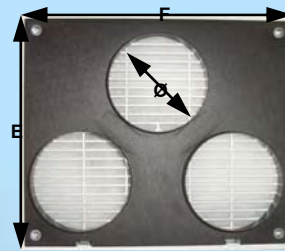
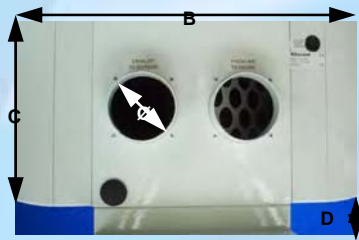
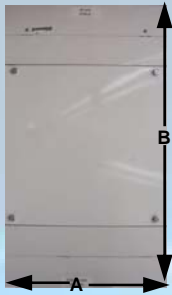


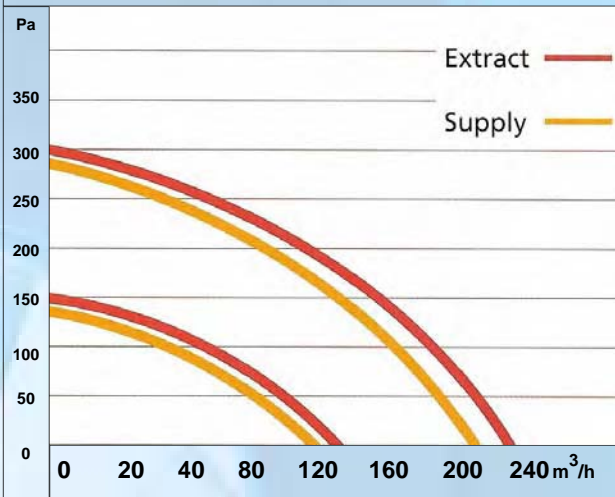
## DIMENSIONS



Measured in mm

- A : 337
- B : 540
- C : 337
- D : 40
- E : 294
- F : 337
- Ø : 100

**PERFORMANCE GRAPH**  
For  
**WHOLE HOUSE**  
**CENTRAL EXTRACT SYSTEM**



### TECHNICAL DATA WHS 100B

- Extract Volume : 226 m<sup>3</sup>/h (HIGH)
- : 115 m<sup>3</sup>/h (LOW)
- Supply Volume : 200 m<sup>3</sup>/h (HIGH)
- : 107 m<sup>3</sup>/h (LOW)
- Sound Volume\* : See Table Below
- Voltage : 230-240v AC~
- Frequency : 50 Hz
- Wattage : 110W (HIGH)
- : 90W (LOW)
- Max. Temp. : 50 °C
- Weight : 16.0 kg (WHS ONLY)
- Max Pressure : 300 pa

\* : Independent Tests 14-7-2003

### TECHNICAL DATA WHS 100BSWED

- Extract Volume : 221 m<sup>3</sup>/h (HIGH)
- : 116 m<sup>3</sup>/h (LOW)
- Supply Volume : 192 m<sup>3</sup>/h (HIGH)
- : 105 m<sup>3</sup>/h (LOW)
- Sound Volume\* : See Table Below
- Voltage : 230-240v AC~
- Frequency : 50 Hz
- Wattage : 110W (HIGH)
- : 90W (LOW)
- Max. Temp. : 50 °C
- Weight : 17.0 kg (WHS ONLY)
- Max Pressure : 300 pa

\* : Independent Tests 14-7-2003

## SOUND LEVELS

SPEED	EXTRACT	WATTS									Lw,dB(Lin)	LwA,dB(A)	LpA,dB(A)	From Lp
			63	125	250	500	1.0K	2.0K	4.0K	8.0K				
Low	115m <sup>3</sup> /h	90W	27.5	31.3	32.9	30.2	21.6	21.7	17.2	22.8	37.3	31.1	13.6	12
High	226m <sup>3</sup> /h	110W	33.2	42.9	43.7	38.2	35.6	35.5	27.4	24.2	47.8	42	24.5	21

## PRODUCT SUMMARY

- Efficient Multi Room Ventilation Combined With Fresh Air Intake
- Extract Range (Model Dependant) - 226m<sup>3</sup>/h (63 l/s)
- Suitable As Whole House Extract System (BRE Digest 398)
- Twin Speed With Quiet Sound Levels
- Integral Relay For Switching To Boost From Up To 3 (Light) Switches
- Long Life Ball Bearing Motors
- Integral Filters, Blanking Caps and Brackets Included
- 3 Year On-Site Warranty on All Models



## MODELS AVAILABLE

Code	Model
WHS 100B	Central Heat Recovery Unit With Tubular Heat Exchange Matrix - 55% HR Efficiency
WHS 100BSWED	Central Heat Recovery Unit With Aluminium Plate Heat Exchange Matrix - 70% HR Efficiency

## SPECIFICATION OVERVIEW



**SILAVENT TUBULAR MATRIX**  
(Approx 55% Efficiency)

This matrix consists of a number of vacuum formed PVC elements. The matrix enclosure is manufactured from heavy gauge zitec steel and offers an excellent value/efficiency ratio.



**SWEDISH ALUMINIUM PLATE MATRIX**  
(Approx 70% Efficiency)

This matrix comes from Sweden's foremost Heat Exchanger manufacturer. It is built to a very high specification and is one of the most efficient available.

## FAN SPECIFICATION &amp; OPERATION

The Whole House System consists of two injection moulded fan units that feature easily detachable air inlet manifolds/grilles. These give access to the washable fibre air filters.

The motors in the fan units are of two speed external rota type with forward curved impellor blades. The motor runs on ball bearings and are fitted with safety thermal cut-outs. These motors are mounted on heavy gauge steel plates which are, in turn, attached to the fan via four rubber vibration isolation mountings. The motors are controlled by a printed circuit board fitted into one of the fan units. This printed circuit board has surge protection built in.

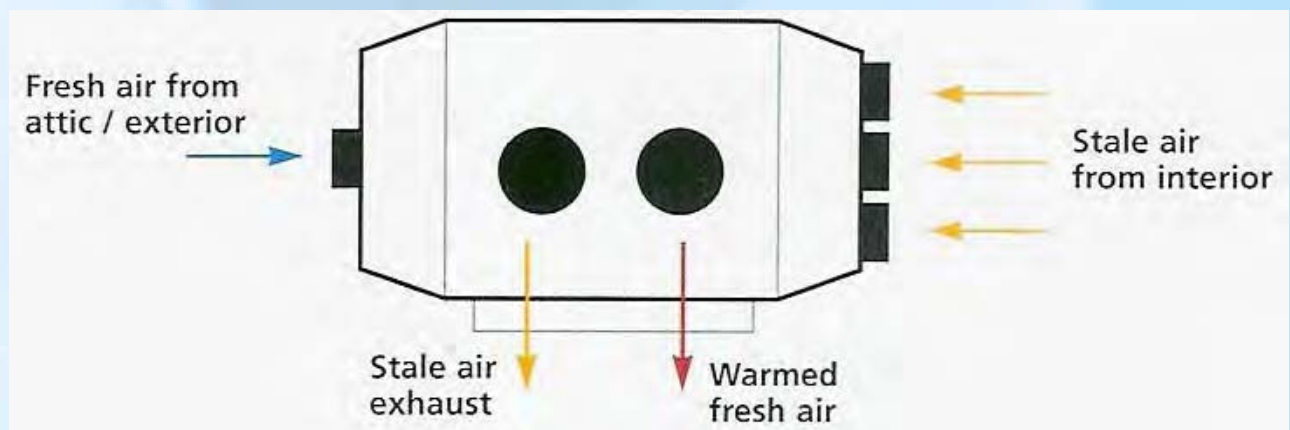
The two fan units are attached to a central chamber that contains the heat exchange matrix. The chamber is precision constructed from heavy gauge zitec steel and is finished in white epoxy powder paint. The chamber has an acoustic foam lining that also functions as a air sealing gasketing. Access to the heat exchange chamber is via a removable top panel which is retained by four M6 screws.

The Whole House System has provision for three extract ducts from the dwelling. The fresh air supply to the dwelling is sourced from the loft or from outside via an optional 100/120mm fresh air intake manifold (WHS 100AIM). Fresh air is delivered to the dwelling via a single 100mm duct outlet. Stale air is discharged via a single 100mm duct outlet.

The Unit may be installed in a horizontal position standing on the supplied vibration isolation pads or fixed to a vertical surface e.g. end gable wall.

The Whole House System is designed to run continuously on low speed and when required can be switched to high speed via any of the three switch live terminals provided. These switch lives can be sourced from room light switches or from a dedicated boost switch. There is an over-run timer built into the control that keeps the fans running at high speed for a pre-set time after the operation boost switch has been turned off. The over-run time period is adjustable.

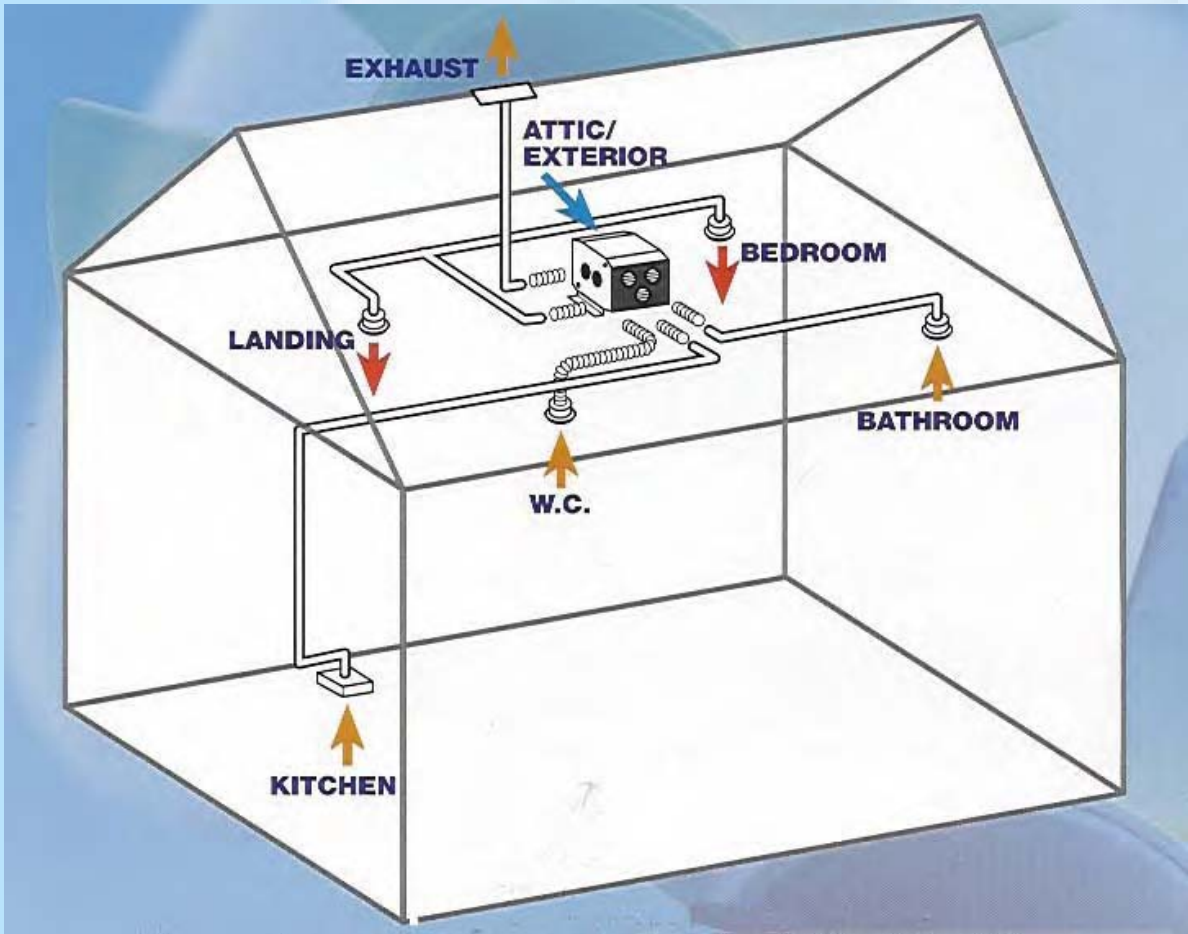
When the system is installed in a dwelling larger than the size that can be complied with under Building Regulation, alternative approach BRE Digest 398, the over-run timer will ensure compliance with Building Regulations as detailed in Document F1 in relation to bathrooms/toilets. In these circumstances, separate kitchen ventilation must be provided.



When the Whole House System is in operation, the warm, stale air is drawn from the dwelling - usually bathrooms, en-suites or kitchens (kitchen extraction often requires filtration). When stale air enters the Whole House Unit, it passes through the extraction filter which helps keep the fan and heat exchange matrix clean.

The fresh air enters the Whole House Unit via the fresh air inlet grille/manifold and passes through the inlet filter so that much of the airborne dust and pollen can be removed. The stale and fresh air then pass through the heat exchange matrix where an amount of heat from the stale air is transferred to the incoming fresh air. The fresh air is then ducted into the dwelling and the stale air is discharged to the outside.

## TYPICAL WHOLE HOUSE SYSTEM INSTALLATION



## ANCILLARIES

Code	Description
FFS 100	Filter Fire Shutter Grille
ANC 505B	100mm Flexible Ducting
ANC 531A	100mm PVC Rigid Ducting
ANC 819A	100mm Adjustable Airvent
ANC 412D	100mm External Grille
ANC 582A	100mm Condensation Trap
WHS 100AIM	100/120mm Fresh Air Supply Manifold



INSTALLING THE FLEXIBLE DUCTING IN LOFT

INSTALLING AN AIRVENT IN THE BATHROOM

