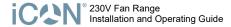
AIRFLOW 🙎





iCON 15 - 72683501 iCON 30 - 72591601 iCON 60 - 72591701





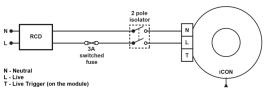




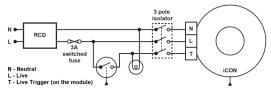


Electrical installation Optional modules for iCON 230V

Wiring for control modules with no external switching:

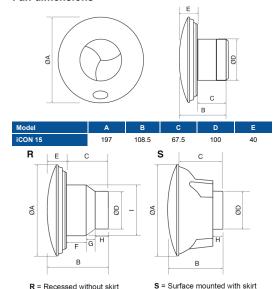


Wiring for control modules with external switching:



Wiring and installation of iCON modules can be also found in the Installation an Operation Guide included within the module packaging (optional, see www.airflow.com for details).

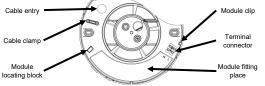
Fan dimensions



K = Necessed Without Skirt									
Model	Α	В	С	D	E	F	G	н	- 1
iCON 30 (R)	225	144	101	97	43	51	20	30	148
iCON 30 (S)	225	144	92	97	-	-	-	29	-
iCON 60 (R)	280	165	110	148	55	38	20	52	177
iCON 60 (S)	280	165	80	148	-	-	-	46	-

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Mechanical installation



iCON fans can be recessed in a wall or ceiling (iCON 30 and 60 are also supplied with surface mounting kit). See pages 8-10 for details.

Always ensure free running of the fan impeller and that duct connections are not over tightened to the fan outlet spigot.

Fix the sealed grommet supplied into the cable entry hole. Pierce the grommet to allow the mains cable to be pulled through while maintaining the integrity of the seal.

Airflow Developments recommends that rigid ducting is used where possible instead of flexible ducting, this will ensure maximum performance.

Before carrying out the installation see pages 11&12 for best practise recommendations.

Important

Precautions must be taken to avoid the back-flow of gases into the room from the open flue of gas or other fuel-burning appli-

Range overview

Airflow® iCON® 230V fans are available in three model sizes and can be fitted to a wall or ceiling

Part no.	Model	Air flow Power [I/s / m³/h] [W]		Current [A]	Noise level [dB(A) @ 3m]	
72683501	iCON 15	19 / 69	9.4	0.05	28.8	
72591601	iCON 30	32 / 117	26.4	0.17	33.3	
72591701	iCON 60	78 / 280	66.3	0.45	41.6	

iCON 15 -100mm axial fan iCON 30 -100mm mixed-flow fan iCON 60 -150mm mixed-flow fan

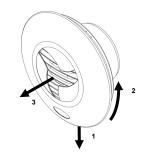
The iCON range can be used as a simple extract fan operated by a remote switch (standard), or can be fitted with an internal control module to give a range of control options (which includes: timer, humidity, motion sensor, pull cord or combinations of these functions).

These optional modules are available separately and can be fitted at the time of installation or retrofitted (see page 15).



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Front cover removal



To remove front cover assembly, first make sure the fan is off. isolated from the power supply and the iris shutter is fully closed.

- 1. Undo the locking screw at the bottom edge of the cover using a screwdriver.
- 2. Rotate the cover a few degrees anticlockwise until it clicks out from the fittings.
- 3. Remove the cover by pulling it out.

To refit the cover, reverse the above procedure. If when refitting the front cover the iris stays open, remove the cover and don't attempt to refit it for approx. two minutes (allowing the actuator to retract back in the closed position). Then try again.

Electrical installation

All electrical installation must be carried out by an approved electrician in accordance with Approved Document Part P of U.K. Building Regulations and to the latest IET standards, or the appropriate regulations in the country of installation.

The fan requires a 230V 50Hz single phase supply, class II equipment (marked as stated in BS EN 60417). An external 3A fuse and a 30mA RCD is required for each fan unit.

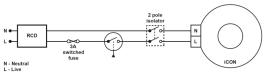
The iCON 230V fan range is IPX4 rated and therefore it is suitable for mounting in bathrooms (incl. zones 1 and 2), toilets, kitchens and utility rooms, as long as it is not exposed to water iets (i.e. can be installed above fixed shower head).

All wiring and switches for fans shall be selected and sited in accordance with BS7671 (IET Wiring Regulations) or relevant.

Important

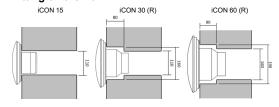
Do not place the ventilator near direct heat sources, e.g. radiant heaters, or where temperatures can exceed 40°C (104°F).

Wiring with no control module fitted:



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Fitting on the wall



Recessing fans in the wall

The iCON 15 requires a 110mm diameter hole through the wall lined with a 100mm internal diameter duct.

The iCON 30 requires a 110mm diameter hole through the wall, counter bored 160mm to a depth of 80mm. The hole should be lined with a 100mm internal diameter duct.

The iCON 60 requires a 160mm diameter hole through the wall, counter bored 190mm to a depth of 80mm. The hole should be lined with a 150mm internal diameter duct.

Surface mounting fans on the wall

When surface mounting the iCON 30 and iCON 60 the supplied mounting skirt should be used.

The iCON 30 requires a 110mm diameter hole through the wall lined with a 100 mm internal diameter duct.

The iCON 60 requires a 160mm diameter hole through the wall lined with a 150 mm internal diameter duct.

Ensure all vapour barriers are properly restored.

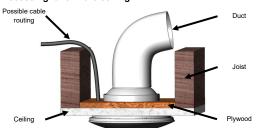
Fitting in the ceiling

When recessing or surface mounting fans in the ceiling, a plywood support (min. 18mm thick) should be mounted between the ceiling joists. Any fixing screws should be fitted through the plaster board into the support.

Important

Fans should not be fitted to unsupported plaster board.

Recessing fans in the ceiling



The fan should be fitted in the hole, fixed with the screws provided into the support.

The iCON 15 requires a 110mm diameter hole through the

The iCON 30 requires a 160mm diameter hole through the ceiling

The iCON 60 requires a 190mm diameter hole through the ceiling.

Where flexible duct is used the diameter must be maintained.

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Maintenance

SAFETY FIRST: ALWAYS ISOLATE THE FAN UNIT FROM THE POWER SUPPLY BEFORE DOING ANY WORK ON THE FAN/MODULE.

When installed according to these instructions the iCON range is completely safe. The materials used do not constitute a hazard.

Cleaning

Fan and ducting should be inspected and cleaned on a regular basis to keep fan performance. The external housing of the fan can be wiped with a damp cloth. Do not use household cleaners containing abrasives. Cleaning of the internal parts such as the impeller should be carried out by using a soft brush. Never clean any parts of the fan assembly by immersing in water or using a dishwasher.

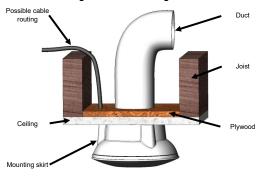
Warning

This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children should not play with the appliance. Cleaning and user maintenance shall not be carried out by children without adult supervision.

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Fitting in the ceiling

Surface mounting fans on the ceiling



When surface mounting the iCON 30 and iCON 60, the mounting skirt provided should be used. The mounting skirt should be fixed, with the screws provided, into the support. The fan is then fitted into the skirt.

The iCON 30 requires a 110mm diameter hole through the

The iCON 60 requires a 160mm diameter hole through the ceiling.

Where flexible duct is used the diameter must be maintained.

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Warranty

Applicable to units installed and used in the United Kingdom.

Airflow Developments Ltd guarantees the iCON for 3 years from date of purchase against faulty material or workmanship. You can register your warranty on-line (for more information check at www.airflow.com). Warranty only covers the fan, not the reinstallation if required. In the event of any defective parts being found, Airflow Developments Ltd reserve the right to repair or at our discretion replace without charge provided that the unit:

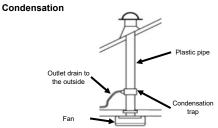
- 1. Has been installed and used in accordance with the fitting and wiring instructions supplied with each unit.
- 2. Has not been connected to an unsuitable electrical supply.
- 3. Has not been subjected to misuse, neglect or damage.
- 4. Has not been modified or repaired by any person not authorised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

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.

For detailed standard warranty terms and conditions see our website or contact Customer Service.

Best practise recommendations



To avoid the backflow of condensation into the fan in ceiling installations it is good practice to fit a condensation trap to the vertical outlet duct of the fan. With thru-the-wall installation fit the duct in an approx. 5° angle down to outside.

Measurements and commissioning

The Building Regulations 2010. Statutory Instrument Part 9. §42, imposes a requirement that testing and reporting of mechanical ventilation performance (see Approved Document F1) is conducted in accordance with an approved procedure.

Compliance with this requirement by an assessed and registered 'Competent Person' should follow a 'Best Practise' process and adopt air flow measurement, Method A - The Unconditional Method - using a suitable UKAS certified measuring instrument. Generically referred to as 'Zero Pressure Air Flow Meter' or 'Powered Flow Meter'.

Further information on this method is detailed in NHBC Building Regulations Guidance Note G272a 10/13 and BSRIA Guide document BG 64/2016.

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Options

Optional control modules available for iCON 230V

Part no.	Model	Description
72573602	PCM	Pull cord (manual on/off)
72612601	TM	Timer (overrun 1-30 min)
72675702	DTM	Delayed timer (2 min delay, overrun 2-45 min, pull cord)
72687103	HTM	Humidity timer (40-90% RH, overrun 2-45 min, pull cord)
72687104	PRTM	PIR timer (motion sensor, overrun 2-45 min)
72687102	PRHTM	PIR with humidity timer (motion sensor, 40-90% RH, overrun 2-45 min)
72675703	2SHM*	2 speed humidity (low speed 8 or 13 l/s, boost at 40-90% RH, pull cord)

* Not recommended for kitchen applications with iCON 15.



Covers for iCON 30

Colour

Anthracite

Choose from optional colour covers



Anthracite

Part no.

52634503B

52634505B

2634504B

52634502B

Covers for iCON 15

Colour

Anthracite

Sandstone

Silver

Chrome



Sandstone

Part no.

634506B

2634508B



Chrome



Covers for iCON 60

Silve

Colour

Anthracite

Sandstone

Buckinghamshire HP12 3QP United Kingdom

Tel: +44 (0) 1494 525252 Email: info@airflow.com www.airflow.com

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Cressex Business Park High Wycombe

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Do not dispose of with household waste.

Check with your local authority for recycling advice.

Hostýnská 520 108 00 Praha 10

Please recycle where facilities exist.

os Praha

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Disposal

Airflow Developments Limited reserve the right, in the interests of continuous development, to alter specifications without prior notice. All orders are accepted subject to our conditions of sale which are available on request.

52634510B

Part no.

52634509B

52634511B

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Where flexible ducting is used the diameter must be maintained and it is good ventilation practice that the ducting is extended to a minimum of 90% its possible length in order to maintain the best possible air flow. Ensure that flexible duct connections are not over tightened to the spigots.

the diameter of flexible ducting used

Cavity

Sealant

Flexible ducting

Best practise recommendations

Installation with flexible ducting

Max length of

flexible ducting

(90% expanded

To maximise the air flow rigid ducting should be used where possible. The fan and ducting should be installed in accordance with the requirements of the Domestic Ventilation Compliance Guide, part of the Building Regulations.

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