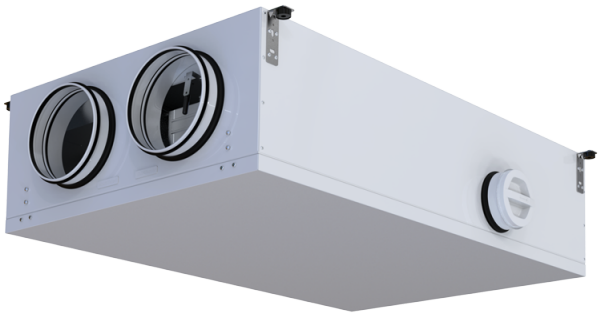
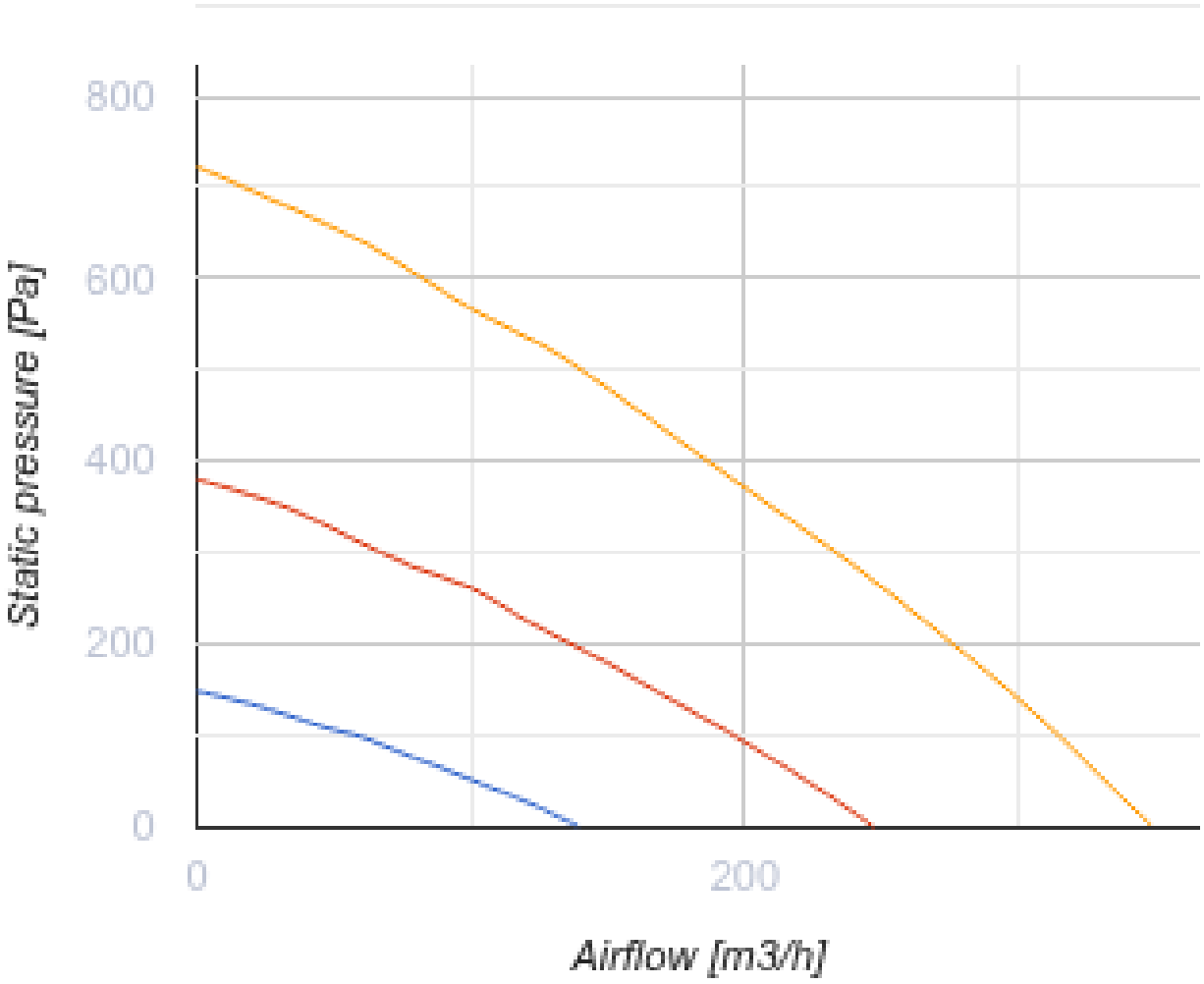
VUER 251 P EC R A21

Suspended air handling units with a sorption rotary heat exchanger



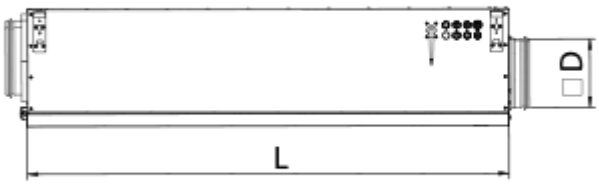
- Sound pressure level LpA at 3 m: 23
- Heat exchanger type: Sorption rotary
- Supply filter: G4 / Coarse > 60% (option F7 / ePM1 60%)
- Extract filter: G4 / Coarse > 60%
- Sound-insulated casing
- Enthalpy heat exchanger
- Bypass: Auto
- BMS protocol: ModBus
- Control: Smartphone
- Casing material: Coated steel
- Humidity sensor: Optional
- CO2 sensor: Optional
- PM2.5 sensor: Optional

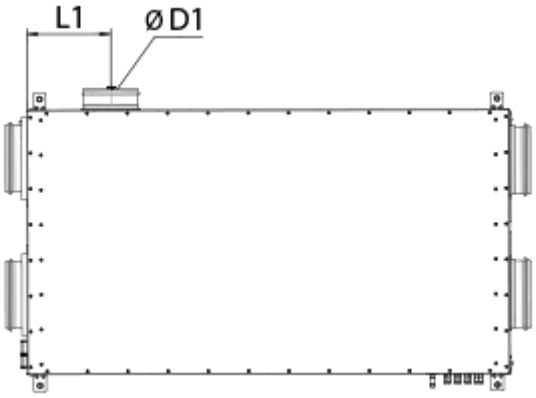
	Unit of measurement	VUER 251 P EC R A21
Phases	-	1
Maximum supply voltage	V	230
Minimum supply voltage	V	230
Power supply frequency	Hz	50/60
Rated power	W	183
Unit current	A	1.4
Maximum airflow	m³/h	348
Sound pressure level LpA at 3 m	dB(A)	23
Heat recovery efficiency, max	%	82
Heat exchanger type	-	Sorption rotary
Weight	kg	62
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	-25
Ambient air temperature max	°C	40
Ambient air temperature min	°C	1
Ingress protection rating	-	IP22
Ingress protection rating of the drive	-	IP44
Ambient air humidity max	%	60

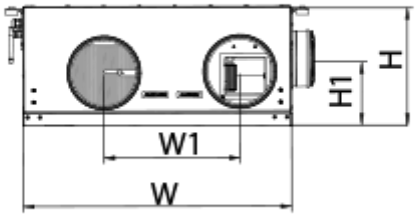


Dimensions

H	W	L	H1	W1	L1	D	D1
280	630	1150	155	319	200	160	125







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
HR-S		Electro-mechanical humidistat

CO2-3		CO2 sensor

For round ducts

Name	Photo	Description
SR 160/600		Silencers made of galvanized steel filled with non-combustible sound-absorbing material
SR 160/900		Silencers made of galvanized steel filled with non-combustible sound-absorbing material
SR 160/1200		Silencers made of galvanized steel filled with non-combustible sound-absorbing material

For round ducts

Name	Photo	Description
KRV 160		Air dampers for automatic air flow control in round ducts

Other accessories

Name	Photo	Description
SF 266x222x48 Coarse 90% G4		Panel filter G4
SF 266x222x48 ePM1 60% F7		F7 panel filter

Ecodesign

Trademark	Vents					
Model	VUER 251 P EC R A21					
Specific energy consumption (SEC) (kWh/(m²/a))	Cold		Average		Warm	
	-84.5	A+	-41.2	A	-16.4	E
Type of ventilation unit	Bidirectional					
Type of drive installed	Variable speed					
Type of heat recovery system	Regenerative					
Thermal efficiency of heat recovery (%)	82					
Maximum flow rate (m³/h)	314					
Electric power input (W)	178					
Reference flow rate (m³/s)	0.062					
Reference pressure difference (Pa)	50					
Specific power input (SPI) (W/(m³/h))	0.311					
Control typology	Local demand control					
Maximum internal leakage rates (%)	2.7					
Maximum external leakage rates (%)	2.7					
Sound power level (dB(A))	44					
The annual electricity consumption (AEC) (kWh/a)	Cold		Average		Warm	
	164		164		164	
The annual heating saved (AHS) (kWh/a)	Cold		Average		Warm	
	8857		4528		2047	