

# OPUS 40-60-95 RANGE PERFORMANCE & TECHNICAL INFORMATION

Compact wall and ceiling fan offering high performance with low noise. Duty up to 95l/s available as both single and twin options.



## KEY BENEFITS:

- ▶ **VERY QUIET OPERATION** – UNITS OFFER HIGH PERFORMANCE WITH LOW NOISE LEVELS.
- ▶ **MOST EFFICIENT SYSTEMS** – DC MOTOR DESIGN PROVIDES LOWEST POSSIBLE SPECIFIC FAN POWER IN ITS CLASS, FOR MAXIMUM EFFICIENCY. CONFORMS TO PART L2.
- ▶ **GUARANTEED VENTILATION** – A COMPACT, COST EFFECTIVE TWIN FAN – ALLOWS FOR AUTOMATIC CHANGEOVER TO STANDBY FAN IN EVENT OF FAN FAILURE.
- ▶ **QUICK AND EASY INSTALL** – THE UNIT CAN BE INSTALLED EITHER WALL OR CEILING MOUNTED, WITH OPTION TO BE RECESSED.
- ▶ **SIMPLE TO COMMISSION** – INTEGRAL CONTROL FACILITY ENABLES THE DUTY TO BE PRECISELY SET WITHOUT THE NEED FOR ADDITIONAL CONTROLS.
- ▶ **LOW MAINTENANCE COSTS** – EASY CLEAN FOAM FILTERS PROTECT MOTOR AND FAN ASSEMBLY, REDUCING MAINTENANCE COSTS AND EXTENDING FAN LIFE. FOAM FILTERS FITTED AS STANDARD.

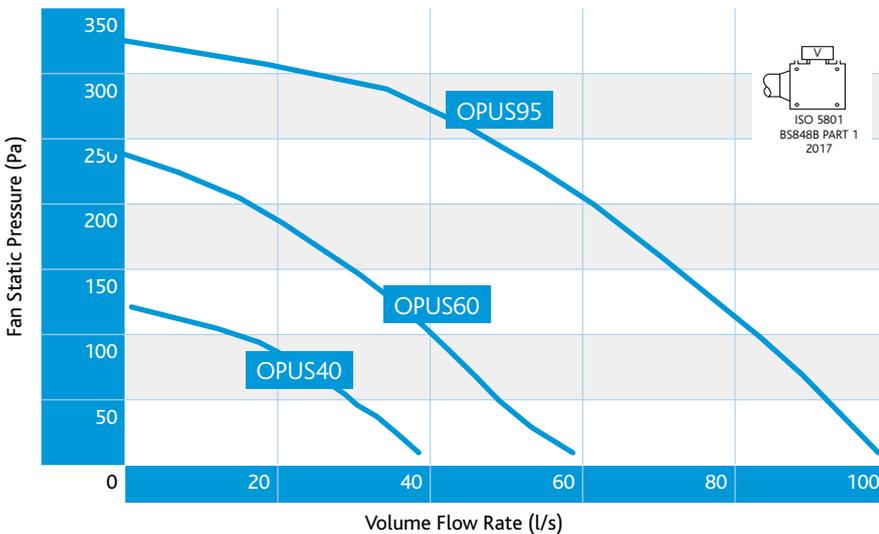
## CODING OPUS40T-ESPF

OPUS 40 T – ES P F  
 | | | | |  
 1 2 3 4 5 6

### SAMPLE CODING

1. Opus range
2. 40, 60 or 95l/s
3. T – Twin fan  
S – Single fan  
D – Dual fan (achieves 2/3rd duty on failure of one blower)
4. ES - Ecosmart control  
C - Basic speed control
5. R - Run-on timer
6. P - PIR sensor
7. F - Filter

OPUS FANS PERFORMANCE CURVE



**DIMENSIONS (MM) AND WEIGHT (KG)**

| MODEL      | L (A) | W (B) | H (C) | SPIGOT | DUCT | WEIGHT |
|------------|-------|-------|-------|--------|------|--------|
| OPUS40/60S | 154   | 307   | 225   | 100    | 95   | 3.2    |
| OPUS40/60T | 154   | 307   | 225   | 100    | 95   | 3.6    |
| OPUS95D    | 154   | 307   | 225   | 100    | 95   | 3.6    |

**TECHNICAL DATA**

| CODE      | PHASE | RPM  | FLC  | dB(A) @3M |
|-----------|-------|------|------|-----------|
| OPUS40S/T | 1     | 1800 | 0.1  | 35        |
| OPUS60S/T | 1     | 2500 | 0.32 | 42        |
| OPUS95D   | 1     | 2500 | 0.6  | 45        |

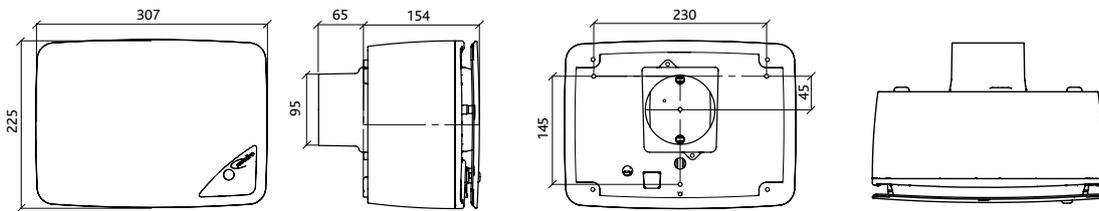
**DIMENSIONS (MM) SURFACE MOUNTED UNIT**

FRONT VIEW

SIDE VIEW

BACK VIEW

TOP VIEW



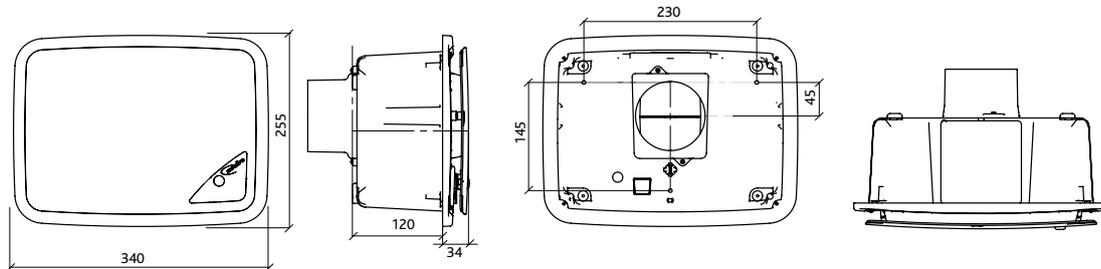
**DIMENSIONS (MM) RECESSED MOUNTED UNIT REAR DISCHARGE**

FRONT VIEW

SIDE VIEW

BACK VIEW

TOP VIEW



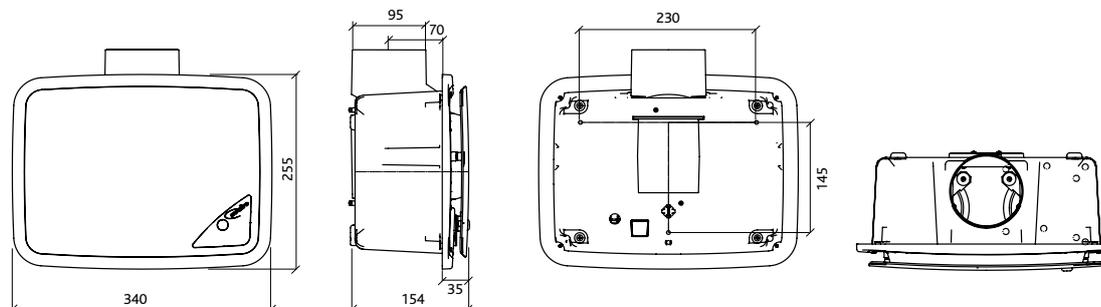
**DIMENSIONS (MM) RECESSED MOUNTED UNIT SIDE DISCHARGE**

FRONT VIEW

SIDE VIEW

BACK VIEW

TOP VIEW



## OPUS 40-60-95 RANGE CONSULTANT SPECIFICATION

### OPERATION

The extract fans shall be as indicated on the drawings and shall be in accordance with the fan schedule in the specification. The vitiated air shall be extracted from each area via ductwork as shown. All necessary ductwork fittings and ancillaries shall be allowed for by the mechanical sub-contractor. The extract fan shall automatically vary its speed as it receives signals from one of the interconnected sensors sited in the rooms being ventilated. When the signal is received the fan shall have the ability to increase speed gradually until the required level is achieved or it will work on a trickle and boost principle i.e. increase ventilation rate from the continuous background rate to the design maximum in one step.

### FAN SPECIFICATION

The fans shall have low energy, high efficiency DC fan/motor assembly with sealed for life bearings.

Motors shall have locked rotor protection to prevent overheating in the event of fan failure. The case shall be 100% recyclable with all parts supplied to enable either surface or recessed mounting. It shall have noise levels and power requirements as detailed in the specification and in accordance with the manufacturer's details.

The unit shall be capable of discharging the air either from the rear of the case or the side via spigots suitable for 100mm diameter ductwork.

For commissioning purposes the unit shall have a miniature control panel mounted in its fascia hidden behind the front cover facilitating high and low speed adjustment (trickle and boost) together with run on timer (1- 60minutes).

The front cover shall be removable without the aid of tools. Any adjustments shall be quickly and easily achieved with a standard screwdriver. The control panel shall also have status indication lamps visible behind the corner "window".

Run and standby versions shall have auto changeover and duty share as standard, the fan shall changeover every twelve hours of run time to maximise the unit's effective life span. All models shall have foam filters as standard.

## OPUS 40-60-95 RANGE CONSULTANT SPECIFICATION

### CONTROL SPECIFICATION

The fan unit shall have the following functions integrally mounted within the fan unit on a purpose made PCB, all such components pre-wired and factory fitted by the manufacturer.

### CONTROL OPTIONS

All models to have power and fan failure indication visible behind the front cover.

Base model – on/off control with facility for continuous background ventilation.

C – full speed control of both background and boost ventilation.

R – 1-60 minute run-on timer.

P – Integrated passive infrared detection to trigger the units to boost.

### ES – ECOSMART CONTROL OFFERING:

- Integrated infinitely variable speed control.
- Integral background ventilation commissioning facility.
- Integral boost ventilation commissioning facility.
- Auto changeover and duty share (twin fan unit only).
- Integral adjustable run-on timer.
- Integral S/L terminal for boost trigger from remote switch, e.g. light switch.
- 3no. IDC sockets for interconnection of Ecosmart fans or low voltage sensors using pre-plugged 4-core low voltage cable.
- Multiple fans can be interconnected and run from one or more sensor or controller.
- Remote volt free run and fail status indication.
- Run and fail relays for connection to BMS.

• Facia mounted fan failure, system status indication as follows:

- Fan 1 status.
- Fan 2 status.
- Power to fan.
- System standby.
- 5 years warranty.

The unit shall be of the Opus type as manufactured by Nuaire.

### INSTALLATION

By the appointed contractor.

Mechanical installation requires mounting of the extract unit in the designated position and connection to the associated duct work. Electrical installation requires the provision and connection of single phase electrical supply at the fan.

The manufacturer's recommendations should be observed at all times.