



# SC CENTRIFUGAL RANGE

The ELTA SC "Centrifugal" range of fans is suitable for applications where increased pressure development to overcome resistance is needed, such as internal toilets or bathrooms where no direct access to the outside is practicable.

There are two sizes, SC100mm and SC250mm, with up to six variations depending on model size and specific requirements.


Fans are quiet in operation, manufactured to a high standard of finish and designed to ensure installation and maintenance is made easier. Each unit features a "side removable access plate" for ease of wiring, front fixing screws to detach front face grille for regular cleaning, with washable foam framed filters optional on the larger SC250mm model.

Each fan comes complete with butterfly backdraught shutter and inlet cone for improved performance, with shutter outlets for each model determined by the length in run of ducting.

Fans with humidistats and timers are adjustable, although humidistats are pre-set to operate the fan when the humidity level reaches 70%.



## Technical Specification

- 2 year guarantee.
- Duty range from 30 l/sec (108m<sup>3</sup>/h) to 70 l/sec (252m<sup>3</sup>/h).
- Units manufactured from shock proof, heat resistant white plastic with inbuilt finger proof grille.
- All units have IPX4 protection and are splash proof as required under current electrical regulations.
- Motors have sealed for life, self-lubricating bearings that do not require ventilating. They are sealed in a housing, ensuring quiet operation of the fan.
- All motors are double insulated with in-built **Thermal Overload** protection.
- Anti-vibration gasket between fan casing and wall for quiet operation.
- Backward curved centrifugal impeller has been specially designed to ensure excellent low sound levels, whilst providing optimum performance.
- All fans conform to EC directives.
- Fans are  marked and comply with HAPM "G" rating.
- Maximum ambient operating temperature is 40°C.



## Humidistat Control

Some models within the SC range are supplied with a humidistat. The humidistat is of the "DYNAMIC" type, which automatically changes its humidity setting downwards by 1%, for each °C that the room rises in temperature, or increases it by 1% for each °C that the room falls in temperature. This is often referred to as "night time set back" as it reduces the chance of the fan running at night.

It also has an in-built "rate of rise detector"; this will sense rapid humidity rise and automatically switch the fan on when needed, for instance near a boiling kettle.

Finally, as all models with humidistats are sold with in-built timers, the humidistat has an "anti-hunting" feature, automatically allowing the timer to take over and keep the fan running.

## Technical Information

Model	SC100	SC250	SC250 2sp
Diameter.	100mm	100/120mm	100/120mm
Volts.	230	230	230
Watts.	30	50	50/23
R.P.M.	2100	2450	2450/1480
l/sec.	30	70	70/35
Max Pa.	120	230	230/100
dBA @ 3m	51	52	52/41

# Toilet, Bathroom & Utility Room Models

**SC100 (4")** Basic unit, fan only.

**SC100C (4")** Pull cord operated unit.

**SC100T (4")** Run-on timer unit. Adjustable between 3-15 minutes.

**SC100HCT (4")** Humidistat, pull cord, timer and neon. The neon light is activated by the pull cord. This cord can be removed and the unit wired to activate via a light switch.

Note – Both "T" and "HCT" models can be wired to a light switch.

Building Regulations requirements :- Toilets 6 l/sec (22m<sup>3</sup>/h), Bathrooms 15 l/sec (54m<sup>3</sup>/h), Utility Rooms 30 l/sec (108m<sup>3</sup>/h). Duty of unit 30 l/sec (108m<sup>3</sup>/h), covering all requirements.



SC100

# Kitchen Models

**SC250** Basic unit, fan only.

**SC2502C** 2 speed pull cord operated.

**SC250T** Run-on timer unit. Adjustable between 3-25 minutes.

**SC250HCT** Humidistat, pull cord, timer and neon. The neon light is activated by the pull cord. This cord can be removed and the unit wired to activate via a light switch.

**SC250H2C** 2 speed, humidistat, pull cord and neon. Unit runs on low speed when activated by humidistat.

**SC250H2R** 2 speed, humidistat, and neon for remote switching applications.

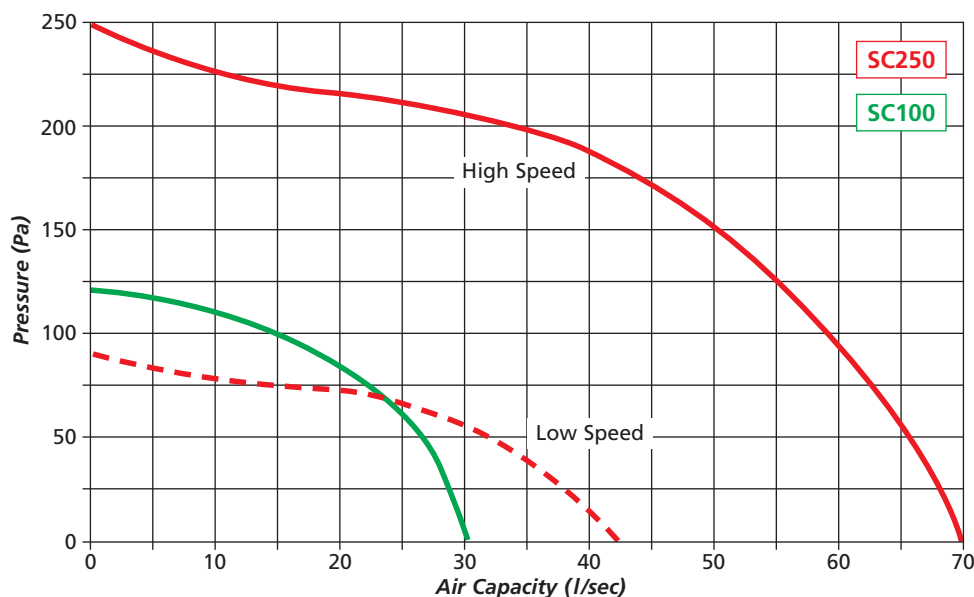
**Note – All SC250 models are suitable for both 100mm and 120mm ducting.**

Building Regulations requirements 60 l/sec (216m<sup>3</sup>/h). Duty of unit 70 l/sec (252m<sup>3</sup>/h).



SC250

# Performance Data



## Fixings for ceiling or wall mounting.

- Ceiling mounted using locking ring **SK100SACR** for all SC100 models.
- Wall mounted using :-
  - Telescopic 8" – 14" length kit **SK100SAWKtlscop** or **SK125SAWKtlscop** if 120mm spigot is being used.
  - Flex Kit 14" length of aluminium flex **SK100SAWKflex** or **SK125SAWKflex** if 120mm spigot is being used.

All wall kits come complete with outside grille in white as standard with optional colours available on request.

## Optional Features.

- Washable grease filters available on SC250 model **SK250SCWF**.



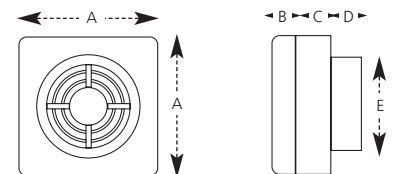
# Installation



Long piping

# Dimensions

Model	A	B	C	D	E
SC100	150	38	50	47	98
SC250	210	122	-	28	97/119



## Fixings for ceiling or wall mounting.

### Locking Ring



Telescopic 8" - 14" Length Kit

### Wall Kit



14" Length Aluminium Flex



### Grille



### Gravity Shutter



## Optional Features.



Washable Grease Filter