ENERGEX®100 SERIES HRV -- from AVON Electric Ltd

CONTINUOUS VENTILATION WITHOUT OPENING WINDOWS

The perfect HEAT RECOVERY VENTILATOR (HRV) for individual rooms

Ideal for rooms with one or two occupants - eg. Windowless Offices, Doctors, Dentists, Motels, Apartments, Bedrooms, Kitchens, Bathrooms, Caravans, Damp (Drying) Rooms

ENERGEX® installs in **Walls** and **Windows**.
Designed as a "one room" ventilator, in "lightly occupied" locations, its ventilation and dehumidification performance, is suitable for up to approx. 80m/3.

ENERGEX® is a VENTILATOR -- NOT a HEATER. Heat is recovered from stale humid exhaust air, then used to warm incoming cold outdoor air. In winter, warm exhaust air, (from ventilated rooms) is usually available continuously.

ENERGEX® exhausts slightly more stale air than the ***outdoor air*** it supplies, causing a (highly desirable) slightly negative pressure within the ventilated space. The two fans are ultra quiet.

ENX 1002SCP

(Trim Bezel not shown-- see Page 4)

HOW IT WORKS

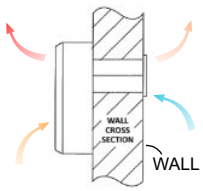
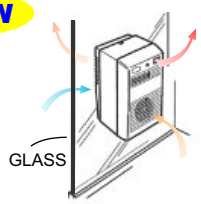
Warm air is DRY AIR. In winter, indoor air is always warmer than outdoor air. The Air to Air Heat Exchanger, within the **ENERGEX®**, collects waste heat from the outgoing stale exhaust air, and transfers that heat to the cold incoming ***outdoor air*** - which then enters the ventilated space, as warm, dry, air.

ENERGEX® is one of the most energy efficient HRV's in its class. A clever feature is that the heat of the fan motor, (up to 35 watts), is also applied to "warm" the incoming, cold, ***outdoor air***.

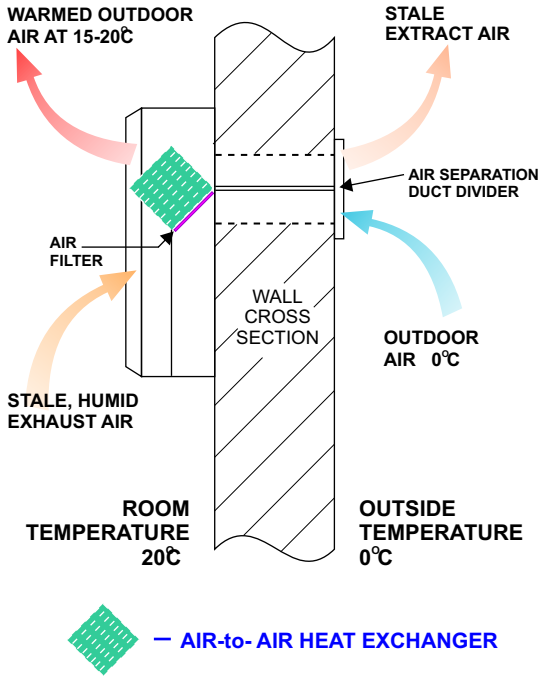
ENERGEX® HRV's have been produced for over 20 years. Every part is **Made in England**. A 35 watt fan motor, (with permanently lubricated ball bearings), drives "backward curved" Intake & Exhaust Fans. Time proven, and cost effective, **ENERGEX®** will deliver years of reliable service. Warranty, Parts and Service, are supported by **Avon Electric Ltd**, (first established 1939). ***AVON's*** experience with HRV's is unmatched **in NZ.** **Avon** introduced plate type HRV's to NZ more than 30 years ago.

INSTALLATION OPTIONS

All **ENERGEX®** models are the same dimensions and suitable for **WALL** or (Single Glazed) **WINDOW** installation. When ordering any **ENERGEX®100** model be sure to specify for WALL or WINDOW so the correct installation kit is supplied. WALL and WINDOW kits include outdoor grille.

INSTALLATION TYPE	DUCT HOLE	INSTALLATION KITSET
WALL 	110mm	ORDER **WALL** INSTALLATION KIT: ENX 100WFK
WINDOW 	120mm	ORDER **WINDOW** INSTALLATION KIT: ENX 100WWK

HOW IT WORKS



WALL
Terminal
Extension Duct
Bezel

WINDOW
Exterior Panel
(No Bezel)

Energex® can be flush mounted when using the wall kit. A trim bezel(see photo page 4) is included with the Wall models to complete the installation. The Wall model includes an air separation duct divider.

Genuine HRV's must have a means to dispose of condensate. **Energex®** HRV is designed to evaporate all condensate into the exhaust air. Thus the **Energex®** HRV can be installed without the need for a condensate drain. **Energex®** is supplied with a washable / reusable air filter acessed by removing front panel.

WARRANTY & PERFORMANCE

WARRANTY :- *2 years Free Service*, plus 3 years parts, (as per detailed Warranty supplied with **ENERGEX®**)

PERFORMANCE :- It is important to appreciate that Bathrooms, Kitchens, Offices etc. may require intermittent ventilation at a rate higher than is possible with the **ENERGEX®100** series HRV, but because ventilation is ***continuous***, **ENERGEX®** (one or more) can be a very cost effective solution, where other systems are either inefficient, too expensive, or difficult to install. Also, because the cold outdoor air has been warmed by recycled waste heat, the incoming outdoor air is DRY, making **ENERGEX®** the perfect solution for small apartments, bedrooms, offices, small drying rooms, toilets, windowless rooms etc.

SILENCE :- On LOW, noise is an incredibly low 15 decibel's (dBA) which, to persons with normal hearing, is "difficult to hear". On HIGH, noise is higher, but still a quiet 35dBA.

MAINTENANCE :- The Air Filter (Grade E2) and the Heat Exchanger are "owner accessible". Remove the front panel, lift out, wash and replace -- approx 3 minutes.

VENTILATION for COMPLIANCE :- Where compliance with Clause G4 (Ventilation) or G6 (Airborne & Impact Sound) **is essential**, **ENERGEX®** **may** be a solution, but we also offer a range of "Trickle Ventilators", UK made **Fresh Flo®** specifically designed for UK Regulations similar to NZBC Para G4 : 1.3.9. Enquire -- 0800-379-247.

The stylish **ENERGEX®** cabinet is high quality moulded ABS Plastic, (white). Wall models include a white ABS (indoor) trim bezel. The wall model can be recessed (*see Dimensions C & D on page 4*).

12 MODELS -- Select for Normal or Wet Areas

ONE SPEED

ENX 100 (Base Model)
Fans operate when switched ON. Install with remote switch (not supplied).
Fans incorporate thermo-actuator operated air inlet and outlet shutters, to prevent backdrafts when OFF - ie. for intermittent operation installations

ENX 100P (Pull Cord)
Fans operate when switched ON. Operated by integral pull cord.
Fans incorporate thermo-actuator operated air inlet and outlet shutters - ie. for intermittent operation installations

ENX 100T (Timer)
Fans operate when switched ON. When the switch is turned OFF, the fans continue to work for a period between 45 seconds and 30 minutes (depending on the over-run timer setting). Fans incorporate thermo-actuator operated air inlet and outlet shutters - ie. for intermittent operation installations

ENX 100HTP (Humidistat, Timer & Pull Cord)
Fans operate when switched ON. When the switch is turned OFF, the fans continue for a period between 45 seconds and 30 minutes (depending on the over-run timer setting). The fans can also be operated by the integral pull cord which enables the fan to run for the time period set on the timer adjustment. If the fans are OFF, the fans can also be switched ON by the integral humidity sensor. Fans incorporate thermo-actuator operated air inlet and outlet shutters - ie. for intermittent operation installations

TWO SPEED

ENX 1002SC (Base Model)
Fans operate via a remote switch (not supplied). The fans will run continuously at LOWER speed and will switch to HIGHER speed when the remote switch is turned ON. Does not incorporate thermo-actuator operated air inlet and outlet shutters

ENX 1002SP (Pull Cord)
Fans operate by the integral pull cord. When the pull cord is operated from the OFF position, the fans will run at the LOWER speed. When the pull cord is operated again, the fans unit will operate at BOOST speed. When the pull cord is pulled again, the fans switch OFF (OFF-LOW-BOOST-OFF). Fans incorporate thermo-actuator operated air inlet and outlet shutters

ENX 1002SCP (Continuous Trickle Pull Cord Boost)
Fans operate via the integral pull cord. The fans will run continuously at LOW speed and will switch to HIGH speed when the pull cord is operated. When the pull cord is operated again, the fans return to the slower speed (LOW). Does not incorporate thermo-actuator operated air inlet and outlet shutters

ENX 1002SHTP (Humidistat & Pull Cord)
Fans operate at high speed when switched ON. When the switch is turned OFF, the fan continues to work for a period between 1 and 30 minutes (depending on the over-run timer setting). The fans can be operated by the integral pull cord which enables the fans to run at HIGH speed for the time period set on the timer adjustment. When OFF, the fans can also be switched ON to the LOWER speed by the integral humidity sensor. This model incorporates thermo-actuator operated air inlet and outlet shutters - ie. for intermittent operation installations

ENX 1002SHB (Continuous Trickle Humidistat Boost)
Fans run continuously at LOW speed and will switch to HIGH speed when the integral humidity sensor detects a significant increase in the level of humidity. This model is fitted with a switch so that boost may be operated independently from the humidity controls when required. Does not incorporate thermo-actuator operated air inlet and outlet shutters

SELV MODELS (Safety Extra-Low Voltage, for Wet Rooms ie Bathroom)

ENX 100LV (Base Model)
Fans operate via 12v transformer and the 12v AC output of the transformer is connected to the fans. Designed to be used with remote switch (not supplied). This model does not incorporate thermo-actuator operated air inlet and outlet shutters

ENX 100LVT (Timer)
Fans operate via 12v transformer and 12v AC output of the transformer is connected to the fans. When the switch is turned OFF, the fans continues to work for a period between 1 minute and 30 minutes (depending on the over-run timer setting). This model does not incorporate thermo-actuator operated air inlet and outlet shutters

ENX 100LVHT (Humidistat & Timer)
Fans operate via 12v transformer and the 12v AC output of the transformer is connected to the fans. When the switch is turned OFF, the fans continues to work for a period between 1 minute and 30 minutes (depending on the over run timer setting). The fans can also be operated by the integral pull cord which enables the fans to run for the time period set on the timer adjustment. When OFF the fans is can be switched ON by the integral humidity sensor This model does not incorporate thermo-actuator operated air inlet and outlet shutters.

Most Popular Model... Always Ex Stock Allow 3-4 Weeks Delivery

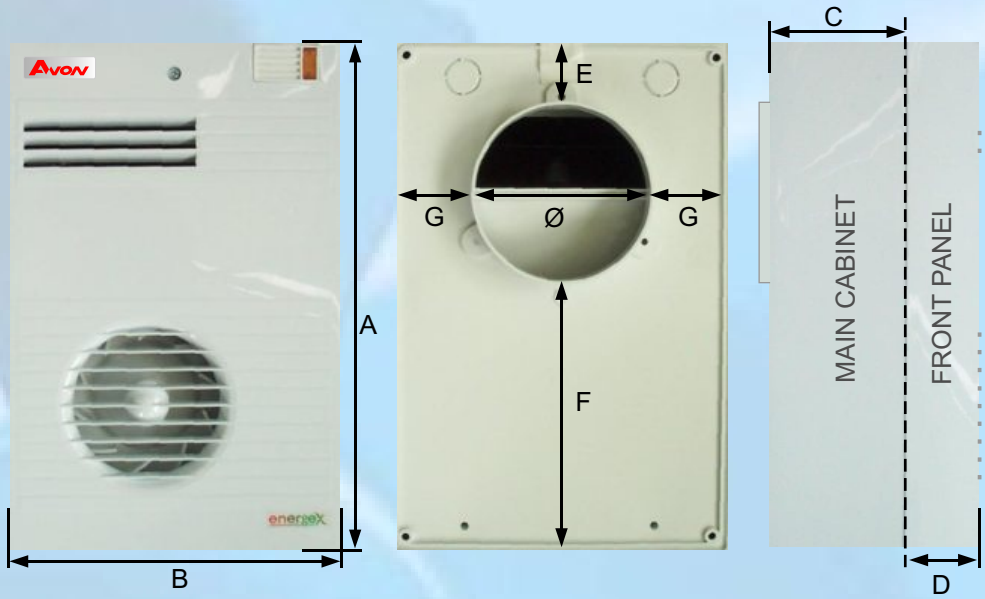
BUILDING and ELECTRICAL CODE COMPLIANCE

NZ Building Code Clause E2 :- Penetration of any wall (or ceiling) may be required to comply with the NZ Building Code, Clause E2. Before making any wall penetration, check compliance. For new projects, call 0800-379-247 for special solutions. (*Be sure to have all details available*)

NZS4303:1990 "Ventilation for Acceptable Indoor Air Quality" :- for compliance with NZS4303 or for any special conditions, consult your supplier. (*Be sure to have all details available*)

ELECTRICAL COMPLIANCE: :- **ENERGEX®100** Series are BEAB approved. Complies with EN60335/1 Pt.1 and EN60335/2/80. All are IP24, and double insulated. SELV (12 Volt) models are suitable for "Wet Areas"

TECHNICAL:- ENERGEX is 100% *Made in England*



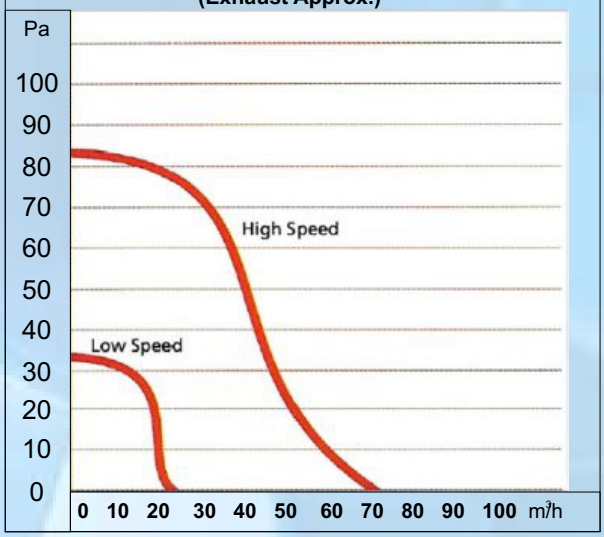
DIMENSIONS (mm)

A : 305
B : 205
C : 75
D : 45
E : 40
F : 163
G : 52.5
Ø : 100 OD

WINDOW MODEL

- For single glazed glass 3-30mm thick
- Hole Dia: 120mm

FAN PERFORMANCE
(Exhaust Approx.)



TECHNICAL DATA

MAINS VOLTAGE MODELS

• Exhaust Volume	:	72 m^3/h (HIGH)
	:	22 m^3/h (LOW)
• Noise	:	35 dB(A)@3m (HIGH)
	:	15 dB(A)@3m (LOW)
• Intake Volume	:	27 m^3/h (HIGH)
	:	9.5 m^3/h (LOW)
• Voltage	:	230-240V AC~
• Frequency	:	50 Hz
• Wattage	:	15~40W
• IP Rating	:	IP24
• Max. Temp.	:	50 °C
• Weight	:	1.8 Kg
• Max. Fan Pressure		84 Pa

All ENERGEX® Models are Double Insulated

ENX 1002SCP
Note: Trim Bezel attached

TECHNICAL DATA

LOW VOLTAGE (SELV) MODELS

• Exhaust Volume	:	70 m^3/h (HIGH)
	:	22 m^3/h (LOW)
• Noise	:	35 dB(A)@3m (HIGH)
	:	15 dB(A)@3m (LOW)
• Intake Volume	:	25 m^3/h (HIGH)
	:	9.5 m^3/h (LOW)
• Voltage	:	12V~42VA
• Frequency	:	50 Hz
• Wattage	:	15~40W
• IP Rating	:	IP24
• Max. Temp.	:	50 °C
• Weight	:	1.8 Kg
• Max. Fan Pressure		84 Pa

All ENERGEX® Models are Double Insulated

Sole Importers

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Your Distributor

'The perfect HEAT RECOVERY VENTILATOR (HRV) for individual rooms'

ENERGEX®100 SERIES HRV

AVON Ref: pdf/silavent/energex brochure