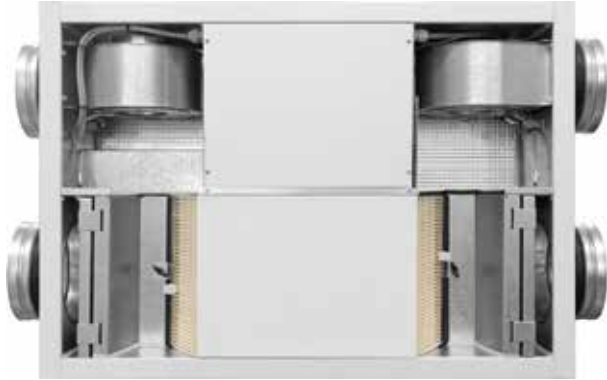


DV170 / DV370 / DV570 Adroit Pro

Premium Side Entry MVHR Unit



KEY FEATURES

- For use in dwellings up to 250 m²*
- 3 models (side entry) up to 570 m³/h at 100Pa
- Plastic counterflow heat exchanger
- Up to 95% thermal efficiency and low SFP
- A+ energy rating
- Sandwich casing construction with 30mm thermal insulation
- Automatic, 100% summer bypass
- Versatile design (automatic switch between right / left configurations)
- Two types of control systems available
- Optional constant flow / pressure function
- Optional pre or post-heater
- Complies with Building Regulations and ErP standards
- 5 year warranty+

Adroit Pro DV170 / DV370 / DV570

The DV170, DV370 and DV570 Adroit Pro are highly efficient side entry Mechanical Ventilation with Heat Recovery (MVHR) units that can ventilate up to 570 m³/h. They are ceiling mounted unit and are delivered complete with a full condensate drain kit.

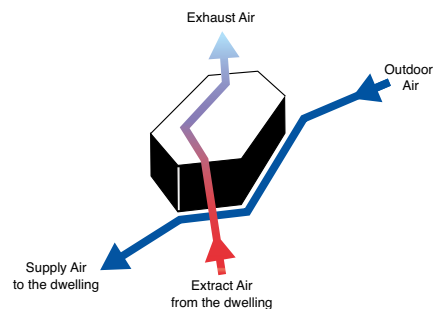
The Adroit Pro is made with galvanised steel, double skin casing with 30 mm thick insulation to eliminate thermal bridging and minimise noise levels.

These Adroit Pro units include an easily removable, plastic heat exchanger that can recover up to 95% of otherwise wasted heat. This recovered heat is transferred to the incoming supply air before it is filtered and supplied to the dwelling, which can reduce ongoing heating bills of the property. At no point do the airstreams mix.



100% AUTOMATIC BYPASS

The unit is equipped with an automatic, 100% bypass which totally isolates the heat exchanger so that no air passes through it. This prevents overheating the dwelling in the summer season.

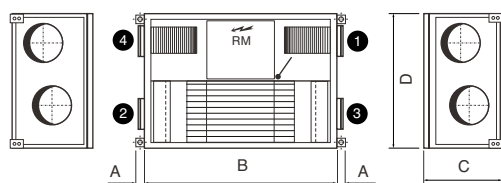


TECHNICAL DATA

Specification	DV170 Adroit Pro	DV370 Adroit Pro	DV570 Adroit Pro
Suitable for dwellings up to m ₂	100	170	250
Max air flow (m ³ /h) / (l/s) at 100Pa.	175 / 49	370 / 103	570 / 158
Thermal efficiency (%)	94	95	94
Heat exchanger	Counterflow (Plastic)	Counterflow (Plastic)	Counterflow (Plastic)
Fans	EC	EC	EC
Summer bypass damper	100% automatic	100% automatic	100% automatic
Frost protection	Reducing supply air	Reducing supply air	Reducing supply air
Controllers	Touch or Rotary	Touch or Rotary	Touch or Rotary
Connection to BMS*	Modbus (TCP / IP)	Modbus (TCP / IP)	Modbus (TCP / IP)
Mounting	Ceiling	Ceiling	Ceiling
Sound Power Level (dB(A))	37	38	42
Duct Diameter (mm)	160 (4 ports)	200 (4 ports)	250 (4 ports)
Condensate discharge (mm)	16 (2 drain options available)	16 (2 drain options available)	16 (2 drain options available)
Electrical supply	230 V / 1 ph / 50 Hz	230 V / 1 ph / 50 Hz	230 V / 1 ph / 50 Hz
Max. Power Consumption (W)	79	167	313
Filter Class**	2x Coarse 60% (G4) [optional ePM1 55% (F7)]	2x Coarse 60% (G4) [optional ePM1 55% (F7)]	2x Coarse 60% (G4) [optional ePM1 55% (F7)]
Built-in Electric pre-heater (optional) (W)	650	990	1300
Ducted Electric pre-heater (optional) (W)	900 / 1500	2100	3000
Built-in Electric post-heater (optional) (W)	250	500	500
Ducted Electric post-heater (optional) (W)	900 / 1500	1500	3000
Protection class	IP34	IP34	IP34
Casing insulation (mm)	30	30	30
Weight (kg)	39	58	72
Dimensions (L x D x H) (mm)	840 x 655 x 290	1116 x 930 x 290	1290 x 930 x 370
Duct Entry	Side Entry	Side Entry	Side Entry
Versions available			
Adroit Pro Web with Touch controller	90000638	90000639	90000640
Adroit Pro Web with Rotary controller	90000681	90000684	90000708
Adroit Pro Basic with Touch controller	90000682	90000685	90000666
Adroit Pro Basic with Rotary controller	90000683	90000686	90000784

*Only for units with Adroit Pro Web control system
**Complies with ISO 16890

DIMENSIONS



Right hand connections

1. Supply air to rooms
2. Outdoor air to the unit
3. Extract air to the unit
4. Exhaust air outside

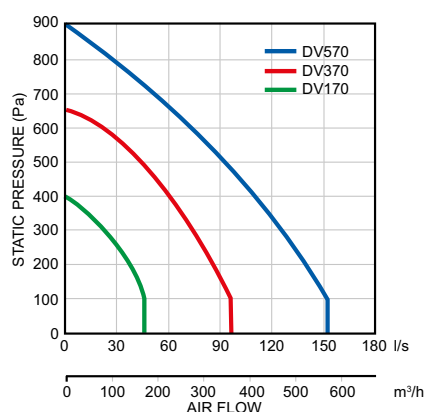
Left hand connections

1. Exhaust air outside
2. Extract air to the unit
3. Outdoor air to the unit
4. Supply air to rooms

+excludes motors. Motor warranty one year from date of purchase.

Model	A	B	C	D
DV170 Adroit Pro (mm)	60	840	290	655
DV370 Adroit Pro (mm)	60	1116	290	930
DV570 Adroit Pro (mm)	60	1290	370	930

PERFORMANCE



* Guidance only. Dependant upon system pressure.

ACCESSORIES

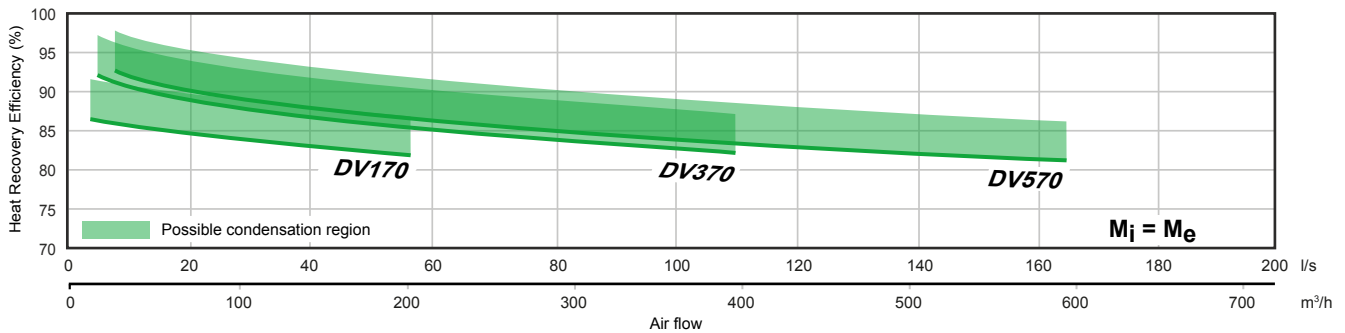
See Duplexvent accessories for more details.



DV170 / DV370 / DV570 Adroit Pro

Premium Side Entry MVHR Unit

PERFORMANCE



CONTROLS

There are two types of control systems available for Adroit Pro units:

- Adroit Pro Web control system, which is internet and BMS capable solution to meet requirements of the most advanced systems.
- Adroit Pro Basic control system, which is simpler solution for controlling the basic functions of the unit.

Adroit Pro Web control system

Main features:

- Two types of controllers available: Touch or Rotary controller
- Internet connectivity which enables unit control and monitoring from a remote location via laptop, tablet or smart phone
- BMS connection
- Daily / Weekly programme setting
- Automatic boost function with timer delay (via volt-free contact or 0-10V sensor output)
- Automatic frost protection reduces the supply ventilation rate for a certain period to prevent ice build-up within the heat recovery cell depending on the outside air temperature
- Automatic, 100% summer bypass prevents overheating the dwelling in summer season.
- Demand ventilation via CO₂, humidity and air quality sensors
- Versatile design (automatic switch between right / left configurations)
- Zonal ventilation control
- Constant flow / pressure control
- Heater control for pre or post-heater
- Filter monitoring and alert via pressure sensors



WB1 Touch controller



WB2 Rotary controller



Adroit Pro Basic control system

Main features:

- Two types of controllers available: Touch or Rotary controller
- Automatic or manual mode
- Analogue signal 0-10V (RH%, air quality sensors)
- Automatic frost protection reduces the supply ventilation rate for a certain period to prevent ice build-up within



BC1 Touch controller



BC2 Rotary controller

the heat recovery cell depending on the outside air temperature

- Automatic, 100% summer bypass prevents overheating the dwelling in summer season
- Heater control for pre or post-heater
- Filter change reminder

INTERNET CONNECTION*

Adroit Pro units incorporate an Internet server to provide a connection between the ventilation unit and the internet via a standard plug and play Ethernet cable.

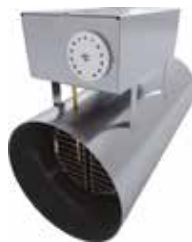
This allows you to monitor and control the unit from a laptop, tablet or smartphone via internet or local area network. The unit can be also monitored remotely by technical service which saves time and cost on service processes.

*Only for units with Adroit Pro Web control system



HEATERS

The new generation PTC (Positive Temperature Coefficient) electric heater incorporates a power adjustment facility which automatically increases/decreases the power based on the air volume going through the heater hence shortens the heating response.



Also the heater has two protection thermostats and a perforated metal filter which can easily be maintained via the inspection door. This significantly increases its life span especially when the heater is installed on the outdoor air side for frost protection purposes. Alternatively it can be used as post-heater to achieve the required indoor air temperature.

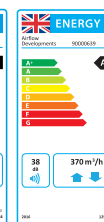
CERTIFICATION

All Adroit Pro units meet the requirements set out by the Energy Related Products (ErP) Directive 2016, achieving an A+ rating. You can find out more about the ErP Directive at: www.airflow.com

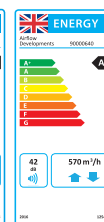
DV170



DV370



DV570



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