

# DV82 Entro-V

Up to 295 m<sup>3</sup>/h air volume @100 Pa



## KEY FEATURES

- Domestic and residential heat recovery ventilation
- Thermal efficiency capabilities of 85% and above
- Suitable for vertical mounting (kits included as standard)
- Easy filter change with no tools needed
- Choice of spigot locations (top entry as standard)
- Complies with Building Regulations
- SAP recognised and PCDB listed
- 2 year warranty+



The DV82 Entro-V is a compact and efficient top entry MVHR unit, capable of recovering over 85% of the wasted heat.

The unit is made from galvanised steel, white powder coated casing with 20 mm EPP insulation which provides a great level of air tightness, thermal efficiency and sound absorption. DV82 has low energy EC fans with backward curved impellers that minimise the unit's energy consumption with a quiet operation and low specific fan power, achieving an 'A' energy efficiency. The unit has an easy to clean and maintain plastic counterflow heat exchanger which prevents the airstreams from mixing.

In addition, the unit is designed with a double filter facility that comes with two ISO Coarse 55% (G4) filters as standard with an optional ISO ePM1 60% (F7) pollen filter which provides additional protection against invisible, harmful particles creating an ultra-hygienic environment. ISO ePM Coarse 55% (G4) and ISO ePM1 60% (F7) can be used in conjunction with each other on supply air side.

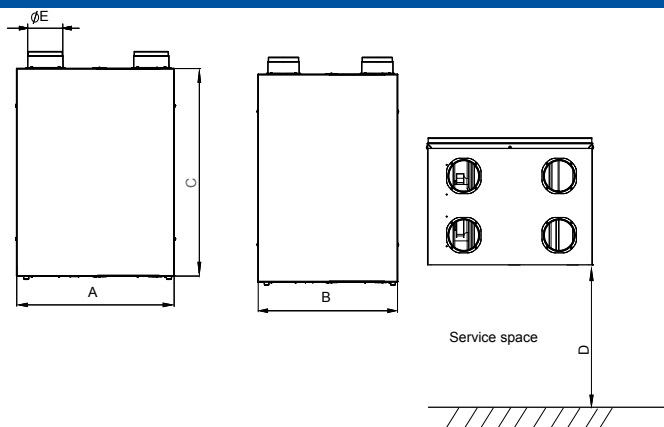


## TECHNICAL DATA

Specification	DV82 Entro-V
Air flow m <sup>3</sup> /h / l/s @100Pa	295 / 83.3
For dwelling floor area up to (m <sup>2</sup> )	184
Reference dwelling	4 / 5 bed house
Thermal efficiency %	83 - 86
Heat exchanger	Counterflow (Plastic)
SEC class	A
Electrical supply	230V / 1ph / 50Hz
Max power consumption (W)	166
Sound level @ 3m (dB(A))	39 - 48
Specific Power Input (SPI) (W/(m <sup>3</sup> /h))	0.27
Fans	EC
Electric heater (optional) (W)	2 x 83
IP classification	IP54
Weight (kg)	50
Dimensions (L x D x H) (mm)	580 x 530 x 795
Controls	4-speed manual controller Optional digital controller
Duct diameter (mm)	160
Condensate discharge (mm)	1/2 inch BSP
Summer Bypass damper	100% Automatic
Frost protection	Yes
Filter class*	ISO Coarse 55% (G4), optional ISO ePM1 60% (F7)
Optional BMS Connectivity	Communication through I2C - Modbus
Casing	Galvanised steel. Powder paint. (20 mm insulation)
Mounting	Wall, Floor
Orientation of unit	Right or Left-handed
Part Number	90001244
EAN	5019009327655

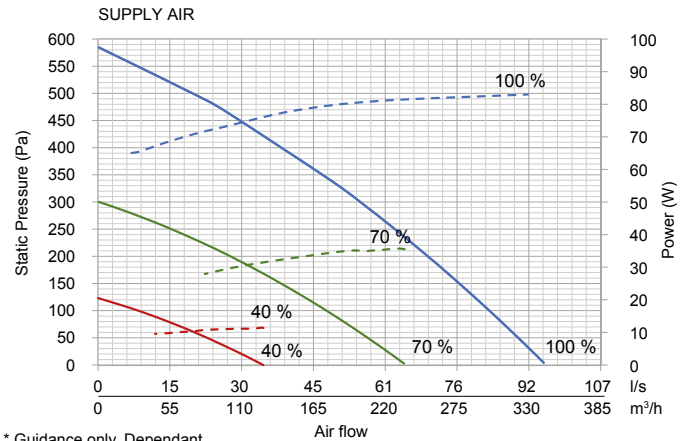
\*Complies with ISO 16890

## DIMENSIONS



Model	A	B	C	D	E
DV82	580	430	795	600	160

## PERFORMANCE



\* Guidance only. Dependent upon system pressure.

## SAP RESULTS

Tested by the BRE (Building Research Establishment) and eligible for the PCDB database. Systems with rigid ductwork only SAP 2005 results

Exhaust terminal configuration	Specific Fan Power (W/l/s)	Thermal efficiency (%)
Kitchen + 1 additional wet room	1.03	79
Kitchen + 2 additional wet rooms	0.89	79
Kitchen + 3 additional wet rooms	0.87	79
Kitchen + 4 additional wet rooms	0.91	80
Kitchen + 5 additional wet rooms	0.99	80
Kitchen + 6 additional wet rooms	1.10	80
Kitchen + 7 additional wet rooms	1.28	80

Systems with rigid ductwork only SAP 2012 results

Exhaust terminal configuration	Specific Fan Power (W/l/s)	Thermal efficiency (%)
Kitchen + 1 additional wet room	0.95	79
Kitchen + 2 additional wet rooms	0.92	80
Kitchen + 3 additional wet rooms	0.98	80
Kitchen + 4 additional wet rooms	1.13	80
Kitchen + 5 additional wet rooms	1.35	80
Kitchen + 6 additional wet rooms	1.64	80

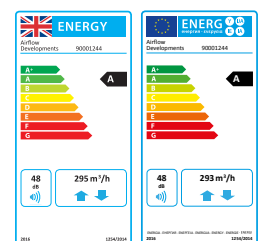
## ACCESSORIES

The following options are available

Accessory	Product Code
Entro-V digital controller	90001299
Entro-V basic controller	90001308
DV82 Entro-V G4(ISO ePM Coarse 55%) filter	90001324
DV82 Entro-V F7(ISO ePM1 60%) filter	90001327
DV65 & DV82 Entro-V heater 0,5 kW	90001335
DV65 & DV82 Entro-V heater 1 kW	90001336
DV65 & DV82 Entro-V heater 1,5 kW	90001337
DV65 & DV82 Entro-V heater 2 kW	90001341

## ErP RATING

The DV82 Entro-V meets requirements set out by the Energy Related Products (ErP) Directive 2016, achieving an A rating. You can find out more about the ErP Directive and find the DV82 Fiche and Label at [www.airflow.com](http://www.airflow.com) Label 90001244

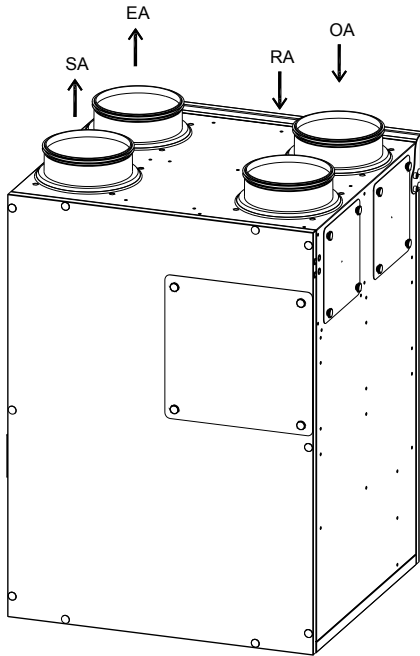


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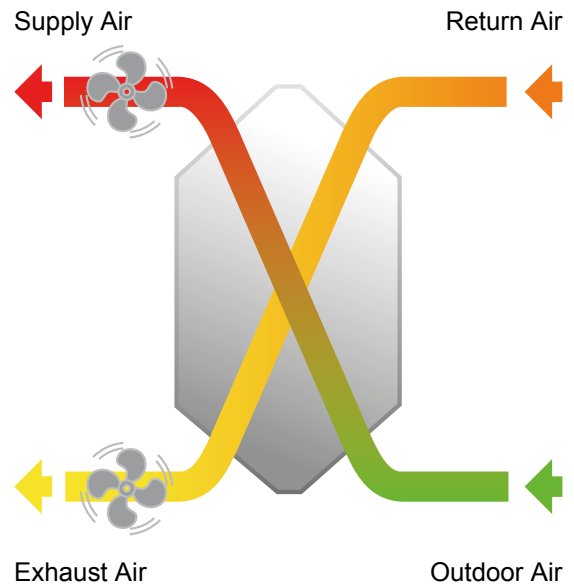
## UNIT CONFIGURATION

The unit is supplied as a right-handed version as standard.



OA = Outside Air  
SA = Supply Air  
RA = Return Air  
EA = Exhaust Air

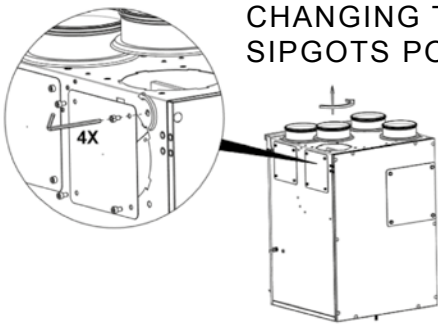
## HEAT EXCHANGER DIAGRAM



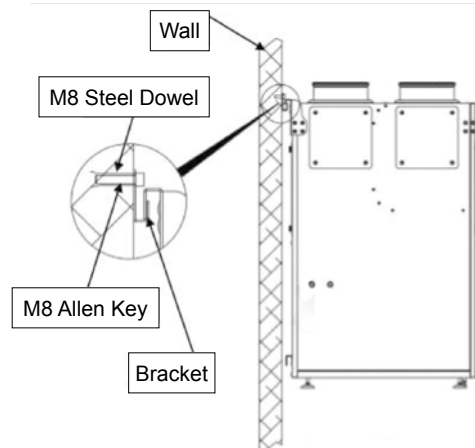
## INSTALLATION

The units can be installed in vertical mounting positions, on the wall or on the floor. Hanging brackets, screws and feet are supplied with the unit. Also, the unit has interchangeability of spigots position from top to the sides.

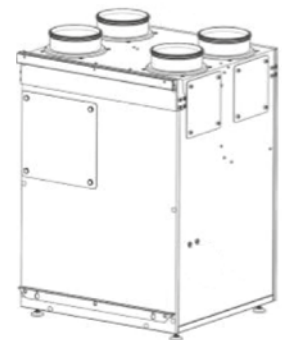
### CHANGING THE SPOGOTS POSITION



### INSTALLATION ON THE WALL



### INSTALLATION ON THE FLOOR



## MODE 1 - Heat recovery mode

Sound Pressure Level @1,5 m  
(%100 fan speed @100Pa external pressure)

Model	dB@ 63Hz	dB@ 125Hz	dB@ 250Hz	dB@ 500Hz	dB@ 1kHz	dB@ 2kHz	dB@ 4kHz	dB@ 8kHz	Total [dBA]
DV82 Entro-V	40,1	42,9	44,7	46,2	44,8	43,9	38,8	14,0	42,9








Sound Pressure Level @3 m  
(%100 fan speed @100Pa external pressure)

Model	dB@ 63Hz	dB@ 125Hz	dB@ 250Hz	dB@ 500Hz	dB@ 1kHz	dB@ 2kHz	dB@ 4kHz	dB@ 8kHz	Total [dBA]
DV82 Entro-V	26,1	28,9	30,7	32,2	30,8	29,9	24,8	10,5	35,9

## CONTROL OPTIONS

The unit can be controlled by one of the following:

- Basic controller
- Digital controller
- Modbus through a PC or a central automated unit
- Additional external sensors achieving on-demand ventilation
- Switched live signal from light/remote switches

	<b>Low fan speed</b> e.g. background ventilation		Control button to increase the fan speed
	<b>Medium fan speed</b> e.g. everyday running rate		Control button to decrease the fan speed
	<b>High fan speed</b> e.g. when cooking or showering		Filter reminder / Error display LED
	<b>Boost</b> increased occupants in dwelling; purging the dwelling		

## BASIC CONTROL

A basic controller compatible with the DV82 Entro-V unit allows multiple standard functions such as:

- 3 fan speed control
- Boost function
- Free cooling via the by-pass actuator
- Frost protection based on input signals from humidity and temperature sensors
- Modbus function
- Faults indicator
- Filter maintenance reminder
- Fire alarm function
- Child-proof protection locks/unlocks the buttons providing extra safety



## DIGITAL CONTROL

A digital controller also provides:

- Optional separate fan control for ease of commissioning
- Weekly ventilation programming allows users to pre-set the ventilation levels scheduled for different days
- Screen brightness and contrast settings
- Optional humidity or air quality sensors enable automatic boost control
- Indoor temperature control based on room, extract or supply air temperature
- Real time performance graphics



## CONTROLS & ACCESSORIES



**DV82 Entro-V Coarse 55% (G4) Filter Set (2 pcs)**  
No: 90002077  
Replacement Coarse 55% (G4) filter for DV82 Entro-V



**DV82 Entro-V ePM1 60% (F7) Filter (1 pc)**  
No: 90001327  
Replacement ePM1 60% (F7) filter for DV82 Entro-V



**Ø160mm x 2M ISO Pipe**  
No: 90000465  
Ø160mm x 2M insulated duct length with male connector



**Ø160mm 90° ISO Bend**  
No: 90000467  
Ø160mm 90° insulated duct bend with a male connector

Others products available from [airflow.com](http://airflow.com)

Call: 01494 525252

Visit: [airflow.com](http://airflow.com)



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