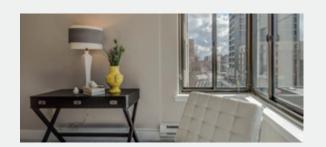
WALL-MOUNTED UNITS HCV 700



The HCV 700 is a highly efficient residential ventilation unit for houses, villas, and apartments of up to 450m² or more. It comes supplied as a packaged basic ventilation unit complete with built-in control panel, and are delivered with all parts necessary for wall installation. The HCV 700 is ideal for free wall installation with minimum 700mm space. A standard wall rail is supplied with all units.



- Demand-controlled ventilation with integrated humidity sensor, reducing power consumption at times with low ventilation demands
- Summer mode, in which supply fan is stopped and any open window will supply cooler outside air, lowering the room temperature
- Automatic free-cooling features via inbuilt 100% bypass, including the possibility of increasing the air flow automatically, lets in cool night air following hot days to help maintain a comfortable temperature throughout the day
- Fireplace mode, creating a temporary inside overpressure, to enhance chimney functionality
- High-efficiency heat recovery
- EC fan motors with extremely low energy consumption (low SPI)
- Easy-to-install and commission solution with built-in air pressure spigots for easy calibration
- Highly customisable units, with the option to add a high variety of internal as well as external accessories
- A standard wall rail is supplied with the unit

Third party testing and certifications

Code	Description				
DIBt	Certified by the German Institute of Construction Technology				
EPB	Listed in the database for Energy Performance of Buildings in Belgium				
ErP	Compliant with EU regulations for Eco-design				
Nordic Swan Ecolabel	Listed in the Nordic Swan database for products suitable for Ecolabelled buildings				



WALL-MOUNTED UNITS HCV 700

TECHNICAL DATA

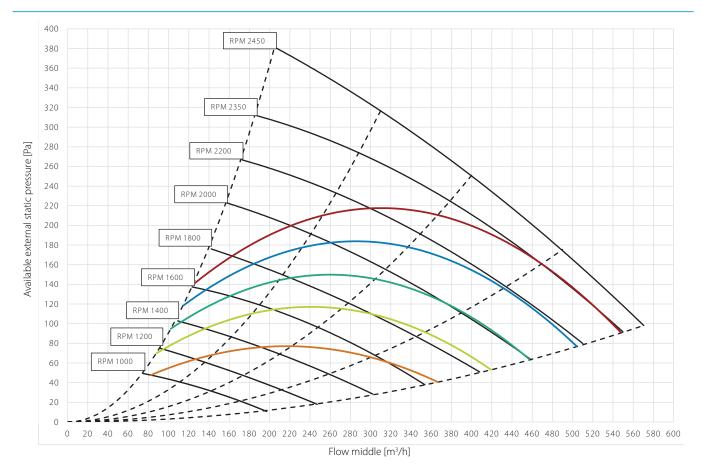
Specifications	Units		HCV 700			
Max. flow	V100Pa	m³/h	550			
Max. rated flow	Vmax.rated	m³/h	450			
Recommended operating range	V	m³/h	80 - 450			
EN 13141-7 reference flow at 50Pa	V_{ref}	m³/h	315			
Performance						
Thermal efficiency in accordance with EN13141-7	$\eta_{\text{\tiny SUP}}$	%	85			
Specific power consumption in accordance with EN13141-7	SFP	W/m³/h	0.22			
Leakage (external and internal) in accordance with EN13141-7	-	%	<2% (Class A1)			
Filters in accordance with ISO16890	-	-	ISO Coarse 75% (optional on supply: ePM1>50%)			
Filters in accordance with EN779	-	-	G4 (optional on supply: F7)			
Installation ambient temperature	t _{surp}	°C	+12 to +50			
Outdoor temperature range without preheater installed	t _{oda}	°C	-12* to +50			
Outdoor temperature range with preheater installed	t _{oda}	°C	-20 to +50			
Maximum absolute humidity in extract air	X	g/kg	10			
Cabinet						
Dimensions (without wall bracket)	w x d x h	mm	700 x 750 x 1050			
Spigots/duct connections	Ø	mm	200 – female			
Weight		kg	70			
Thermal conductivity – polystyrene insulation	λ	W/mK	0.031			
Heat transition figures – polystyrene insulation	U	W/m²K	<1			
Fire classification of the polystyrene insulation	-	-	DIN 4102-1 class B2 EN 13501 class E			
Drainage hose	Ø/length	"/m	3/4 / 1			
Cabinet colour	RAL	-	9016			
Electrical						
Voltage	U	V	230			
Maximum power consumption (without/with preheater)	Р	W	234/1,834			
Frequency	f	Hz	50			
Protection class	-	-	IP21			

^{*} The use of the preheating coil is recommended at outdoor temperature below -3 $^{\circ}$ C to ensure balanced operation.



WALL-MOUNTED UNITS HCV 700

CAPACITY AND SPI CURVES WITH G4/G4 FILTERS



SFP/SPI/SEL*	0.45 W/m³/h	0.39 W/m³/h	0.33 W/m ³ /h	0.28 W/m ³ /h	0.22 W/m ³ /h
	1620 J/m ³	1400 J/m³	1200 J/m ³	1000 J/m ³	800 J/m ³
	1.62 W/l/s	1.40 W/l/s	1.20 W/l/s	1.0 W/l/s	0.80 W/l/s

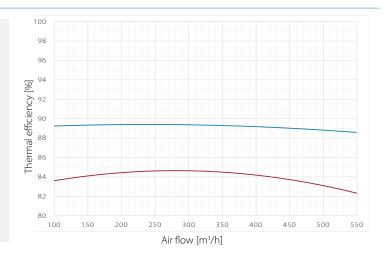
^{*} SFP/SPI/SEL includes power consumption of both fans and the control.

THERMAL EFFICIENCY CURVES

Legend

- Thermal efficiency according to EN 13141-7 (dry)
 Operational conditions: outdoor air: 7°C, 85% RH; extract air: 20°C, 37% RH
- Thermal efficiency according to EN 13141-7 (with condensation)
 Operational conditions: outdoor air: 2°C, 87% RH; extract air: 20°C, 60% RH

All values at balanced flow



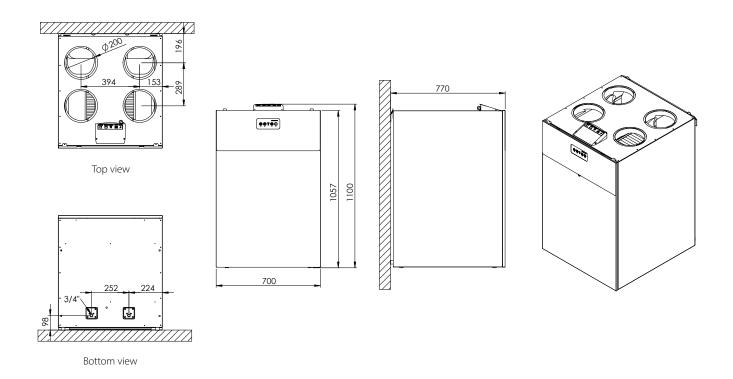


WALL-MOUNTED UNITS HCV 700

SOUND DATA WITH G4/G4 FILTERS

Air volume	Pres- sure	Operational point	Frequency band sound power Lw(A) dB(A)							Total sound power	Sound pressure standard room*	
m³/h	Pa		63Hz	125Hz	250Hz	500Hz	1000Hz	2000Hz	4000Hz	8000Hz	Lw(A) dB(A)	Lp(A) dB(A)
350	100	Supply air	54	55	64	57	53	45	35	27	65.5	
		Extract air	63	62	68	63	56	52	44	34	71.1	
		Cabinet	36	45	55	52	50	43	28	20	57.8	53

DIMENSIONS





REVIT Revit files are available for free on request. Contact your local supplier or Dantherm for access.