

DA64-AX (Fan) & DA-CON/240 (Controller) DataFan Range

Product Datasheet



- Data logging in real time for a rolling 420 day period
- All data viewable on a single A4 page or computer screen
- Shows fan run times
- Energysaver fan
- Impedance protected 12 volt 11.5 watt DC ball bearing motor
- Silent integral back-draught shutter
- Anticipatory control
- Contamination proof sensor head with lifetime guarantee
- 5 year guarantee as standard
- Red/Green diagnostic LED on controller

Order Code

A64-AX	Fan with integral data logging humidity sensor
DA-CON/240	Dynamic Humidity Controller
ESG150WALL	Energysaver Wall fixing kit

Window kit available

Benefits

- Records (in real time) important environmental data: Relative Humidity (RH), temperature, RH set point, vapour pressure, dew point, power interrupts and every occasion when fan has run. Data held for rolling period of 420 days
- 5 year guarantee
- Lower energy cost for tenant in keeping with Government Directive regarding energy efficient electrical appliances in Social Housing

The A64-AX is a fully automatic 150mm (6") axial kitchen fan designed for use with the DA-CON/240, an external microprocessor controlled contamination proof humidity sensor controller supplied separately.

Under the control of a microprocessor, the sensor continuously monitors the Relative Humidity (RH) in the room. If there is a sudden rise in RH the sensor anticipates hitting the set point and activates the fan before it is reached. After the fan has reduced the RH to about 5% below the preset set point, the fan switches off.

The energy efficient, ball bearing 12V DC motor only requires 11.5 Watts of power when running at full capacity (7.5W on low speed), resulting in a long and trouble free operational life whilst reducing energy costs to the resident.

Special Features

Motor

- Energy Efficient motor - down to 7.5W
- 12V DC ball bearing motor – proven long life performance
- No transformer required
- Motor stall protection

Humidity Sensor

- Sensor head guaranteed for life
- Contamination proof
- Microprocessor controlled
- Anticipatory control for set point
- Night time setback

General

- Extract rate 230m³/h (64 ltrs/sec)
- Automatic silent operating integral back draught shutter mechanism
- Diagnostic two colour LED function display via controller
- Manually operated pull cord overrun on facility via controller

- Recorded data easily downloaded for use on PC or laptop
- Integral battery back up

Construction

Formed from a high quality impact resistant white, thermoplastic material. The silent operation shutters open automatically when the fan switches on, and close automatically when fan switches off to prevent back draught through the fan when not operating.

Motor

A 12V DC brushless, electrically commutated sealed for life lubricated ball bearing motor. The motor incorporates an overload protection device and conforms to EEC Directive 78-889 for radio interference. The motor will operate in temperatures up to 40°C. The fan conforms to BS3456, BS800 and BS5490.

The incoming AC 240V supply is converted to 12V DC by an integral switching power supply. The 12V DC motor, which consumes only 11.5 watts, requires no separate transformer.

Installation

For best effect, the extract fan should be fitted at a minimum of 2 metres from floor level (where possible), but not closer than one metre to a major moisture producing source. The fan should not be fitted immediately above a cooker.

Care must be taken if the fan is fitted in a room containing a fuel burning device without a balanced flue. There must be sufficient air replacement to prevent 'spillage'.

In many instances, a passive air vent or an air brick, may need to be fitted to other cooler rooms within the property in order to promote a good airflow throughout the dwelling.

Fitting Kits available:

Wall: Comprises wall sleeve and external grille (available in brown, terracotta, buff or white)

Window: Mounting unit suitable for S/G or D/G windows.

Ceiling: 150mm dia. ducting will be required. We only recommend that this axial fan be ducted a maximum 1.5 metres. For greater distances, a centrifugal or mixed flow type unit would be more appropriate.

Fan Dimensions (mm)

Casing Height	Width	Depth	Spigot Dia
225	218	119	148

Hole diameters

Walls	Ceilings
158	158

Fan Technical Data

Insulation	Voltage	Fan motor
Double	240V (integral switching power supply)	12V DC 11.5 watts

Extract capacity	Pressure mm H2O	dB (A)
230m ³ /h (64 ltrs/sec) – integral adjustment facility allows increase to max. 350m ³ /h	5.1 (max)	36

Humidity Sensor Technical Data

Set point (at manufacture)	Night time setback
67% RH at 20°C (in conjunction with anticipatory control)	67% RH at 20°C – 77% RH at 10°C