



# 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/CO<sub>2</sub>/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

- Version with enthalpy heat exchanger
- 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 CO<sub>2</sub> 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



CO<sub>2</sub> RF remote control



RF remote control



Gateway for Vasco Climate Control App

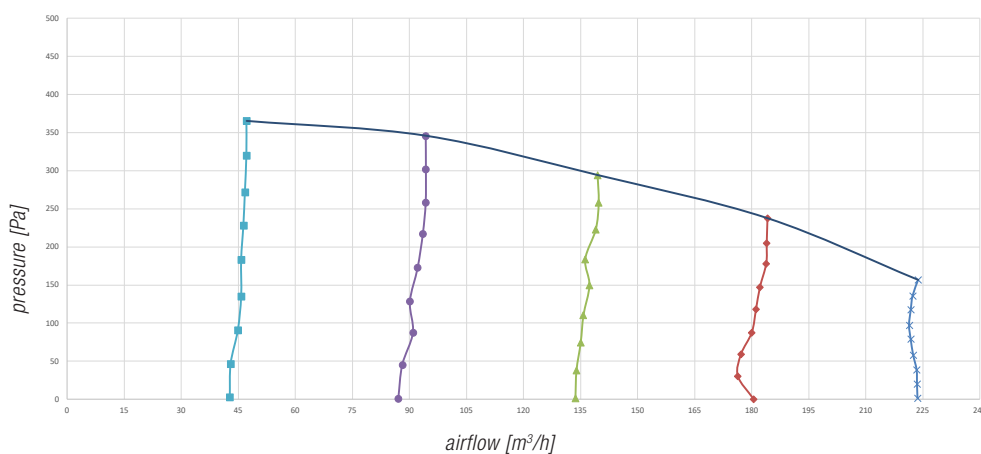


# 225 COMPACT

## TECHNICAL CHARACTERISTICS

|  |                   |  |          |          |
|--|-------------------|--|----------|----------|
|  |                   | <b>225 Compact</b>   |          |          |
| 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 <sup>3</sup> /h | 225  |          |          |
| Performance in accordance with EN 13141-7                      | %                 | 88.6   |          |          |
| Performance in accordance with EN308 Annex G                   | %                 | 84% at 150 m <sup>3</sup> /h<br>82% at 195 m <sup>3</sup> /h<br>81% at 222 m <sup>3</sup> /h |          |          |
| Energy consumption (EPBD)                                      | W                 | 2 x 65   |          |          |
| Energy label   |                   | A  |          |          |
| Energy label with 2 sensors (CO <sub>2</sub> or RH (moisture)) |                   | A+   |          |          |
| Sound power at 70% Q <sub>max</sub> at 50 Pa                   | dB                | 42.7   |          |          |
| <b>Fan mode</b>  |                   | <b>1</b>   | <b>2</b> | <b>3</b> |
| Capacity   | m <sup>3</sup> /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



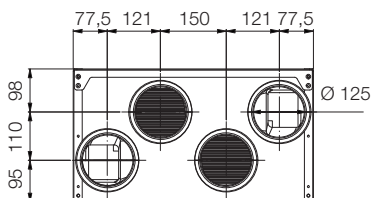
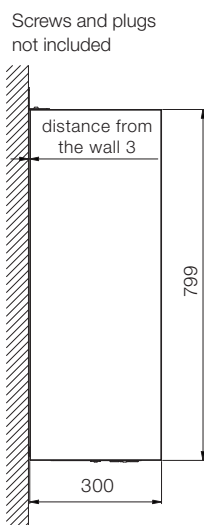
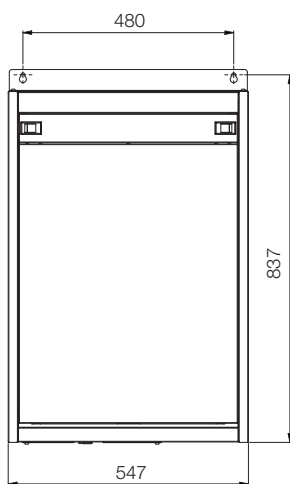
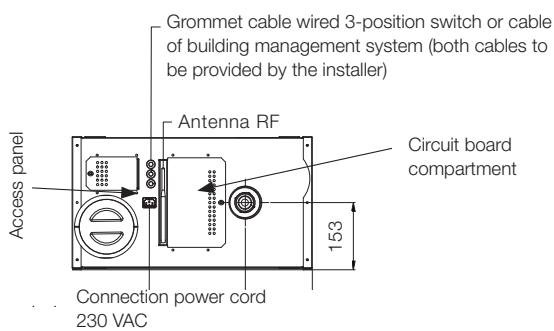
- 45 m<sup>3</sup>/h
- 90 m<sup>3</sup>/h
- ▲ 135 m<sup>3</sup>/h
- ◆ 180 m<sup>3</sup>/h
- ✦ 225 m<sup>3</sup>/h
- Maximum curve

| Indicative electrical power consumption |        |       |
|---|--------|-------|
| Q [m <sup>3</sup> /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    |



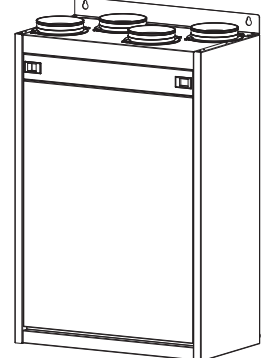
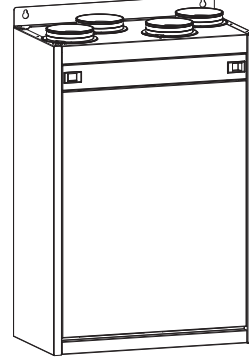
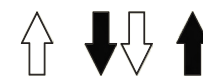
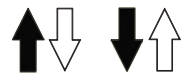
# 225 COMPACT

## DIMENSIONAL DRAWINGS AND CONNECTIONS



STANDARD CONFIGURATION LEFT

MIRRORED CONFIGURATION RIGHT



Dimensioning in mm



# 225 COMPACT

## RADIATION HOUSING

|                         |         | 64 m³/h<br>@ 16 Pa | 80 m³/h<br>@ 25 Pa | 96 m³/h<br>@ 36 Pa | 112 m³/h<br>@ 49 Pa | 128 m³/h<br>@ 64 Pa | 144 m³/h<br>@ 81 Pa | 160 m³/h<br>@ 100 Pa | 176 m³/h<br>@ 121 Pa | 192 m³/h<br>@ 144 Pa | 208 m³/h<br>@ 169 Pa |
|-------------------------|---------|--------------------|--------------------|--------------------|---------------------|---------------------|---------------------|----------------------|----------------------|----------------------|----------------------|
| Sound power level<br>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<br>@ 16 Pa | 80 m³/h<br>@ 25 Pa | 96 m³/h<br>@ 36 Pa | 112 m³/h<br>@ 49 Pa | 128 m³/h<br>@ 64 Pa | 144 m³/h<br>@ 81 Pa | 160 m³/h<br>@ 100 Pa | 176 m³/h<br>@ 121 Pa | 192 m³/h<br>@ 144 Pa | 208 m³/h<br>@ 169 Pa |
|-------------------------|---------|--------------------|--------------------|--------------------|---------------------|---------------------|---------------------|----------------------|----------------------|----------------------|----------------------|
| Sound power level<br>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<br>@ 16 Pa | 80 m³/h<br>@ 25 Pa | 96 m³/h<br>@ 36 Pa | 112 m³/h<br>@ 49 Pa | 128 m³/h<br>@ 64 Pa | 144 m³/h<br>@ 81 Pa | 160 m³/h<br>@ 100 Pa | 176 m³/h<br>@ 121 Pa | 192 m³/h<br>@ 144 Pa | 208 m³/h<br>@ 169 Pa |
|-------------------------|---------|--------------------|--------------------|--------------------|---------------------|---------------------|---------------------|----------------------|----------------------|----------------------|----------------------|
| Sound power level<br>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                |



# 225 COMPACT

## EXHAUST AIR FROM DWELLING

|                         |         | 64 m³/h<br>@ 16 Pa | 80 m³/h<br>@ 25 Pa | 96 m³/h<br>@ 36 Pa | 112 m³/h<br>@ 49 Pa | 128 m³/h<br>@ 64 Pa | 144 m³/h<br>@ 81 Pa | 160 m³/h<br>@ 100 Pa | 176 m³/h<br>@ 121 Pa | 192 m³/h<br>@ 144 Pa | 208 m³/h<br>@ 169 Pa |
|-------------------------|---------|--------------------|--------------------|--------------------|---------------------|---------------------|---------------------|----------------------|----------------------|----------------------|----------------------|
| Sound power level<br>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<br>@ 16 Pa | 80 m³/h<br>@ 25 Pa | 96 m³/h<br>@ 36 Pa | 112 m³/h<br>@ 49 Pa | 128 m³/h<br>@ 64 Pa | 144 m³/h<br>@ 81 Pa | 160 m³/h<br>@ 100 Pa | 176 m³/h<br>@ 121 Pa | 192 m³/h<br>@ 144 Pa | 208 m³/h<br>@ 169 Pa |
|-------------------------|---------|--------------------|--------------------|--------------------|---------------------|---------------------|---------------------|----------------------|----------------------|----------------------|----------------------|
| Sound power level<br>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                |