HELTY

Pure air for your home

MVHR for schools and offices

Community Range Catalogue

March 2026

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What kind of air do school children breathe?

In recent years, there has been more focus on indoor air quality and the fact that pathogens can be spread through the air. This has made it even clearer how important it is to make sure that confined spaces are healthy and well-ventilated.

The air quality in classrooms is poor, especially when it comes to the levels of fine particulates, CO_2, allergens and moulds. These pollutants are bad for children's respiratory health.

The *SEARCH project (School Environment and Respiratory Health of Children)* examined 60 schools across 10 countries between 2006 and 2016, **confirming that poor ventilation during classes led to higher levels of CO_2 and formaldehyde** in classrooms and more cases of chronic bronchitis and asthma.

The investigations conducted on 120 schools in 25 European countries as part of the *SINPHONIE project (Schools Indoor Pollution and Health: Observatory Network in Europe)* found that

85% of students are exposed to fine particulates in concentrations exceeding the values per cubic metre established as a danger threshold by WHO.

The situation is no better for other pollutants, which are found in quantities that exceed the established parameters in 25% of cases for benzene and in 50% of cases for radon.

And it is not just a health issue.
The indoor air quality can have a **decisive impact on attention and productivity.** Healthy air in rooms helps brain functions, which in turn helps people concentrate better.

Ensuring health and performance with air changes

Good design and management of air changes are more important than ever to keep indoor spaces healthy and productive.

Providing a continuous exchange of indoor air with the introduction of filtered outdoor air is the key way to contain the spread of airborne infections and improve indoor well-being.

Heat recovery ventilation systems are more effective and convenient than simply opening the windows. Furthermore, they can significantly improve air quality by filtering the incoming air.

Recently, within the framework of the *QAES project (Air Quality in School Buildings)* which involved 12 schools in Trentino-Alto Adige and Ticino, the **indispensable role of air exchange using heat recovery ventilation systems has emerged, proving to be better than purification-only technologies.**

"We analysed many different solutions and found that a properly designed air exchange system is the most effective strategy to ensure healthier air in our classrooms. This technology also helps us save energy, which is important because energy costs are going up all the time. In this regard, active systems like decentralized heat recovery ventilation units have shown significant effects in decreasing pollutant loads and CO_2 levels, which are indicators of indoor air quality."

Clara Peretti
Designer, QAES Project consultant for the Province of Bolzano

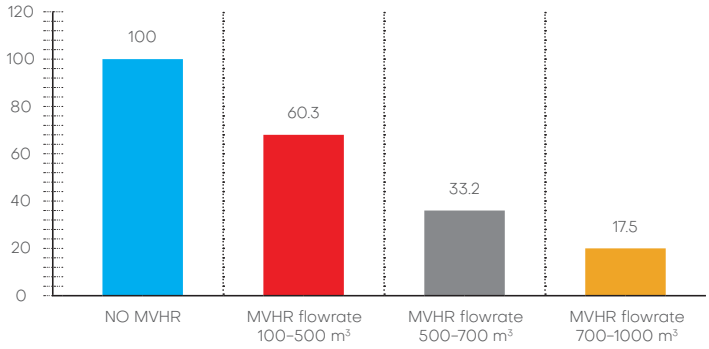
The importance of correctly sized ventilation

According to a recent study conducted by the Hume Foundation and the Marche Region, the first in Italy to allocate resources for the installation of MVHR systems in schools,

heat recovery ventilation reduces the risk of respiratory infections by more than 80%.

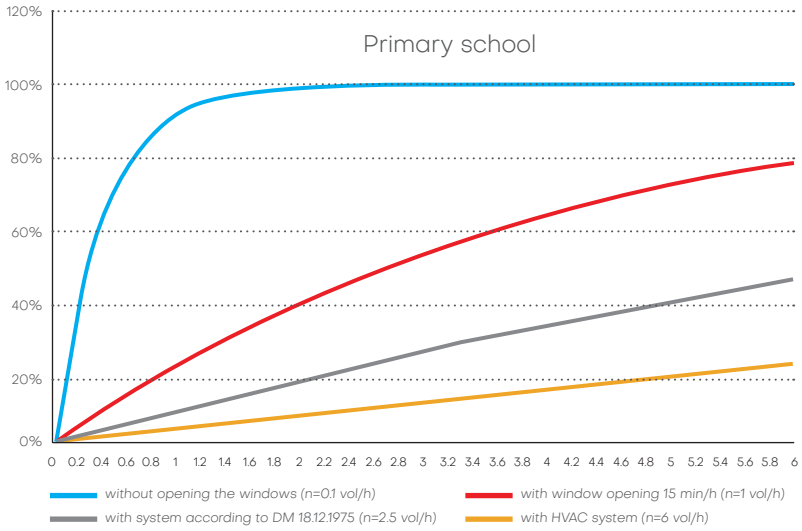
The survey demonstrated that the reduction in risk is proportional to the number of air changes per hour that can be ensured in classrooms and it is minimal when a system ensuring an airflow rate exceeding 700 m³/h is used. This corresponds to five or six air changes per hour in a standard-sized classroom.

Reduction of contagion risk and airflow rates



Source: Hume Foundation.
Distribution of transmission risk based on the maximum MVHR flowrate

The data from the Marche experiment confirm the theoretical models of the study produced in 2020 by the University of Cassino and published in the Aicarr Journal.



Source: Cassino University.
Risk of contagion in a "typical" primary school classroom with varying air change rates in vol/h

How MVHR works

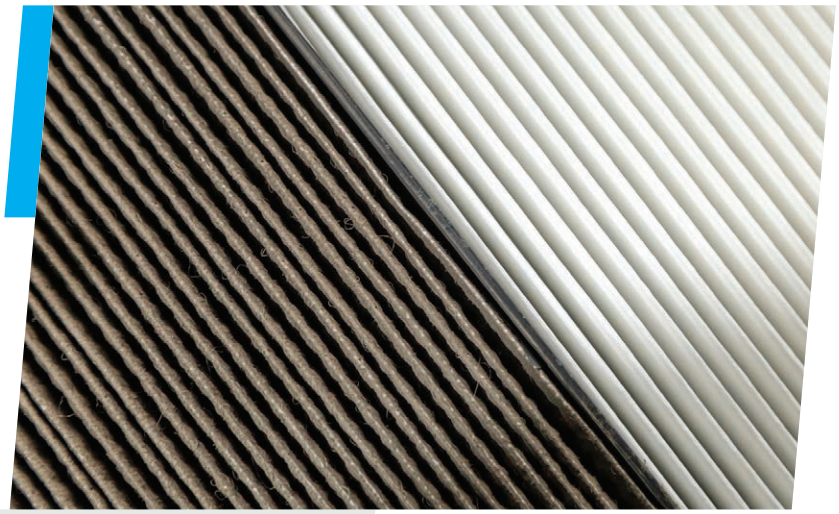
Helty Flow: continuous air exchange and filtration

All Helty ventilation units are **decentralised dual-flow MVHRs** with cross-flow countercurrent.
The stale air, laden with moisture and CO_2, is aspirated in from the indoor environment and fed into the heat exchanger, where – without any contact between the two flows – it surrenders its heat to the incoming airflow, which is brought in from outside at the same time.

The oxygen-rich fresh air is pre-conditioned and purified by a high-performance filter that blocks smog, particulate matter and pollen. This technology allows a **constant and balanced air exchange** in closed rooms for **superior performance** in terms of energy efficiency, air purification and indoor comfort.

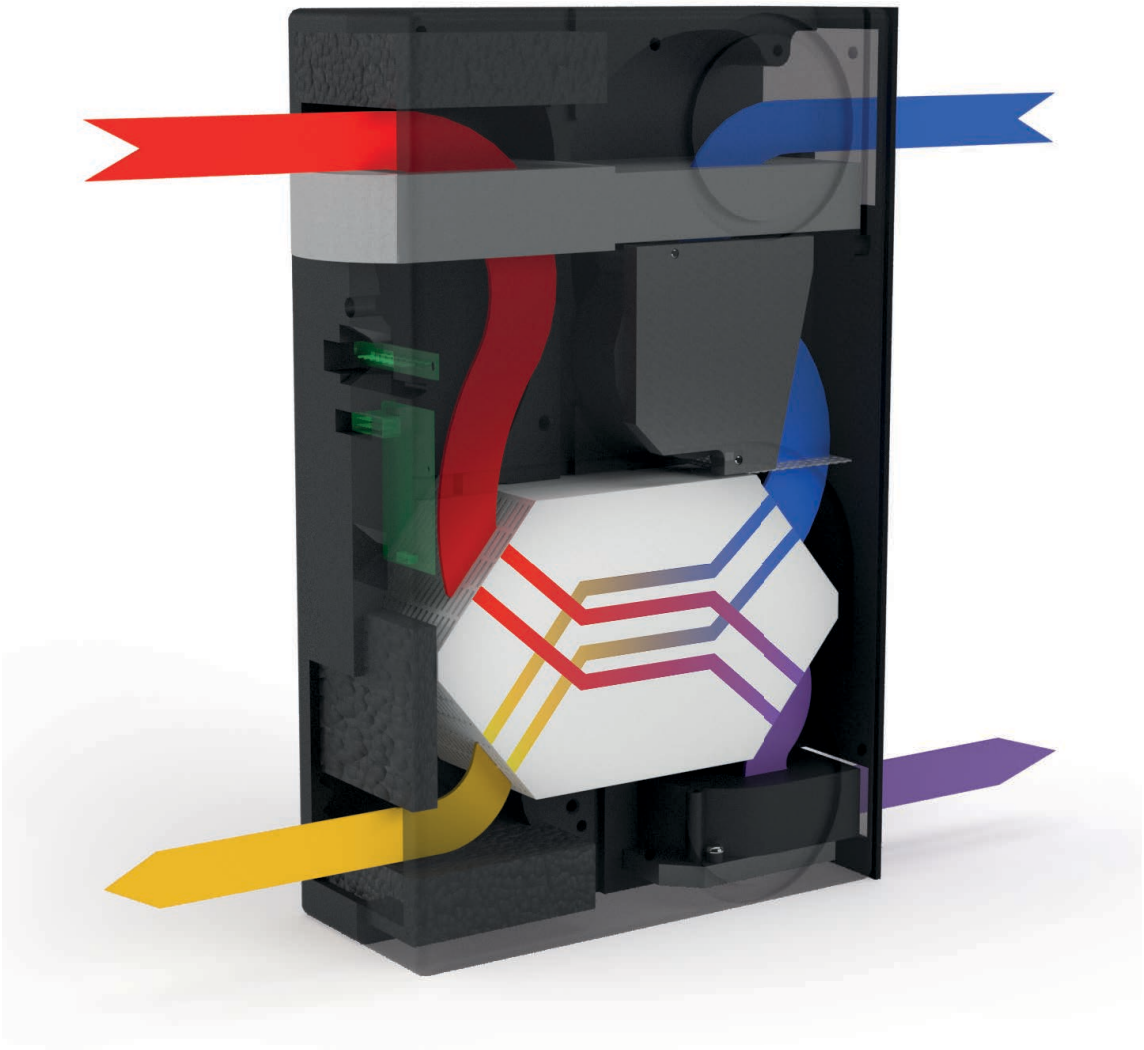
Healthiness and well-being

Indoor air can be 5 to 20 times more polluted than outdoor air and saturated with harmful substances which are dangerous to health in case of prolonged exposure. A person takes an average of 22,000 breaths per day, passing about 12,000 litres of air through their lungs. This is why it **is important for our health to breathe clean air, rich in oxygen and free of the pollutants** that inevitably accumulate and concentrate in enclosed spaces, where the amount of air is limited.



Stale air filter compared to a new filter

Operating diagram of a double-flow MVHR system with heat recovery



The stale air, laden with humidity and CO_2, is drawn from the indoor environment and fed into the heat exchanger, where **it surrenders its heat to the incoming airflow.**

The fresh air enters from the outside **and** passes **through the high-performance filter where it is purified,** removing smog, dust, pollen and pollutants before being introduced into the indoor environment.

The stale air from enclosed spaces **is expelled outside.**

The heat exchanger heats the clean air, recovering most of the heat contained in the exhaust air.

Designing regulation-compliant air changes

The reference technical standard for **calculating the ventilation rates** to be ensured in shared environments, such as schools and offices, is **UNI EN 16798-1**.
The standard has a direct impact on the design of ventilation in **public buildings and shared environments, such as offices, schools, professional practices and public spaces.**
It offers a **performance-based approach** and **flexible design calculations** to best adapt to the specificities of each project and the needs of the occupants.

UNI EN 16798-1: what is useful to know for sizing purposes

// The standard distinguishes **four air quality levels** (IEQ I, II, III, IV), allowing the designer to choose the most appropriate one according to the intended use and the comfort expectations of occupants.

// **It classifies buildings as "very low polluting" (VLPB), "low polluting" (LPB), and "not low polluting" (NLPB)** and the necessary airflows are determined for each one based on the intrinsic pollution of the building. For instance, the use of low-emission materials can reduce ventilation requirements.

// The standard establishes that the **minimum air change rate should never be less than 4 L/s (equivalent to 14.4 m^3/h) per person** when the spaces are occupied.

Category	Airflow per person l/(s pers.)			Airflow per surface area l/(s m²)	
	Not adapted	Adapted	VLPB	LPB	NLPB
I	10	3.5	0.5	1	2.0
II	7*	2.5	0.35	0.7*	1.4
III	4	1.5	0.2	0.4	0.8
IV	2.5	1	0.15	0.3	0.6

VLPB: Very Low Polluting Buildings – LPB: Low Polluting Buildings – NLPB: Not Low Polluting Buildings

Air renewal rates in classrooms according to UNI EN 16798-1*. The target airflow rate is defined by summing an airflow rate per person, determined according to the category and type of occupant, with an airflow rate per surface area, defined taking the polluting level of the building into account.

**Check the specific indications provided in the national appendix in Appendix A.*

New configurator for calculating airflows

To support the day-to-day work of designers and heating and ventilation engineers, **we have launched a new digital tool designed to simplify and speed up the sizing of decentralised heat recovery ventilation systems**. The configurator, developed **in accordance with UNI EN UNI EN 16798-1**, guides professionals step by step through the process of **determining ventilation airflow rates** based on basic design criteria (location, building class, ventilation class) and the details of individual rooms, in both residential and commercial settings. As well as **facilitating the calculation of air exchange requirements** determined in accordance with technical standards, the configurator **suggests Helty Flow decentralised solutions** and allows you to choose the most suitable ones for each room.

Size your system with the new configuration tool

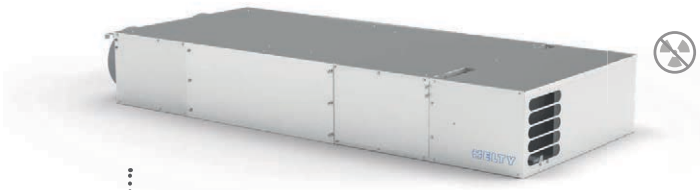
MVHR range Flow Community

Systems for air exchange in medium and large rooms

Solutions designed for the ventilation of indoor spaces that require **special attention in the continuous air exchange and sanitisation**: meeting rooms, laboratories, kindergartens and classrooms. Decentralised MVHR double-flow units camouflaged as furniture or mounted on walls or ceilings. They are ideal for integrating high-performance air renewal and filtration systems with heat recovery in existing spaces, simplifying and speeding up the function of forced ventilation systems.

Radon mitigation and remote control

Flow-R Line models are designed to provide an effective and minimally invasive solution for radon risk management. Using the WiFi cloud panel, the units can be managed remotely via the Helty Home app or directly from the HCloud web platform.



Flow 400 Steel / 400-R Steel

Flow 600 Steel

Flow 800 / M800 / 800 Steel / 800-R Steel

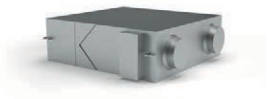
Flow 1000 / M1000 / 1000 Steel

Model	Flow400Steel			Flow600Steel	
Version	STD	Pure	R	STD	Pure
Night function	●	●	●	●	●
Hyperventilation	●	●	●	●	●
Filter replacement alert	●	●	●	●	●
Comfort function	●	●	●	●	●
Humidity sensor	●	●	–	●	●
CO_2 sensor and VOC index	–	●	–	–	●
Radon sensor [1]	–	–	compatible	–	–
Filter replacement pressure sensor	●	●	●	●	●
Free-cooling / Free-heating	●	●	●	●	●
Remote control	compatible	compatible	compatible	compatible	compatible
Panel LED On/Off	●	●	●	●	●
Control panel Removable STD	compatible	compatible	–	compatible	compatible
Control panel Removable cloud	compatible	compatible	●	compatible	compatible
Helty Home app [1]	compatible	compatible	●	compatible	compatible

Model	Flow800		Flow800Steel		
Version	STD	Pure	STD	Pure	R
Night function	●	●	●	●	●
Hyperventilation	●	●	●	●	●
Filter replacement alert	●	●	●	●	●
Comfort function	●	●	●	●	●
Humidity sensor	●	●	●	●	–
CO_2 sensor and VOC index	–	●	–	●	–
Radon sensor [1]	–	–	–	–	compatible
Filter replacement pressure sensor	●	●	●	●	●
Free-cooling / Free-heating	●	●	●	●	●
Remote control	compatible	compatible	compatible	compatible	compatible
Panel LED On/Off	●	●	●	●	●
Control panel Removable STD	compatible	compatible	compatible	compatible	–
Control panel Removable cloud	compatible	compatible	compatible	compatible	●
Helty Home app [1]	compatible	compatible	compatible	compatible	●

1. Cloud control panel connection required.

Model	Flow:M800			
Version	LH STD	LH Pure	RH STD	RH Pure
Night function	●	●	●	●
Hyperventilation	●	●	●	●
Filter replacement alert	●	●	●	●
Comfort function	●	●	●	●
Humidity sensor	●	●	●	●
CO_2 sensor and VOC index	–	●	–	●
Radon sensor [1]	–	–	–	–
Filter replacement pressure sensor	●	●	●	●
Free-cooling / Free-heating	●	●	●	●
Remote control	compatible	compatible	compatible	compatible
Panel LED On/Off	●	●	●	●
Control panel Removable STD	compatible	compatible	compatible	compatible
Control panel Removable cloud	compatible	compatible	compatible	compatible
Helty Home app [1]	compatible	compatible	compatible	compatible



Model	Flow:1000		Flow:1000Steel	
Version	STD	Pure	STD	Pure
Night function	●	●	●	●
Hyperventilation	●	●	●	●
Filter replacement alert	●	●	●	●
Comfort function	●	●	●	●
Humidity sensor	●	●	●	●
CO_2 sensor and VOC index	–	●	–	●
Radon sensor [1]	–	–	–	–
Filter replacement pressure sensor	●	●	●	●
Free-cooling / Free-heating	●	●	●	●
Remote control	compatible	compatible	compatible	compatible
Panel LED On/Off	●	●	●	●
Control panel Removable STD	compatible	compatible	compatible	compatible
Control panel Removable cloud	compatible	compatible	compatible	compatible
Helty Home app [1]	compatible	compatible	compatible	compatible

1. Cloud control panel connection required.

Model FlowM1000

Version	LH STD	LH Pure	RH STD	RH Pure
Night function	●	●	●	●
Hyperventilation	●	●	●	●
Filter replacement alert	●	●	●	●
Comfort function	●	●	●	●
Humidity sensor	●	●	●	●
CO_2 sensor and VOC index	–	●	–	●
Radon sensor [1]	–	–	–	–
Filter replacement pressure sensor	●	●	●	●
Free-cooling / Free-heating	●	●	●	●
Remote control	compatible	compatible	compatible	compatible
Panel LED On/Off	●	●	●	●
Control panel Removable STD	compatible	compatible	compatible	compatible
Control panel Removable cloud	compatible	compatible	compatible	compatible
Helty Home app [1]	compatible	compatible	compatible	compatible

1. Cloud control panel connection required.

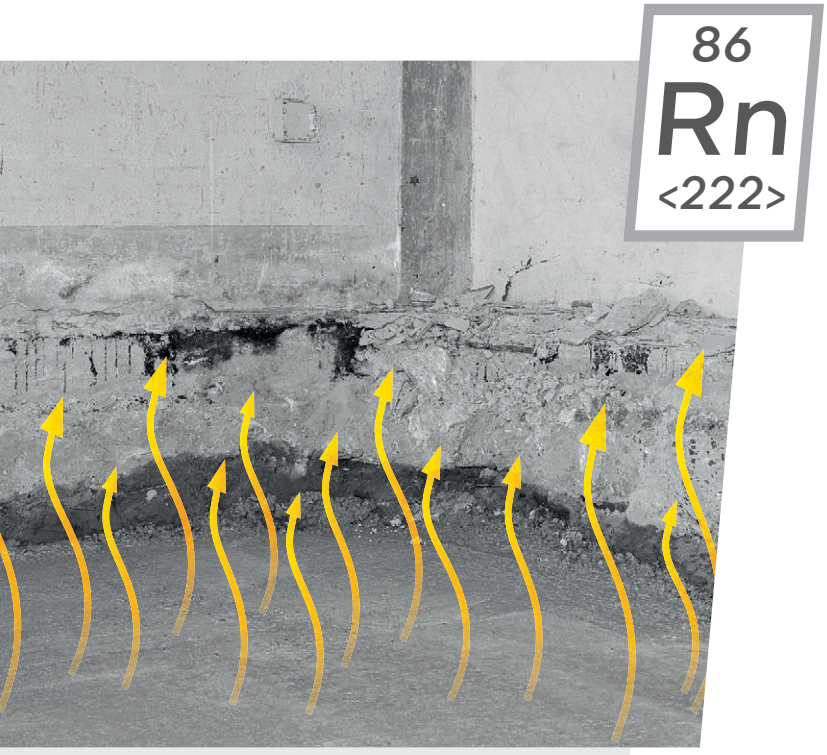
Line Flow-R

Dedicated MVHR solutions for effective radon risk mitigation

The **Helty Flow-R** line features an innovative series of **decentralised MVHR solutions** dedicated to **radon risk mitigation**. The range includes several different models of ventilation units, designed to effectively meet the needs of risk reduction in small offices and larger environments, such as shops and classrooms:

// **Flow400-R**
perfect for installation in small classrooms and offices

// **Flow800-R**
designed for retrofit installation in large environments, such as schools and open-plan offices.



MVHR for smart radon risk management

Helty's Radon Line products are designed to provide an **effective** and **minimally invasive** solution for **radon risk management**. MVHR units can be remotely programmed, setting customised operating scenarios. Alternatively, they can be calibrated on-site according tothe radon gas emissivity detected in the environment.

Using the WiFi **cloud panel**, the ULTRA-R, 400-R and 800-R versions allow remote management via the Helty Home app or directly from the HCloud web platform. The **Radon Scenarios** option allows the best management of **radon risk mitigation** through an array of customised unit settings. The intake and extraction airflow rates can be diversified by programming the imbalance of the unit while maintaining the unbalance settings at different speeds.
For these models, the **Radon Monitor sensor** for active gas monitoring, allowing an adaptive and automatic response based on user-programmable intervention thresholds, is also available as an option.

Radon monitor

Flow400/400-R

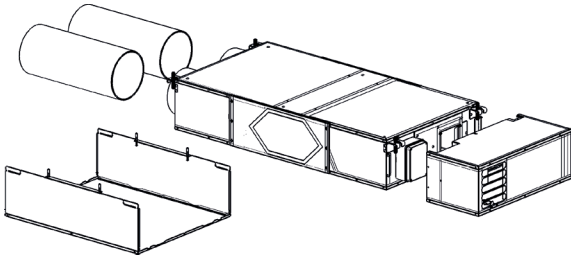
Maximum comfort, minimum footprint: clean air for offices and shared spaces

Flow400 is an innovative solution designed **for efficient ventilation of offices and shared spaces** with a capacity up to 10 people. Compact and versatile, Flow400 ensures filtered and fresh air with its **advanced filtration system** consisting of ePM1 80% filters that stop up to 80% of sub-micron particulates. Equipped with an **enthalpy exchanger with up to 92% heat recovery,** the new Flow400 Helty can be configured for airflow rates ranging from 80 to 400 m^3/h. With a sound pressure level of only 35 dB(A) at design flow, it is ideal for applications in professional environments that require **special attention to acoustic comfort.**

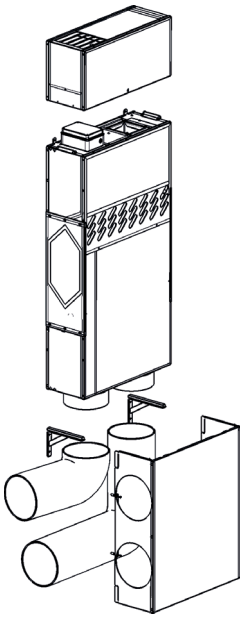
Compact and **only 22 cm thick,** the Flow400 is perfect for retrofitting existing buildings. The Steel version, with a steel cover ready for visible installation on the wall or ceiling.
Optional hygrometric and CO_2 sensors monitor indoor air quality, automatically adjusting the airflow rate accordingly. Built-in features, such as free-cooling and night mode, **ensure efficiency and energy savings.**

Data monitoring and radon mitigation

The **Flow400-R version allows optimal and efficient radon risk management,** with ad-hoc technology that dilutes gas concentrations in confined environments. The unit can be controlled remotely using the Cloud platform, setting customised scenarios and performing service centre checks.



Flow:400 Steel
Ceiling installation



Flow:400 Steel
Wall installation

92%
Heat recovery efficiency

22dB(A)
Minimum sound pressure

400m³/h
Maximum airflow

Coarse 80% (G3) + ePM1 80% (F9)
Intake air filtration

-40kWh/m²a
SEC energy consumption (temperate climate)

Energy efficiency class A

Technical data

Functions and features	**UOM**	Flow400Steel		
Version		STD	Pure	R
Night function		●	●	●
Hyperventilation		●	●	●
Filter replacement alert		●	●	●
Comfort function		●	●	●
Humidity sensor		●	●	–
CO_2 sensor and VOC index		–	●	–
Radon sensor [8]		–	–	compatible
Filter replacement pressure sensor		●	●	●
Free-cooling / Free-heating		●	●	●
Remote control		compatible	compatible	compatible
Panel LED On/Off		●	●	●
Control panel Removable STD		compatible	compatible	–
Control panel Removable cloud		compatible	compatible	●
Helty Home app [8]		compatible	compatible	●
Airflow rate	m^3/h	80/130/180/250/320/400[1]		
Flow adjustment		night + 4 stages + hyperventilation		
Power consumption	W	16/21/30/49/73/120[1]		
Specific power input	$W/m^3/h$	0.2/0.16/0.17/0.2/0.23/0.3[1]		
Supply voltage	V AC	230		
Operating voltage [2]	V DC	24		
Max. current consumption [3]	A	0.6		
Weight	kg	44		
Product dimensions (W x H x D)	mm	1434 x 222 x 602		
Core-drilled holes	mm	2x Ø200		
Heat exchanger		counter-flow enthalpy		
Heat recovery efficiency	%	92/89/80/75/73/70[1]		
Bypass (free cooling/free heating)		electronic automatic		
Sound power level [4]	dB(A)	33/39/43/48,8/53/59[1]		
Sound pressure [6]	dB(A)	22/25/29/35/39/45[1]		
Intake filter [9]		Coarse 80% (G3) + ePM1 80% (F9)		
Extraction filter [9]		Coarse 80% (G3)		
Filter check		automatic with pressure sensor		
Modbus RTU rs485		Yes [5]		
Reference climate		cold / temperate / warm		
Energy efficiency class (cold / temperate / hot)		A+ / A / E		
SEC (cold / temperate / hot) [7]	kWh/m^2a	-76 / -40 / -16.7		
Kit		card with QR-code digital manuals, MVHR filters	card with QR-code digital manuals, MVHR filters	card with QR-code digital manuals, control panel, MVHR filters
Code		**1VMC04030**	**1VMC04031**	**1VMC04033**

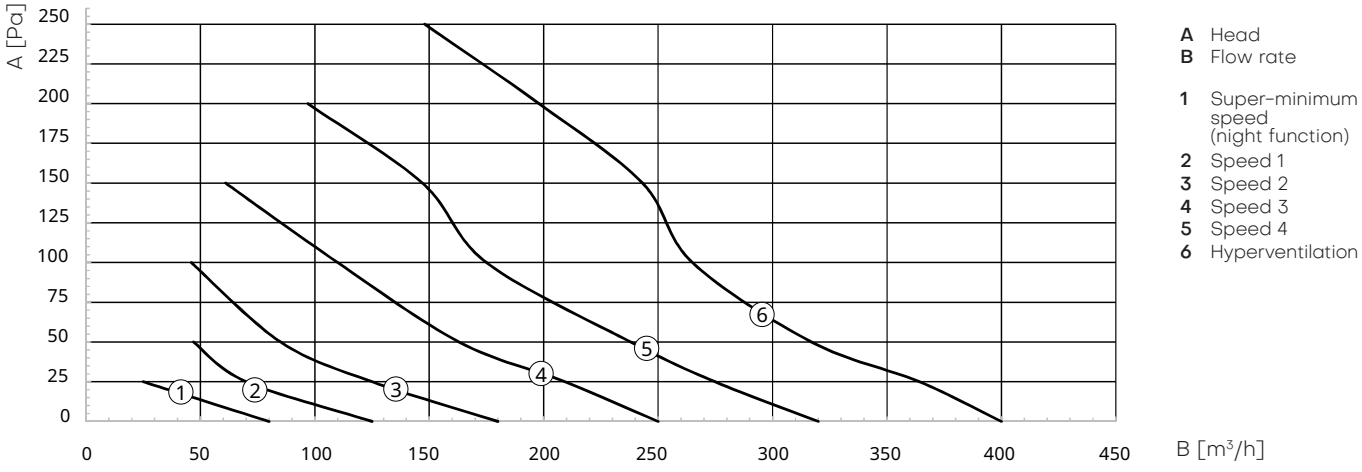
1. In hyperventilation mode.
2. The power supply unit provided enables operation with power supply of 230 V AC. To be connected during installation.
3. With 230 V AC supply voltage.
4. According to UNI EN ISO 3744.
5. The functions of the PURE control panel version are lost.
6. Measured 1 m below the unit. Correct with background noise and reverberation times.
7. According to Regulation (EU) No. 1253/2014.
8. Cloud control panel connection required.
9. UNI EN ISO 16890-1.

Accessories

Item	400 Steel	400-R Steel	Code
RJ10 coupler + 5m cable	●	●	1VMCA9913
White BT Living Now adapter for wall control panel	●	●	1VMC99096
Black BT Living Now adapter for wall control panel	●	●	1VMC99180
Pipe adapter Ø200mm-Ø100mm Flow400 Steel x2	●	●	1VMC99126
IAQ monitor (1)	●	●	4VMC00000903
Side casing Flow400	●	●	1VMC99121
Heater ceiling casing Flow400	●	●	1VMC99125
Right outlet heater casing Flow400	●	●	1VMC99133
Rear outlet heater casing Flow400	●	●	1VMC99122
Left outlet heater casing Flow400	●	●	1VMC99134
CO_2 monitor (1)	●	●	4VMC00000902
Installation template Flow400	●	●	4VMC00000824
Filter ePM1 80% (F9) + Coarse 80% (G3) Flow400	●	●	1VMC99155
Filter ePM1 80% (F9) + Coarse 80% (G3) x10 Flow400	●	●	1VMC99156
External plastic grilles 340x340mm	●	●	1VMC99083
Horizontal stainless steel external grilles	●	●	1VMC99084
Vertical stainless steel external grilles	●	●	1VMC99097
Ionizer	●	●	1VMC99089
STD built-in control panel + 5m cable (3)	●		1VMC99201
Cloud built-in control panel + 5m cable	●		1VMC99202
Flow400 post-heater	●	●	1VMC99123
Flow400 pre-heater	●	●	1VMC99131
Radon monitor	–	●	4VMC00000901
External control panel box 503	●	●	1VMC99078
Wall support brackets Flow400 (2)	●	●	1VMC99256
Ceiling support brackets Flow400 (2)	●	●	1VMC99132
IR remote control	●	●	4VMC00000900
ISO flex pipe Ø102mm L5m + 2x hose clamps	●	●	1VMC99087
ISO flex pipe Ø203mm L5m + 2x hose clamps	●	●	1VMC99093

1. Cloud Control Panel required.
2. Required accessory (choose a type of support).
3. Included for Flow400-R.

Flow-head charts

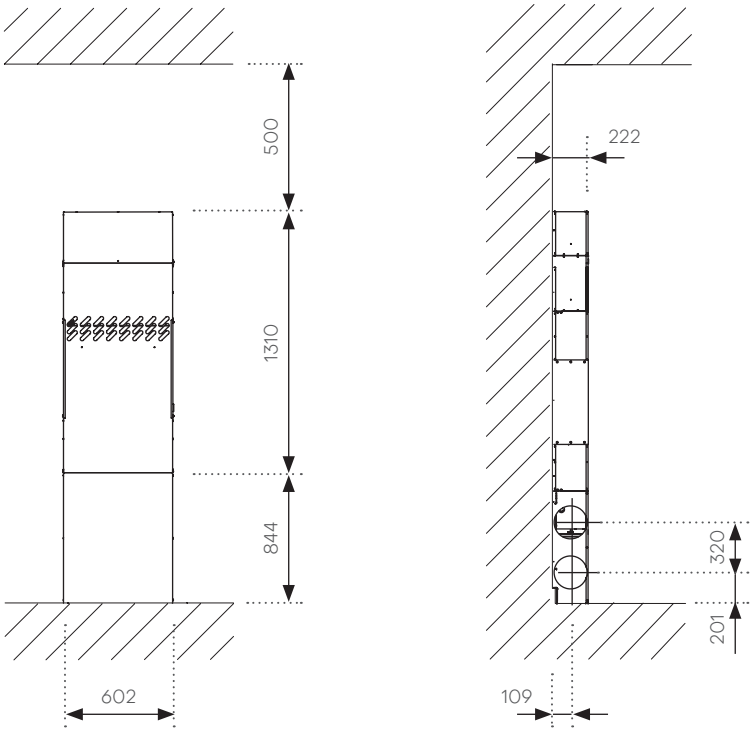


A Head
B Flow rate

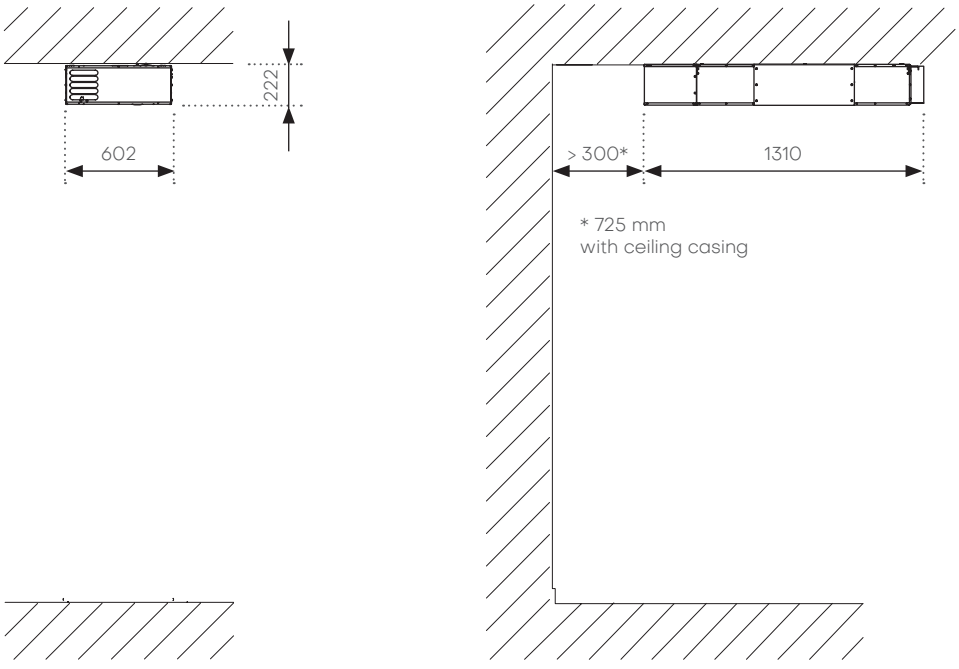
1 Super-minimum speed (night function)
2 Speed 1
3 Speed 2
4 Speed 3
5 Speed 4
6 Hyperventilation

Dimensional drawings

Flow400 Steel
Wall installation



Flow400 Steel
Ceiling installation



Flow600

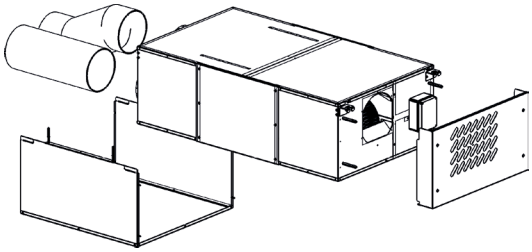
Slim shape, versatile performance

Flow600 Steel is ideal for installation in reception areas, offices, schools and kindergartens. Flow 600 Steel allows modulation of air exchange on **variable flow rates from 250 m³/h** (minimum speed) to **600 m³/h** (maximum speed in hyperventilation mode), with four intermediate flow rates to flexibly meet design needs requiring high air renewal rates in medium to high-crowded environments, such as classrooms. The unit is equipped with an enthalpy cross-flow heat exchanger, allowing **heat recovery efficiency of up to 82%**. No condensate drain preparation is required. The Coarse 80% + ePM1 80% (F9) filter assembly fitted as standard ensures excellent filtration levels.

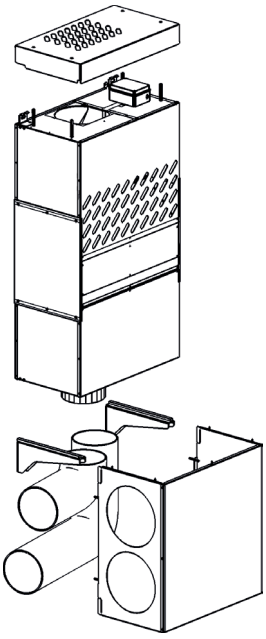
The MVHR unit is natively **integrated into a white painted steel cover,** complete with air intake and extraction openings, allowing the visible unit to be installed with no need for additional cosmetic covering.
It can be **installed on the ceiling or as a vertical wall-mounted version** by means of a special tube casing, **allowing the intake/extraction vents to be managed on either the right or left side,** so as to adapt to design requirements.
Two 200-mm coring holes in the perimeter wall, or alternatively four 100 mm holes are sufficient.

IAQ sensors in the Pure version

In addition to the standard version, Flow600 Steel is also available in a Pure version with a hygrometric sensor and CO_2 and VOC sensor for monitoring essential occupant well-being parameters, such as relative humidity, carbon dioxide levels and volatile organic compounds. By detecting the values in real time, **the MVHR can automatically adjust the air exchange according to the actual needs** read in the room to be ventilated.



Flow600 Steel
Ceiling installation



Flow600 Steel
Wall installation

80%
Heat recovery efficiency

35dB(A)
Minimum sound pressure

600m³/h
Maximum airflow

Coarse 80% (G3) + ePM1 80% (F9)
Intake air filtration

-40.6kWh/m²a
SEC energy consumption (temperate climate)

Technical data

Functions and features	**UOM**	Flow600 Steel	
Version		STD	Pure
Night function		●	●
Hyperventilation		●	●
Filter replacement alert		●	●
Comfort function		●	●
Humidity sensor		●	●
CO_2 sensor and VOC index		–	●
Filter replacement pressure sensor		●	●
Free-cooling / Free-heating		●	●
Remote control		compatible	compatible
Panel LED On/Off		●	●
Control panel Removable STD		compatible	compatible
Control panel Removable cloud		compatible	compatible
Helty Home app [1]		compatible	compatible
Airflow rate	m^3/h	250/300/350/450/550/600[1]	
Flow adjustment		night + 4 stages + hyperventilation	
Power consumption	W	30/44/60/94/166/220[1]	
Specific power input	$W/m^3/h$	0.12/0.15/0.17/0.21/0.3/0.37[1]	
Supply voltage	V AC	230	
Operating voltage [2]	V DC	24	
Max. current consumption [3]	A	1	
Weight	kg	55	
Product dimensions (W x H x D)	mm	1320 x 392 x 706	
Core-drilled holes	mm	2x Ø200	
Heat exchanger		enthalpy cross-flow	
Heat recovery efficiency	%	82/80/76/74/71/69[1]	
Bypass (free cooling/free heating)		electronic automatic	
Sound power level [4]	dB(A)	50/53/57/61/67/69[1]	
Sound pressure [6]	dB(A)	35/39/43/47.4/52.5/55[1]	
Intake filter [9]		Coarse 80% (G3) + ePM1 80% (F9)	
Extraction filter [9]		Coarse 80% (G3)	
Filter check		automatic with pressure sensor	
Modbus RTU rs485		Yes [5]	
Reference climate		cold / temperate / warm	
Energy efficiency class (cold / temperate / hot)		A+ / A / E	
SEC (cold / temperate / hot) [7]	kWh/m^2a	-76.8 / -40.6 / -17.2	
Kit		card with QR-code digital manuals, MVHR filters	
Code		**1VMC04020**	**1VMC04015**

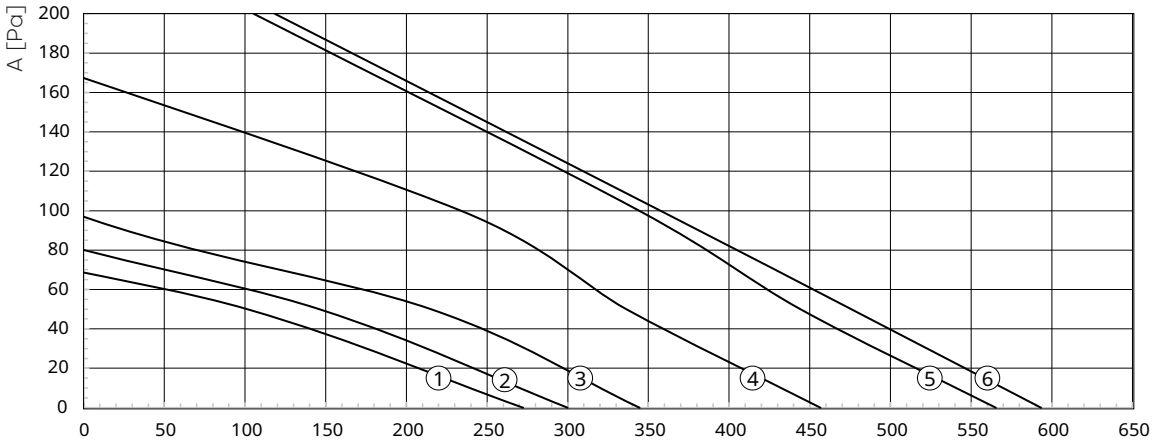
1. In hyperventilation mode.
2. The power supply unit provided enables operation with power supply of 230 V AC. To be connected during installation.
3. With 230 V AC supply voltage.
4. According to UNI EN ISO 3744.
5. The functions of the PURE control panel version are lost.
6. Measured 1 m below the unit. Correct with background noise and reverberation times.
7. According to Regulation (EU) No. 1253/2014.
8. Cloud control panel connection required.
9. UNI EN ISO 16890-1.

Accessories

Item	Code
RJ10 coupler + 5m cable	1VMCA9913
White BT Living Now adapter for wall control panel	1VMC99096
Black BT Living Now adapter for wall control panel	1VMC99180
Pipe adapter Ø200mm-Ø100mm Flow600^{Steel} x2	1VMC99092
IAQ monitor [1]	4VMC00000903
Side casing Flow600	1VMC99081
Rear casing Flow600	1VMC99112
Heater ceiling casing Flow600	1VMC99146
Right outlet heater ceiling casing Flow600	1VMC99166
Ceiling casing Flow600	1VMC99082
Right outlet heater casing Flow600	1VMC99136
Rear outlet heater casing Flow600	1VMC99144
CO_2 monitor [1]	4VMC00000902
Installation template Flow600/800/1000^{Steel}	4VMC00000823
Filter ePM1 80% (F9) + Coarse 80% (G3) Flow600	1VMC99080
Filter ePM1 80% (F9) + Coarse 80% (G3) x10 Flow600	1VMC99079
External plastic grilles 340x340mm	1VMC99083
Horizontal stainless steel external grilles	1VMC99084
Vertical stainless steel external grilles	1VMC99097
Ionizer	1VMC99089
STD built-in control panel + 5m cable	1VMC99201
Cloud built-in control panel + 5m cable	1VMC99202
Oversized post-heater Flow600	1VMC99102
Flow600 pre-heater	1VMC99148
External control panel box 503	1VMC99078
Wall support brackets Flow600/800/1000 [2]	1VMC99249
Ceiling support brackets Flow600/800/1000 [2]	1VMC99248
IR remote control	4VMC00000900
ISO flex pipe Ø102mm L5m + 2x hose clamps	1VMC99087
ISO flex pipe Ø203mm L5m + 2x hose clamps	1VMC99093

1. Cloud Control Panel required.
2. Required accessory (choose a type of support).

Flow-head charts

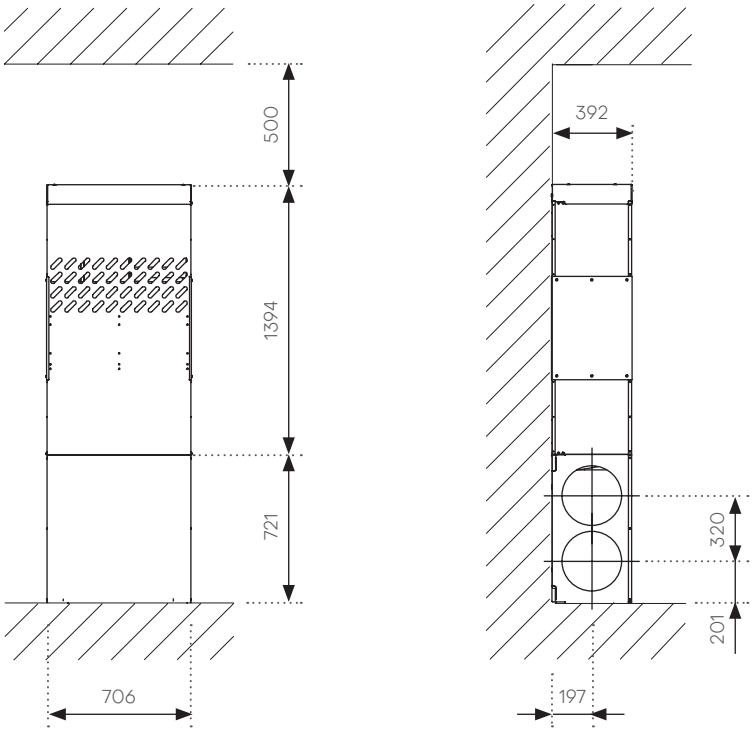


A Head
B Flow rate

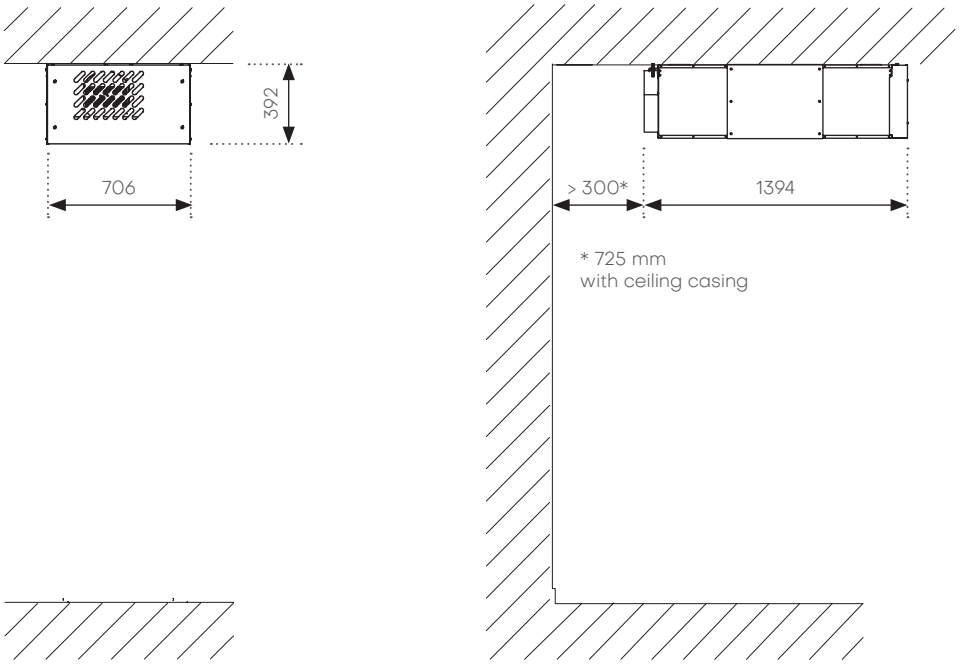
1 Super-minimum speed (night function)
2 Speed 1
3 Speed 2
4 Speed 3
5 Speed 4
6 Hyperventilation

Dimensional drawings

Flow600 Steel
Wall installation



Flow600 Steel
Ceiling installation



Flow800/800-R

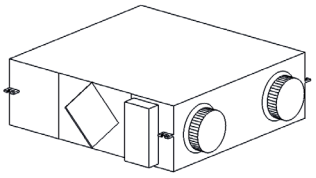
High air exchange without sacrificing aesthetics and acoustics

High-performing and quiet, Flow800 is now updated and expands its family with new versions to respond in full to the needs of designers and customers.
The range features new versions alongside the MVHR unit, ideal for false ceiling applications, such as **Flow800 Steel**, where the MVHR is natively integrated into a white painted steel cover for visible installations and suitable for ceiling and wall installations and **FlowM800**, where the ventilation unit is made totally invisible by camouflaging it in a white cabinet offering ease of integration in environments and great simplicity of access to the unit for inspections and filter changes.

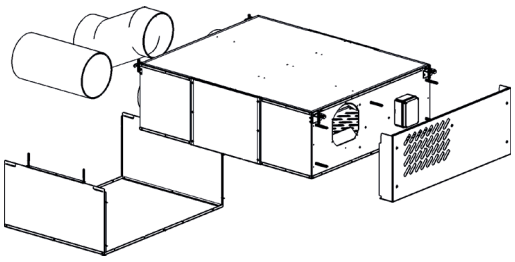
The airflow can be modulated over 6 values, from 300 m^3/h (minimum speed in night mode) up to **800 m^3/h** (maximum speed in hyperventilation), by means of the panel featuring Helty's standard user-friendly control interface.
A control panel for built-in installation in 503 electrical boxes is also available as an accessory. The enthalpy heat exchanger ensures **80% heat exchange efficiency**, while the **dual Coarse 80% + ePM1 80% filter (F9)** stops approximately 90% of PM10 and 80% of PM2.5 by bringing oxygenated and purified air inside.

IAQ sensors and effective action against radon

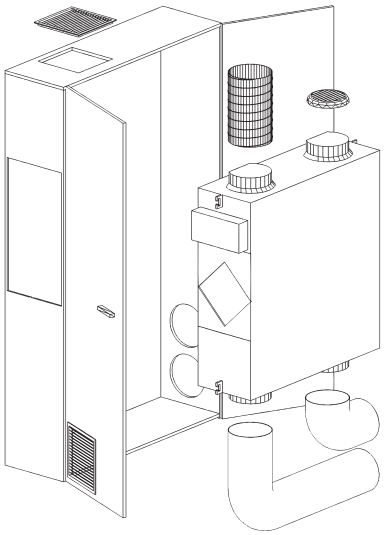
Flow800 is also available in a Pure version, with **hygrometric sensor and CO_2 and VOC** sensors that allow the MVHR unit to monitor humidity and indoor pollutant parameters, automatically adjusting the air exchange as needed. The **Flow800-R** version is designed to restore **radon gas concentration to optimal values,** restoring healthy environments and helping to mitigate risk.



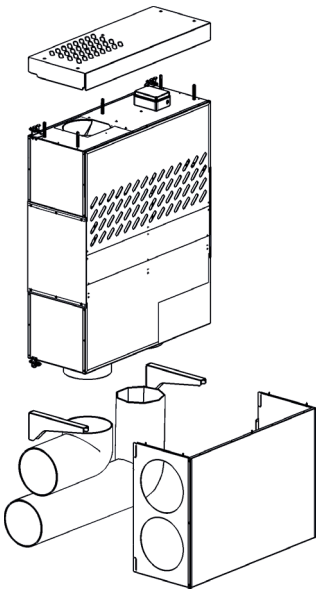
Flow800
MVHR unit



Flow800Steel
Ceiling installation



FlowM800
MVHR in wooden cabinet



Flow800Steel
Wall installation

80% Heat recovery efficiency

21.5dB(A) Minimum sound pressure

800m^3/h Maximum airflow

Coarse 80% (G3) + ePM1 80% (F9) Intake air filtration

-41.3kWh/m^2a SEC energy consumption (temperate climate)

Energy efficiency class A

Technical data

Functions and features	**UOM**	**Flow**800		**Flow**800^{Steel}		
Version		STD	Pure	STD	Pure	R ☢
Night function		●	●	●	●	●
Hyperventilation		●	●	●	●	●
Filter replacement alert		●	●	●	●	●
Comfort function		●	●	●	●	●
Humidity sensor		●	●	●	●	–
CO_2 sensor and VOC index		–	●	–	●	–
Radon sensor [8]		–	–	–	–	compatible
Filter replacement pressure sensor		●	●	●	●	●
Free-cooling / Free-heating		●	●	●	●	●
Remote control		compatible	compatible	compatible	compatible	compatible
Panel LED On/Off		●	●	●	●	●
Control panel Removable STD		compatible	compatible	compatible	compatible	–
Control panel Removable cloud		compatible	compatible	compatible	compatible	●
Helty Home app [8]		compatible	compatible	compatible	compatible	●
Airflow rate	m^3/h	300/350/500/600/700/800[1]				
Flow adjustment		night + 4 stages + hyperventilation				
Power consumption	W	22/26/46/61/90/138[1]				
Specific power input	$W/m^3/h$	0.07/0.07/0.09/0.1/0.13/0.17[1]				
Supply voltage	V AC	230				
Operating voltage	V DC	24				
Max. current consumption [3]	A	0.7				
MVHR unit weight	kg	73		75		
MVHR unit dimensions (W x H x D)	mm	1320 x 392 x 1020		1320 x 392 x 1020		
Core-drilled holes	mm	2x Ø250				
Heat exchanger		enthalpy cross-flow				
Heat recovery efficiency	%	80/76/74/70/69/64[1]				
Bypass (free cooling/free heating)		electronic automatic				
Sound power level [4]	dB(A)	37.2/39.7/46.7/53.3/57.7/58.7[1]		43.5/46.2/54.9/56.9/59.4/64.4[1]		
Sound pressure [6]	dB(A)	21.5/24/31/37.6/42/43[1]		28.6/31.3/40/42/44.5/49.5[1]		
Intake filter [9]		Coarse 80% (G3) + ePM1 80% (F9)				
Extraction filter [9]		Coarse 80% (G3)				
Filter check		automatic with pressure sensor				
Modbus RTU rs485		Yes [5]				
Reference climate		cold / temperate / warm				
Energy efficiency class (cold / temperate / hot)		A+ / A / E				
SEC (cold / temperate / hot) [7]	kWh/m^2a	-77.1 / -41.3 / -18.1				
Kit		card with QR-code digital manuals, MVHR filters		card with QR-code digital manuals, MVHR filters		card with QR-code digital manuals, control panel, MVHR filters
Code		**1VMC04010**	**1VMC04022**	**1VMC04021**	**1VMC04012**	**1VMC04027**

1. In hyperventilation mode.
2. The power supply unit provided enables operation with power supply of 230 V AC. To be connected during installation.
3. With 230 V AC supply voltage.
4. According to UNI EN ISO 3744.
5. The functions of the PURE control panel version are lost.
6. Measured 1 m below the unit. Correct with background noise and reverberation times.
7. According to Regulation (EU) No. 1253/2014.
8. Cloud control panel connection required.
9. UNI EN ISO 16890-1.

Technical data

Functions and features	**UOM**	**Flow**M800			
Version		LH STD	LH Pure	RH STD	RH Pure
Night function		●	●	●	●
Hyperventilation		●	●	●	●
Filter replacement alert		●	●	●	●
Comfort function		●	●	●	●
Humidity sensor		●	●	●	●
CO_2 sensor and VOC index		–	●	–	●
Filter replacement pressure sensor		●	●	●	●
Free-cooling / Free-heating		●	●	●	●
Remote control		compatible	compatible	compatible	compatible
Panel LED On/Off		●	●	●	●
Control panel Removable STD		compatible	compatible	compatible	compatible
Control panel Removable cloud		compatible	compatible	compatible	compatible
Helty Home app [8]		compatible	compatible	compatible	compatible
Airflow rate	m^3/h	300/350/500/600/700/800[1]			
Flow adjustment		night + 4 stages + hyperventilation			
Power consumption	W	22/26/46/61/90/138[1]			
Specific power input	$W/m^3/h$	0.07/0.07/0.09/0.1/0.13/0.17[1]			
Supply voltage	V AC	230			
Operating voltage [2]	V DC	24			
Max. current consumption [3]	A	0.7			
MVHR unit weight	kg	73			
FlowM cabinet weight	kg	93			
MVHR unit dimensions (W x H x D)	mm	1320 x 392 x 1020			
FlowM cabinet dimensions (W x H x D)	mm	1236 x 2400 x 450			
Core-drilled holes	mm	2x Ø250			
Heat exchanger		enthalpy cross-flow			
Heat recovery efficiency	%	80/76/74/70/69/64[1]			
Bypass (free cooling/free heating)		electronic automatic			
Sound power level [4]	dB(A)	37.2/39.7/46.7/53.3/57.7/58.7[1]			
Sound pressure [6]	dB(A)	21.5/24/31/37.6/42/43[1]			
Intake filter [9]		Coarse 80% (G3) + ePM1 80% (F9)			
Extraction filter [9]		Coarse 80% (G3)			
Modbus RTU rs485		Yes [5]			
Reference climate		cold / temperate / warm			
Energy efficiency class (cold / temperate / hot)		A+ / A / E			
SEC (cold / temperate / hot) [7]	kWh/m^2a	-77.1 / -41.3 / -18.1			
Kit		card with QR-code digital manuals, cabinet housing with doors, extraction and intake grilles, support brackets, MVHR filters			
Code		**1VMC01048**	**1VMC01055**	**1VMC01047**	**1VMC01056**

1. In hyperventilation mode.
2. The power supply unit provided enables operation with power supply of 230 V AC. To be connected during installation.
3. With 230 V AC supply voltage.
4. According to UNI EN ISO 3744.
5. The functions of the PURE control panel version are lost.
6. Measured 1 m below the unit. Correct with background noise and reverberation times.
7. According to Regulation (EU) No. 1253/2014.
8. Cloud control panel connection required.
9. UNI EN ISO 16890-1.

Accessories

Item	800	800 Steel	800-R Steel	M800	Code
RJ10 coupler + 5m cable	●	●	●	●	1VMCA9913
White BT Living Now adapter for wall control panel	●	●	●	●	1VMC99096
Black BT Living Now adapter for wall control panel	●	●	●	●	1VMC99180
Pipe adapter Ø250mm-Ø125mm x2	●	●	●	●	1VMC99091
IAQ monitor (1)	●	●	●	●	4VMC00000903
Side casing Flow800/1000 Steel	–	●	●	–	1VMC99073
Rear casing Flow800/1000 Steel	–	●	●	–	1VMC99111
Heater ceiling casing Flow800 Steel	–	●	●	–	1VMC99147
Ceiling casing Flow800/1000 Steel	–	●	●	–	1VMC99074
Right outlet heater casing Flow800/1000 Steel	–	●	●	–	1VMC99137
Rear outlet heater casing Flow800/1000 Steel	–	●	●	–	1VMC99145
CO_2 monitor (1)	●	●	●	●	4VMC00000902
Installation template Flow600/800/1000 Steel	–	●	●	–	4VMC00000823
Filter ePM1 80% (F9) + Coarse 80% (G3) Flow800/1000	●	●	●	●	1VMC99050
Filter ePM1 80% (F9) + Coarse 80% (G3) x10 Flow800/1000	●	●	●	●	1VMC99061
External plastic grilles 340x340mm	●	●	●	●	1VMC99083
Horizontal stainless steel external grilles	●	●	●	●	1VMC99084
Vertical stainless steel external grilles	●	●	●	●	1VMC99097
Ionizer Flow/800/1000/M	●	–	–	●	1VMC99090
Ionizer	–	●	●	–	1VMC99089
STD built-in control panel + 5m cable (3)	●	●		●	1VMC99201
Cloud built-in control panel + 5m cable	●	●		●	1VMC99202
Post-heater Flow/800/1000/M	●	–	–	●	1VMC99101
Post-heater Flow800/1000 Steel	–	●	●	–	1VMC99094
Flow800/1000 Steel pre-heater	–	●	●	–	1VMC99149
Radon monitor	–	–	●	–	4VMC00000901
External control panel box 503	●	●	●	●	1VMC99078
Wall support brackets Flow600/800/1000 (2)	–	●	●	–	1VMC99249
Ceiling support brackets Flow600/800/1000 (2)	–	●	●	–	1VMC99248
IR remote control	●	●	●	●	4VMC00000900
ISO flex pipe Ø127mm L5m + 2x hose clamps	●	●	●	●	1VMC99086
ISO flex pipe Ø254mm L5m + 2x hose clamps	●	●	●	●	1VMC99085

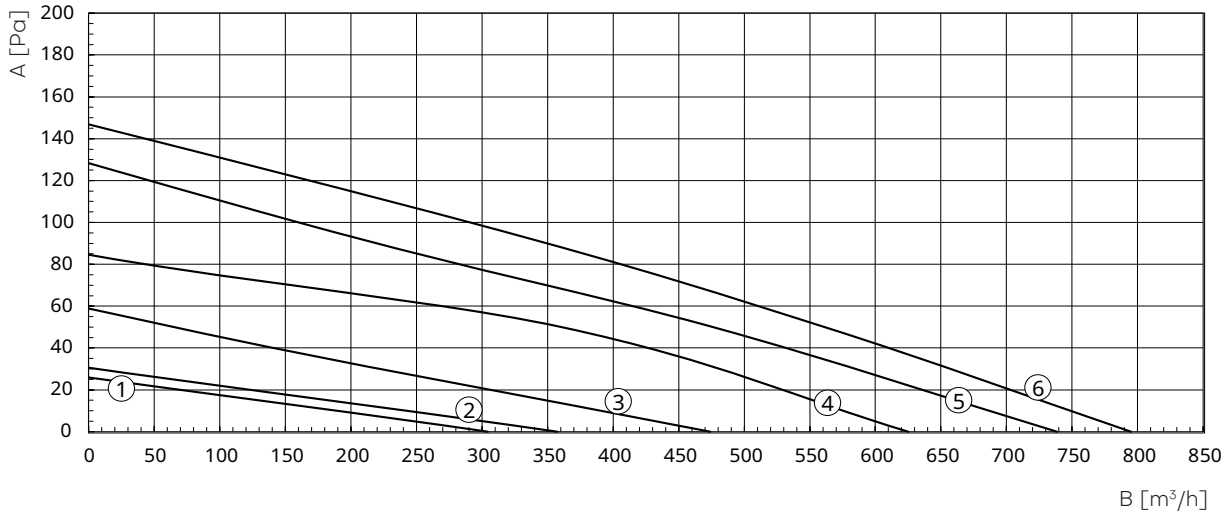
1. Cloud Control Panel required.
2. Required accessory (choose a type of support).
3. Included for Flow800-R.

Flow-head charts

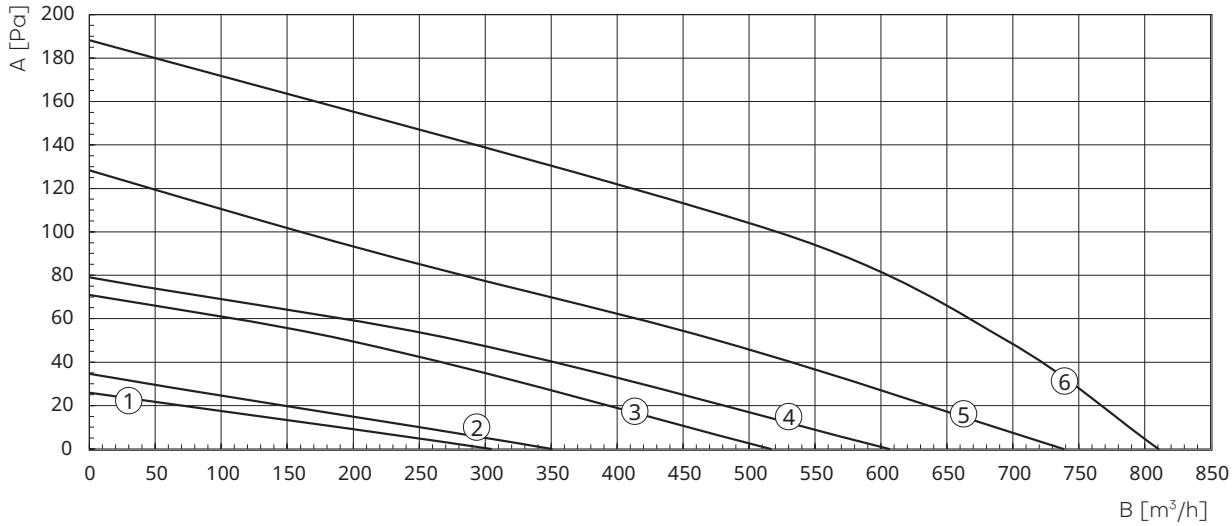
A Head
B Flow rate

1 Super-minimum speed (night)
2 Speed 1
3 Speed 2
4 Speed 3
5 Speed 4
6 Hyperventilation

Flow800 Steel

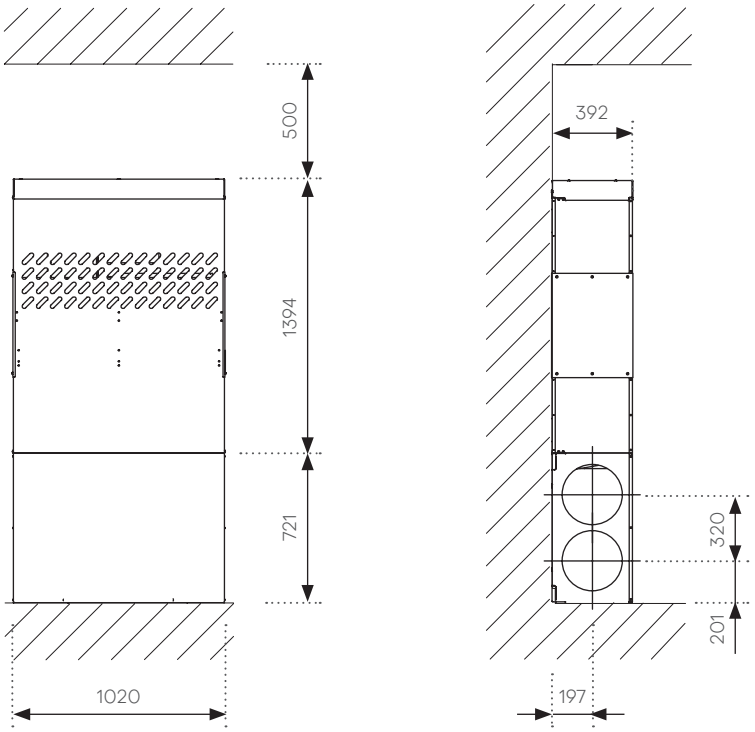


FlowM800

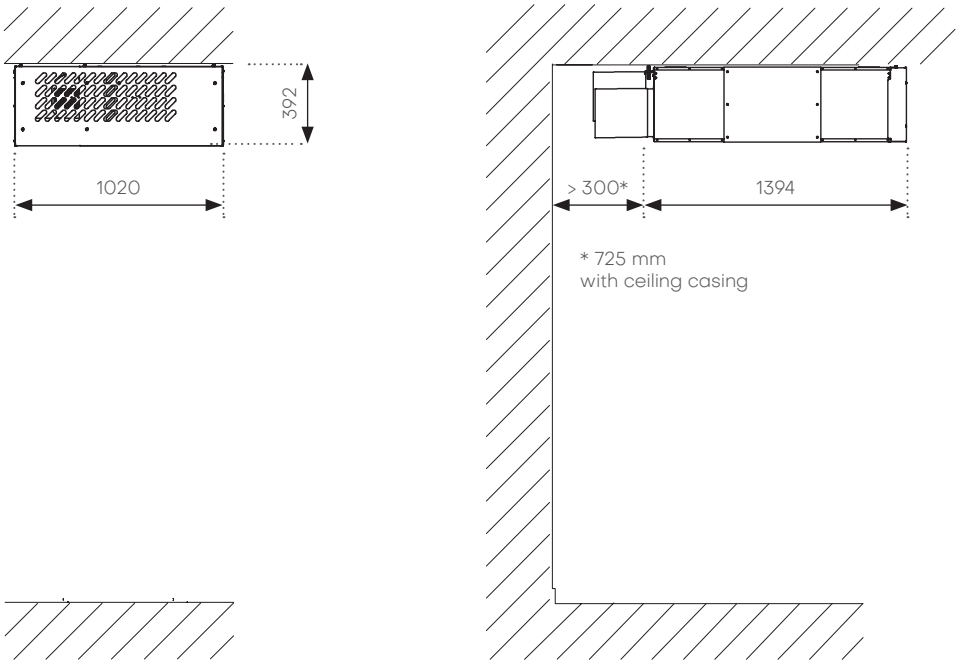


Dimensional drawings

Flow800 Steel
Wall installation



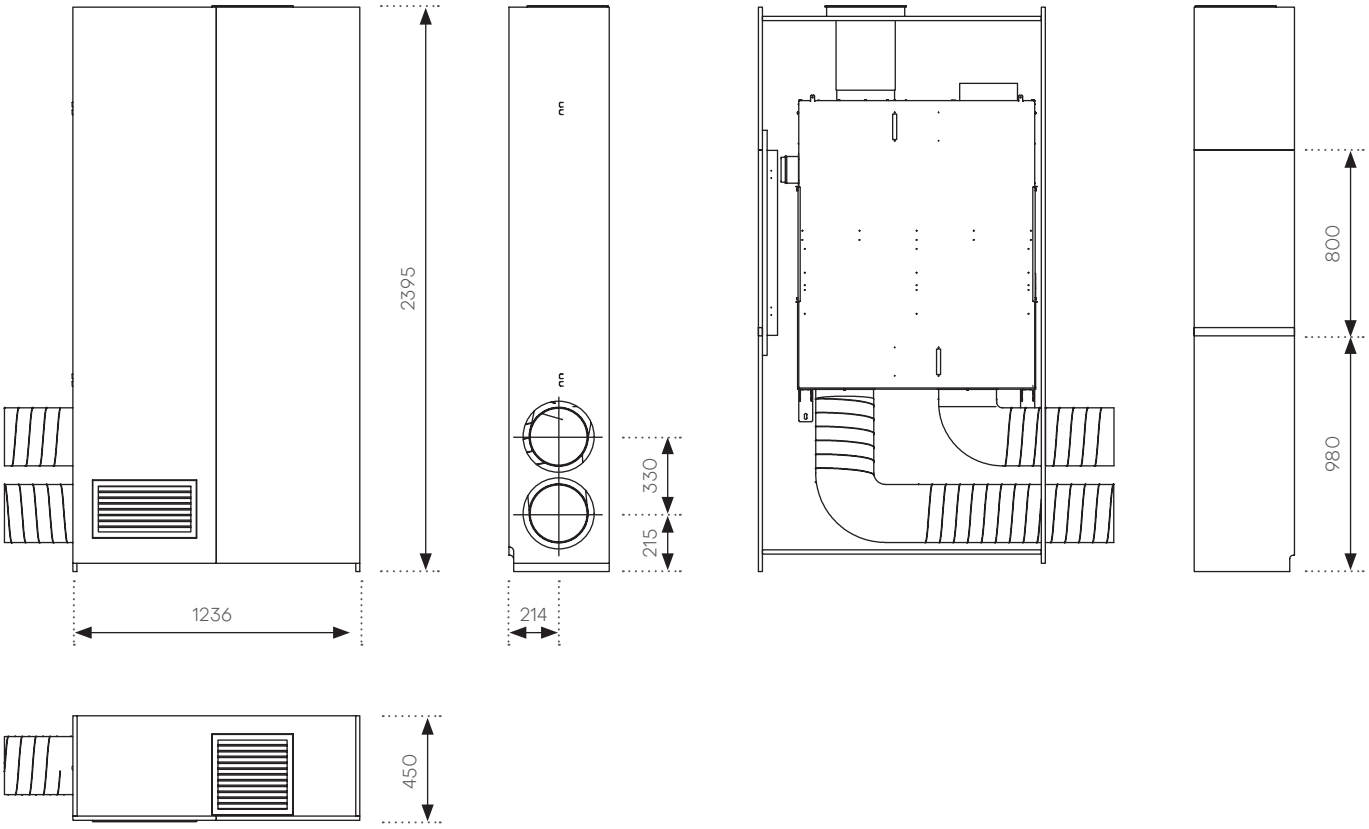
Flow800 Steel
Ceiling installation



Dimensional drawings

FlowM800 – left side

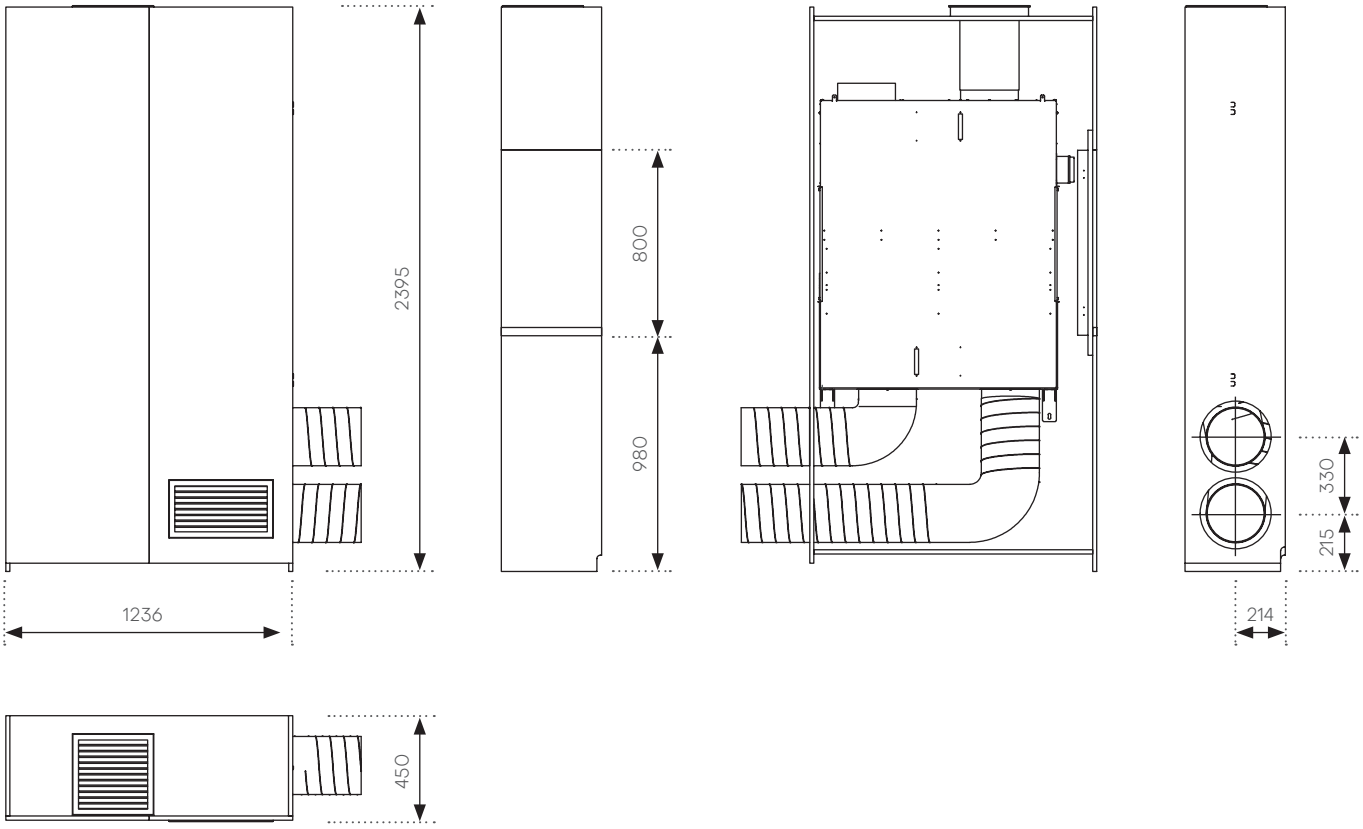
MVHR in wooden cabinet

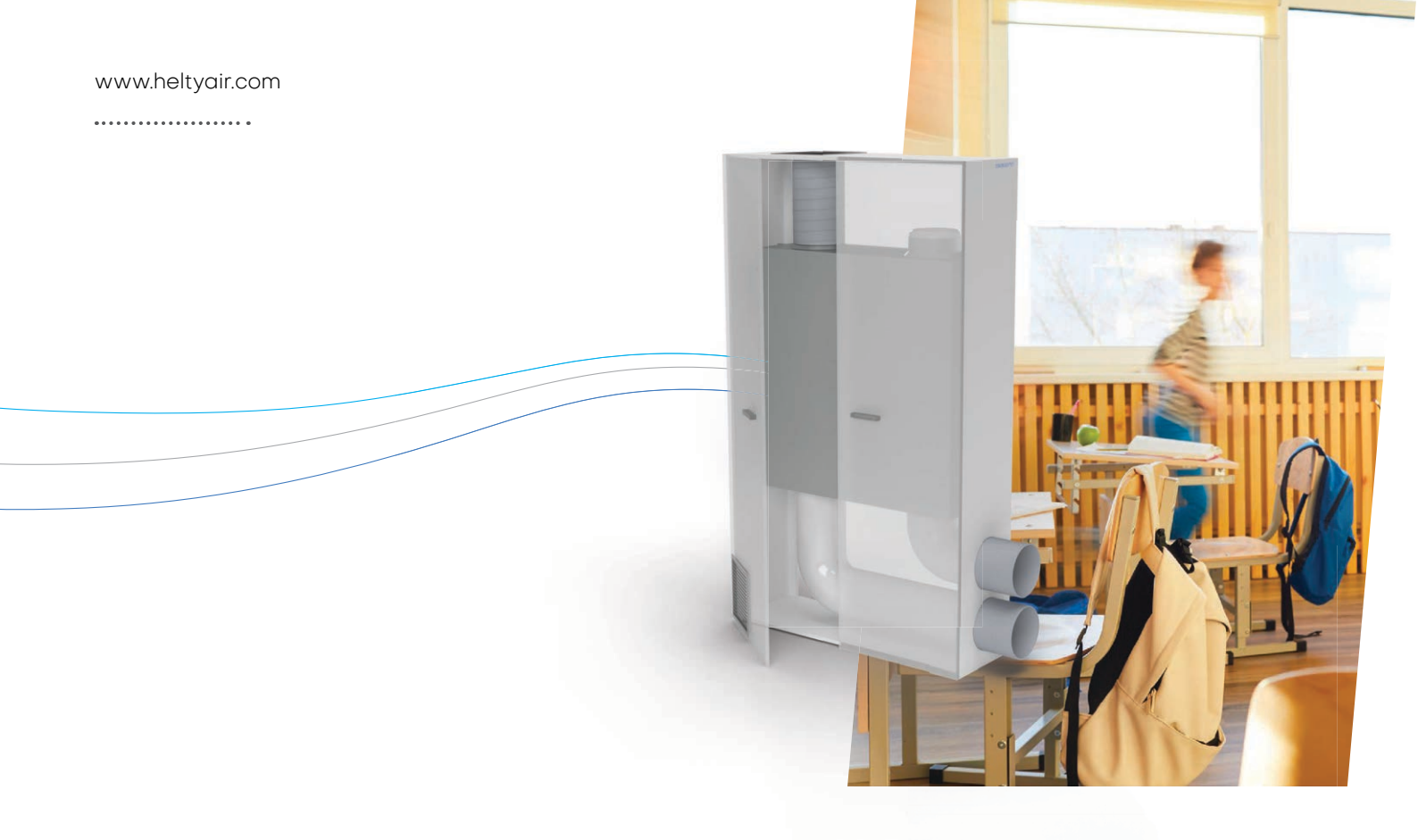


Dimensional drawings

FlowM800 – right side

MVHR in wooden cabinet





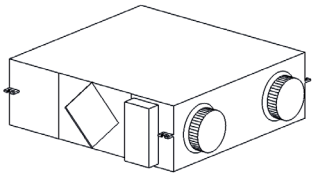
Flow1000

Top-class decentralised ventilation for retrofitting existing buildings

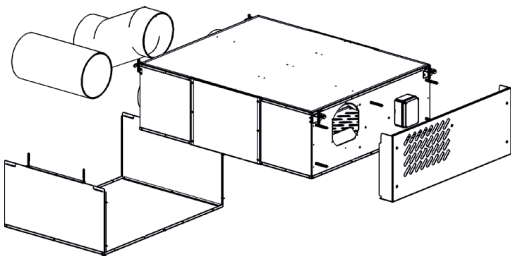
Flow1000 was created to meet the need for optimal air exchange in all **very crowded locations** – such as classrooms, kindergartens, leisure facilities, shared offices, co-working spaces, shops, canteens – where it is essential to have high air quality without sacrificing comfort and energy saving. With **variable airflow of up to 1000 m³/h,** it is ideal for integrating a decentralised MVHR system into existing buildings without resorting to complex and invasive masonry work, while minimising ductwork and installation time. Flow1000 is available as **MVHR unit only**. The **Flow1000 Steel** version is available with white-painted steel cover, for visible installation, whilst the **FlowM1000** is available with a vertical white wooden cabinet.
Features include **80% heat recovery** efficiency, excellent air purification capabilities with Coarse 80% + ePM1 80% (F9) filters. **Ease of maintenance** makes it the ideal solution for a MVHR retrofits with no trade-offs. The installation requires two 250 mm core-drilled holes in the external wall for the air supply and exhaust flows; it can also be managed by means of 4 x 125 mm conduits using accessories.

Even greater sanitisation with ionisation

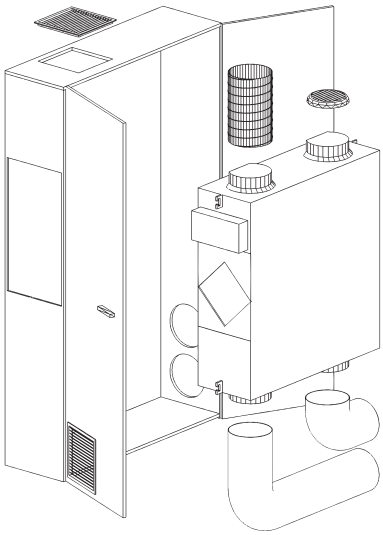
To enhance indoor air purification, the FlowM1000 version can accommodate an energy-efficient active sanitising device that generates **bipolar ions**, developed to provide enclosed indoor environments with the air quality found in nature. **The combined action of air dilution, filtration and sanitisation** reduces the risks of airborne distribution of microbial, bacterial and viral loads.



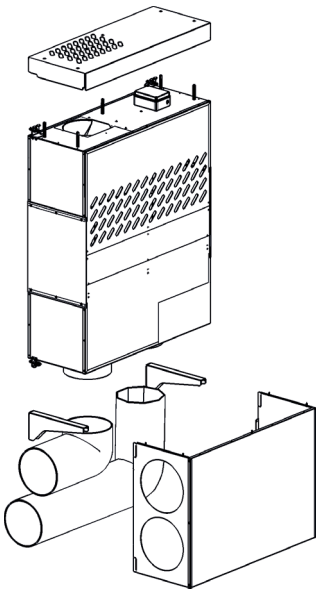
Flow1000
MVHR unit



Flow1000Steel
Ceiling installation



FlowM1000
MVHR in wooden cabinet



Flow1000Steel
Wall installation

80%
Heat recovery efficiency

21.5dB(A)
Minimum sound pressure

1000m^3/h
Maximum airflow

Coarse 80% (G3) + ePM1 80% (F9)
Intake air filtration

-40.4kWh/m^2a
SEC energy consumption (temperate climate)

Energy efficiency class A

Technical data

Functions and features	**UOM**	**Flow**1000		**Flow**1000^{Steel}	
Version		STD	Pure	STD	Pure
Night function		●	●	●	●
Hyperventilation		●	●	●	●
Filter replacement alert		●	●	●	●
Comfort function		●	●	●	●
Humidity sensor		●	●	●	●
CO_2 sensor and VOC index		–	●	–	●
Filter replacement pressure sensor		●	●	●	●
Free-cooling / Free-heating		●	●	●	●
Remote control		compatible	compatible	compatible	compatible
Panel LED On/Off		●	●	●	●
Control panel Removable STD		compatible	compatible	compatible	compatible
Control panel Removable cloud		compatible	compatible	compatible	compatible
Helty Home app [8]		compatible	compatible	compatible	compatible
Airflow rate	m^3/h	300/400/550/700/850/1000[1]			
Flow adjustment		night + 4 stages + hyperventilation			
Power consumption	W	25/44/77/130/210/320[1]			
Specific power input	$W/m^3/h$	25/44/77/130/210/320[1]			
Supply voltage	V AC	230			
Operating voltage	V DC	24			
Max. current consumption [3]	A	1.7			
MVHR unit weight	kg	73		75	
MVHR unit dimensions (W x H x D)	mm	1320 x 392 x 1020		1374 x 395 x 1024	
Core-drilled holes	mm	2x Ø250			
Heat exchanger		enthalpy cross-flow			
Heat recovery efficiency	%	80/75/73/68/63/58[1]			
Bypass (free cooling/free heating)		electronic automatic			
Sound power level [4]	dB(A)	37.2/41.7/48.7/57.7/59.2/60.7[1]		44/48/55/59/64.8/68[1]	
Sound pressure [6]	dB(A)	21.5/26/33/42/43.5/45[1]		29/34/40/45/50/54[1]	
Intake filter [9]		Coarse 80% (G3) + ePM1 80% (F9)			
Extraction filter [9]		Coarse 80% (G3)			
Filter check		automatic with pressure sensor			
Modbus RTU rs485		Yes [5]			
Reference climate		cold / temperate / warm			
Energy efficiency class (cold / temperate / hot)		A+ / A / E			
SEC (cold / temperate / hot) [7]	kWh/m^2a	-76.0 / -40.4 / -17.3			
Kit		card with QR-code digital manuals, MVHR filters			
Code		**1VMC04016**	**1VMC04017**	**1VMC04025**	**1VMC04026**

1. In hyperventilation mode.
2. The power supply unit provided enables operation with power supply of 230 V AC. To be connected during installation.
3. With 230 V AC supply voltage.
4. According to UNI EN ISO 3744.
5. The functions of the PURE control panel version are lost.
6. Measured 1 m below the unit. Correct with background noise and reverberation times.
7. According to Regulation (EU) No. 1253/2014.
8. Cloud control panel connection required.
9. UNI EN ISO 16890-1.

Technical data

Functions and features	**UOM**	**FlowM1000**			
Version		LH STD	LH Pure	RH STD	RH Pure
Night function		●	●	●	●
Hyperventilation		●	●	●	●
Filter replacement alert		●	●	●	●
Comfort function		●	●	●	●
Humidity sensor		●	●	●	●
CO_2 sensor and VOC index		–	●	–	●
Filter replacement pressure sensor		●	●	●	●
Free-cooling / Free-heating		●	●	●	●
Remote control		compatible	compatible	compatible	compatible
Panel LED On/Off		●	●	●	●
Control panel Removable STD		compatible	compatible	compatible	compatible
Control panel Removable cloud		compatible	compatible	compatible	compatible
Helty Home app [8]		compatible	compatible	compatible	compatible
Airflow rate	m^3/h	300/400/550/700/850/1000[1]			
Flow adjustment		night + 4 stages + hyperventilation			
Power consumption	W	25/44/77/130/210/320[1]			
Specific power input	$W/m^3/h$	0.08/0.11/0.14/0.19/0.25/0.32[1]			
Supply voltage	V AC	230			
Operating voltage [2]	V DC	24			
Max. current consumption [3]	A	1.7			
MVHR unit weight	kg	73			
FlowM cabinet weight	kg	93			
MVHR unit dimensions (W x H x D)	mm	1320 x 392 x 1020			
FlowM cabinet dimensions (W x H x D)	mm	1236 x 2400 x 450			
Core-drilled holes	mm	2x Ø250			
Heat exchanger		enthalpy cross-flow			
Heat recovery efficiency	%	80/75/73/68/63/58[1]			
Bypass (free cooling/free heating)		electronic automatic			
Sound power level [4]	dB(A)	37.2/41.7/48.7/57.7/59.2/60.7[1]			
Sound pressure [6]	dB(A)	21.5/26/33/42/43.5/45[1]			
Intake filter [9]		Coarse 80% (G3) + ePM1 80% (F9)			
Extraction filter [9]		Coarse 80% (G3)			
Modbus RTU rs485		Yes [5]			
Reference climate		cold / temperate / warm			
Energy efficiency class (cold / temperate / hot)		A+ / A / E			
SEC (cold / temperate / hot) [7]	kWh/m^2a	-76.0 / -40.4 / -17.3			
Kit		card with QR-code digital manuals, cabinet housing with doors, extraction and intake grilles, support brackets, MVHR filters			
Code		**1VMC01053**	**1VMC01054**	**1VMC01051**	**1VMC01052**

1. In hyperventilation mode.
2. The power supply unit provided enables operation with power supply of 230 V AC. To be connected during installation.
3. With 230 V AC supply voltage.
4. According to UNI EN ISO 3744.
5. The functions of the PURE control panel version are lost.
6. Measured 1 m below the unit. Correct with background noise and reverberation times.
7. According to Regulation (EU) No. 1253/2014.
8. Cloud control panel connection required.
9. UNI EN ISO 16890-1.

Accessories

Item	1000	1000 Steel	M1000	Code
RJ10 coupler + 5m cable	●	●	●	1VMCA9913
White BT Living Now adapter for wall control panel	●	●	●	1VMC99096
Black BT Living Now adapter for wall control panel	●	●	●	1VMC99180
Pipe adapter Ø250mm–Ø125mm x2	●	●	●	1VMC99091
IAQ monitor (1)	●	●	●	4VMC00000903
Side casing Flow800/1000Steel	–	●	–	1VMC99073
Rear casing Flow800/1000Steel	–	●	–	1VMC99111
Heater ceiling casing Flow800Steel	–	●	–	1VMC99147
Ceiling casing Flow800/1000Steel	–	●	–	1VMC99074
Right outlet heater casing Flow800/1000Steel	–	●	–	1VMC99137
Rear outlet heater casing Flow800/1000Steel	–	●	–	1VMC99145
CO_2 monitor (1)	●	●	●	4VMC00000902
Installation template Flow600/800/1000Steel	–	●	–	4VMC00000823
Filter ePM1 80% (F9) + Coarse 80% (G3) Flow800/1000	●	●	●	1VMC99050
Filter ePM1 80% (F9) + Coarse 80% (G3) x10 Flow800/1000	●	●	●	1VMC99061
External plastic grilles 340x340mm	●	●	●	1VMC99083
Horizontal stainless steel external grilles	●	●	●	1VMC99084
Vertical stainless steel external grilles	●	●	●	1VMC99097
Ionizer Flow/800/1000/M	●	–	●	1VMC99090
Ionizer	–	●	–	1VMC99089
STD built-in control panel + 5m cable	●	●	●	1VMC99201
Cloud built-in control panel + 5m cable	●	●	●	1VMC99202
Post-heater Flow/800/1000/M	●	–	●	1VMC99101
Post-heater Flow800/1000Steel	–	●	–	1VMC99094
Flow800/1000Steel pre-heater	–	●	–	1VMC99149
External control panel box 503	●	●	●	1VMC99078
Wall support brackets Flow600/800/1000 (2)	–	●	–	1VMC99249
Ceiling support brackets Flow600/800/1000 (2)	–	●	–	1VMC99248
IR remote control	●	●	●	4VMC00000900
ISO flex pipe Ø127mm L5m + 2x hose clamps	●	●	●	1VMC99086
ISO flex pipe Ø254mm L5m + 2x hose clamps	●	●	●	1VMC99085

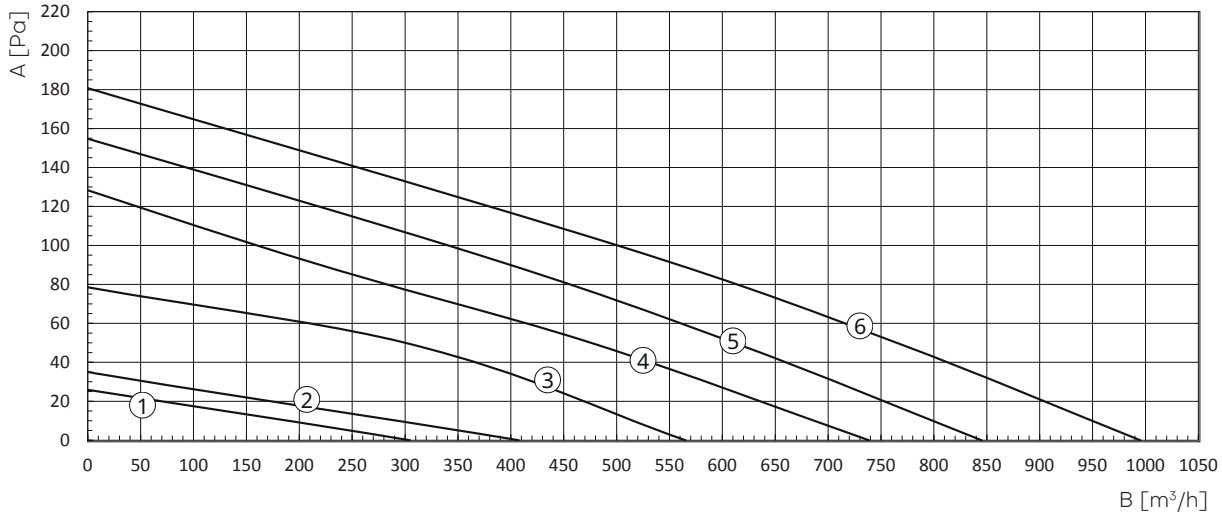
1. Cloud Control Panel required.
2. Required accessory (choose a type of support).

Flow-head charts

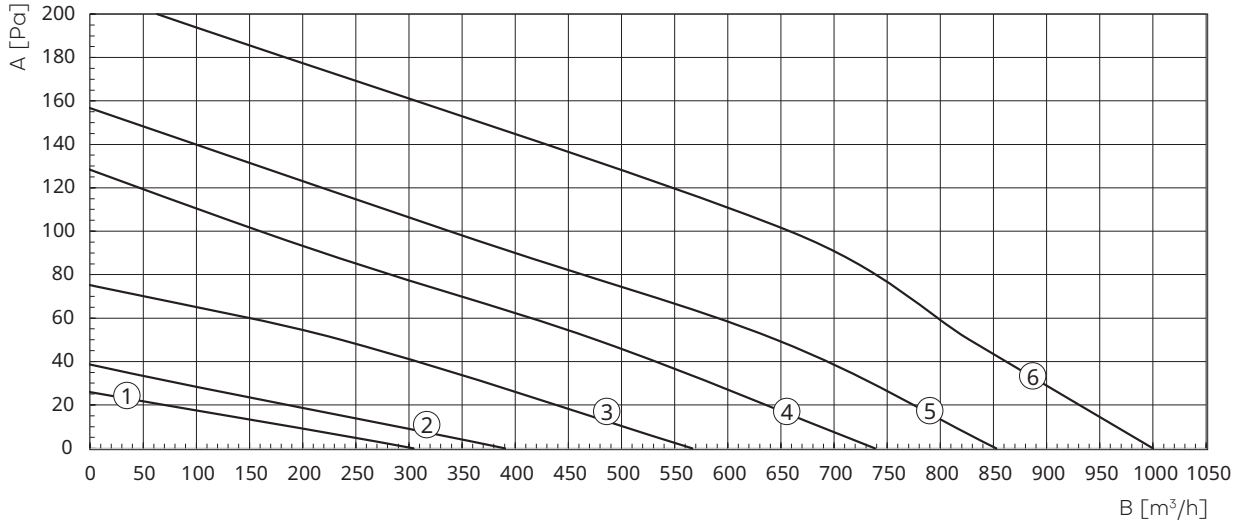
A Head
B Flow rate

1 Super-minimum speed (night)
2 Speed 1
3 Speed 2
4 Speed 3
5 Speed 4
6 Hyperventilation

Flow1000 Steel

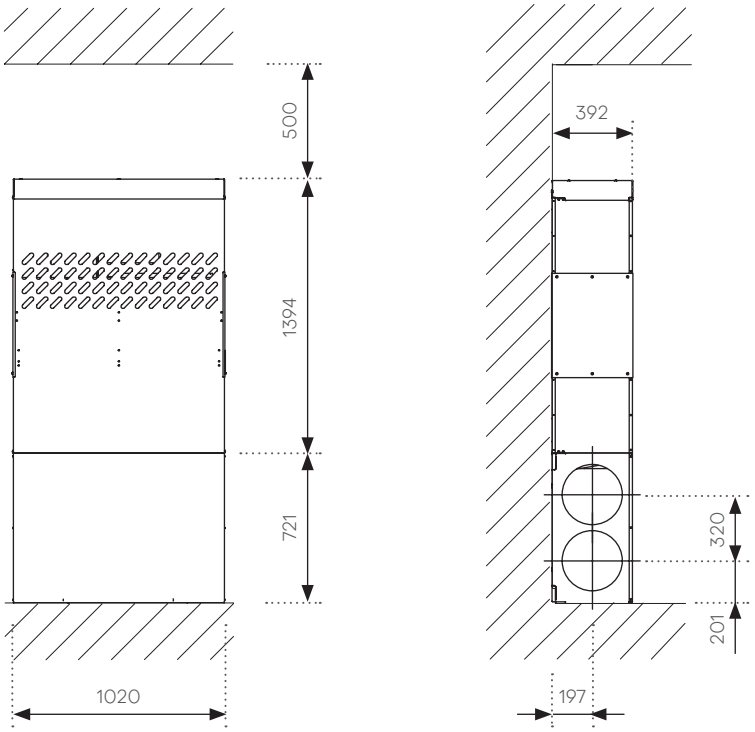


FlowM1000

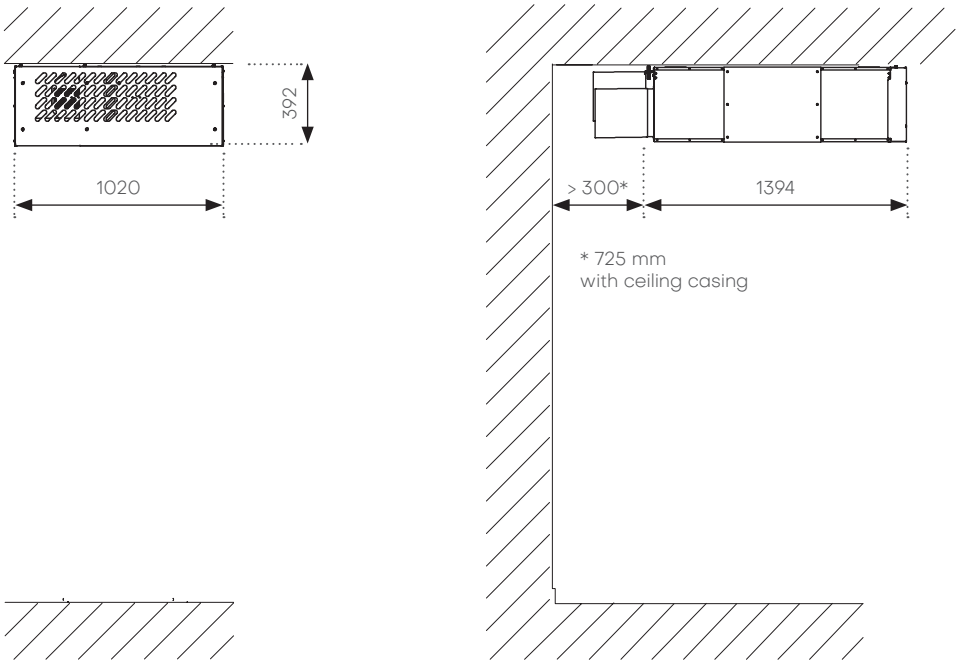


Dimensional drawings

Flow1000Steel
Wall installation



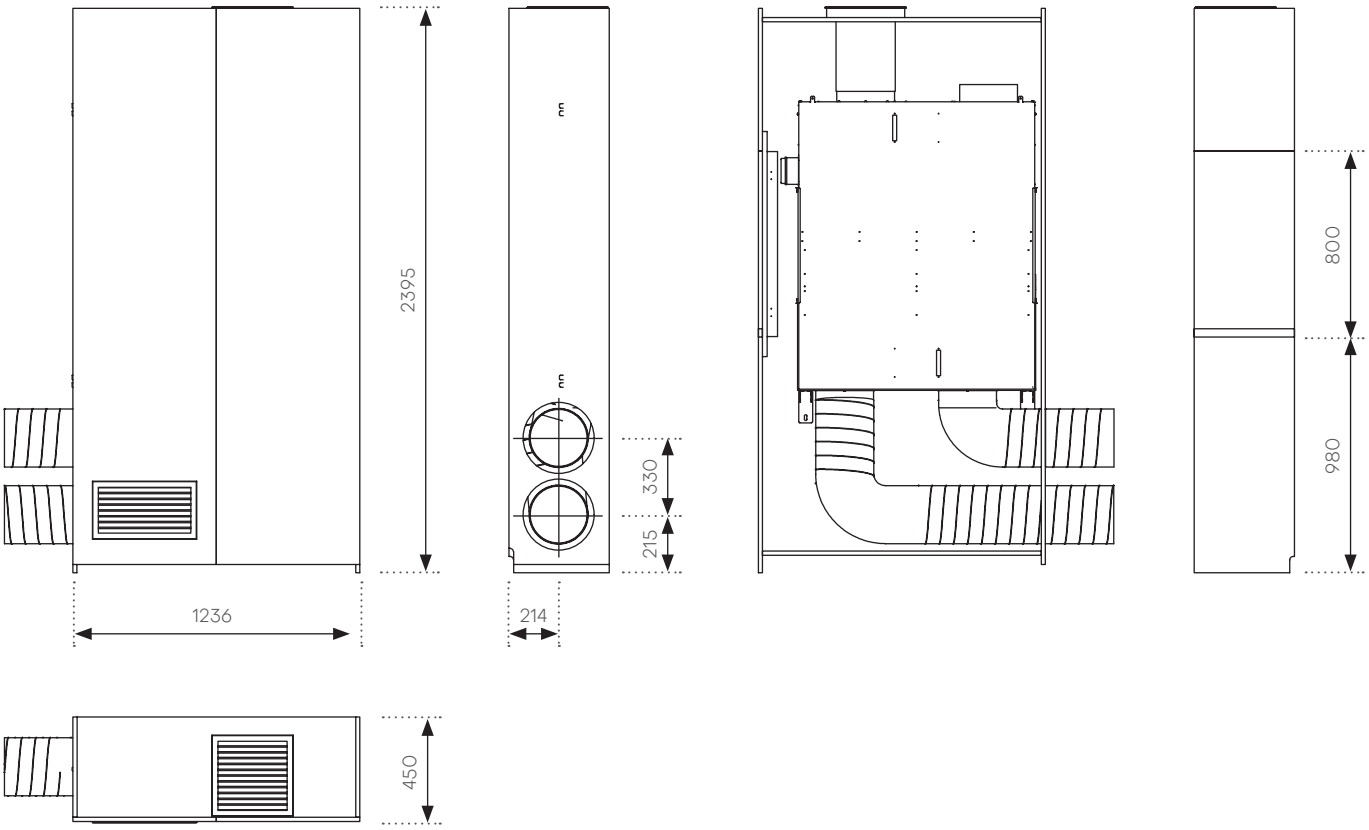
Flow1000Steel
Ceiling installation



Dimensional drawings

FlowM1000 – left side

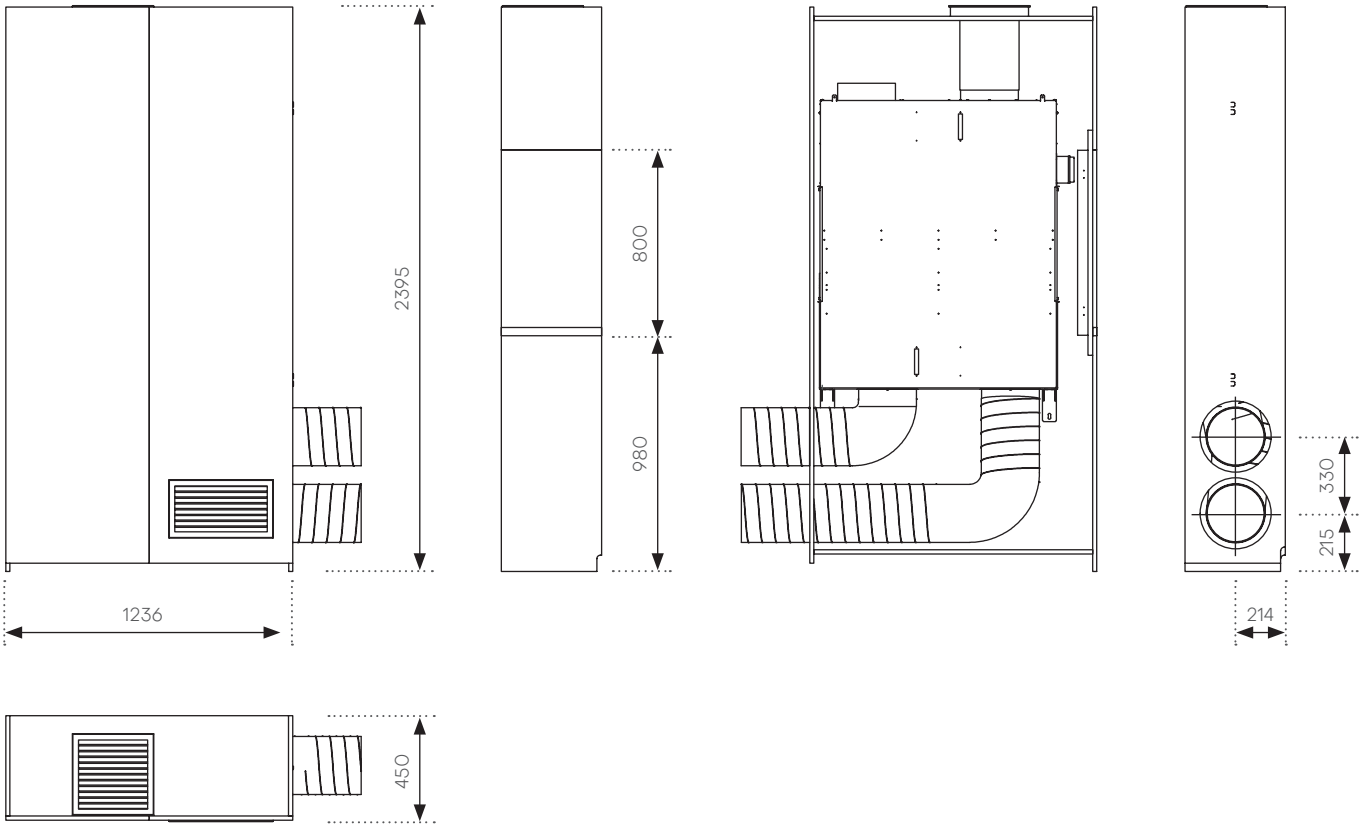
MVHR in wooden cabinet



Dimensional drawings

FlowM1000 – right side

MVHR in wooden cabinet

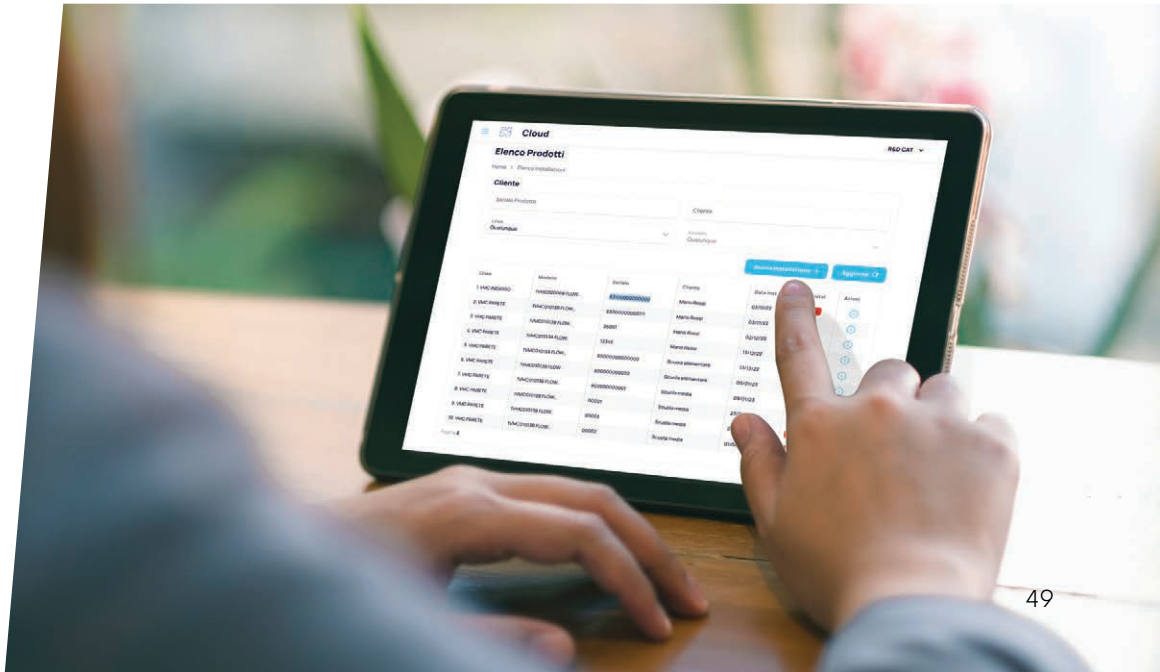


HCloud

MVHR control, software updates, IAQ data monitoring and customised scenario creation. Full-remote management for Technical Service Centres.

HCloud is **Helty's web-based platform** for **managing and constantly controlling the operating status and settings** individual MVHR Community units. The WebApp can be used to intervene promptly to **check the condition of the machines and provide remote technical support** when needed. The web application, created with a full-managed approach, i.e. to check the status of the units and initiate software updates, is designed for a specialised technical user and, in particular at the Helty network's Technical Service Centres.

One of the most recent innovations is the **possibility of setting customised scenarios** on individual MVHRs installed in different rooms and planning target maintenance operations, facilitating increasingly intelligent and sustainable management. HCloud allows **real-time monitoring of the status of the main parameters affecting air health** and **reading IAQ data trend history in the rooms**. You can **create and set pre-configured scenarios**, such as the start-up or shutdown of the MVHR system or specific airflow rates on specific days and time slots, to optimise the operation of the ventilation unit according to the air exchange and comfort needs of the room while minimising energy consumption.



Case studies and success stories

School in Fontaniva (Padova, Italy)

58 classrooms in three school buildings were renovated installing a decentralised heat recovery ventilation system for forced air circulation and air filtration in classrooms. A forward-thinking intervention funded by the local authorities **to increase safety for students and teachers and promote learning.**

Helty FlowM800, a MVHR in a cabinet structure, was chosen as the ideal solution for its technical characteristics, its streamlined design and its flexible site management features, with installation work that is not too invasive. The work on the three school buildings **was completed during the summer holidays.**

Watch the video on the Fontaniva case study

Prefabricated school in Lugano (Switzerland)

In Lugano, a temporary school building was set up in just 6 months and equipped with Helty decentralised double-flow MVHR solutions for **correct and optimal air change management in 100 classrooms**.
The structure was designed to accommodate students while the permanent school building was being renovated and is equipped with all the technologies and comforts of a modern building, including **a heat recovery ventilation system, which was fundamental to ensure indoor well-being all year round**.

The Helty decentralised MVHR solutions were **chosen to best meet the flexibility needs of the building, also due to the speed of delivery and the many customisation options** for individual units, which can be integrated into false ceilings, with lights or shades. MVHR Flow800 units were installed in all 100 classrooms. These powerful and versatile machines have a flow rate of up to 800 m^3/hour and high performance in terms of air filtration and purification, acoustic performance (they are very quiet) and energy savings. The "Free Cooling" night function, which cools the spaces when they are unoccupied, is an added bonus.

Watch the video on the Lugano case study

Primary school in Volon di Zevio (Verona, Italy)

The San Pio X Primary School in Volon (Verona, Italy) was the site of one of the first tests on the functionality and effectiveness of the heat recovery ventilation system following the installation of a Flow M800 model donated by Helty. The monitoring conducted in a classroom confirmed **that the decentralised MVHR system ensures the reduction of CO_2 concentration in the classroom by up to four times compared to the conditions observed in the absence of heat recovery ventilation.**

Kindergarten in Malo (Vicenza, Italy)

A Helty Flow800 MVHR system was installed in the "Il Melograno" kindergarten in Malo to provide healthy air. Two heat recovery ventilation units, one in the common area and one in the dormitory, constantly renew the air, filtering pollutants and ensuring a healthier environment for children and educators.

Watch the video on the Malo case study

All the advantages of MVHR in classrooms and offices

Heat recovery ventilation is the **winning technology to ensure healthy and functional school environments** for proper learning, while promoting **energy efficiency practices** as well.

// They continuously renew the air without needing to open the windows.

// They allows efficient ventilation management, reducing energy waste.

// They reduce the concentration of biological, chemical, and physical pollutants through dilution

// They create a comfortable microclimate, with stable temperature and controlled humidity

// They keep CO_2 levels within optimal values, avoiding drowsiness and improving concentration

They renovate schools in a simple and smart way

In addition to simplifying renovations and system upgrades in schools, the "single classroom" ventilation technology proposed by Helty offers several advantages:

// it avoids air recirculation across environments, further minimising the risk of spreading pollutants and viruses

// it reduces maintenance and air duct sanitisation operations to a minimum

// it contributes to achieving energy-saving goals by implementing a heat exchanger with an efficiency of up to 92%

// it allows for more functional system use with units that can be turned on only when the spaces are actually occupied and modulated to variable airflows based on needs

// it allows integration with advanced Building & Automation Control Systems (BACS) to automate and optimise the management of the MVHR system according to comfort and energy-saving objectives

Helty: the MVHR specialists

Helty is the Alpac Group company specialising in the **development of smart solutions for heat recovery ventilation and indoor comfort,** with air filtering and heat recovery.
It is part of the **Alpac Group**, a industrial enterprise based in northern Italy with over **40 years of experience** in the design and production of advanced technologies for energy efficiency and comfort in construction.

Helty's mission is to spread the culture of air quality and improve the quality of life in indoor spaces, such as homes, schools and offices. The company offers **the most extensive range of decentralised double-flow MVHR systems for air exchange and purification**: compact, technologically advanced ventilation units with certified performance, capable of combining high levels of air quality and maximum energy savings.

Frame the QR-code and fill in the form

Book a free consultation with a Helty technical advisor

ESG: well-being and sustainable development

Choosing Helty means choosing a technology that not only improves living comfort and facilitates energy savings, but has been created with a minimal ecological footprint, **for a sense of well-being that looks to future generations.** The quality of the air we breathe is inextricably linked to the **health of the planet** we inhabit. For Helty, sustainability is not merely an abstract concept, but rather a strategic lever that guides every decision. As part of the Alpac Group, we have embarked on a **path of responsible evolution that integrates ESG (Environmental, Social, Governance)** criteria at the heart of our business model. We want to build a sustainable future that **combines technological innovation with a deep respect for the environment and a focus on people.**

Find out more

A real, measurable commitment

Through the publication of our **Sustainability Report**, we make our commitment to reducing our environmental impact and ensuring transparent governance processes visible and measurable, working to generate lasting value not only for our customers but for the entire community.

We adopt a rigorous **eco-design** approach, prioritising the use of certified, recycled and recyclable raw materials. We monitor greenhouse gas (GHG) emissions to optimise production processes and **reduce energy waste. The well-being of our employees** is at the heart of our corporate strategy: we promote safe, inclusive and stimulating work environments, where professional growth and **gender equality** are absolute priorities. This ethical commitment also extends externally, through the careful selection of partners. We collaborate with a **responsible supply chain**, prioritising suppliers who share our ESG values.

HELTY

Pure air for your home

Healthy breathing in every room

#healthybreathing

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