

# D150 COMPACT

## DESCRIPTION

Vasco D150 Compact ventilation units are of the heat recovery type and are suitable for permanent, continuously running mechanical ventilation.

As standard these units are equipped with:

- the possibility of wall- or ceiling-mounting
- air duct connections at the top/bottom as well as at the sides
- lacquered metal casing
- internal airtight EPS (expanded polystyrene) construction
- high efficiency plastic heat exchanger
- direct current radial fans with forward curved blades
- constant air flow rate through automatic pressure-dependent speed control (pressure-controlled fans)
- manual free cooling through air supply only (summer night ventilation)
- integrated control panel
- integrated RH (humidity) sensor for automatic flow control based on humidity
- alarm contact
- control via Modbus for external control (by a home automation system, for example)
- 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%
- plastic hose for condensate drain



## OPTIONS

- T-EP remote control, this should be ordered separately, if no building management system is used to control the unit:
  - wired control
  - user settings menu
  - installer menu
  - weekly programme
  - dirty filter notification
  - 4 adjustable (%) fan speeds
- electric preheating element



*T-EP remote control*



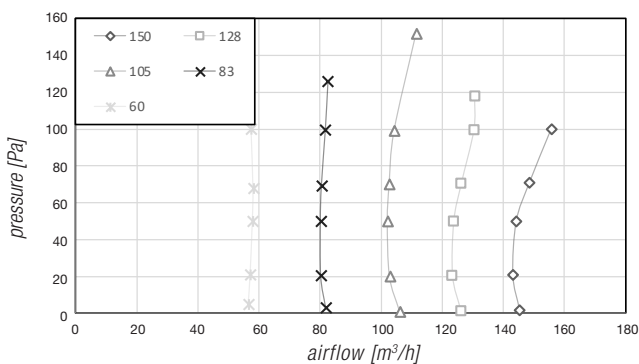
*Electric preheating element*

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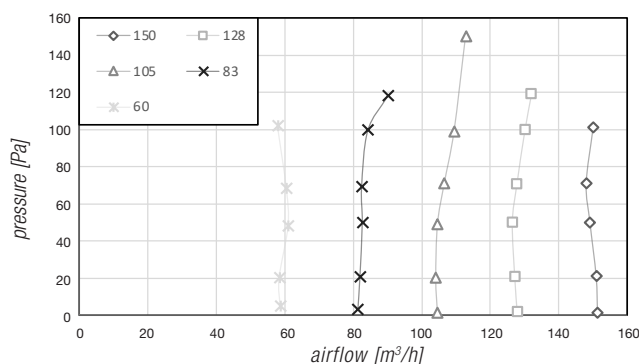
## TECHNICAL DATA

|   |       | <b>D150 COMPACT</b> |          |          |          |
|---|-------|---------------------|----------|----------|----------|
| Dimensions (hwxwd)                            | mm    | 975 x 602 x 191     |          |          |          |
| Weight  | kg    | 23                  |          |          |          |
| Weight (including packaging)                  | kg    | 25                  |          |          |          |
| Maximum airflow at 100 Pa                     | m³/h  | 150                 |          |          |          |
| Efficiency in accordance with EN13141-7       | %     | 87%                 |          |          |          |
| Efficiency in accordance with EN308 annex G   | %     | 80% at 105 m³/h     |          |          |          |
|   | %     | 78% at 134 m³/h     |          |          |          |
|   | %     | 77% at 150 m³/h     |          |          |          |
| Energy consumption (EPBD)                     | W     | 2 x 33 Watt         |          |          |          |
| Energy label                                  |       | A                   |          |          |          |
| Sound power at 70% Q <sub>vmax</sub> at 50 Pa | dB(A) | 38,5                |          |          |          |
| <b>Fan mode</b>                               |       | <b>1</b>            | <b>2</b> | <b>3</b> | <b>4</b> |
| Capacity                                      | m³/h  | 60                  | 90       | 105      | 150      |
| Pressure                                      | Pa    |                     |          | 50       | 100      |
| Power   | W     |                     |          |          | 59       |
| Electric current                              | A     |                     |          |          | 0,6      |

GRAPH SUPPLY FAN

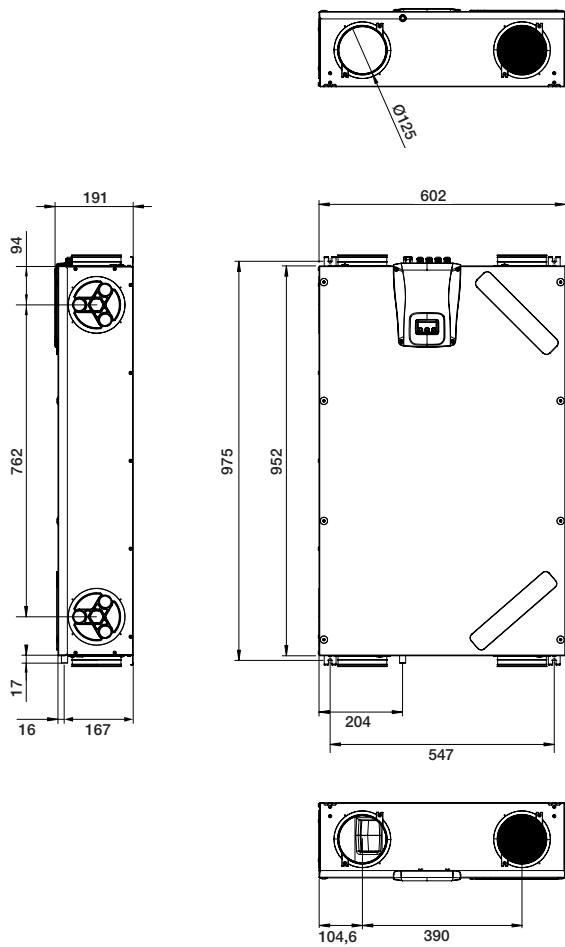


GRAPH EXHAUST FAN

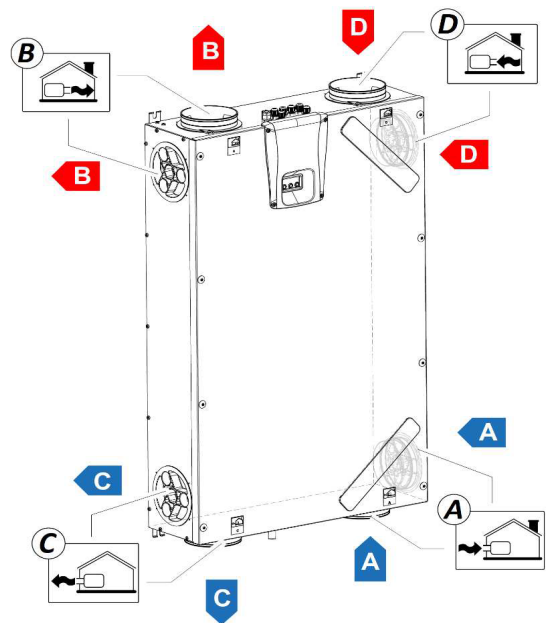


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## DIMENSIONAL DRAWINGS AND CONNECTIONS



Dimensions in mm



- A from outside
- B to residence
- C to outside
- D from residence

# D150 COMPACT

## RADIATION HOUSING

|                         |         | 91m <sup>3</sup> /h<br>@ 50Pa | 105m <sup>3</sup> /h<br>@ 50Pa |
|-------------------------|---------|-------------------------------|--------------------------------|
| Sound power level<br>dB | 125 Hz  | 44,20                         | 45,00                          |
|                         | 250Hz   | 37,60                         | 41,00                          |
|                         | 500 Hz  | 36,80                         | 37,80                          |
|                         | 1000 Hz | 30,60                         | 33,90                          |
|                         | 2000 Hz | 24,10                         | 21,70                          |
|                         | 4000 Hz | 12,40                         | 13,00                          |
|                         | 8000 Hz | 0,70                          | 5,80                           |
| Sound level dB(A)       |         | 36,80                         | 38,50                          |

## SUPPLY AIR FROM OUTSIDE

|                         |         | 91m <sup>3</sup> /h<br>@ 50Pa | 105m <sup>3</sup> /h<br>@ 50Pa |
|-------------------------|---------|-------------------------------|--------------------------------|
| Sound power level<br>dB | 125 Hz  | 50,50                         | 50,70                          |
|                         | 250Hz   | 44,80                         | 46,00                          |
|                         | 500 Hz  | 40,30                         | 43,40                          |
|                         | 1000 Hz | 39,30                         | 42,90                          |
|                         | 2000 Hz | 26,90                         | 29,00                          |
|                         | 4000 Hz | 10,10                         | 9,80                           |
|                         | 8000 Hz | 2,00                          | 2,50                           |
| Sound level dB(A)       |         | 43,30                         | 45,80                          |

## SUPPLY AIR TO DWELLING

|                         |         | 91m <sup>3</sup> /h<br>@ 50Pa | 105m <sup>3</sup> /h<br>@ 50Pa |
|-------------------------|---------|-------------------------------|--------------------------------|
| Sound power level<br>dB | 125 Hz  | 62,80                         | 60,50                          |
|                         | 250Hz   | 48,80                         | 49,90                          |
|                         | 500 Hz  | 44,30                         | 48,60                          |
|                         | 1000 Hz | 49,90                         | 51,10                          |
|                         | 2000 Hz | 41,30                         | 43,60                          |
|                         | 4000 Hz | 32,20                         | 34,50                          |
|                         | 8000 Hz | 21,70                         | 24,80                          |
| Sound level dB(A)       |         | 52,10                         | 53,60                          |

## EXHAUST AIR FROM DWELLING

|                         |         | 91m <sup>3</sup> /h<br>@ 50Pa | 105m <sup>3</sup> /h<br>@ 50Pa |
|-------------------------|---------|-------------------------------|--------------------------------|
| Sound power level<br>dB | 125 Hz  | 58,00                         | 56,90                          |
|                         | 250Hz   | 52,10                         | 51,00                          |
|                         | 500 Hz  | 45,30                         | 47,90                          |
|                         | 1000 Hz | 42,90                         | 46,60                          |
|                         | 2000 Hz | 26,50                         | 28,80                          |
|                         | 4000 Hz | 21,60                         | 22,50                          |
|                         | 8000 Hz | 3,10                          | 7,80                           |
| Sound level dB(A)       |         | 47,90                         | 50,10                          |

## EXHAUST AIR TO OUTSIDE

|                         |         | 91m <sup>3</sup> /h<br>@ 50Pa | 105m <sup>3</sup> /h<br>@ 50Pa |
|-------------------------|---------|-------------------------------|--------------------------------|
| Sound power level<br>dB | 125 Hz  | 58,00                         | 53,80                          |
|                         | 250Hz   | 46,60                         | 48,50                          |
|                         | 500 Hz  | 36,50                         | 45,00                          |
|                         | 1000 Hz | 32,90                         | 36,90                          |
|                         | 2000 Hz | 19,90                         | 28,40                          |
|                         | 4000 Hz | 11,90                         | 12,80                          |
|                         | 8000 Hz | 0,40                          | 4,30                           |
| Sound level dB(A)       |         | 43,50                         | 45,10                          |