AIRFLOW®

iCON® Modules for SELV 12V Fan Range Installation and Operating Guide

SELV 12V DC

PCS - 72573603
PCTS - 72574204
DTS - 72682307
HTS - 72574202
PRTS - 72574203
PRHTS - 72574201

EVIA · FMA · beama · RVA · Certificate No. EMS 505454 BS EN ISO 14001:2015 · Certificate No. FM 00153 BS EN ISO 9001:2015

iCON SELV Fan Range Available Modules

Airflow iCON SELV 12V fans can be controlled by optional control modules. For the SELV 12V range you can choose between six modules.

Part no.*	Model	Description	Wiring diagram
72573603	PCS	**Pull cord** (Manual on/off)	A
72574204	PCTS	**Pull cord timer** (Pull cord, Run on timer 1 - 30 min)	A, B
72682307	DTS	**Delayed timer** (Pull cord, 2 min delay, Run on timer 2 - 45 min)	A, B
72574202	HTS	**Humidity timer** (Pull cord, Run on timer 1 - 30 min, 40 - 90% RH)	A, B
72574203	PRTS	**PIR timer** (Motion sensor, Run on timer 1– 30 min, 40 - 90% RH)	A, B
72574201	PRHTS	**PIR humidity timer** (Motion sensor, Run on timer 1 - 30 min, RH 40 - 90%)	A, B

* For blister pack add "B" at the end of part number.

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

Electrical installation

All electrical installation work to be carried out by an approved competent person in compliance with U.K. Building Regulations and to the latest IET standards, or the appropriate regulations in the country of installation. (for fan installation see the iCON SELV 12V Fan Range Installation and Operating Guide).

Diagram A - module wiring with no external switching (module functionality / pull cord activation only):
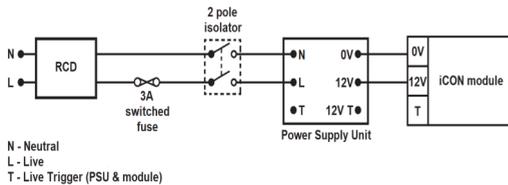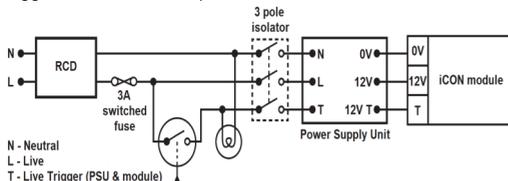

N - Neutral
L - Live
T - Live Trigger (PSU & module)

Diagram B - module wiring with external switching (live trigger connection used):

N - Neutral
L - Live
T - Live Trigger (PSU & module)

Mechanical installation

To install the module in an iCON fan follow the instructions below. See page 5 - 8 for instructional drawings.

1. Remove the iCON fan front cover (see page 5).
2. Lift the fan electrical terminal away from its mounting pillars and position on the module connector pins. Tighten the two screws with a suitable screwdriver. Ensure the leads are under the module retaining cable clamp.
3. Fit the module at a slight angle into the fan housing, ensuring that the locating slot is fully engaged in to the locating block on the fan.
4. Push the module against housing, ensuring the module clip holds it in place (clicks at the cable clamp). With iCON 15 & 30 the terminal will reposition back over mounting pillars.

Modules with pull cord: Ensure that the pull cord is properly located within the cord slot at the bottom of the fan.

Modules with PIR control: Remove the oval logo cap fitted at the bottom of the front cover of the fan. Replace it with translucent lens supplied with the PIR module. Note: The lens must be replaced in order for the PIR module to function properly. Ensure the orientation of the lens is correct (i.e. the lens should be flush with the surface).

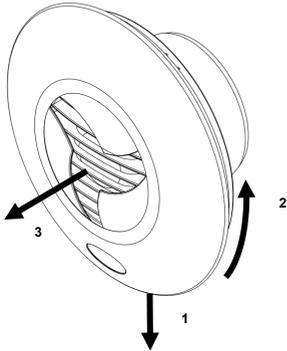**Connecting mains cable into the module**

Connect the 12V Power Supply Unit cable to the 3-way supply connector block (see wiring diagrams on page 3) ensuring that the supplied cable clamp is fitted. Refit the front cover.

Note: When using DTS module on initial connection the fan will start immediately and continue running for the duration set on the timer function of the module.

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. The iris shutter should be in closed position after refit. If not, wait approximately 1 min after fan switch off allowing the actuator to retract back in the closed position and then refit the cover again.
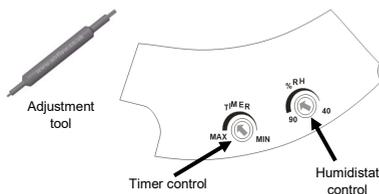
Module adjustment

A module with Timer and/or Humidistat is supplied pre-set, but may be adjusted by the installer. All adjustments must be done using the supplied Adjustment Tool.

Humidity settings

The humidistat is factory pre-set at approx. 70% RH (relative humidity). Adjusting the "% RH" towards 40% will result in fan activation at lower humidity (more sensitive). Adjusting the "% RH" towards "90%" will result in fan activation at higher humidity (less sensitive).

Time settings

The Run on Timer is factory pre-set at approx. 15 min. Adjusting the "Timer" towards "MIN" will result in a timer overrun decrease towards 1 or 2 minutes (depends on module). Adjusting the "Timer" towards "MAX" will result in a timer overrun increase towards 30 or 45 minutes (depends on module).
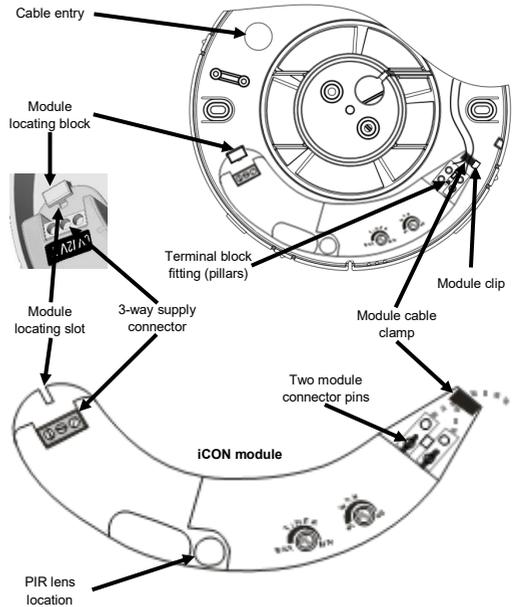

Adjustment tool

Humidistat
MIN = 40% RH
MAX = 90% RH

Timer
MIN = 1 or 2 min
MAX = 30 or 45 min

Timer control

Humidistat control

Mechanical Installation
iCON module overview.

Cable entry

Module locating block

Terminal block fitting (pillars)

Module clip

Module locating slot

3-way supply connector

Module cable clamp

Two module connector pins

iCON module

PIR lens location

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Warranty

Applicable to units installed and used in the United Kingdom.

Airflow Developments Ltd guarantees the iCON range for 3 years (incl. modules) 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 product, not a reinstallation if required.

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

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

UK CA CE

www.airflow.com

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