



iCONstant® flex

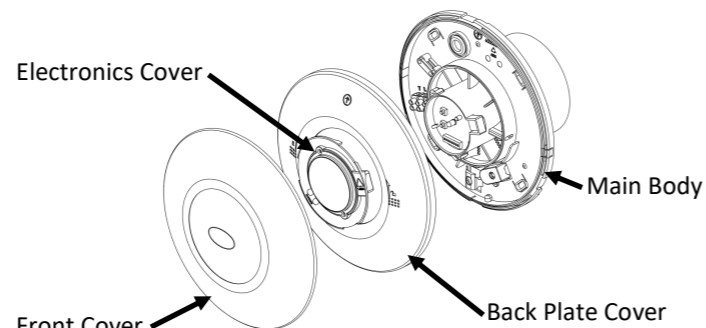
Continuous Ventilation
Installation and Operating Guide



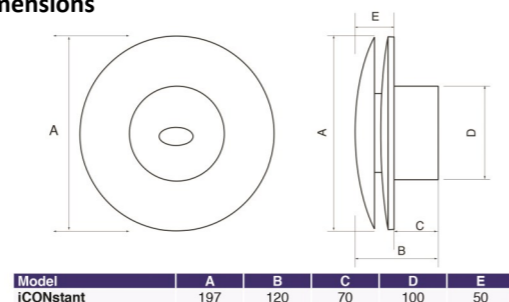
iCONstant flex T - 72687119
iCONstant flex HT - 72687120



Fan Overview



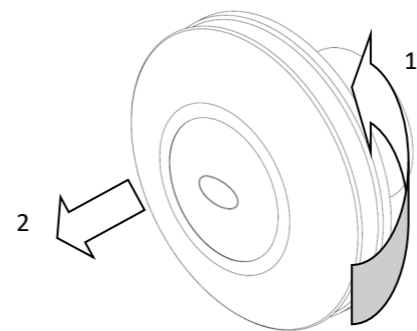
Fan Dimensions



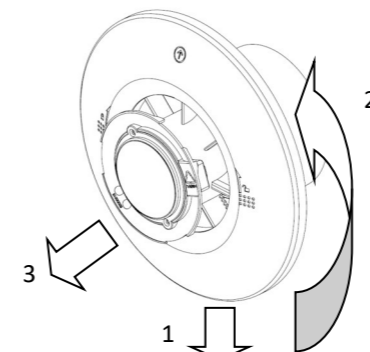
The iCONstant flex range consists of a timer and humidity/timer variant. It is designed for use in any wet room. Trickle flows rates of 5, 8, 11, 13 or 16 l/s can be activated on installation. Boost flow rates are selected by pull cord, external switch or humidity sensor (HT model only). The iCONstant flex range is IPX5 rated and suitable for use in Zone 1 of a wet room.

Assembly/Installation

- Remove front cover.
1. Twist anticlockwise.
2. Lift away.



- Remove back plate cover.
1. Remove screw at base of back plate cover.
2. Twist back plate cover anticlockwise.
3. Lift away.

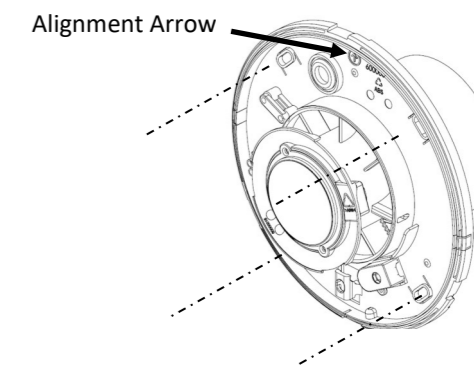


Prepare wall or ceiling

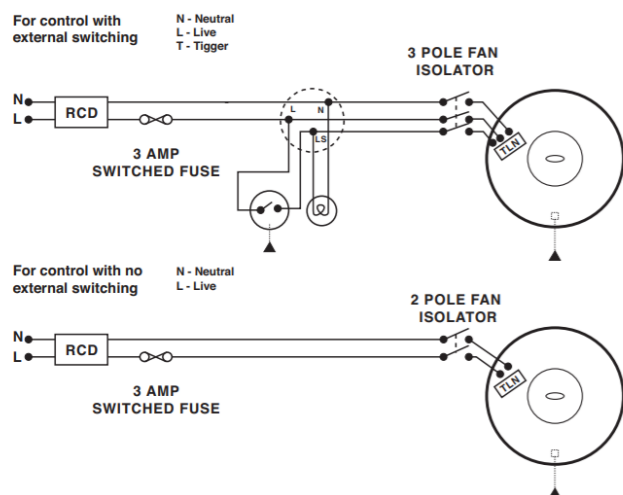
Using the template provided, mark and drill a 110mm diameter spigot hole & 4 fixing holes. The hole should be lined with a 100mm id duct. Make provision for the electrical supply cable. Fit wall plugs provided.



Mount fan into the spigot hole ensuring cable is fed through the cable grommet provided. Fix to wall or ceiling with the 4 screws provided. Position alignment arrow vertically.

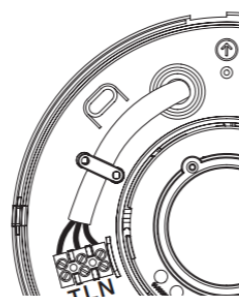


Electrical Installation

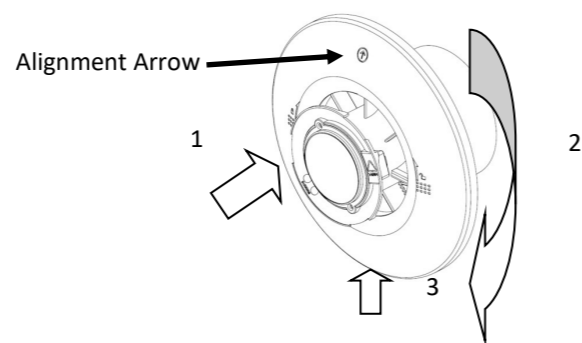


All electrical installation to be carried out by an approved electrician in accordance with Part "P" U.K. Building Regulations and to the latest IEEE standards, or the appropriate regulations in the country of installation. iCONstant flex fans require a 110-230V 50/60Hz supply, it is double insulated so therefore does not require an earth. Fans installed in Zone 1 or Zone 2 must be at least IPX4 (splash proof) rated. Additionally, fans installed in Zone 1 must be SELV (Safety Extra Low Voltage) or IPX5 (jet proof) rated. The iCONstant flex range is IPX5 rated and suitable for use in Zone 1.

Secure supply wires into the terminal block. L—Live, N—Neutral and T—switched live (optional). Secure AC mains cable to main body of fan with cable clamp supplied.

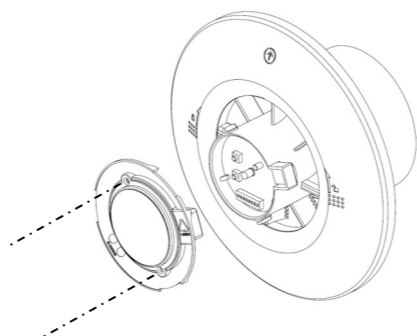


- Fit back plate cover.
1. Locate back plate cover on to main body assembly.
2. Twist backplate cover clockwise until locked. (Arrow should be in the 12 o'clock position).
3. Secure back plate cover with fixing screw.

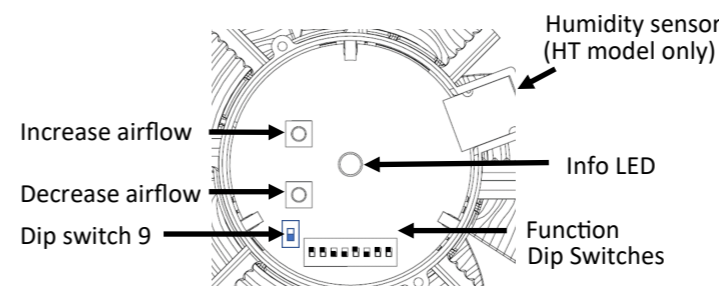


Access to the electronic controls

- Remove electronics cover.
1. Undo the 2 fixing screws,
2. Lift off electronics cover.



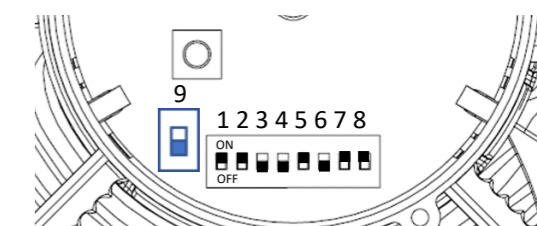
Description of electronic controls



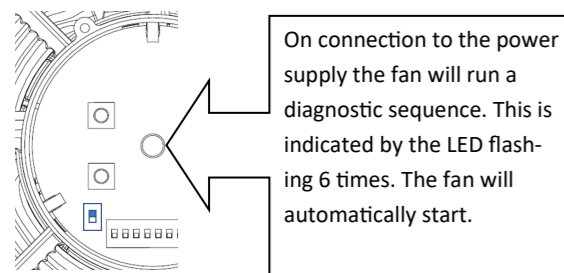
Dip switch functions

Function		Dip Switch								
		1	2	3	4	5	6	7	8	9
Delayed Start	0 seconds	OFF								
Delayed Start	2 minutes	ON								
Timer	2 mins	OFF	OFF							
Timer	15 mins	OFF	ON							
Timer	30 mins	ON	OFF							
Timer	45 mins	ON	ON							
Humidity	50-60%			OFF	OFF					
Humidity	60-70%			OFF	ON					
Humidity	70-80%			ON	OFF					
Humidity	80-90%			ON	ON					
Flow rate	OFF					OFF	OFF	OFF		
Flow rate	6 L/s					OFF	ON	OFF		
Flow rate	8 L/s					ON	OFF	OFF		
Flow rate	11 L/s					ON	ON	OFF		
Flow rate	13 L/s					OFF	ON	ON		
Flow rate	16 L/s					ON	OFF	ON		
Flow sensor	ON									ON
Flow sensor	OFF									OFF

Dip Switch factory settings highlighted above.

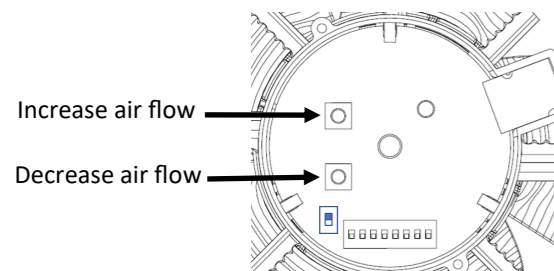


Start up diagnostic sequence

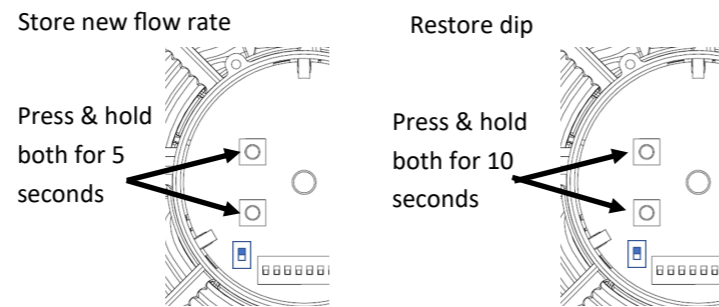


Commissioning adjustment

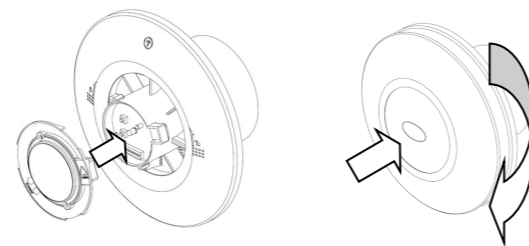
To adjust the airflow rate on commissioning, press top button to increase flow rate, press bottom button to decrease flow rate. The LED will flash once per button press.



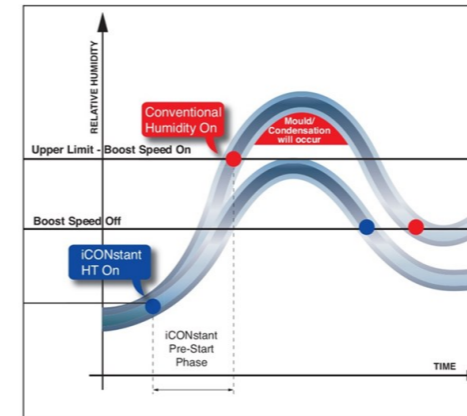
To store new settings press and hold both buttons for 5 seconds. The LED will flash once for 2 seconds to confirm.



Fit electronics cover and secure with the 2 fixing screws. Check that the fan is running. If the LED is on permanently, check installation for impeller obstructions and resolve. Replace the front cover and twist clockwise to secure.



Humidity function (HT model only)

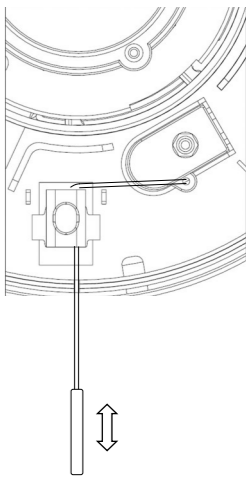


Automatic Humidity Control with a progressive increase in humidity—the fan will start when the preset value (factory setting 70-80% RH) is reached. However, when the sensor detects a rapid increase in humidity the fan will start automatically before the pre-set value has been reached so that preventive ventilation commences. The fan switches off automatically when the humidity is reduced to 10% below the set point. Note: It is possible that a high level of humidity is present within the room for a longer period of time due to generally high humidity in the ambient air (summertime) or a build up of high humidity over several hours (stream rooms/sauna etc)

Boost Activation

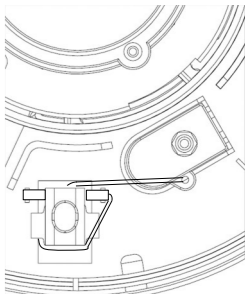
Pull cord or switched live activation increases the trickle flow rate to boost for the selected timer period.

- From 5 l/s trickle to 8 l/s
- From 8 l/s trickle to 11 l/s
- From 11 l/s trickle to 13 l/s
- From 13 l/s trickle to 16 l/s
- From 16 l/s trickle to 20 l/s



Pull Cord Storage

Wrap and store around stowaway mechanism if not required

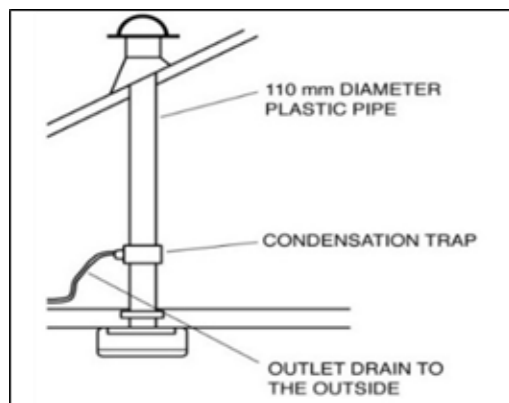


Delayed start

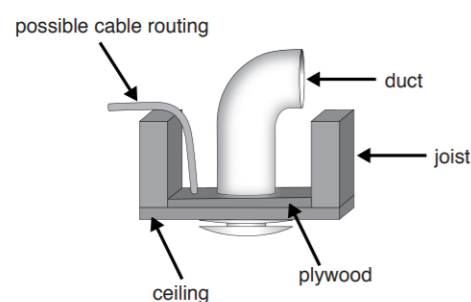
Delayed start to boost is only available with switch live activation. This feature is not available with pull cord activation.

Good Practice Guide

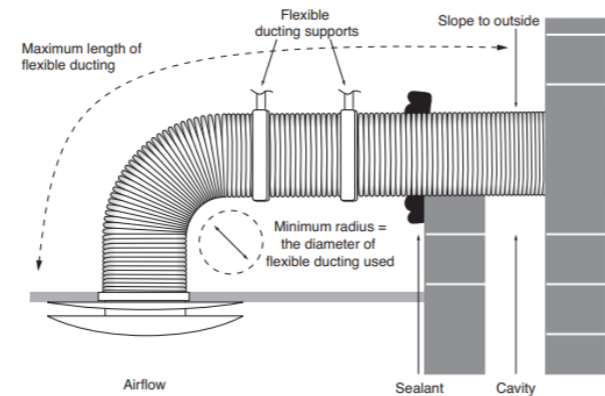
Installation in the ceiling



To avoid the backflow of condensation into the fan in the ceiling installations it is good practice to fit a condensation trap (optional—Airflow Part #51978301) to the vertical outlet duct of the fan.



Installation with flexible ducting



Where flexible ducting is used the diameter must be maintained and it is good ventilation practice that the ducting is extended to 90% of its possible length in order to maintain the best possible airflow. Ensure that flexible duct connections are not over tightened to the fan outlet spigot. To avoid reduced flow, an elbow plenum (optional Airflow Part #526421301) should be used for all installations which contain bending of ducting. The fan and ducting should be installed in accordance with the requirements of part F and L of the Building Regulations. The iCONstant flex will maintain the selected flow rate over 6m of flexible ducting, fully extended, including 2 x 90° bends.

Maintenance

SAFETY FIRST: ALWAYS ISOLATE THE FAN UNIT FROM THE POWER SUPPLY BEFORE REMOVING THE COVER. When installed according to these instructions the iCONstant flex are completely safe. The materials used do not constitute a hazard. The module covers are made of a flame retardant material.

Cleaning

The external housing of the fan can be wiped with a damp cloth. Do not use household cleaners containing abrasives. Note: Always isolate the fan when cleaning. Never clean any parts of the fan assembly by immersing in water or using a dishwasher.

Warranty

Applicable to units installed and used in the United Kingdom. Airflow guarantees the iCONstant flex for 3 YEARS from date of purchase against faulty material or workmanship. Warranty only covers the fan, not the reinstallation of this if required. In the event of any defective parts being found, Airflow Developments Ltd reserve the right to repair or at our discretion replace

1. Has been installed and used in accordance with the fitting and wiring instructions supplied with each unit.
2. Has not been connected to an unsuitable electrical supply.
3. Has not been subjected to misuse, neglect or damage.
4. Has not been modified or repaired by any person not authorised by Airflow Developments Ltd
5. Has been installed in accordance with latest Building Regulations and IEEE wiring regulations.



Warranty cont'd

Airflow Developments Ltd shall not be liable for any loss, injury or other consequential damage, in the event of a failure of the equipment or arising from, or in connection with, the equipment excepting only that nothing in this condition shall be construed as to exclude or restrict liability for negligence.

This warranty does not in any way affect any statutory or other consumer rights.



Disposal

Do not dispose of with household waste. Please recycle where facilities exist. Check with your local authority for recycling advice.



UK Head Office
AIRFLOW DEVELOPMENTS Limited
Aidelle House, Lancaster Road
Cressex Business Park
High Wycombe
Bucks
HP12 3QP
United Kingdom
Tel: +44 (0) 1494 525252
Email: info@airflow.com
Web: airflow.com

Czech Republic
AIRFLOW LUFTECHNIK GmbH
o.s. Praha
Hostynska 520 10800 Praha 10
Malesice
Czech Republic
Tel: +42 (0) 2 74772230
Email: info@airflow.cz
Web: airflow.cz

Germany
AIRFLOW LUFTECHNIK GmbH
Wolbersacker 16
53359 Rheinbach
Germany
Tel: +49 (0) 222 692050
Email: info@airflow.de
Web: airflow.de

AIRFLOW DEVELOPMENTS Limited reserve the right in the interest of continuous development to alter any or all specifications without prior notice.