Part No.	72687117 (T)	72687118 (HT)	



Cover removed showing LED self diagnostics and 'fine tuning' commissioning functionality

Dimensions (mm)



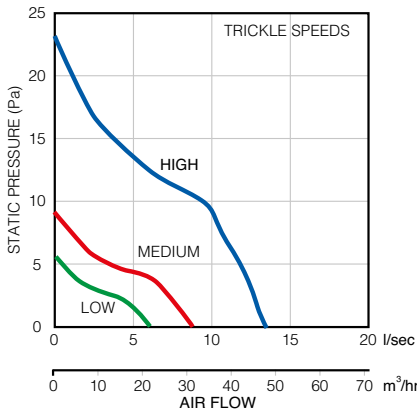
Model	A	B	C	D	E
iCONstant	197	120	70	100	50

SAP Appendix Q Performance

Unit configuration	Location	Fan speed setting	Specific fan power (W/l/s)
In room (rigid duct)	Kitchen	13 l/s	0.18
	Wet room	8 l/s	0.19
In room (flexible duct)	Kitchen	13 l/s	0.20
	Wet room	8 l/s	0.19
Through wall (rigid duct)	Kitchen	13 l/s	0.15
	Wet room	8 l/s	0.16

source: BRE

Performance



Controls and Accessories

A range of accessories including flexible and rigid ducting kits, controls, switches and grilles are available.

See accessories section from page 209 for more details.

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Why dMEV?

In the Building Regulations dMEV is often referred to as decentralised Mechanical Extract Ventilation. The Airflow iCONstant dMEV continuous ventilation fan will provide the perfect solution for both new build and retrofitting into any domestic home, particularly where there has been

an increased level of insulation making it more airtight or the homeowner/tenant has a particular problem with condensation or mould. The iCONstant with Timer or Humidity Timer functionality are also SAP Appendix Q eligible.

Economical to Operate – less than a light bulb

iCONstant has been developed to consume minimal energy using a highly efficient 24v DC motor. The motor draws a mere 1.07w on the lowest trickle speed of 6 l/sec. The boost speed on the humidity version is intelligently controlled so as to minimise the period of the boost flow and not significantly ramp up running costs. The yearly

running cost of the iCONstant is just over one Pound - operating at 6 l/sec. This is less than a low energy light bulb if left on 24/7 - a small price to pay to ensure the well-being of the occupier and help preserve the fabric of the building.

Versatile Applications – one fan for all rooms

iCONstant dMEV fans can be used in any of the wet rooms. The required trickle rate is selected by the installer when the fan is fitted – this is dependent on the application - for toilets select 6 l/sec, en-suites, bathrooms and utility rooms select 8 l/sec and for kitchens it is 13 l/sec. The boost speed will be the next

speed level up with a maximum speed of 20 l/sec. The boost to the higher speed is activated by one of the following methods; integral momentary pull cord, remote switch (optional) or intelligent humidity sensor. Should there be a power interruption in the property, the settings will be maintained.

Simple Controllability – optimizing your ventilation

On the timer version, the boost speed can be set to run on for between 2 and 40 minutes. With the Humidity Timer version, the intelligent humidity sensor will activate the boost speed when the set point is reached – this can

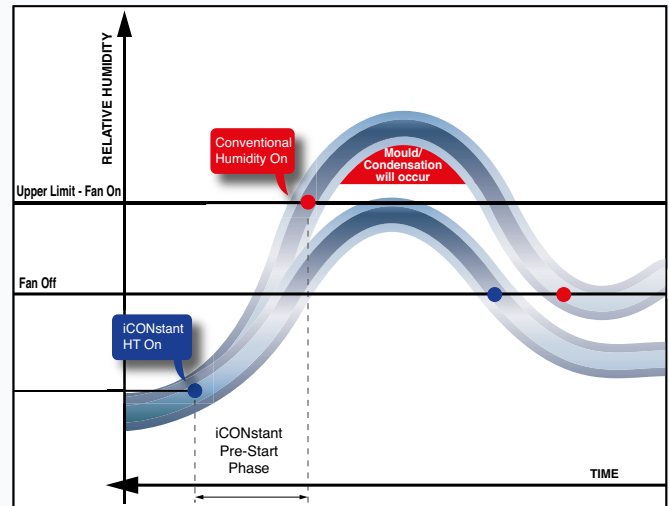
be adjusted anywhere between 60% and 90%. When the humidity level falls below the set-point again, the fan will revert to the trickle speed. Boost speed is activated by the integral pull cord or by a remote switch (optional).



Packed with useful features with the user in mind

Airflow's intelligent humidity sensor offers the additional feature of being able to recognize a rapid increase in humidity and activates the boost speed before the pre-set value is reached so that preventive ventilation commences. Should this occur, the fan reverts to the trickle speed when the humidity level is within 10% of the set-point. The benefits of this are that energy consumption is kept to a minimum and noise levels are reduced whilst ensuring optimum ventilation is achieved, before excessive condensation occurs.

Another feature is the ability to delay the start of the boost function by two minutes. This is particularly advantageous for those quick visits during the middle of the night. The boost activation by the pull cord and humidity sensor is instant.



Cutting Edge LED Setup

The iCOnstant is fitted with a unique setup diagnostic LED light. This self proving technology facilitates the set-up process and the storage of settings. Flow settings

are made by the simple adjustment of the DIP switches. Installers will find it easy to setup saving time and money.

Constant Volume Guaranteed

The iCOnstant is fitted with a flow sensor to continually monitor flow. Should conditions change, such as on a windy day, the fan will automatically adjust the flow rate

to the original settings thus ensuring constant extraction is maintained. All this with no human intervention – exactly what specifiers and landlords are looking for.

Ensuring Installed Performance

The everyday running rate can be adjusted if required, up to the maximum speed of the fan by simply pressing the +/- buttons. This 'fine tuning' is very useful during

commissioning to overcome system back pressure and ensure the installed performance for the installation is maintained.

User safety is our priority

As we have achieved IPX5 ingress protection rating on this product, you will be able to fit the iCOnstant anywhere within Zones 1 and 2* of your bathroom/ ensuite. This makes our product incredibly safe to operate which is another reason for housing associations and

landlords to specify iCOnstant, also it is easy for the installer to position the fan. Airflow is the only supplier to offer a dMEV product for both wall and ceiling installation with this IP rating.

* Wired in accordance with IEEE wiring regulations 17th edition

Another stylish design from Airflow

iCOnstant's circular design is based on our very successful iCON brand of extractor fans. Customers like our circular design as this enhances the style and appearance of the

room plus a round fan is simple and quicker to install. The iCOnstant is designed to be recessed into the wall / ceiling.

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