

Enave-C 100 P A21 R



Suspended air handling units with a counterflow polystyrene or enthalpy heat exchanger

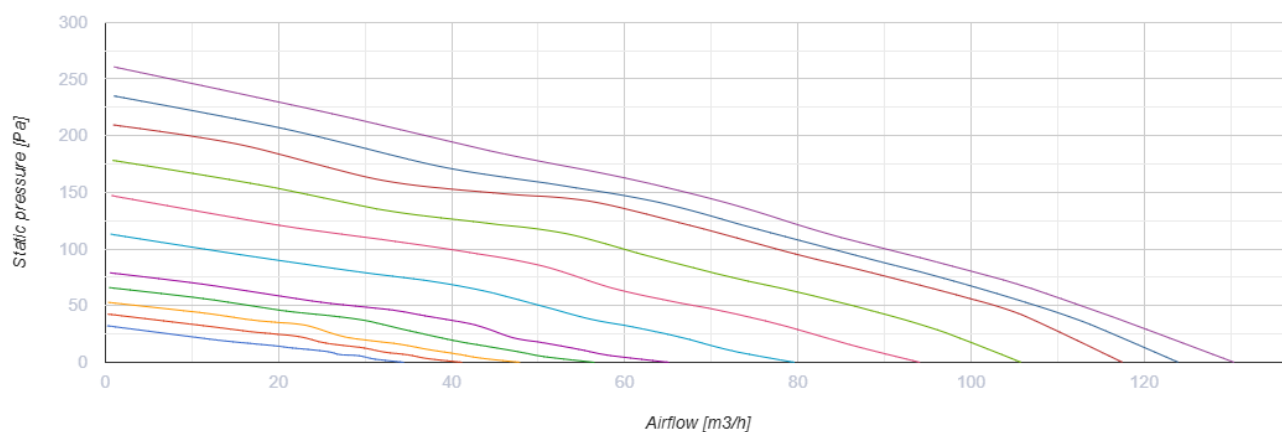
- Sound pressure level LpA at 3 m: 32
- Heat exchanger type: Counter flow
- Heat exchanger material: Polystyrene
- Supply filter: G4 / Coarse > 60% (option F7 / ePM1 60%)
- Extract filter: G4 / Coarse > 60%
- Sound-insulated casing
- Preheater: Optional
- BMS protocol: ModBus
- Control: Smartphone
- Casing material: EPP
- Humidity sensor: Optional
- CO2 sensor: Optional
- PM2.5 sensor: Optional

	Unit of measurement	Enave-C 100 P A21 R
Phases	-	1
Maximum supply voltage	V	230
Minimum supply voltage	V	230
Power supply frequency	Hz	50/60
Rated power	W	45
Unit current	A	0.34
Maximum airflow	m³/h	130
Sound pressure level LpA at 3 m	dB(A)	32
Heat recovery efficiency, max	%	94
Heat exchanger type	-	Counter flow
Heat exchanger material	-	Polystyrene
Weight	kg	8
Supply filter	-	G4 / Coarse > 60% (option F7 / ePM1 60%)
Extract filter	-	G4 / Coarse > 60%
Transported air temperature (max)	°C	40
Transported air temperature (min)	°C	-23
Ambient air temperature min	°C	1
Ambient air temperature max	°C	40
Ingress protection rating	-	IP22
Ambient air humidity max	%	60

Ingress protection rating of the drive

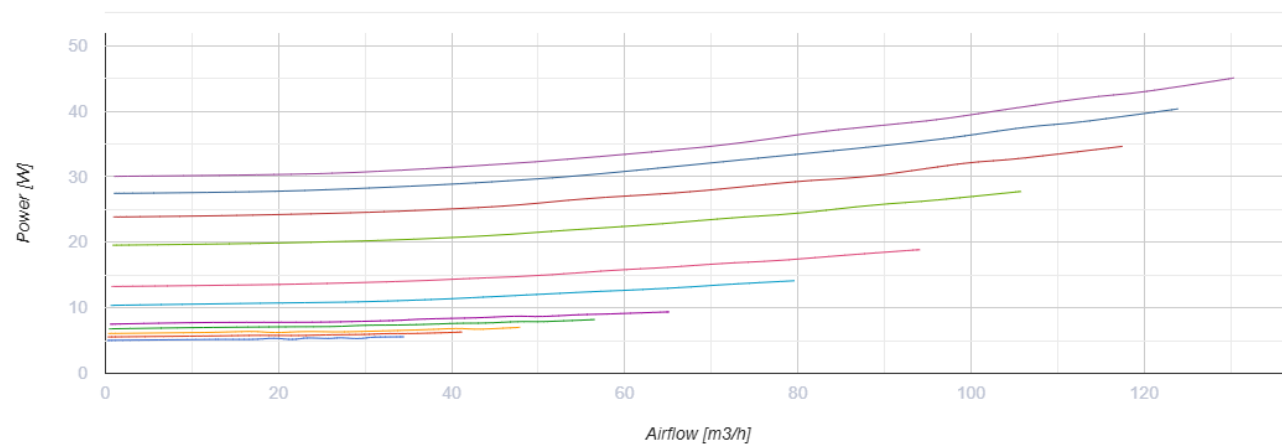
-

IP44



This graph shows the static pressure performance of various fan models. The y-axis represents static pressure in Pascals (Pa), ranging from 0 to 300. The x-axis represents airflow in cubic meters per hour (m³/h), ranging from 0 to 120. Multiple colored lines represent different fan models, all showing a decrease in static pressure as airflow increases.

Airflow [m³/h]	Model 1 (Purple)	Model 2 (Dark Blue)	Model 3 (Red)	Model 4 (Green)	Model 5 (Pink)	Model 6 (Light Blue)	Model 7 (Orange)	Model 8 (Yellow)	Model 9 (Light Green)
0	260	230	210	180	150	110	80	50	40
20	230	200	180	150	120	90	60	30	20
40	200	170	150	120	90	60	30	10	0
60	170	140	120	90	60	30	0	0	0
80	140	110	90	60	30	0	0	0	0
100	110	80	60	30	0	0	0	0	0
120	80	50	30	0	0	0	0	0	0

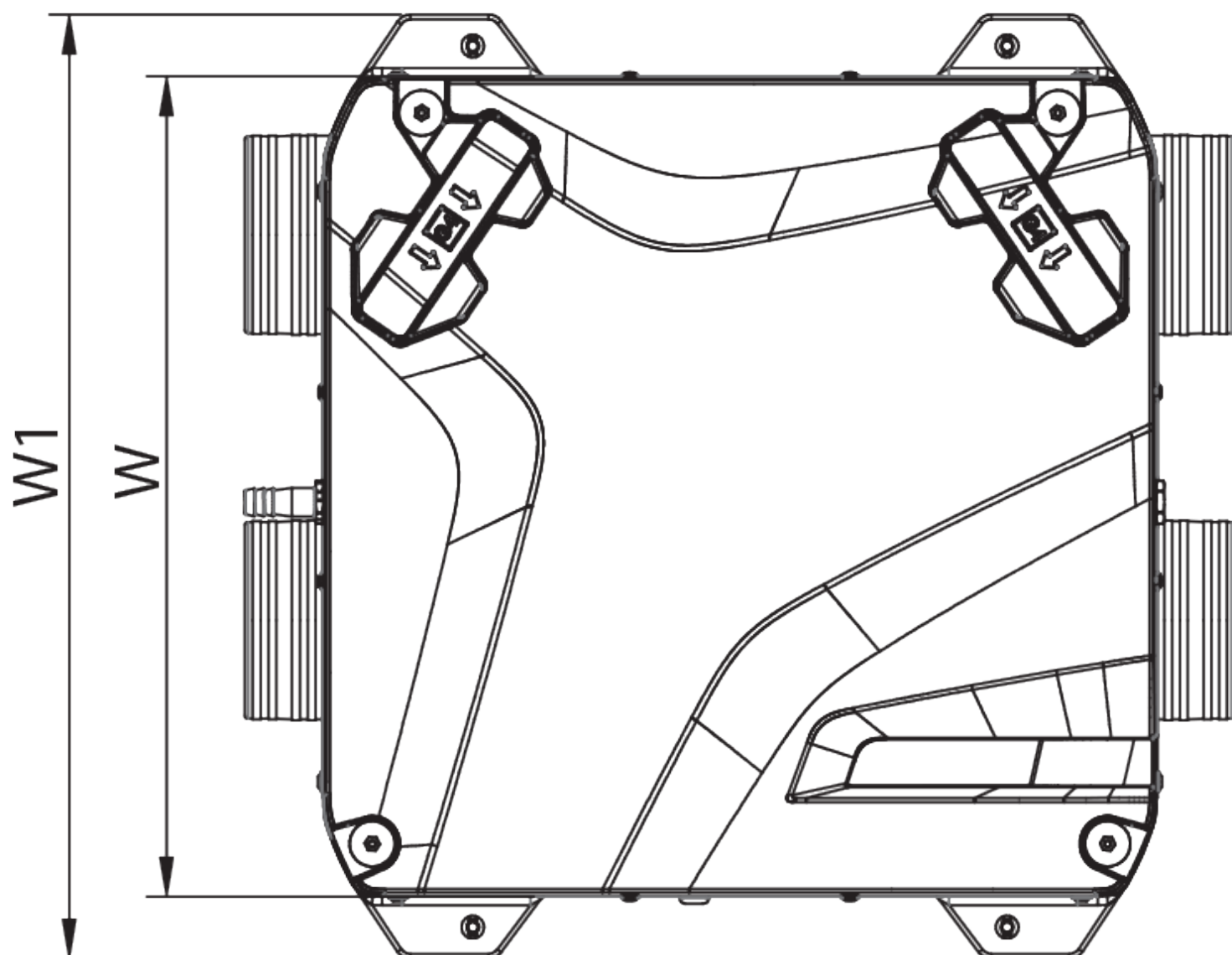


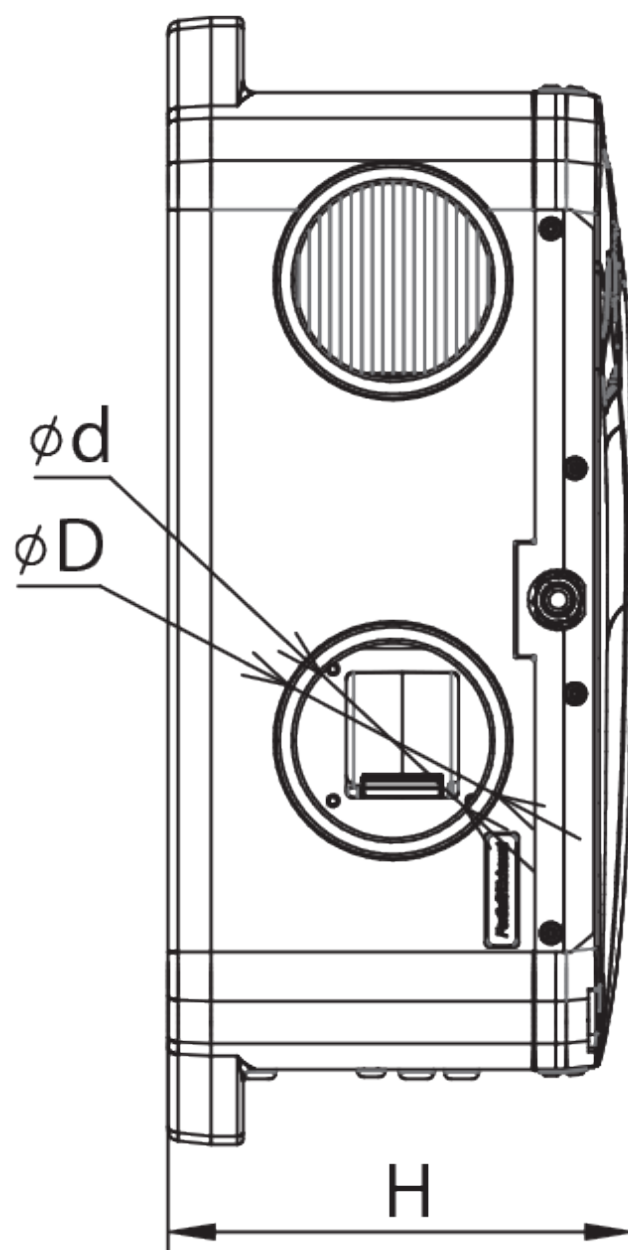
This graph shows the power consumption of various fan models. The y-axis represents power in Watts (W), ranging from 0 to 50. The x-axis represents airflow in cubic meters per hour (m³/h), ranging from 0 to 120. Multiple colored lines represent different fan models, all showing an increase in power consumption as airflow increases.

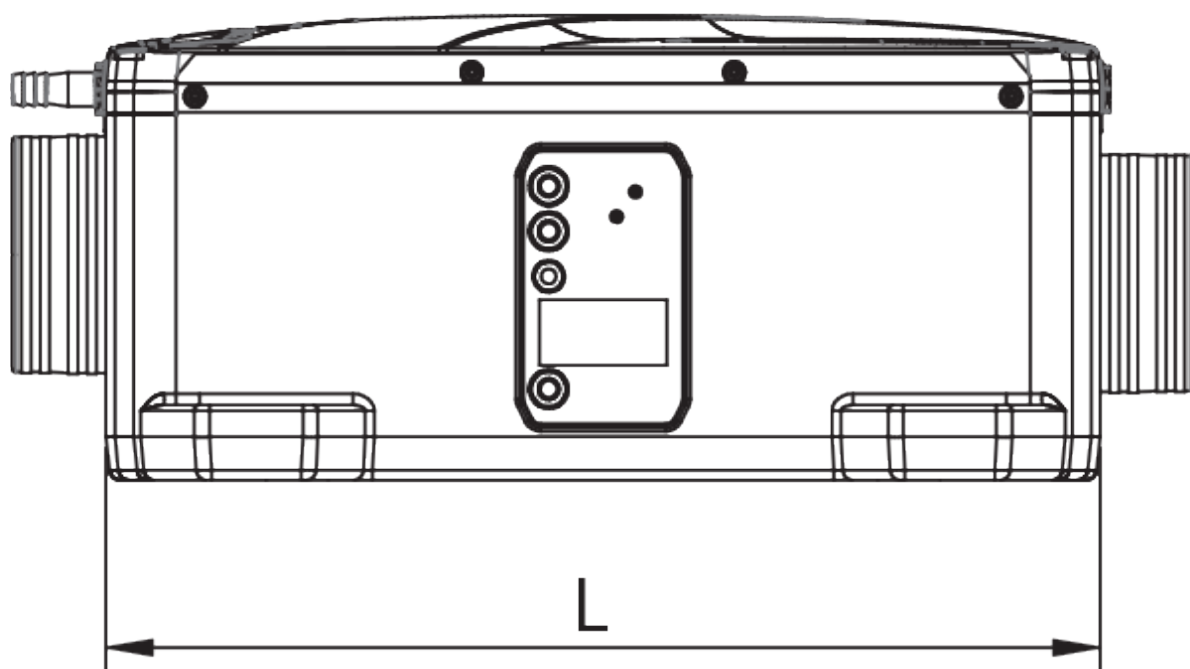
Airflow [m³/h]	Model 1 (Purple)	Model 2 (Dark Blue)	Model 3 (Red)	Model 4 (Green)	Model 5 (Pink)	Model 6 (Light Blue)	Model 7 (Orange)	Model 8 (Yellow)	Model 9 (Light Green)
0	30	28	24	20	14	10	8	6	5
20	31	29	25	21	15	11	9	7	6
40	32	30	26	22	16	12	10	8	7
60	34	32	28	23	18	14	12	10	9
80	37	35	31	25	21	16	14	12	11
100	41	39	35	28	24	19	17	15	14
120	46	44	40	32	28	23	21	19	18

Dimensions

ØD	Ød	H	W	L	W1
125	104	247	522	530	600







Accessories

Control Panels for AHU

Name	Photo	Description
------	-------	-------------

A25		Touch screen control panel for controlling industrial and residential air handling units
A22		Control panels for controlling industrial and residential air handling units
A22 WiFi		Control panels for controlling industrial and residential air handling units

Sensors

Name	Photo	Description
HV2		Humidity sensor
CO2-1		CO2 sensors
CO2-2		CO2 sensors
HR-S		Electro-mechanical humidistat
CO2-3		CO2 sensor

Electrical heaters

Name	Photo	Description
NKP 125-0,6-1 A21 V.2		Inline heaters for heat exchanger frost protection
NKP 125-0,8-1 A21 V.2		Inline heaters for heat exchanger frost protection
NKP 125-1,2-1 A21 V.2		Inline heaters for heat exchanger frost protection

Condensation drainage

Name	Photo	Description
------	-------	-------------

SH-32		Hydraulic U-trap to drain condensate from heat exchangers and coolers
-----------------------	---	---

For round ducts

Name	Photo	Description
SR 125/600		Silencers made of galvanized steel filled with non-combustible sound-absorbing material
SR 125/900		Silencers made of galvanized steel filled with non-combustible sound-absorbing material
SR 125/1200		Silencers made of galvanized steel filled with non-combustible sound-absorbing material

For round ducts

Name	Photo	Description
KRV 125		Air dampers for automatic air flow control in round ducts

Electrical heaters

Name	Photo	Description
NKD 125-0,6-1 A21 V.2		Inline supply air reheaters with external control
NKD 125-0,8-1 A21 V.2		Inline supply air reheaters with external control
NKD 125-1,2-1 A21 V.2		Inline supply air reheaters with external control

Electric actuators

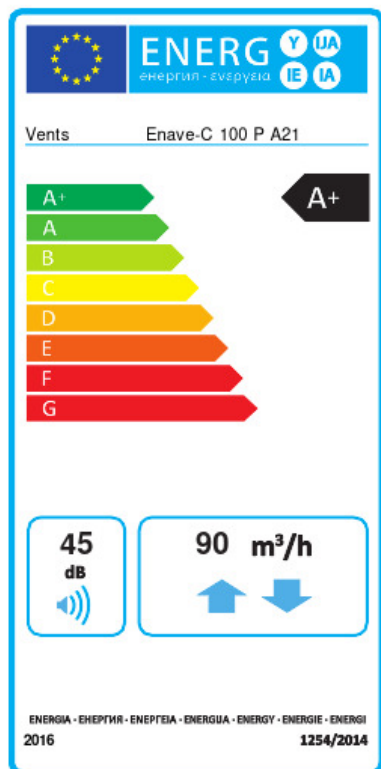
Name	Photo	Description
Belimo TF230		The actuators are designed for controlling air dampers with cross section up to 0.4 m ² performing protection functions

Other accessories

Name	Photo	Description
------	-------	-------------

SF 176x150x22 G4		Panel filter G4
SF 176x150x22 F7		F7 panel filter

Ecodesign



Trademark	Vents					
Model	Enave-C 100 P A21 R					
Specific energy consumption (SEC) (kWh/(m²/a))	Cold		Average		Warm	
	-81	A+	-42.3	A+	-17.5	E
Type of ventilation unit	Bidirectional					
Type of drive installed	Variable speed					
Type of heat recovery system	Recuperative					
Thermal efficiency of heat recovery (%)	86					
Maximum flow rate (m³/h)	90					
Electric power input (W)	37					
Reference flow rate (m³/s)	0.018					
Reference pressure difference (Pa)	50					
Specific power input (SPI) (W/(m³/h))	0.254					
Control typology	Local demand control					
Maximum internal leakage rates (%)	2.8					
Maximum external leakage rates (%)	3					
Sound power level (dB(A))	45					
Declared typology	RVU BVU					
The annual electricity consumption (AEC) (kWh/a)	Cold		Average		Warm	
	716		179		134	
The annual heating saved (AHS) (kWh/a)	Cold		Average		Warm	
	9019		4610		2085	