

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, CO₂, 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 m³/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.

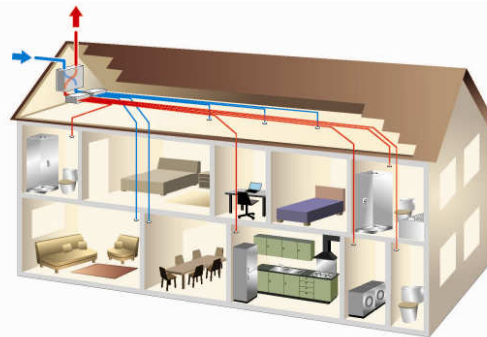
Designed to provide both essential ventilation in increasingly air tight homes and to save money through its intelligent heat recovery system, they are a cost effective and environmentally friendly option for residential applications

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 m³/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



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

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

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Results of leakage tests

Table Q1

Internal	Pass
External	Pass

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	0.73	91	Yes
Kitchen + 2 additional wet rooms	100% Variable	0.72	90	Yes
Kitchen + 3 additional wet rooms	100% Variable	0.79	89	Yes
Kitchen + 4 additional wet rooms	100% Variable	0.93	88	Yes
Kitchen + 5 additional wet rooms	100% Variable	1.06	87	No

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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
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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.

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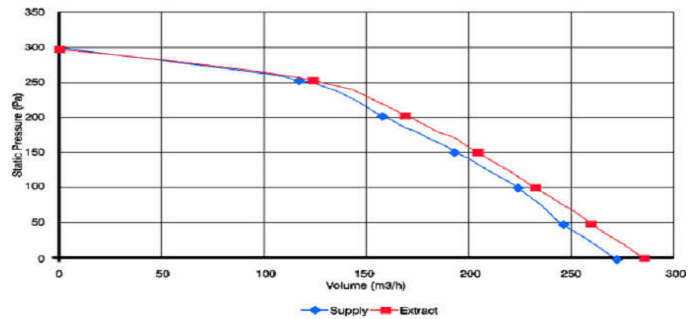
Duplexvent DV72 EC

Why Ventilate?

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

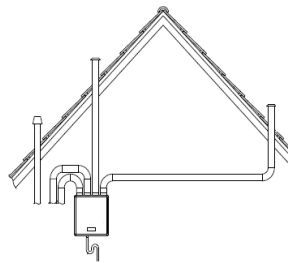
They help combat the harmful effects of dampness and condensation and extracts airborne pollutants such as odour, cooking smells, humid and stale air. The potential hazards to health for occupants and possible damage to the fabric of the building can be largely eliminated.

Performance Curve

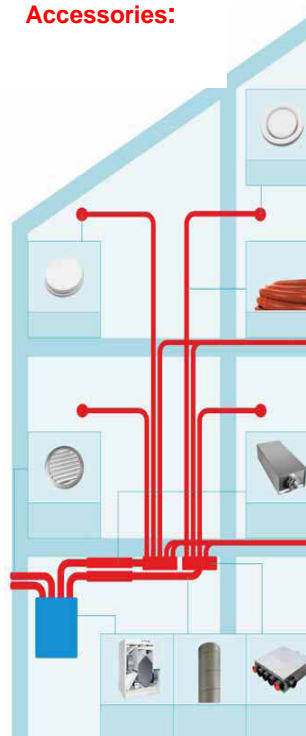


Model	DV72 EC	
Flow rate (m³/hr)	Maximum	280
	Speed 1,2,3	100% variable. Set upon installation. Manual control
	Speed 4,5	100% variable. Remote sensor input. Set upon installation
Control	5-speed controller (included)	
Fan Input (W)	Maximum	
Electrical Supply	230v / 1PH / 50Hz	
Heat Exchanger		
CR-Cross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

Typical Application



Recommended Accessories:



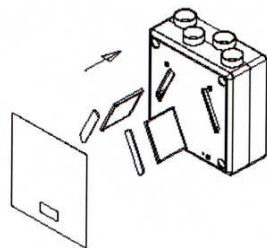
Airflex Pro

- 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.

Simple filter replacement for easy maintenance...



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