



225 COMPACT

DESCRIPTION

Vasco 225 Compact ventilation units are of the type with heat recovery and are suitable for permanent, continuously running mechanical ventilation. These units are standard equipped with:

- Extremely compact ventilation unit suitable for wall mounting
- Supply indoor air duct connection at top or bottom
- Reversibility of the air flows by mirroring mounting
- Metal lacquered casing
- Internal airtight EPP (expanded polypropylene) structure
- High-performance plastic heat exchanger
- DC radial fans, with constant flow regulation
- Double bypass operation with free-cooling and free-heating
- Alarm contact
- 3-position contact for a wired external control
- 0-10V signal for a wired external control (by e.g. a home automation system)
- Modbus connection for a wired external control (by e.g. a home automation system)
- Standard equipped with internal moisture sensor for automatic flow regulation
- A F7 filter for the supply side and a M5 filter for the exhaust side.
Filters in accordance with EN779-ISO16890 F7- ePM1 55%, M5- ePM10 50%
- The possibility to combine up to 3 ventilation units on one or several remote controls
- The possibility to link up to 20 RF switches (3 positions/CO₂/RH (moisture)) with 1 ventilation unit
- Dry siphon
- RF 3-position switch:
 - Wall mounting structure
 - 3 ventilation positions + Timer function + Auto position
 - Set maximum air flow
 - LED feedback
 - Battery-powered (3V Lithium CR2450N)



OPTIONS

- Electric pre-heater: PTC element, modulating control, 1.000W, build-in
- Extra RF 3-position switches
- Demand response via RH (moisture) RF remote control (2x1.5V AA)
- Demand response via CO₂ RF remote control (1x230V+N)
- Control via RF (wireless) remote control display (1x230V+N)
- Control via Vasco Climate Control App (Gateway)



Pre-heater



RF switch



RH RF remote control



CO₂ RF remote control



RF remote control



Gateway for Vasco Climate Control App

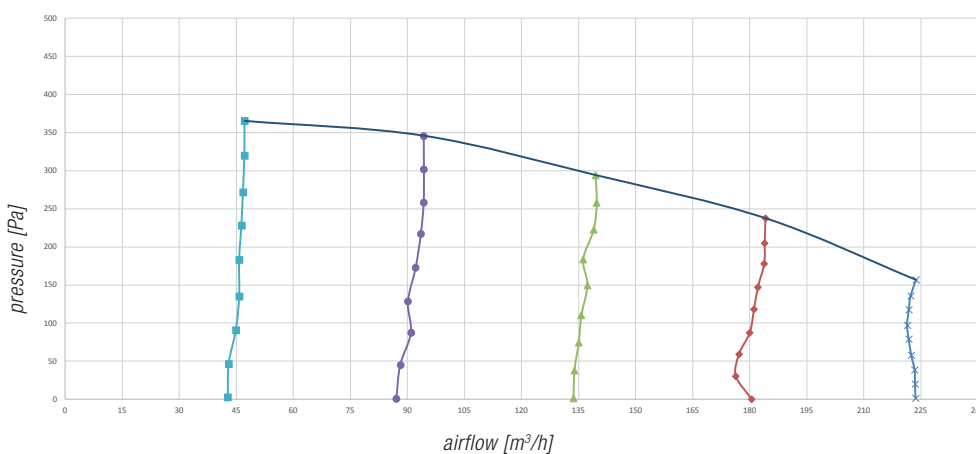


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TECHNICAL CHARACTERISTICS

		225 Compact		
Dimensions (wxdxh)	mm	547 x 300 x 800		
Weight	kg	28		
Weight including packaging	kg	32		
Supply voltage	V	230		
Maximum air flow at 150 Pa	m ³ /h	225		
Performance in accordance with EN 13141-7	%	88.6		
Performance in accordance with EN308 Annex G	%	84% at 150 m ³ /h 82% at 195 m ³ /h 81% at 222 m ³ /h		
Energy consumption (EPBD)	W	2 x 65		
Energy label		A		
Energy label with 2 sensors (CO ₂ or RH (moisture))		A+		
Sound power at 70% Q _{max} at 50 Pa	dB	42.7		
Fan mode		1	2	3
Capacity	m ³ /h	56	113	225
Pressure	Pa	8	56	150
Power	W	9.8	23.2	126.1
Current	A	0.08	0.19	1.04

GRAPH



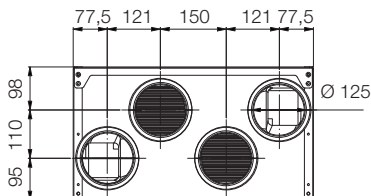
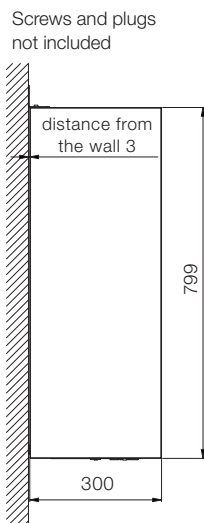
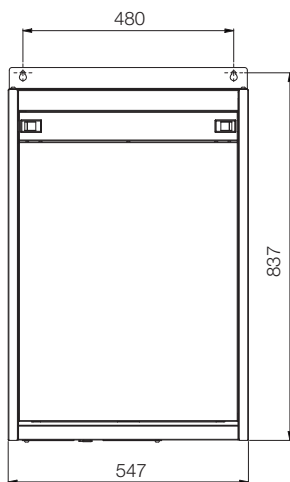
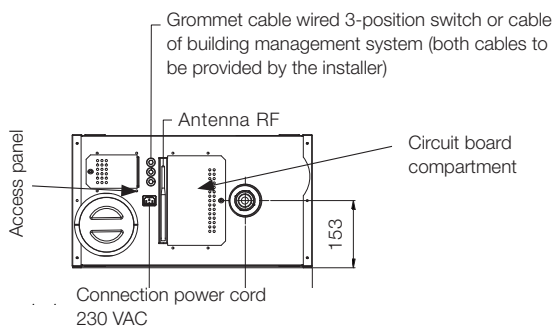
- 45 m³/h
- 90 m³/h
- ▲ 135 m³/h
- ◆ 180 m³/h
- ✕ 225 m³/h
- Maximum curve

Indicative electrical power consumption		
Q [m ³ /h]	P [Pa]	P [W]
225	150	126
	125	119
	100	116
200	150	107
	125	101
	100	91
180	150	94
	125	85
	100	76



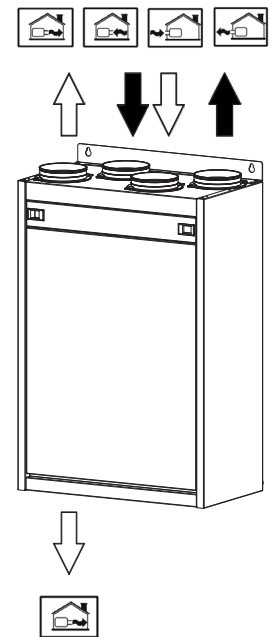
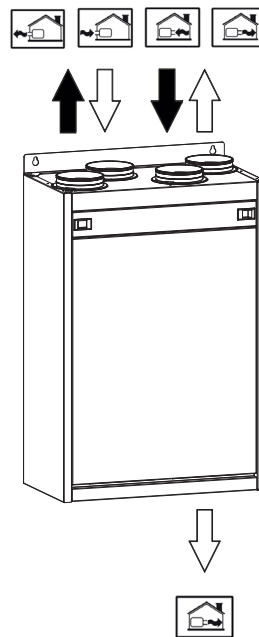
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DIMENSIONAL DRAWINGS AND CONNECTIONS



STANDARD CONFIGURATION LEFT

MIRRORED CONFIGURATION RIGHT



Dimensioning in mm



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RADIATION HOUSING

		64 m³/h @ 16 Pa	80 m³/h @ 25 Pa	96 m³/h @ 36 Pa	112 m³/h @ 49 Pa	128 m³/h @ 64 Pa	144 m³/h @ 81 Pa	160 m³/h @ 100 Pa	176 m³/h @ 121 Pa	192 m³/h @ 144 Pa	208 m³/h @ 169 Pa
Sound power level dB	63 Hz										
	125 Hz	31.10	33.40	35.20	38.30	39.20	40.20	41.80	43.60	45.30	45.60
	250 Hz	35.40	36.90	38.90	41.20	43.30	45.30	46.90	48.50	50.00	49.70
	500 Hz	29.90	31.30	33.70	36.40	38.60	40.80	42.50	44.00	45.60	45.10
	1000 Hz	27.90	29.30	31.10	33.70	35.50	37.10	38.40	39.90	41.20	40.90
	2000 Hz	17.50	19.50	23.20	27.90	31.80	35.10	37.60	38.90	39.50	40.20
	4000 Hz	5.00	9.40	12.90	16.80	19.90	22.50	25.10	27.30	29.30	29.20
	8000 Hz	9.50	9.10	10.10	9.90	12.60	15.40	18.30	20.90	22.90	22.80
Sound level dB(A)		32.30	33.80	36.00	38.80	41.10	43.10	45.00	46.40	47.80	47.60

SUPPLY AIR FROM OUTSIDE

		64 m³/h @ 16 Pa	80 m³/h @ 25 Pa	96 m³/h @ 36 Pa	112 m³/h @ 49 Pa	128 m³/h @ 64 Pa	144 m³/h @ 81 Pa	160 m³/h @ 100 Pa	176 m³/h @ 121 Pa	192 m³/h @ 144 Pa	208 m³/h @ 169 Pa
Sound power level dB	63 Hz	48.20	48.50	50.10	52.00	52.60	53.60	56.10	57.80	59.10	58.60
	125 Hz	55.30	56.00	58.50	60.50	61.80	63.30	65.80	66.20	66.90	66.00
	250 Hz	45.20	46.50	49.10	51.60	53.70	56.50	57.40	59.50	60.50	60.50
	500 Hz	35.90	36.90	39.70	42.40	44.40	46.40	48.40	50.00	51.50	50.80
	1000 Hz	30.50	31.50	33.60	35.80	37.60	39.50	41.40	42.60	44.10	44.20
	2000 Hz	18.70	19.60	23.00	26.80	29.80	33.10	36.00	37.80	39.10	39.60
	4000 Hz	16.00	16.00	16.90	18.40	19.90	22.40	25.00	27.00	28.80	29.40
	8000 Hz	15.90	15.90	16.00	16.10	16.50	17.50	18.80	20.00	21.30	21.40
Sound level dB(A)		40.90	41.70	44.30	46.60	48.50	50.60	52.60	53.90	55.00	54.80

SUPPLY AIR TO DWELLING

		64 m³/h @ 16 Pa	80 m³/h @ 25 Pa	96 m³/h @ 36 Pa	112 m³/h @ 49 Pa	128 m³/h @ 64 Pa	144 m³/h @ 81 Pa	160 m³/h @ 100 Pa	176 m³/h @ 121 Pa	192 m³/h @ 144 Pa	208 m³/h @ 169 Pa
Sound power level dB	63 Hz	65.60	67.20	69.60	72.10	73.40	75.00	77.10	78.50	81.50	81.00
	125 Hz	60.70	62.10	64.60	67.20	68.70	70.30	72.00	73.40	74.60	74.20
	250 Hz	59.10	60.30	63.00	66.70	67.30	69.80	71.30	73.20	74.70	74.40
	500 Hz	50.30	51.30	54.00	56.90	59.10	61.30	63.20	64.90	66.20	65.40
	1000 Hz	49.40	50.10	52.00	54.30	55.90	57.50	59.10	60.50	61.80	61.50
	2000 Hz	38.80	40.10	44.00	48.60	52.50	56.60	59.00	59.80	60.90	61.20
	4000 Hz	32.10	33.20	37.10	41.10	44.00	47.00	49.50	51.40	53.20	53.10
	8000 Hz	21.10	22.90	29.00	35.60	40.10	44.20	47.50	49.70	51.70	51.50
Sound level dB(A)		54.30	55.40	57.90	61.10	62.70	65.10	67.00	68.50	69.90	69.60



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EXHAUST AIR FROM DWELLING

		64 m³/h @ 16 Pa	80 m³/h @ 25 Pa	96 m³/h @ 36 Pa	112 m³/h @ 49 Pa	128 m³/h @ 64 Pa	144 m³/h @ 81 Pa	160 m³/h @ 100 Pa	176 m³/h @ 121 Pa	192 m³/h @ 144 Pa	208 m³/h @ 169 Pa
Sound power level dB	63 Hz	47.70	49.80	48.70	51.40	51.10	53.30	55.30	56.70	58.50	58.80
	125 Hz	56.10	56.50	58.90	60.90	62.10	63.10	64.50	65.10	66.50	66.40
	250 Hz	45.60	47.20	49.50	52.10	53.90	56.50	57.80	59.90	60.80	60.90
	500 Hz	36.40	37.80	40.40	43.10	44.90	47.00	49.00	50.70	52.20	51.40
	1000 Hz	32.30	33.60	37.00	38.80	40.10	41.70	43.30	44.70	46.10	45.80
	2000 Hz	22.70	24.00	27.80	31.80	35.10	38.00	40.50	41.70	42.90	42.90
	4000 Hz	16.80	17.10	18.90	21.70	24.30	26.80	29.30	31.00	32.90	32.90
	8000 Hz	15.90	16.00	16.10	16.80	18.30	20.10	22.60	24.50	26.60	26.70
Sound level dB(A)		41.80	42.80	45.40	47.70	49.50	51.30	52.90	54.50	55.60	55.50

EXHAUST AIR TO OUTSIDE

		64 m³/h @ 16 Pa	80 m³/h @ 25 Pa	96 m³/h @ 36 Pa	112 m³/h @ 49 Pa	128 m³/h @ 64 Pa	144 m³/h @ 81 Pa	160 m³/h @ 100 Pa	176 m³/h @ 121 Pa	192 m³/h @ 144 Pa	208 m³/h @ 169 Pa
Sound power level dB	63 Hz	63.30	62.90	65.90	68.30	70.10	72.50	74.20	75.70	77.40	77.50
	125 Hz	56.00	57.80	60.40	62.50	64.80	66.70	68.50	70.20	72.00	71.20
	250 Hz	56.80	56.40	59.30	61.40	63.50	65.50	67.30	68.70	70.90	70.10
	500 Hz	49.90	49.30	52.60	54.80	56.90	58.90	61.00	62.60	64.40	62.70
	1000 Hz	49.10	48.00	51.40	53.00	54.40	56.20	57.70	59.00	60.40	60.00
	2000 Hz	37.50	36.50	40.80	44.50	47.60	52.30	56.20	58.30	59.10	59.20
	4000 Hz	31.10	29.60	34.70	38.30	40.70	44.00	46.70	48.80	50.80	50.30
	8000 Hz	20.30	19.00	25.00	31.70	36.20	41.20	44.60	47.00	49.20	48.80
Sound level dB(A)		53.20	52.40	55.80	57.80	59.80	62.10	64.20	65.80	67.40	66.80