

**Product datasheet: Mechanical ventilation units to regulation (EU) no. 1254/2014 | 1253/2014**

|   |                           | <b>VRC-W 450 Premium</b> |
|---|---------------------------|--------------------------|
|   |                           | 204940                   |
| Manufacturer  |                           | STIEBEL ELTRON           |
| Specific energy consumption in colder climates, control subject to on-site requirements   | kWh/(m <sup>2</sup> p.a.) | -83.49                   |
| Specific energy consumption in average climates, control subject to on-site requirements  | kWh/(m <sup>2</sup> p.a.) | -44.04                   |
| Specific energy consumption in warmer climates, control subject to on-site requirements   | kWh/(m <sup>2</sup> p.a.) | -18.81                   |
| Energy efficiency class in colder climates, control subject to on-site requirements       |                           | A+                       |
| Energy efficiency class in average climates, control subject to on-site requirements      |                           | A+                       |
| Energy efficiency class in warmer climates, control subject to on-site requirements       |                           | E                        |
| Ventilation unit type   |                           | WLA, Two directions      |
| Drive type  |                           | Variable speed           |
| Heat recovery method  |                           | Recovery                 |
| Rate of temperature change for heat recovery  | %                         | 89.7                     |
| Max. air flow rate  | m <sup>3</sup> /h         | 450                      |
| Max. power consumption  | W                         | 131.9                    |
| Sound power level L <sub>wa</sub>   | dB(A)                     | 49                       |
| Reference air flow rate   | m <sup>3</sup> /s         | 0.087                    |
| Reference pressure differential   | Pa                        | 50                       |
| Specific input  | W/(m <sup>3</sup> /h)     | 0.18                     |
| Control factor, control subject to on-site requirements                                   |                           | 0.65                     |
| Declared maximum internal leakage rates   | %                         | 1,03                     |
| Declared maximum external leakage rates   | %                         | 0.78                     |
| Annual power consumption in colder climates with control subject to on-site requirements  | kWh/a                     | 677                      |
| Annual power consumption in average climates with control subject to on-site requirements | kWh/a                     | 140                      |
| Annual power consumption in warmer climates with control subject to on-site requirements  | kWh/a                     | 95                       |
| Annual heating savings in colder climates with control subject to on-site requirements    | kWh/a                     | 9169                     |
| Annual heating savings in average climates with control subject to on-site requirements   | kWh/a                     | 4687                     |
| Annual heating savings in warmer climates with control subject to on-site requirements    | kWh/a                     | 2119                     |