**ENDURA® tWIST**

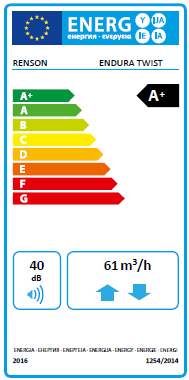
Renson Ventilation, IZ 2 Vijverdam, Maalbeekstraat 10, 8790 Waregem – Belgium

Tel. 01622 754 123, [vents@rensonuk.net](mailto:vents@rensonuk.net) www.renson.eu

DESCRIPTION (red highlighted text can be deleted according to your choice)

* Type: decentralised window ventilator with heat recovery, continuous supply of fresh air and simultaneous extraction of used air.
* Installation: horizontally (above window profile) or vertically (perfectly combinable with screens/roller shutters)
* Installation without ducts, so ideal solution for renovation
* With regenerative alternating technology:
  + continuous supply of fresh air and simultaneous extraction of polluted air: two ventilation units alternate cyclically between supply and extraction of air
  + frost- and condensation- free
* Modular system: 2 ventilation units per product, with 1 up to 6 fans per ventilation unit

(more fans = more airflow)

* **Thermally broken**
* Low sound generation
* Low power consumption
* Bypass function: no pre-heating of the supplied air during summer
* Natural ventilation-function: natural instead of mechanical supply and extraction
* Silent mode-function: limited power consumption and sound generation (e.g. for night time)
* Fully closable: fans turn 90° until closed position
* **Material and surface finishing:**
  + **aluminium** interior and exterior profiles
  + available powder coated in any RAL colour
* Various air supply possibilities
  + downwards
  + upwards
* Watertight **rain cap**
* Control options:
  + optional: Touch Display with integrated IAQ-sensors
  + optional: Integration in Building Management System (BMS) possible
  + optional: Button control
* Optionally available with **filters** (G3 or F7)
* Optionally available with demand controlled: Indoor Air Quality (IAQ)
* Ease of maintenance: ventilation units and filters easily accessible by opening the interior profile
* European EcoDesign label: A / A+

Technical specifications[[1]](#footnote-1)

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Endura Twist\*** | | | | | | | | | | | |
| Number of fans | | **2x1** | **2x2** | | **2x3** | | **2x4** | **2x5** | | | **2x6** |
| No filter | Qmin (m³/h) | 6.8 m³/h | 13.5 m³/h | | 20.3 m³/h | | 27 m³/h | 33.8 m³/h | | | 40.5 m³/h |
| Qnom (m³/h) | 13.5 m³/h | 27 m³/h | | 40.5 m³/h | | 54 m³/h | 67.5 m³/h | | | 81 m³/h |
| Qmax (m³/h) | 27 m³/h | 54 m³/h | | 81 m³/h | | 108 m³/h | 135 m³/h | | | 162 m³/h |
| Coarse 45% | Qmin (m³/h) | 6 m³/h | 12 m³/h | | 18 m³/h | | 24 m³/h | 30 m³/h | | | 36 m³/h |
| Qnom (m³/h) | 12 m³/h | 24 m³/h | | 36 m³/h | | 48 m³/h | 60 m³/h | | | 72 m³/h |
| Qmax (m³/h) | 24 m³/h | 48 m³/h | | 72 m³/h | | 96 m³/h | 120 m³/h | | | 144 m³/h |
| ePM1 75% | Qmin (m³/h) | 4.9 m³/h | 9.8 m³/h | | 14.7 m³/h | | 19.6 m³/h | 24.5 m³/h | | | 29.4 m³/h |
| Qnom (m³/h) | 9.8 m³/h | 19.6 m³/h | | 29.4 m³/h | | 39.2 m³/h | 49 m³/h | | | 58.9 m³/h |
| Qmax (m³/h) | 19.6 m³/h | 39.2 m³/h | | 58.8 m³/h | | 78.4 m³/h | 98 m³/h | | | 117.7 m³/h |
|  | | | | | | | | | | | |
| Thermical efficiency level (EN13141-8) | | max. 80% | | | | | | | | | |
|  | | | | | | | | | | | |
| Sound reduction (ISO 10140-2) Dn,e,w (C;Ctr) in open position | | max. 40 (0;-3) dB | | | | | | | | | |
|
|  | | | | | | | | | | | |
| Sound reduction (ISO 10140-2) Dn,e,w (C;Ctr) in closed position | | max. 50.6 (-1;-4) dB | | | | | | | | | |
|  | | | | | | | | | | | |
| Sound generation (ISO 3741:2010) Lp: measured at 2m distance from the window vent | | | | | | | | | | | |
| No filter | Qmin | 18.1 dB(A) | 21.1 dB(A) | | 22.8 dB(A) | | 24.1 dB(A) | 25 dB(A) | | | 25.8 dB(A) |
| Qnom | 34.3 dB(A) | 37.3 dB(A) | | 39.1 dB(A) | | 40.3 dB(A) | 41.3 dB(A) | | | 42.1 dB(A) |
| Qmax | 40 dB(A) | 43 dB(A) | | 44.8 dB(A) | | 46 dB(A) | 47 dB(A) | | | 47.8 dB(A) |
| Coarse 45% | Qmin | 18 dB(A) | 21 dB(A) | | 22.8 dB(A) | | 24 dB(A) | 25 dB(A) | | | 25.8 dB(A) |
| Qnom | 34.2 dB(A) | 37.2 dB(A) | | 39 dB(A) | | 40.2 dB(A) | 41.2 dB(A) | | | 42 dB(A) |
| Qmax | 39.9 dB(A) | 42.9 dB(A) | | 44.7 dB(A) | | 45.9 dB(A) | 46.9 dB(A) | | | 47.7 dB(A) |
| ePM1 75% | Qmin | 19.6 dB(A) | 22.6 dB(A) | | 24.4 dB(A) | | 25.6 dB(A) | 26.6 dB(A) | | | 27.4 dB(A) |
| Qnom | 36.7 dB(A) | 39.7 dB(A) | | 41.5 dB(A) | | 42.7 dB(A) | 43.7 dB(A) | | | 44.5 dB(A) |
| Qmax | 42.7 dB(A) | 45.7 dB(A) | | 47.5 dB(A) | | 48.7 dB(A) | 49.7 dB(A) | | | 50.5 dB(A) |
|  | | | | | | | | | | | |
| Power Consumption | | | | | | | | | | | |
| No filter | Qmin | 2.5 W | 3.4 W | | 4.3 W | | 5.2 W | 6.1 W | | | 7 W |
| Qnom | 3.1 W | 4.6 W | | 6.1 W | | 7.6 W | 9.1 W | | | 10.6 W |
| Qmax | 5.2 W | 8.8 W | | 12.4 W | | 16 W | 19.6 W | | | 23.2 W |
| Coarse 45% | Qmin | 2.7 W | 3.8 W | | 4.8 W | | 5.9 W | 6.9 W | | | 8 W |
| Qnom | 3.6 W | 5.5 W | | 7.4 W | | 9.4 W | 11.3 W | | | 13.2 W |
| Qmax | 6 W | 10.4 W | | 14.7 W | | 19.1 W | 23.4 W | | | 27.7 W |
| ePM1 75% | Qmin | 2.8 W | 3.9 W | | 5.1 W | | 6.2 W | 7,3 W | | | 8.4 W |
| Qnom | 3.7 W | 5.7 W | | 7.8 W | | 9.8 W | 11.8 W | | | 13.9 W |
| Qmax | 6.2 W | 10.8 W | | 15.3 W | | 19.9 W | 24.4 W | | | 29 W |
|  | | | | | | | | | | | |
| U-value (EN ISO 10077-2) | | 1.0 W/m²K | | | | | | | | | |
| Watertightness (in open position) (EN 13141-1:2004) | | up to 150Pa | | | | | | | | | |
| Fall protection (DIN EN 13049) | | Class 5 (if correctly mounted) | | | | | | | | | |
|  | | | | | | | | | | | |
| Height | | 110 mm | | | | | | | | | |
| Min. length | | 750 mm | | 1000 mm | | 1250 mm | 1500 mm | | 1750 mm | 2000 mm | |
| Max. length | | 6000 mm | | | | | | | | | |
| Depth | | 320 mm (345 mm with design exterior cover) | | | | | | | | | |
| Filter | | optional G3 or F7 filter | | | | | | | | | |
| Device class | | I | | | | | | | | | |
| Usable temperature-range | | from ‒15 °C to +45 °C | | | | | | | | | |
| Resistant to frost | | √ | | | | | | | | | |
| Condensation free | | √ | | | | | | | | | |
|  | | | | | | | | | | | |
| Voltage | | 230V / 50Hz | | | | | | | | | |
| Voltage of device (internal) | | 15V DC | | | | | | | | | |
| Supply voltage | | 230 V AC ± 10% | | | | | | | | | |

DIMENSIONS

* **Height:** 110 mm
* **Depth:** 320 mm (345 mm incl. design exterior cover)
* **Length:** 2x1 fans: 750 mm – 6000 mm

2x2 fans: 1000 mm – 6000 mm

2x3 fans: 1250 mm – 6000 mm

2x4 fans: 1500 mm – 6000 mm

2x5 fans: 1750 mm – 6000 mm

2x6 fans: 2000 mm – 6000 mm

1. \* More information: see Technical data sheet.

   Technical specifications based upon internal test results. Possible variations in external testing. [↑](#footnote-ref-1)