

# Duplexvent DV72 EC

So light, so slim it fits inside a 600mm cupboard

SAP APPENDIX Q ELIGIBLE BEST PRACTICE RATED

**Duplexvent DV72 EC MVHR** is designed to provide constant volume ventilation levels to exceed the latest **Building Regulations 2010**.

The DUPLEXVENT series recovers warmth from extracted air which would otherwise go to waste, filters it and returns it to the building mixed with incoming fresh air. Compact and lightweight, it is quick and easy to install inside a cupboard or in the loft.

The unit is controlled by a three speed manual switch with two additional remote sensor inputs available for "On Demand" activation by (optional) Humidity, CO<sub>2</sub>, Timer or Motion sensors. All air flow rate settings are 100% variable on installation to suit dwelling requirements.

## Key Features

- Exceptional Heat Recovery efficiency up to 91%
- Low energy EC motors, therefore low SFP values
- Extracts up to 280 m<sup>3</sup>/hr
- 2 year warranty – upgraded to 3 years on-line
- Fits inside a 600mm kitchen cupboard

## Application

For use in residential flats and houses.

## DV72 EC

Part No: 9041322

5 speed controller included



DV72 ventilation units with heat recovery incorporate state-of-the-art lightweight composite exchanger technology.

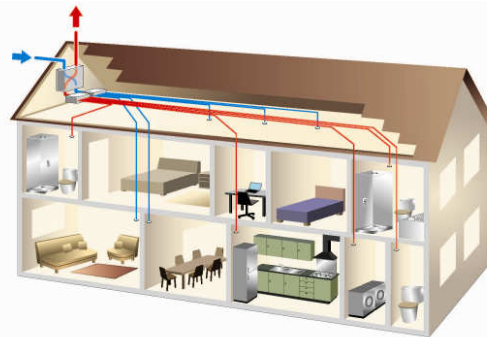
Designed to provide both essential ventilation in increasingly air tight homes and to save money through its intelligent heat recovery system, they are a cost effective and environmentally friendly option for residential applications

## Features:

- Saves energy, improves indoor climate
- Up to 91% heat recovery
- Compact, lightweight, one-man installation
- Fits a standard 600mm wide cupboard or in loft/basement
- Mounts vertically only
- High efficiency polypropylene counter flow exchanger
- Complete with EU3 supply and extract air filters
- Easy access to washable filters
- Five air flow settings up to a maximum of 280 m<sup>3</sup>/hr
- Two year warranty upgradeable to three years on-line.

*A unit providing both superior ventilation and excellent heat recovery of up to 91%...*

## Duplexvent DV72 EC



For more information please visit [airflow.com](http://airflow.com) or email us at [info@airflow.com](mailto:info@airflow.com) or call 01494 560800

**SAP Appendix Q Testing Results**  
**Central mechanical supply and exhaust ventilation system**  
**packages with heat recovery used in a single dwelling**

<b>Brand Name</b>		Airflow
<b>Model</b>		Duplexvent DV72
<b>Model Qualifier (if applicable)</b>		
<b>Current Manufacturer and Contact Details</b>	<b>Name</b>	Airflow Developments Ltd
	<b>Address</b>	Lancaster Road Cressex Business Park High Wycombe HP12 3QP
	<b>Telephone</b>	01494 525252
	<b>Website</b>	www.airflow.co.uk
<b>Original Manufacturer (if different)</b>		
<b>First Year of Manufacture</b>		2010
<b>Last Year of Manufacture</b>		
<b>Testing Body</b>		BRE
<b>Date of test</b>		22/03/2010
<b>Serial Number of Product Tested</b>		5780 EC
<b>MVHR to outside grille duct types and size</b>		150 & 125 mm diameter rigid plastic and 200 mm diameter rigid plastic
<b>Duct types and sizes used for supply and exhaust</b>		150 & 125 mm diameter rigid plastic and 200 mm diameter rigid plastic

For more information please visit [airflow.com](http://airflow.com) or email us at [info@airflow.com](mailto:info@airflow.com) or call 01494 560800

**Results of leakage tests**

**Table Q1**

<b>Internal</b>	<b>Pass</b>
<b>External</b>	<b>Pass</b>

**Results for SAP calculations (at minimum flow rate condition)**

This product has only been tested with rigid ductwork and the data are not applicable for SAP calculations if installed with flexible ductwork.

**Table Q2 – Systems with rigid ductwork only**

Exhaust terminal configuration	Fan speed setting	Specific fan power (W/l/s)	Heat exchange efficiency (%)	Energy Saving Trust Best Practice Performance Compliant
Kitchen + 1 additional wet room	100% Variable	<b>0.73</b>	<b>91</b>	Yes
Kitchen + 2 additional wet rooms	100% Variable	<b>0.72</b>	<b>90</b>	Yes
Kitchen + 3 additional wet rooms	100% Variable	<b>0.79</b>	<b>89</b>	Yes
Kitchen + 4 additional wet rooms	100% Variable	<b>0.93</b>	<b>88</b>	Yes
Kitchen + 5 additional wet rooms	100% Variable	<b>1.06</b>	<b>87</b>	No

For more information please visit [airflow.com](http://airflow.com) or email us at [info@airflow.com](mailto:info@airflow.com) or call 01494 560800



Standard Assessment Procedure – Appendix Q MVHR Product Data 07/04/2010

These figures are entered into either:

- (a) In the case of SAP software amended to SAP 2005 version 9.81 allowing direct entry of MVHR data, the SAP software, or
- (b) In the case of SAP software amended to SAP 2005 version 9.81 not allowing direct entry of MVHR data, the SAP Q MVHR Calculation Spreadsheet v9.81 and the results from the spreadsheet into the Special Features part of the SAP 9.81 software, or
- (c) In the case of SAP software to SAP 2005 version 9.80 , the SAP Q MVHR Calculation Spreadsheet v9.80 and the results from the spreadsheet into the Special Features part of the SAP 9.80 software. They must **NOT** be entered directly into SAP 2005 version 9.80 software

**Table Q3** – Systems with **flexible** ductwork only

Exhaust terminal configuration	Fan speed setting	Specific fan power (W/l/s)	Heat exchange efficiency (%)	Energy Saving Trust Best Practice Performance Compliant
Kitchen + 1 additional wet room	N/A	N/A	N/A	N/A

These figures are entered into either:

- (a) In the case of SAP software amended to SAP 2005 version 9.81 allowing direct entry of MVHR data, the SAP software, or
- (b) In the case of SAP software amended to SAP 2005 version 9.81 not allowing direct entry of MVHR data, the SAP Q MVHR Calculation Spreadsheet v9.81 and the results from the spreadsheet into the Special Features part of the SAP 9.81 software, or
- (c) In the case of SAP software to SAP 2005 version 9.80 , the SAP Q MVHR Calculation Spreadsheet v9.80 and the results from the spreadsheet into the Special Features part of the SAP 9.80 software. They must **NOT** be entered directly into SAP 2005 version 9.80 software

For more information please visit [airflow.com](http://airflow.com) or email us at [info@airflow.com](mailto:info@airflow.com) or call 01494 560800



**Results for Approved Document F (at maximum flow rate condition)**

**Table Q4**

Exhaust terminal configuration	Fan speed setting	Total exhaust flow rate (l/s)	Total supply flow rate (l/s)
Kitchen + 1 additional wet room	100% Variable	15.0	15.0
Kitchen + 2 additional wet rooms	100% Variable	21.0	21.0
Kitchen + 3 additional wet rooms	100% Variable	27.0	27.0
Kitchen + 4 additional wet rooms	100% Variable	33.0	33.0
Kitchen + 5 additional wet rooms	100% Variable	39.0	39.0

**Comments**

Only figures from Table Q2 or Table Q3, not both, should be used with the SAP Q Calculation Spreadsheet for this technology type.

Table Q4 results are only applicable for Approved Document F requirements.

For more information please visit [airflow.com](http://airflow.com) or email us at [info@airflow.com](mailto:info@airflow.com) or call 01494 560800



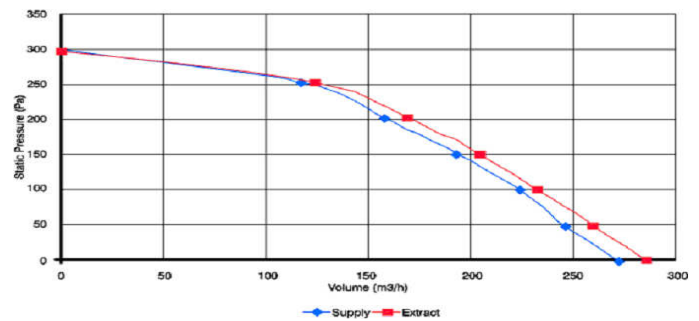
## Duplexvent DV72 EC

### Why Ventilate?

With dwellings becoming evermore airtight the need to provide fresh filtered air becomes even more critical.

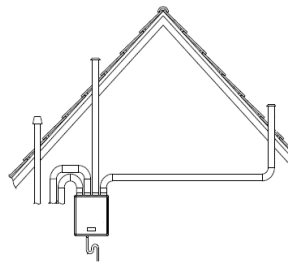
They help combat the harmful effects of dampness and condensation and extracts airborne pollutants such as odour, cooking smells, humid and stale air. The potential hazards to health for occupants and possible damage to the fabric of the building can be largely eliminated.

### Performance Curve

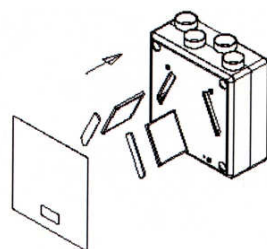


<b>Model</b>	DV72 EC	
<b>Flow rate (m³/hr)</b>	<b>Maximum</b>	280
	<b>Speed 1,2,3</b>	100% variable. Set upon installation. Manual control
	<b>Speed 4,5</b>	100% variable. Remote sensor input. Set upon installation
<b>Control</b>	5-speed controller (included)	
<b>Fan Input (W)</b>	Maximum	
<b>Electrical Supply</b>	230v / 1PH / 50Hz	
<b>Heat Exchanger</b>		
<b>CR-Cross Flow</b>		
<b>CO-Counter Flow</b>	CO	
<b>Heat Recovery</b>	91%	
<b>Supply Air Filter</b>	EU 3	
<b>Extract Air Filter</b>	EU 3	
<b>Duct Connections x4</b>	125 mm Ø	
<b>Weight (kg)</b>	14	
<b>Rating</b>	IPX2	
<b>Overall Dimensions</b>		
<b>H x W x D mm</b>	635 x 560 x 260	
<b>SAP APPENDIX Q ELIGIBLE</b>	✓	

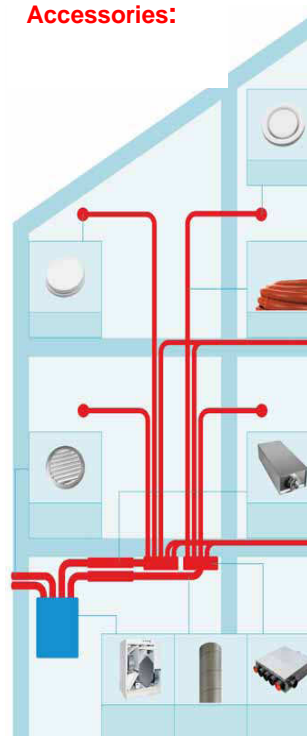
### Typical Application



Simple filter replacement for easy maintenance...



### Recommended Accessories:



#### Airflex Pro

- Flexible ducting for air distribution from and to all rooms.
- Zero leakage ensures performance.
- Save up to 70% on installation time.
- Robust and flexible.
- Smooth bore for hygiene and easy cleaning.
- Very low noise transmission between rooms.
- Highly efficient, connects each room individually.
- Compact, suits narrow joists and/or screeded floors.
- Constant air distribution throughout.

#### Airflex ISO

- Insulated round ducting.
- Quick and easy assembly.
- Pre-Insulated one-piece.
- Tough, durable, anti-static EPP-foam.
- Fire retardant to B2
- Sound absorbing, smooth bore pipe
- Avoids condensation build up.
- Choice of components to suit any layout.
- Compatible with *Airflex Pro* air distribution box.

For more information please visit [airflow.com](http://airflow.com) or email us at [info@airflow.com](mailto:info@airflow.com) or call 01494 560800