


HCC 260P1



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The HCC 260_{P1} is a unique and flexible residential ventilation solution. With only 30cm installation headroom it is ideal for installation in suspended ceilings or onto a wall, even hidden inside a closet. The unit can be electronically reversed, meaning that both air flows will be reversed. This allows the same unit type to be mounted with the inside/outside ducts connected to either the right or the left hand side of the unit. Electrical connections can be connected from either the left or the right.

The HCC 260_{P1} has an galvanised metal surface, standard filter resetting capability as well as easy PCB access to connect accessories. Delivered 4 units on a pallet at a time, it also minimises the use of packaging in consideration of the environment.



- High efficiency heat recovery – up to 94%
- EC fan motors with low energy consumption (low SPI)
- Only 300mm installation headroom height is required
- Time controlled ventilation level, based on 11 different built-in pre-programmed week programs, reducing power consumption in periods with low ventilation demands
- Summer cooling mode
- Automatic free-cooling features via inbuilt 100% by-pass, 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 momentary inside overpressure, to enhance chimney functionality
- Easy-to-install and commissioning solution with built-in air measure ports, for easy balancing with PC Tool
- Electronically left/right fan direction switching, allowing same unit type to adapt any physical installation requirements, regardless of ceiling and wall selection
- TCP/IP ModBus connection, for inter-operation with Building Management System
- Electrical connections can be connected from either the left or the right
- Foil panel on unit

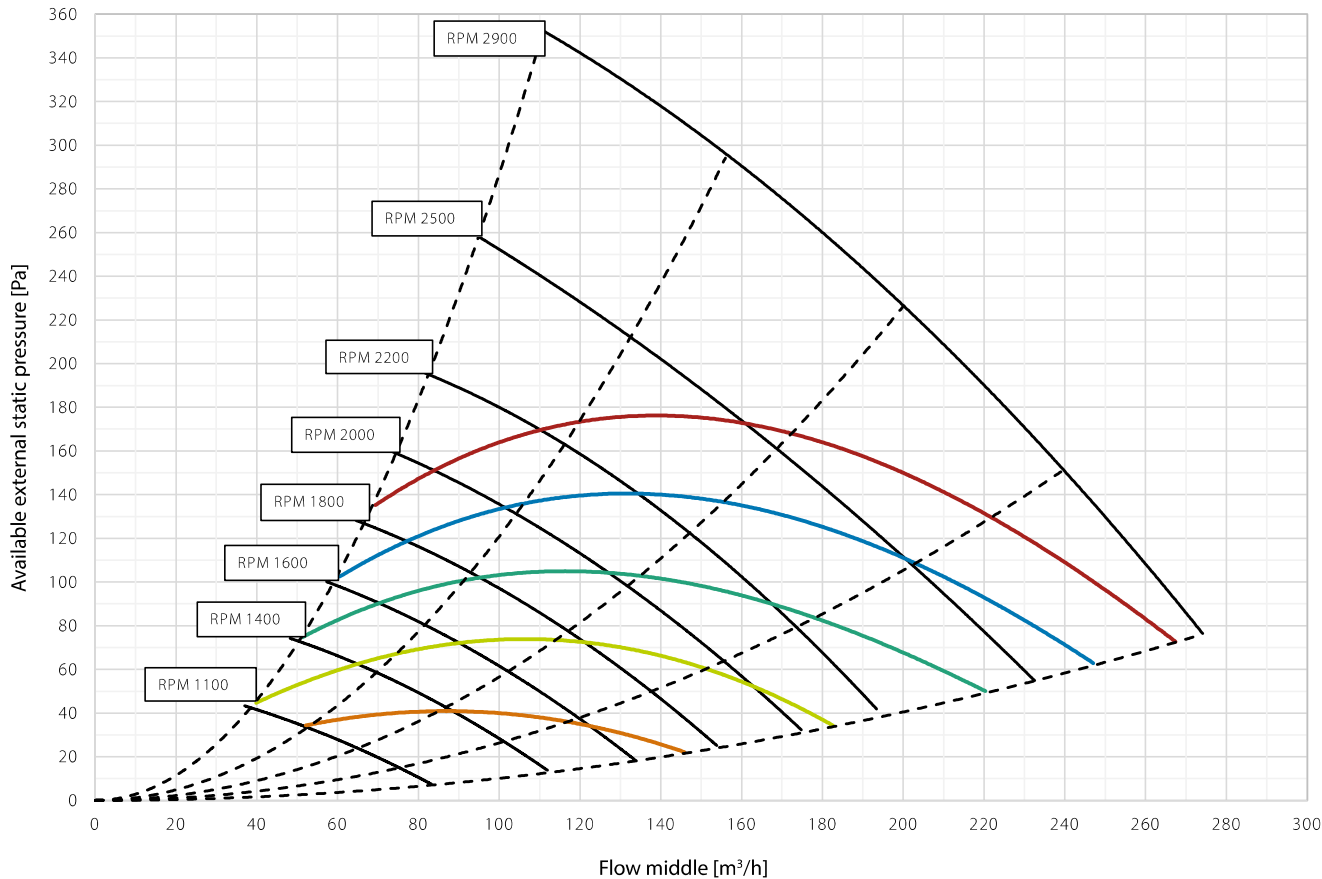
Third party testing and certifications

Code	Description
PHI	Passivhaus certified
ErP	Compliant with EU regulations for Eco-design
Nordic Swan Ecolabel	Listed in the Nordic Swan database for products suitable for Ecolabelled buildings

Specifications	Units		HCC 260P1
Maximum achievable flow at 100Pa	V100Pa	m ³ /h	260
Maximum declared flow at 100Pa	V _{max.rated}	m ³ /h	180
Recommended operating range	V	m ³ /h	50-180
Operating range DIBt	V _{DIBt}	m ³ /h	70 to 140
Operating range Passivhaus at 100Pa	V _{PHI}	m ³ /h	50 to 180
EN 13141-7 reference flow at 50Pa	V _{ref}	m ³ /h	126
Performance			
Thermal efficiency DIBt	η _{DIBt}	%	93.8
Thermal efficiency Passivhaus	η _{PHI}	%	93
Thermal efficiency EN 13141-7 at reference flow	η _{EN}	%	94
Leakage (external and internal) according to EN 13141-7	class		<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 surrounding temperature range	t _{surr}	°C	+12 to +40
Maximum humidity in extract air at 25°C	RH	%	55
Outdoor temperature range without preheating installed	t _{ODA}	°C	-12* to +45
Outdoor temperature range with preheating installed	t _{ODA}	°C	-15 to +45
Cabinet			
Dimensions (without wall bracket)	w x d x h	mm	600 x 279 x 1122
Spigots/duct connections	∅	mm	125 – female
Weight	-	kg	34
Heat conductivity – polystyrene insulation	λ	W/mK	0.031
Heat transfer coefficient – polystyrene insulation	U	W/m ² K	<1
Drainage hose (accessory)	∅		1/2"
Cabinet colour	-	-	galvanised metal grey
Fire classification of the polystyrene insulation	class	-	DIN 4102-1 class B2 EN 13501 class E
Electrical			
Voltage	U	V	230
Maximum power consumption (without/with preheater)	P	W	127/1,027
Frequency	f	Hz	50
Protection class	-	-	IP20

* In order to ensure balanced ventilation, preheater is recommended when outdoor temperature is below -3°C.

Capacity and SPI curves with G4/G4 filters



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SFP/SPI/SEL*	0.45 W/m³/h	0.39 W/m³/h	0.33 W/m³/h	0.28 W/m³/h	0.22 W/m³/h
	1620 J/m³	1400 J/m³	1200 J/m³	1000 J/m³	800 J/m³
	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

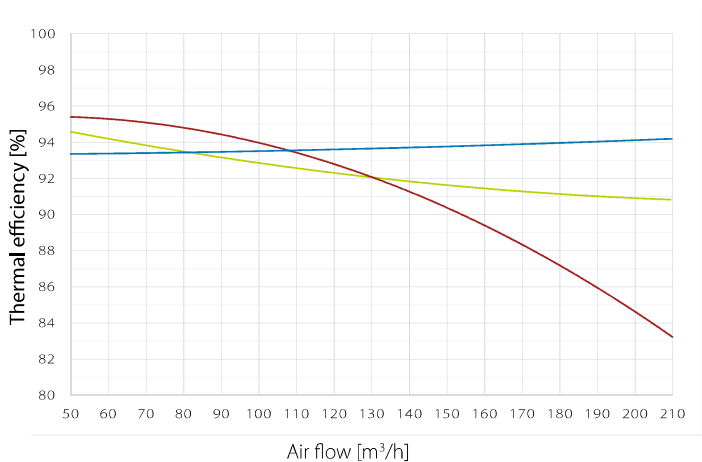
* SFP/SPI/SEL includes power consumption of both fans and the control.

Thermal efficiency curves

Legend

- Thermal efficiency according to EN 13141-7 (dry)
Operational conditions: outdoor air: 7°C, 88% RH; extract air: 20°C, 38% RH
- Thermal efficiency according to EN 13141-7 (with condensation)
Operational conditions: outdoor air: 2°C, 85% RH; extract air: 20°C, 60% RH
- Thermal efficiency according Passivhaus Institut
Operational conditions: outdoor air: 4°C, 94% RH; extract air: 21°C, 30% RH

All values at balanced flow

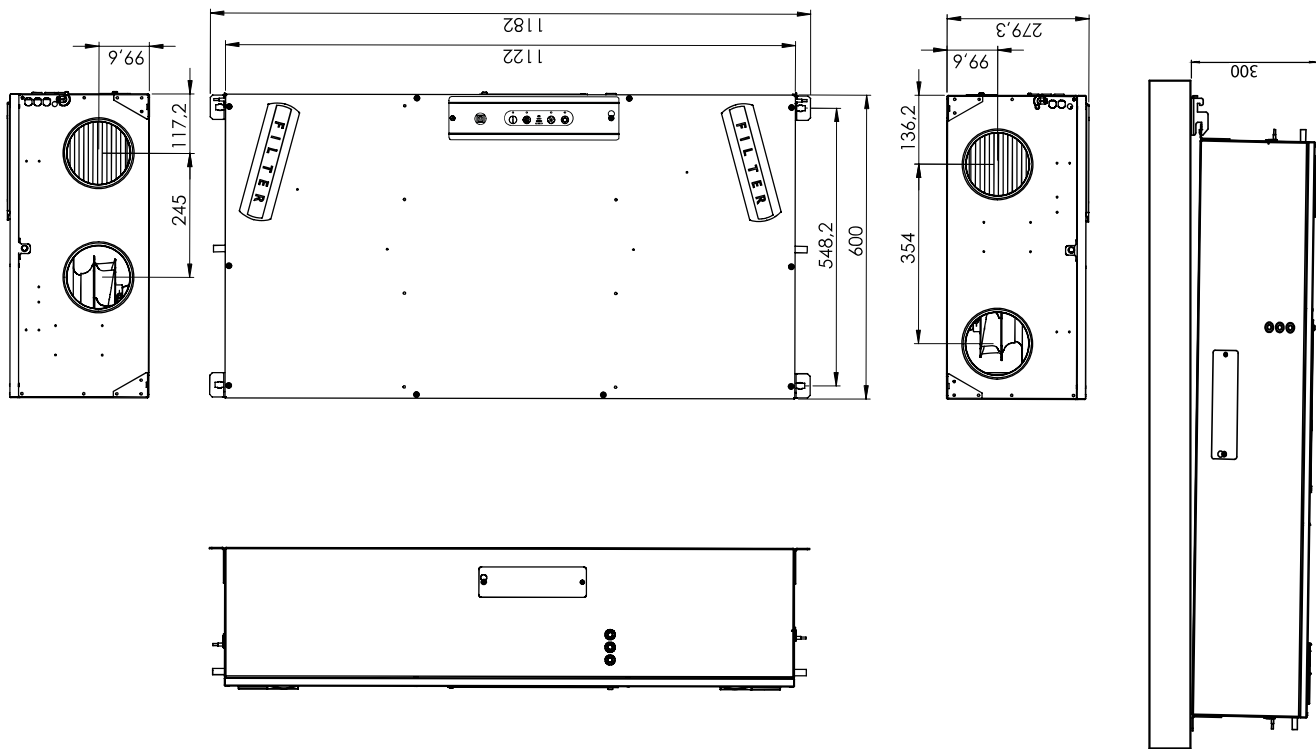


Sound data with G4/G4 filters

Air-volume m ³ /h	Pres. Pa	Measure point	Frequency band sound power L _w (A) dB(A)								Total sound power L _w (A) dB(A)	Sound pres. L _p (A) Standard room*
			63Hz	125Hz	250Hz	500Hz	1000Hz	2000Hz	4000Hz	8000Hz		
80	30	Supply air	23	43	40	42	39	32	20	18	47	
		Extract air	12	26	24	24	16	16	17	18	30	
		Cabinet									30	25
98	50	Supply air	28	41	51	48	44	39	26	18	54	
		Extract air	16	27	31	29	19	16	17	18	35	
		Cabinet									34	29
100	100	Supply air	32	49	56	52	49	44	33	19	59	
		Extract air	19	31	42	33	23	19	17	18	43	
		Cabinet									37	32
126	70	Supply air	31	43	55	52	49	45	33	19	58	
		Extract air	19	30	42	33	23	19	17	18	42	
		Exhaust air	30	43	54	52	47	43	32	18	57	
		Cabinet									40	35
140	100	Supply air	34	46	56	56	52	49	37	21	60	
		Extract air	21	33	44	36	27	21	18	18	45	
		Exhaust air	33	45	56	56	51	47	36	20	60	
		Cabinet									43	38
162		Cabinet								46	41	
198		Cabinet								48	43	

* Standard room = room with 10m² floor, 2.4m ceiling height, mean absorption 0.2.

Dimensions



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

Duct connections

2 set-up in 1 unit, easy change on site

(A) LEFT SET-UP
Factory set-up

(B) RIGHT SET-UP Optional -
easy change on site

