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Flow1000

Top-class decentralised ventilation for retrofitting existing buildings

Flow1000, the latest addition to the HRV Community family, 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 HRV system into existing buildings without resorting to complex and invasive masonry work, while minimising ductwork and installation time. Flow1000 is available not only as HRV unit only but as Flow1000

Steel - with white-painted steel cover, for visible installation - Flow1000 Silent - with white-painted wooden masking cover for ceiling installations - and FlowM1000 with vertical white wooden cabinet structure. Features include 80% heat recovery efficiency, excellent air purification capabilities with Coarse 80% + ePM1 80% filters. Ease of maintenance makes it the ideal solution for a HRV retrofits with no tradeoffs. The installation requires two 250 mm coring 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.

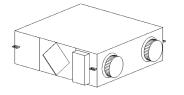
Even greater sanitisation with ionisation

To enhance indoor air purification, the Flow1000 Silent and M1000 versions can accommodate an energy-efficient active sanitising device that generates **bipolar ions**, developed to provide confined indoor environments with the air quality found in nature. **The combined action of**

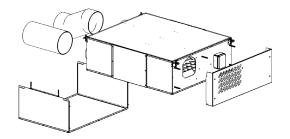
air dilution, filtration and sanitisation reduces the risks of airborne distribution of microbial, bacterial and viral loads.



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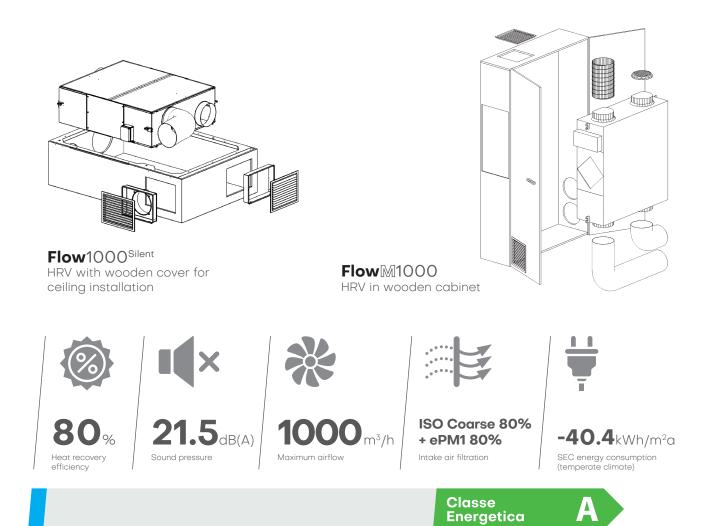


Flow1000 HRV unit



Flow1000^{Steel} Ceiling installation

Flow1000^{Steel} Wall-mounted installation



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Technical data

Functions and features	UOM	Flow	1000	Flow1000 ^{Steel}		
Version		STD	Pure	STD	Pure	
Night function		•	•	•	•	
Hyperventilation		•	•	•	•	
Filter replacement alert	••••••	•	•	•	•	
Humidity sensor	•••••	-	•	-	•	
CO ₂ and VOC sensor	••••••	-	•	-	•	
Free Cooling	••••••	•	•	•	•	
Control panel Removable STD	••••••	optional	optional	optional	optional	
Control panel Removable cloud	•••••	optional	optional	optional	optional	
On/Off LED panel	•••••	•	•	•	•	
Helty Home app ⁽¹⁾	•••••	optional	optional	optional	optional	
HCloud connection (1)	•••••	optional	optional	optional	optional	
Airflow rate	m³/h		300/400/550/	700/850/1000 ⁽²⁾		
Flow adjustment		night + 4 stages + hyperventilation				
Power consumption	W	25/44/77/130/210/320 ⁽²⁾				
Supply voltage	V AC	230				
Max. current consumption (3)	A	1.7				
HRV unit weight	kg	73		75		
HRV unit dimensions (W x H x D)	mm	1320 x 39	2 x 1020	1374 x 395 x 1024		
Heat exchanger		enthalpy cross-flow				
Heat recovery efficiency	%	80				
Bypass (free cooling/free heating)		manual electronic				
Sound power level (4)	dB(A)	37.2/41.7/48.7/5	57.7/59.2/60.7 ⁽²⁾	44/48/55/59/64.8/68 ⁽²⁾		
Sound pressure ⁽⁵⁾	dB(A)	21.5/26/33/4	12/43.5/45 ⁽²⁾	29/34/40/45/50/54 ⁽²⁾		
Intake filter		ISO Coarse 80% + ePM1 80%				
Extraction filter		ISO Coarse 80%				
Modbus RTU rs485		Yes ⁽⁸⁾				
Reference climate	••••••	cold / temperate / warm				
Energy efficiency class (cold / temperate / hot)	*****	A+ / A / E				
SEC (cold / temperate / warm) ⁽⁶⁾	kWh/m²a	-76.0 / -40.4 / -17.3				
Internal leakage ⁽⁷⁾	%	2				
External leakage ⁽⁷⁾	%	1				
Rated external pressure Δ ps. ext ⁽⁶⁾	Pa	34	0	130		
Internal pressure drop Δ ps.int ⁽⁶⁾	Pa	800		700		
Energy performance filters ⁽⁶⁾	•••••	A+			•••••••••••••••	
Kit	••••••	installation mar		installation manual, HRV filters		
Code	•••••	1VMC04016	1VMC04017	1VMC04025	1VMC04026	

Cloud control panel connection required
 In hyperventilation mode
 With 230 V AC supply voltage

According to UNI 3744:2010
 Measured 1 m below the unit, corrected with background noise and reverberation times

According to Regulation (EU) No. 1253/2014
 In accordance with EN 13141-8:2014-09
 The Cloud control panel functions are lost



Technical data

Functions and features	nctions and features UOM Flow1000 ^{Silent}		000 ^{Silent}	Flow [M1000			
Version		STD	Pure	LH STD	LH Pure	RH STD	RH Pure
Night function		٠	•	•	٠	٠	٠
Hyperventilation	•••••	•	•	•	٠	•	٠
Filter replacement alert	*****	•	•	•	٠	•	•
Humidity sensor	•••••	-	•	-	٠	-	•
CO ₂ and VOC sensor	•••••	-	•	-	•	-	•
Free Cooling	•••••	•	•	•	•	•	•
Control panel Removable STD	•••••	optional	optional	optional	optional	optional	optional
Control panel Removable cloud	•••••	optional	optional	optional	optional	optional	optional
On/Off LED panel	•••••	•	•	•	•	•	•
Helty Home app ⁽⁷⁾	•••••	optional	optional	optional	optional	optional	optional
HCloud connection ⁽⁷⁾	•••••	optional	optional	optional	optional	optional	optional
Airflow rate	m³/h	•••••	3	500/400/550/7	00/850/1000	••••••	•••••
Flow adjustment	•••••	•••••	night + 4 stages + hyperventilation				
Power consumption	W	••••••		• •••••••	••••••	••••••	
Supply voltage	V AC	•••••	25/44/77/130/210/320 230				
Max. current consumption ⁽²⁾	Α		17				
HRV unit weight	kg	73					
Wooden cover weight	kg	60		-			
FlowM cabinet weight	kg	-		93			
HRV unit dimensions (W x H x D)	mm	1320 x 3	 92 x 1020	1374 x 395 x 1024			
Wooden cover dimensions (W x H x D)	mm	1797 x 475 x 1213		•••••	•••••	-	
FlowM cabinet dimensions (W x H x D)	mm	•••••••••••••••••••••••••••••••••••••••		400 x 450			
Heat exchanger	••••••	enthalpy cross-flow				•••••	
Heat recovery efficiency	%	80					
Bypass (free cooling/free heating)	•••••	manual electronic					
Sound power level ⁽³⁾	dB(A)	37.2/41.7/48.7/57.7/59.2/60.7					
Sound pressure ⁽⁵⁾	dB(A)	21.5/26/33/42/43.5/45					
Intake filter		ISO Coarse 80% + ePM1 80%					
Extraction filter	•••••	ISO Coarse 80%					
Modbus RTU rs485	•••••	Yes ⁽⁸⁾					
Reference climate	•••••						
•••••••••••••••••••••••••••••••••••••••	••••••	cold / temperate / warm					
Energy efficiency class (cold / temperate / hot) SEC (cold / temperate / warm) ⁽⁶⁾	kWh/m²a	A+ / A / E -76.0 / -40.4 / -17.3					
Internal leakage ⁽⁴⁾	%	-70.0 / -40.4 / -17.5					
External leakage ⁽⁴⁾	%	1					
Rated external pressure Δ ps. ext ⁽⁶⁾	••••••	430					
Internal pressure drop Δ ps.int ⁽⁶⁾	Pa Pa						
	FU	A+					
Energy performance filters ⁽⁶⁾	••••••	installation m	nanual ceilina		•••••	••••••	
Kit		installation manual, ceiling cabinet with intake and extraction grills, support frame, HRV filters		installation manual, cabinet housing with doors, extraction and intake grills, support brackets, HRV filters			
Code	•••••	1VMC04018	1VMC04019	1VMC01053	1VMC01054	1VMC01051	1VMC01052

In hyperventilation mode
 With 230 V AC supply voltage
 According to UNI 3744:2010

In accordance with EN 13141-8:2014-09
 Measured 1 m below the unit. Correct with background noise and reverberation times

According to Regulation (EU) No. 1253/2014
Cloud control panel connection required
The Cloud control panel functions are lost

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Accessories and spare parts

External grills 340x340 mm plasticAccessoriesIVMC99083External harizontal stainless-steel grillsAccessoriesIVMC99084Exterior vertical stainless-steel grillsAccessoriesIVMC99097ISO flex tube Ø127 mm L 5m + x2 clampsAccessoriesIVMC99086ISO flex tube Ø254 mm L 5m + x2 clampsAccessoriesIVMC99085Tube adapter 120x60 mm Ø125 mm x4AccessoriesIVMC99091Flow800/1000 side casingAccessoriesIVMC99073Flow800/1000 side casingAccessoriesIVMC99074Flow800/1000 ceri casingAccessoriesIVMC99074Flow800/1000 steel pre-heaterAccessoriesIVMC99094Flow800/1000 Steel pre-heaterAccessoriesIVMC99094Flow800/1000 Steel pre-heaterAccessoriesIVMC99094Flow800/1000 Steel pre-heaterAccessoriesIVMC99088STD flush-mounted control panel + 5m cableAccessoriesIVMC99088STD flush-mounted control panel + 5m cableAccessoriesIVMC90081External control panel + 5m cableAccessoriesIVMC99078Steel ionizerAccessoriesIVMC99089Flow800/1000 and Silent ionizerAccessoriesIVMC99090CO2 monitor (⁰)AccessoriesIVMC99090CO2 monitor (⁰)AccessoriesIVMC99090CO2 monitor (⁰)AccessoriesIVMC99090CO2 monitor (⁰)AccessoriesIVMC99090Coarse filter pre-heater x10FiltersIVMC99163Filter ePM180% + Coarse80%Flow800FiltersIVMC99050 </th <th>Article</th> <th>Туре</th> <th colspan="3">Code</th>	Article	Туре	Code		
External grills 340x340 mm plasticAccessoriesIVMC99083External horizontal stainless-steel grillsAccessoriesIVMC99084Exterior vertical stainless-steel grillsAccessoriesIVMC99087ISO flex tube Ø/27 mm L 5m + x2 clampsAccessoriesIVMC99086ISO flex tube Ø/27 mm L 5m + x2 clampsAccessoriesIVMC99086ISO flex tube Ø/264 mm L 5m + x2 clampsAccessoriesIVMC99085Tube adapter 120x60 mm Ø/125 mm x4AccessoriesIVMC99091Flow800/1000 side casingAccessoriesIVMC99073Flow800/1000 ceiling casingAccessoriesIVMC99074Flow800/1000 steel pre-heaterAccessoriesIVMC99111Flow800/1000 Steel pre-heaterAccessoriesIVMC99044Flow800/1000 Steel pre-heaterAccessoriesIVMC99041Flow800/1000 Steel post-heaterAccessoriesIVMC99048Flow800/1000 Steel post-heaterAccessoriesIVMC99041Flow800/1000 Steel post-heaterAccessoriesIVMC99048Sto T flush-mounted control panel + 5m cableAccessoriesIVMC90066Cloud recessed control panel + 5m cableAccessoriesIVMC99078Steel ionizerAccessoriesIVMC99079Row800/1000M and Silent ionizerAccessoriesIVMC99090C0, monitor ⁽¹⁾ AccessoriesIVMC99090C0, monitor ⁽¹⁾ AccessoriesIVMC990903Coarse filter pre-heater x10FiltersIVMC99045Filter ePM180% + Coarse80%Flow800FiltersIVMC99050	Flow600/800/1000 template		4VMC0000823		
External horizontal stainless-steel grillsAccessoriesIVMC99084Exterior vertical stainless-steel grillsAccessoriesIVMC99097ISO flex tube Ø127 mm L 5m + x2 clampsAccessoriesIVMC99086ISO flex tube Ø254 mm L 5m + x2 clampsAccessoriesIVMC99085Tube adapter 120x60 mm Ø125 mm x4AccessoriesIVMC99091Flow800/1000 side casingAccessoriesIVMC99073Flow800/1000 ceiling casingAccessoriesIVMC99074Flow800/1000 steel pre-heaterAccessoriesIVMC99111Flow800/1000 Steel pre-heaterAccessoriesIVMC99094Flow800/1000 Steel post-heaterAccessoriesIVMC99094Flow800/1000 Steel post-heaterAccessoriesIVMC99094Flow800/1000 Steel post-heaterAccessoriesIVMC99088STD flush-mounted control panel + 5m cableAccessoriesIVMC900601Cloud recessed control panel + 5m cableAccessoriesIVMC99078External control panel box 503AccessoriesIVMC99097Steel ionizerAccessoriesIVMC99090CO_ monitor ¹⁰ AccessoriesIVMC9000902Aqu monitor ¹⁰ AccessoriesIVMC9000902Aqu monitor ¹⁰ AccessoriesIVMC900903Corses filter pre-heater x10FiltersIVMC99163Filter ePM180% + Coarse80%Flow800FiltersIVMC99050	External grills 340x340 mm plastic	Accessories	1VMC99083		
Exterior vertical stainless-steel grillsAccessories1VMC99097ISO flex tube Ø127 mm L 5m + x2 clampsAccessories1VMC99086ISO flex tube Ø254 mm L 5m + x2 clampsAccessories1VMC99085Tube adapter 120x60 mm Ø125 mm x4Accessories1VMC99091Flow800/1000 side casingAccessories1VMC99073Flow800/1000 ceiling casingAccessories1VMC99074Flow800/1000 steel pre-heaterAccessories1VMC99149AFlow800/1000 Steel post-heaterAccessories1VMC99101Flow800/1000 Steel post-heaterAccessories1VMC99088Flow800/1000 Steel post-heaterAccessories1VMC99088STD flush-mounted control panel + 5m cableAccessories1VMC90606Cloud recessed control panel + 5m cableAccessories1VMC90978Steel ionizerAccessories1VMC90909Co, monitor ¹⁰ Accessories1VMC90909Accessories1VMC900902Accessories1VMC90090Co, monitor ¹⁰ Accessories1VMC90090Accessories1VMC9009024Accessories1VMC00000902IAQ monitor ¹⁰ Accessories1VMC00000903Coarse filter pre-heater x10Filters1VMC99163Filter ePM180% + Coarse80%Flow800Filters1VMC99163	External horizontal stainless-steel grills	Accessories	1VMC99084		
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STD flush-mounted control panel + 5m cableAccessories1VMC06006Cloud recessed control panel + 5m cableAccessories1VMC06011External control panel box 503Accessories1VMC99078Steel ionizerAccessories1VMC99089Flow800/1000M and Silent ionizerAccessories1VMC99090CO2 monitor (1)Accessories4VMC00000902IAQ monitor (1)Accessories4VMC00000903Coarse filter pre-heaterFilters1VMC99162Coarse filter pre-heater x10Filters1VMC99163Filter ePM1 80% + Coarse80%Flow800Filters1VMC99050	Flow800/1000M post-heater		1VMC99101		
STD flush-mounted control panel + 5m cableAccessories1VMC06006Cloud recessed control panel + 5m cableAccessories1VMC06011External control panel box 503Accessories1VMC99078Steel ionizerAccessories1VMC99089Flow800/1000M and Silent ionizerAccessories1VMC99090CO2 monitor (1)Accessories4VMC00000902IAQ monitor (1)Accessories4VMC00000903Coarse filter pre-heaterFilters1VMC99162Coarse filter pre-heater x10Filters1VMC99163Filter ePM1 80% + Coarse80%Flow800Filters1VMC99050	Flow800/1000 Silent post-heater		1VMC99088		
Cloud recessed control panel + 5m cableAccessories1VMC06011External control panel box 503Accessories1VMC99078Steel ionizerAccessories1VMC99089Flow800/1000M and Silent ionizerAccessories1VMC99090CO2 monitor (1)Accessories4VMC00000902IAQ monitor (1)Accessories4VMC00000903Coarse filter pre-heaterFilters1VMC99162Coarse filter pre-heater x10Filters1VMC99163Filter ePM1 80% + Coarse80%Flow800Filters1VMC99050	STD flush-mounted control panel + 5m cable	Accessories	1VMC06006		
External control panel box 503Accessories1VMC99078Steel ionizerAccessories1VMC99089Flow800/1000M and Silent ionizerAccessories1VMC99090CO2 monitor (1)Accessories4VMC00000902IAQ monitor (1)Accessories4VMC00000903Coarse filter pre-heaterFilters1VMC99162Coarse filter pre-heater x10Filters1VMC99163Filter ePM1 80% + Coarse80%Flow800Filters1VMC99050	Cloud recessed control panel + 5m cable		1VMC06011		
Flow800/1000M and Silent ionizer Accessories 1VMC99090 CO2 monitor (1) Accessories 4VMC00000902 IAQ monitor (1) Accessories 4VMC00000903 Coarse filter pre-heater Filters 1VMC99162 Coarse filter pre-heater x10 Filters 1VMC99163 Filter ePM1 80% + Coarse80%Flow800 Filters 1VMC99050	External control panel box 503	Accessories	1VMC99078		
CO2 monitor (1) Accessories 4VMC0000902 IAQ monitor (1) Accessories 4VMC0000903 Coarse filter pre-heater Filters 1VMC99162 Coarse filter pre-heater x10 Filters 1VMC99163 Filter ePM1 80% + Coarse80%Flow800 Filters 1VMC99050	Steel ionizer	Accessories	1VMC99089		
CO2 monitor (1) Accessories 4VMC0000902 IAQ monitor (1) Accessories 4VMC0000903 Coarse filter pre-heater Filters 1VMC99162 Coarse filter pre-heater x10 Filters 1VMC99163 Filter ePM1 80% + Coarse80%Flow800 Filters 1VMC99050	Flow800/1000M and Silent ionizer		1VMC99090		
Coarse filter pre-heaterFilters1VMC99162Coarse filter pre-heater x10Filters1VMC99163Filter ePM1 80% + Coarse80%Flow800Filters1VMC99050	CO ₂ monitor ⁽¹⁾		4VMC00000902		
Coarse filter pre-heaterFilters1VMC99162Coarse filter pre-heater x10Filters1VMC99163Filter ePM1 80% + Coarse80%Flow800Filters1VMC99050	IAQ monitor (1)		4VMC00000903		
Coarse filter pre-heater x10 Filters 1VMC99163 Filter ePM1 80% + Coarse80%Flow800 Filters 1VMC99050	Coarse filter pre-heater		1VMC99162		
	Coarse filter pre-heater x10	Filters	1VMC99163		
	Filter ePM1 80% + Coarse80%Flow800		1VMC99050		
	ePM1 80% + Coarse 80% Flow800 x10 filter		1VMC99061		

1. Cloud Control Panel required



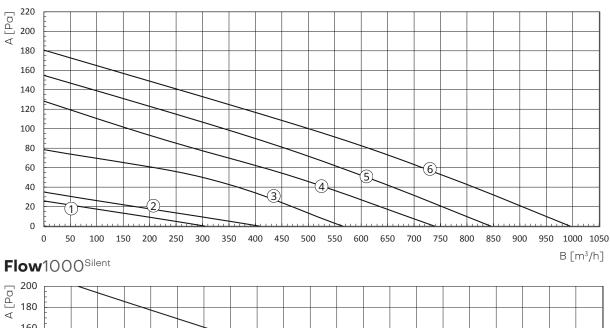
Flow-head charts



B Flow rate

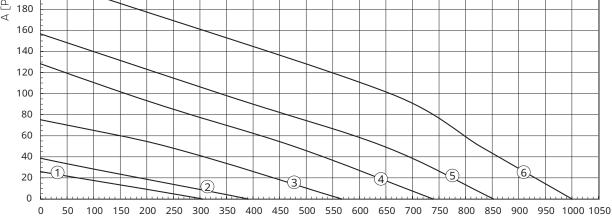
- 5 Speed 4 6 Hyperventilation





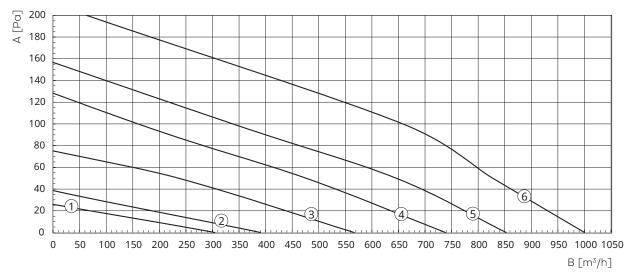
3 Speed 2

4 Speed 3



FlowM1000

 $B[m^3/h]$

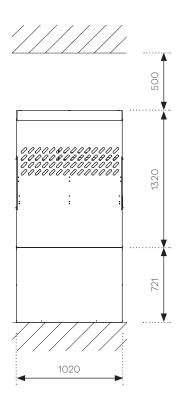


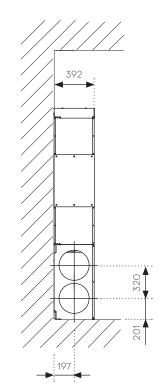
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Dimensional drawings

Flow1000Steel

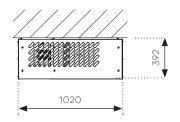
Wall-mounted installation

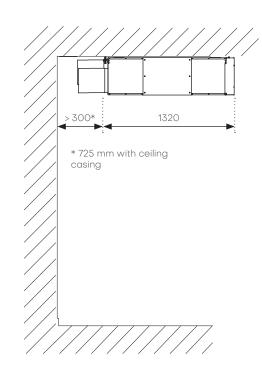




$\textbf{Flow}1000^{\text{Steel}}$

Ceiling installation

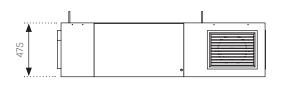


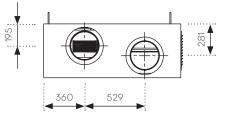


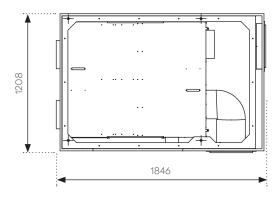
Dimensional drawings

Flow1000^{Silent}

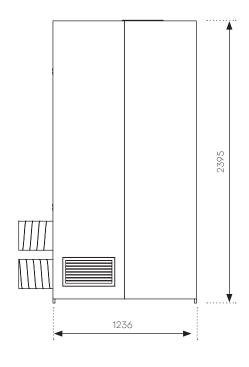
HRV with wooden cover for ceiling installation

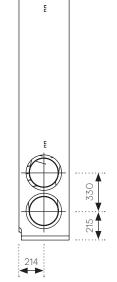


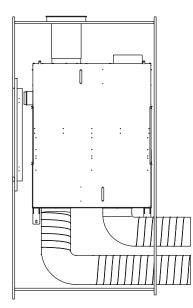


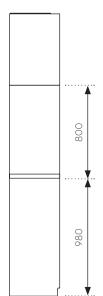


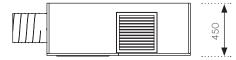
Flow M1000 - left side HRV in wooden cabinet











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Dimensional drawings

Flow M1000 - right side HRV in wooden cabinet

