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Airflow 90001654

Airflow DV65 ENTRO-V Mechanical Ventilation Heat Recovery Unit

User Manual

1. Introduction

This manual provides essential information for the safe and efficient installation, operation, and maintenance of your Airflow DV65 ENTRO-V Mechanical Ventilation Heat Recovery (MVHR) Unit. Please read this manual thoroughly before attempting any installation or operation.

The Airflow DV65 ENTRO-V is designed to provide balanced ventilation with heat recovery for residential dwellings, ensuring a continuous supply of fresh, filtered air while recovering heat from extracted air, thereby improving indoor air quality and energy efficiency.



Figure 1: Airflow DV65 ENTRO-V Mechanical Ventilation Heat Recovery Unit.

2. Safety Information

Always adhere to local regulations and building codes during installation. Installation should only be performed by qualified personnel.

- Disconnect power before performing any maintenance or service.
- Ensure proper grounding of the unit.
- Do not block air inlets or outlets.

- Keep children and pets away from the unit during operation and maintenance.
- Use only genuine Airflow replacement parts and accessories.

3. Package Contents

Verify that all components listed below are present and undamaged before beginning installation. Contact your supplier immediately if any items are missing or damaged.

- DV65 Entro V Unit (1)
- 160 MM ISO PIPE CONNECTOR PLASTIC (6)
- ENTRO-V BASIC CONTROLLER (1)
- AIRFLEXPRO ROUND CLIPS PK10 (RED) (3 packs)
- 125 MM PLASTIC ADJUSTABLE EXTRACT VALVE (3)
- 160 MM TO 125 MM METAL PIPE CONNECTOR (MALE WITH SEAL TO FEMALE) (2)
- 78 MM 90º CEILING/WALL PLENUM (6)
- 6-PORT IN LINE DIST FLAT BOX (2)
- 160 MM 45º ISO PIPE BEND (2)
- 160 MM STAINLESS STEEL ROUND COWL WITH MESH (2)
- 75 MM CONNECTOR (2)
- 160 MM X 2 M ISO PIPE (3)
- 160 MM 90º ISO PIPE BEND (5)
- 150 MM / 6 IN ADJUSTABLE 60 - 325 MM CLAMP (4)
- 75 MM X 50 M ROUND AIRFLEXPRO COIL (2)
- 75 MM PIPE SEALING RING (PACK OF 10) (4 packs)
- 125 MM PLASTIC ADJUSTABLE SUPPLY VALVE (3)
- Hanging brackets, screws, and feet (supplied with unit)



Figure 2: Overview of the Airflow DV65 ENTRO-V MVHR kit components.



Figure 3: Example of AirflexPro Round Coil included in the kit.



Figure 4: ENTRO-V Basic Controller.

4. Setup and Installation

The DV65 Entro V unit is suitable for dwelling floor areas up to 116m². It can be installed in vertical mounting positions, either on the wall or on the floor. The unit supports both left- and right-hand configurations. Ensure adequate space for maintenance and filter changes.

4.1 Unit Placement

Choose a location that is easily accessible for maintenance and where noise levels will not be an issue. The unit is supplied with hanging brackets, screws, and feet for flexible installation.

4.2 Ductwork Installation

Proper ductwork design and installation are crucial for optimal performance. Use insulated ducting to minimize heat loss/gain and condensation. The unit has interchangeability of spigots position from top to the sides for flexible duct connection.

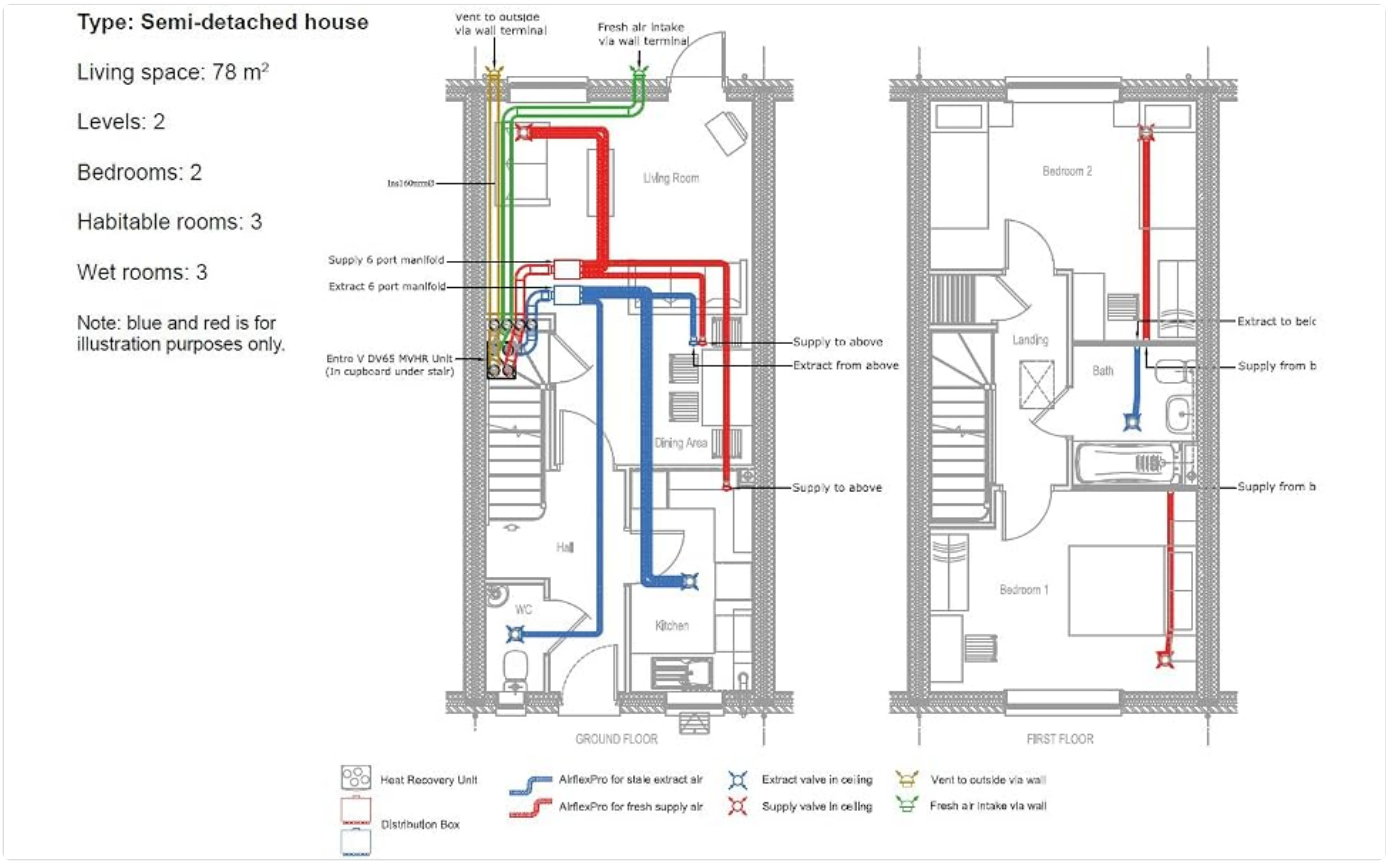


Figure 5: Example of a typical MVHR system layout for a semi-detached house. Blue and red lines are for illustration purposes only,

- Connect the supply air ducts from the unit to the supply valves in habitable rooms (e.g., bedrooms, living room).
- Connect the extract air ducts from the unit to the extract valves in wet rooms (e.g., bathrooms, kitchen, utility).
- Ensure all connections are sealed to prevent air leakage.
- Install external grilles for fresh air intake and stale air exhaust.

4.3 Electrical Connection

Electrical wiring should be carried out by a qualified electrician in accordance with all relevant national and local regulations. The unit requires a permanent mains power supply.

- Connect the unit to the mains power supply as per the wiring diagram provided with the unit.
- Connect the basic controller to the unit.

5. Operating Instructions

The DV65 ENTRO-V unit is designed for continuous operation to maintain optimal indoor air quality. The basic controller allows for adjustment of fan speeds and modes.

5.1 Basic Controller Functions

Refer to the controller image (Figure 4) for button layout.

- **On/Off:** Press to turn the unit on or off.
- **Fan Speed Adjustment:** Cycle through available fan speeds (e.g., low, medium, high) to adjust ventilation rates.
- **Boost Mode:** Activate boost mode for increased ventilation, typically used during cooking or showering. The unit will return to the previous setting after a set period.
- **Filter Indicator:** An indicator light will illuminate when filters require cleaning or replacement.

For detailed programming and advanced features, consult the separate controller manual if provided.

6. Maintenance

Regular maintenance ensures the longevity and efficient operation of your MVHR unit. Always disconnect power before performing any maintenance.

6.1 Filter Cleaning and Replacement

The unit comes with 2x ISO ePM Coarse 55% (G4) filters as standard, with an extra supply air filter location for an optional ISO ePM1 60% (F7) filter.

- **Frequency:** Check filters every 3 months, or more frequently in dusty environments. Clean or replace as indicated by the controller or visual inspection.
- **Procedure:**
    1. Switch off and disconnect the unit from the mains power supply.
    2. Open the access panel on the unit.
    3. Carefully remove the dirty filters.
    4. Clean G4 filters by vacuuming or washing with warm water (allow to dry completely before re-inserting). F7 filters are typically disposable and should be replaced.
    5. Insert clean or new filters, ensuring they are correctly oriented.
    6. Close the access panel and reconnect power.

6.2 Heat Exchanger Cleaning

The heat exchanger may require cleaning periodically (e.g., annually) depending on air quality and filter maintenance. Consult a qualified technician for this procedure if unsure.

6.3 Ductwork Inspection

Periodically inspect ductwork for blockages, damage, or excessive dust accumulation. Clean as necessary to maintain airflow.

7. Troubleshooting

This section provides solutions to common issues. For problems not listed here, contact Airflow customer support or a qualified technician.

Problem	Possible Cause	Solution
Unit not operating	No power supply; Unit switched off; Faulty wiring.	Check power connection and circuit breaker; Ensure unit is switched on at the controller; Contact a qualified electrician.
Reduced airflow	Clogged filters; Blocked ducts; Fan malfunction.	Clean or replace filters; Inspect and clear ductwork; Contact customer support.
Increased noise	Dirty fan blades; Loose components; Improper installation.	Clean fan blades (if accessible and safe); Check for loose parts and secure them; Ensure unit is properly mounted; Contact customer support if noise persists.
Condensation around unit/ducts	Insufficient duct insulation; High humidity.	Ensure all ductwork is adequately insulated; Check humidity levels in the dwelling.

8. Specifications

Feature	Detail
Model Name	DV65 ENTRO-V Mechanical Ventilation Heat Recovery unit with Kit
Item Model Number	90001654
Manufacturer	Airflow
Product Dimensions	58 x 43 x 43 cm
Item Weight	125 kg
Colour	White
Installation Method	Wall/Floor Mounted
Max Air Flow Rate	242 m^3/h (67.2 l/s) @100Pa
Thermal Efficiency	Up to 85%
Filter Type	2x ISO ePM Coarse 55% (G4) as standard, optional ISO ePM1 60% (F7)
Control Method	Touch (via Basic Controller)
Suitable Dwelling Area	Up to 116 m^2

9. Warranty and Support

The Airflow DV65 ENTRO-V unit comes with a full warranty. Please retain your proof of purchase for warranty claims.

For technical support, spare parts, or warranty inquiries, please contact Airflow customer service. Contact details can typically be found on the manufacturer's website or your purchase documentation.

Manufacturer: Airflow

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