



AIRFLOW

CONSULTANT'S SPECIFICATION

FAN SPECIFICATION - iCONsmart 15

The extractor fan shall be the iCONsmart 15 as designed and manufactured by Airflow, shall be sized as indicated on the drawings described on the products data sheet in accordance with the specification.

The axial fan has been designed and developed in CFD (Computational Fluid Dynamics) to deliver the next generation extractor fan, with this revolutionary design iCONsmart ensures effective ventilation, for various applications.

The iCONsmart utilises the newest EC motor which is highly efficient and energy saving, minimising the fan's energy consumption and low specific fan power values. Specifically designed with Fluid Dynamic, the fan has a bespoke impeller. Designed to increase air performance whilst reducing pollutant noise. Also, the fan contains a newly developed flow sensor that is completely waterproof, recovering quickly when it gets wet. The fan can resist a sustained, low pressure water jet spray, is also tiling friendly and has wipe clean cover.

iCONsmart round design means fitting in the wall or ceiling through a core drilled hole enables immediate fixing with also cantilever fixing lugs enable recessed installation on uneven surfaces. The mounting positions and flexibility in product specification and installation is as described in the product's data sheet and instruction manual provided by Airflow. The iCONsmart 15 extractor fan is suitable for 100mm duct diameter.

With the iCONsmart fan, you have a choice of the following module functionality; Timer, Humidity & Timer, Motion sensor & Timer or Motion sensor with Humidity & Timer. The digital micro modules are small and simple to install. The iCONsmart modules are described in the product's data sheet and instruction manual provided by Airflow.

iCONsmart 15 has also been CB tested and FCC certified to demonstrate the thoughtful engineering behind the fan design. It has been awarded the TUV certification for its safety, functionality, and quality. The unique QR code found on all iCONsmart fans boxes will direct to the certification page. The fan is suitable to operate in air temperatures up to 40°C.

KEY FEATURES

- Adjustable Flow rate up to 22 l/s - 79 m³/h
- Low energy consumption
- Ceiling or wall mounted
- Very quiet (Quiet Mark certified)
- IPX5
- App controlled via Bluetooth
- Real time fan data accessibility
- NICEIC paperless notification*
- Silent iris shutter
- Very quiet (Quiet Mark certified)
- Digital micro multifunction modules: Timer, Humidity & Timer, Motion sensor & Timer, Motion sensor with Humidity & Timer
- Ductable for short runs
- Cantilever lugs to facilitate uneven surfaces
- Complies with Building Regulations
- 5 Year guarantee

*Must be a NICEIC registered competent person to accept to access this features

OPERATION

The iCONsmart 15 fan iris shutters operate silently whilst preventing backdraughts from the outside. The fan meets and exceeds the requirements of Part F of the Building Regulations. With flow rates up to 22 l/s (79 m³/hr), it makes it ideal to extract stale air from wet rooms such as toilets, shower rooms and bathrooms.

The iCONsmart fan can be app controlled or remote switch operated. myAirflow, the Bluetooth enabled app allows to view and adjust on-going flow rates, as well as a full set of other functions and features. The fan brings paperless commissioning, by electronically submitting each identified fan performance data to Building Control via the fully approved NICEIC on-line portal.

CONTROL OPTIONS

The iCONsmart is designed with its own innovative fan control and monitoring and shall be controlled using myAirflow app, user friendly and all functionalities can be adjusted by the user.

Through combining your unit with additional humidity, CO₂ sensors, differential pressure switches, etc the unit shall achieve on-demand ventilation for the property. Due to changes in humidity, CO₂ and VOC levels

that occur through changes in occupancy or usage, the ventilation shall boost or reduce to match demand, without the need of manual intervention.

BASIC CONTROLLER

The recessed simple variable speed controller is compatible with the DV250 Entro heat recovery unit and shall provide the following features:

- Variable speed control 100% adjustable by the user
- Automatic boost function increases air flow when needed (via volt-free contact or 0-10 V sensor output)
- Automatic frost protection reduces the supply ventilation rate for a certain period to prevent ice build-up within the heat recovery cell depending on the outside air temperature
- Automatic summer bypass fully isolates the heat exchanger and helps prevent overheating the dwelling during the summer months. Its motorised damper is triggered by the temperature sensor automatically
- Heater control for pre-heater and post-heater

TOUCH SCREEN CONTROLLER

The digital touch screen controller is available as an optional controller compatible with the DV250 Entro heat recovery unit and shall provide the following features:

- Stylish touch screen with easy-to-use interface
- Weekly ventilation programming allows users to pre-set the ventilation levels scheduled for different days
- Party / Holiday mode to set the air volume for specific time period based on occupancy
- Filter maintenance reminder
- Indoor temperature control and display based on extract and supply air temperature
- Automatic control of summer by-pass actuator
- Automatic anti-frost protection of the heat recovery core

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