

# Flow MANHATTAN®



*A revolutionary point-wise HRV installed 'under the skin' in the wall insulation*

**Flow Manhattan reinvents point-wise ventilation** for individual environments, offering designers and buyers a solution in which **the HRV unit is camouflaged in the external wall insulation.**

The air flow grilles, fixed to the face of the window hole edge, are designed to protect the architectural profile of the building and **do not visually impact the facade. The internal impact is also minimal**, thanks to a diffuser with a particularly compact design. The intake and extraction air flows, separated by a special septum, pass through a **single 160 mm core.**

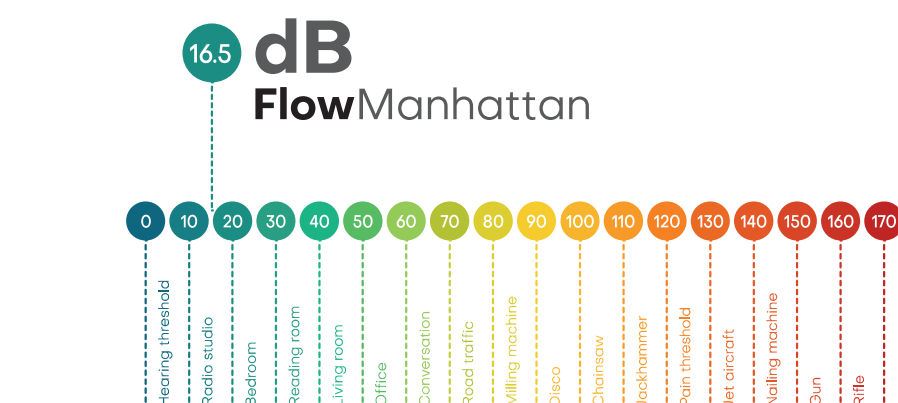
The formwork, fixed to the external masonry simultaneously with the installation of the coat, also allows only the **preparation of the HRV system**, which can be completed in the next phase with the ventilation unit. The HRV unit extracts stale air from the indoor environment and injects **new, oxygenated and clean air thanks to the special F7+G1 filters** fitted as standard. The ventilation speeds are variable according to the needs with **a maximum flow rate of 70m³/h.** The enthalpy heat exchanger allows you to **recover up to 70% of the heat from the outgoing air, preheating the renewal air flow.**



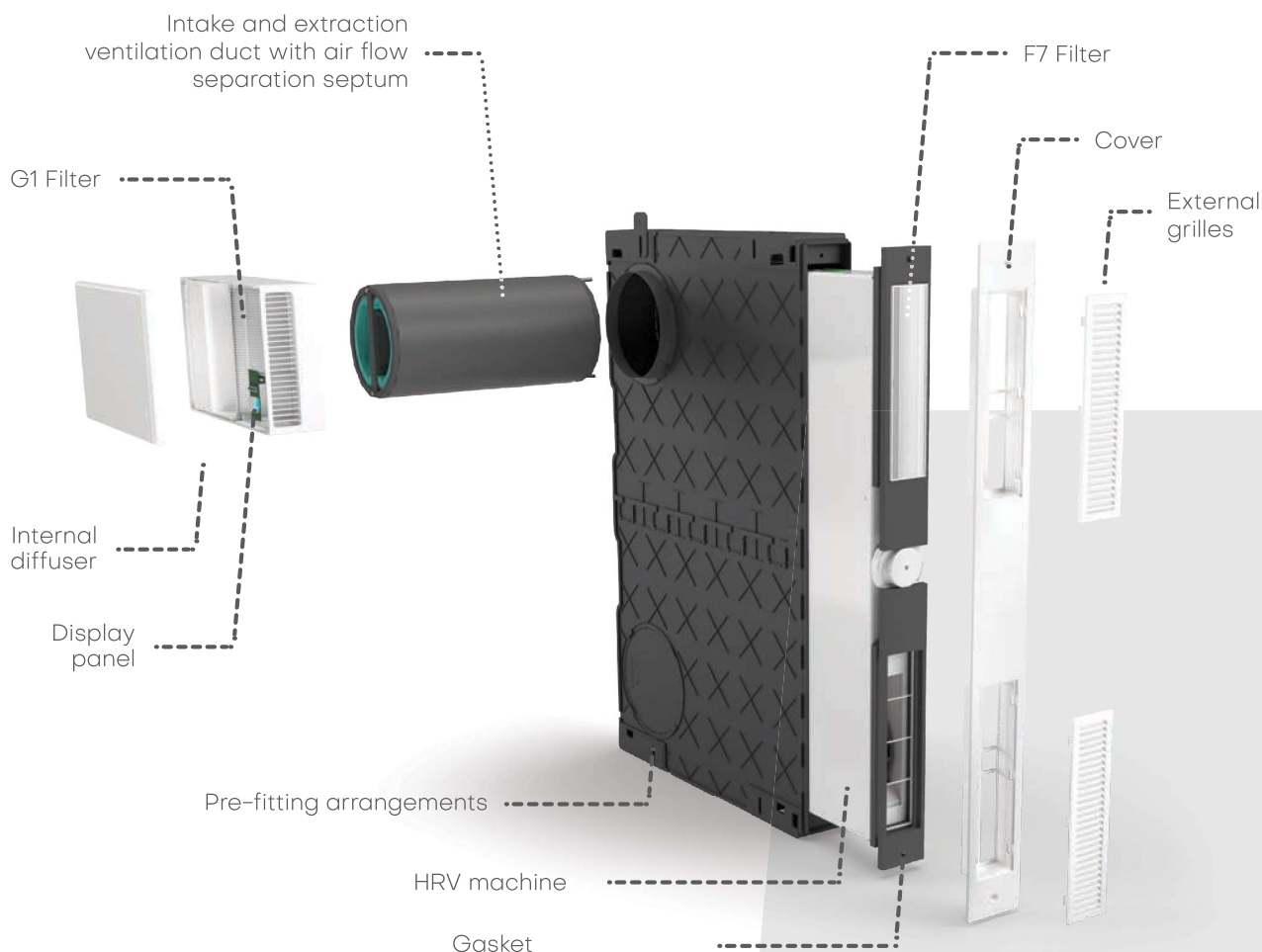
*Standard, Plus, Elite versions*

The most accessorised models integrate an on-board hygrometric sensor, CO<sub>2</sub> and VOC sensor for monitoring important indoor air quality parameters, control via removable handset and Air Guard Wi-Fi app.

A completely outdoor solution, which has minimal impact on the design of the house and guarantees the highest levels of acoustic comfort



By placing the HRV unit in the outermost perimeter wall portion, inside the coat, Hely FlowMANHATTAN ensures **sound performance for optimal acoustic comfort**, with a sound pressure of 16.5 dB at minimum speed.



## HRV for redevelopment

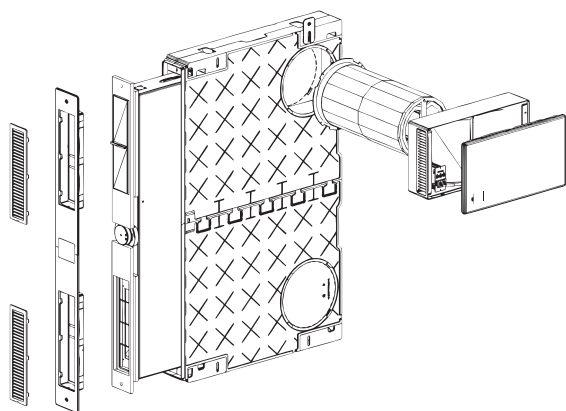
Installation fully from the outside when laying the insulating layer.



Zero impact on the facade and minimal impact on the interior.



Scan the QR code and watch the video



Sensors for automatic control of humidity, CO<sub>2</sub> levels and VOCs



Remote panel for controlling the unit and setting functions.



Thanks to the supplied infrared remote control, it is easy to operate from anywhere in the room.



**70%**

Heat recovery efficiency



**16.5** dB(A)

Sound pressure level



**70** m<sup>3</sup>/h

Maximum airflow



**F7**

Air intake filtration



**-35.4** kWh/m<sup>2</sup>a

SEC energy consumption (moderate climates)

## Technical data

Energy class

**A**

### Specifications

Specifications	UoM	Value
Air flow	m <sup>3</sup> /h	20/25/30/40/50/70 <sup>(1)</sup>
Flow adjustment		4 settings + hyperventilation
Power consumption (excluding heater)	W	5/6/7/9.5/13/34 <sup>(1)</sup>
Specific power (excluding heater)	W/m <sup>3</sup> /h	0.25/0.24/0.23/0.24/0.26/0.49 <sup>(1)</sup>
Power supply	Vac	230
Operating voltage <sup>(2)</sup>	Vdc	24
Max. current consumption <sup>(3)</sup>	A	0.35
HRV unit weight	kg	7
Unit dimensions (vertical W x H x D)	mm	460 x 740 x 65
Fitting area dimensions (vertical W x H x D)	mm	510 x 830 x 80
Internal diffuser dimensions (L x H x D)	mm	325 x 185 x 85
Heat exchanger		enthalpy cross-flow
Heat recovery efficiency	%	70
Sound power level <sup>(4)</sup>	dB(A)	28/31/36/43/48/56 <sup>(1)</sup>
Sound pressure <sup>(5)</sup>	dB(A)	16.5/19.5/24.5/31.5/36.5/44.5 <sup>(1)</sup>
Facade noise abatement Dn,e,w	dB	51
Intake/Extraction filters		F7 / G1
Modbus RTU rs485		Yes <sup>(6)</sup>
Energy class (cold / temperate / hot)		A+ / A / E
SEC (cold / temperate / hot)	kWh/m <sup>2</sup> a	-67.7 / -35.4 / -14.3
Unit type		UVR-B bidirectional
Specific Power Input SPI <sup>(7)</sup>	W/m <sup>3</sup> /h	0.24

1. In hyperventilation mode

2. The supplied power converter ensures that the unit can run on 230 V ac. To be connected during installation.

3. With 230 V AC supply voltage

4. According to UNI 3744: 2010

5. Measured in a 30 m<sup>3</sup> semi anechoic environment at a distance of 3 m

6. Control panel functionality is lost

7. In accordance with EN 13141-8: 2014-09