V-WRG Plus/LAW
Communicative individual room ventilation unit with heat recovery and high Sound insulation for living rooms and bedrooms, hotels, offices etc.

1. Room-sided Plus design cover
   - fully thermally insulated housing
   - adjustable air outlet roll
   - adjustable air guidance
   - toolless revision / filter exchange

2. Rough construction Telescope Set
   - Adjustment range 275-460 (andere a.A.)
   - for wall constructions from 275 mm
   - with fixed mounting points for the final assembly of the chamber-side cover and the outer facade connecting

3. System support unit with fan
   - energy-efficient EC technology
   - vibration and sound isolation
   - especially quiet operation
   - toolless inspection

4. High-performance heat exchanger
   - Heat recovery rate above 90%
   - additional storage mass / energy reserves by large, square design
   - closed ceramic without adhesive insulation guarantees permanently the highest hygiene and wear-free cleaning processes
   - entire leadframe unit with fan and heat exchanger form a functional unit
   - Unit without tools rotatable / revisionable

5. Stainless steel external wall cover
   - with protective grille and air guiding louvres
   - Baseplate with integrated condensate drain and factory sponge rubber seal
   - highest material Qualität
   - homogeneous / unobtrusive appearance
   - smallest dimensions

V-WRG Plus

- Intelligent control system
  - Operating directly on the device
  - Variable group formation possible
  - Communication over the existing power grid (without radio and without additional cables, ideal for renovation without plaster damage)

- Selectable program functions
  - Continuous operation, moisture protection, draft ventilation or cross ventilation for summer night cooling

- Ceramic heat exchanger
  - square Type
  - Heat recovery rate > 90%

- Sound insulation: dB, D_{new}
In addition to high energy efficiency is in this sound absorbing series especially the protection against external noise in the foreground. The square design of the equipment has been designed for WRG-sound absorbing angular rough openings and is ideal for new building installations. The communicative control system (via the existing power grid) proves compared to wire based ventilation systems at the planning stage to be extremely beneficial and flexible. About the possibility of defining your group soundproofed residential ventilation is future-proof and can be adapted to changing user or lifestyle habits at any time.

All control options are directly on the device and thus spatially based selectable. Overall 5-ventilation levels with 4 stored program functions are available for the demand-oriented control of your sound-insulated residential ventilation available. In addition to the building physics required minimum air exchange for humidity protection increased noise protection already provides as standard for a relaxing atmosphere.

With a heat recovery capacity of more than 90% the V-WRG-RONDO system saves valuable primary energy and avoids unnecessary ventilation heat losses. An energy efficient home ventilation affects the energy balance of an object thus significantly, making a positive impact in the form of low incidental expenses sustainably and especially in the wallet visible.

V-Plus WRG units are already factory with a Airstatic Hygiene Filter Class G3 equiped (pollen filter F6 are optionally available). The revision of all air-carrying components and filter changes are possible without tools.

Your most important advantages at a glance

- Fresh air and moisture protection around the clock
- ventilation with the windows closed for best protection against burglary and insect protection
- Protection against fine dust / pollen-allergic protection
- Moisture protection and building maintenance
- In winter: high primary energy savings
- In summer: optimal reduction of thermal loads
- Silent and power-saving EC fans
- Integrated sound insulation

V-WRG-RONDO Plus devices are working in winter operation even at low outdoor temperatures (down to -20 °C) frost. Unlike traditional cross or counterflow heat exchangers (which have already from 0 °C to initiate a defrost), provides the high-performance ceramic heat exchangers are always its maximum heat recovery rate lossless available.

Despite the ideal dehumidification capacity WRG-RONDO system does not dry out your living rooms; therefore it receives the necessary healthy living for humans (mucous membranes) and also protects your valuable furniture and wooden floors.

During the summer months the heat exchanger feature can be disabled through the cross ventilation to the living rooms to feed cool night air.

V-WRG Plus (Power-Line-Control)

- High communicative individual control
- Operation directly on the device
- Single-mode or grouping
- 4 program functions in 5 ventilation levels
  - continuous ventilation
  - humidity monitoring (for each room)
  - push ventilation (every 2 hours for 15 min.)
  - cross ventilation (night cooling / summer)
- paired / unpaired devices operating
- soundless filter change indicator
- easy / intuitive operation

Optimum air hygiene / easy operation
- duct free and installation without tools / revision
- HEX-Ceramik heat exchanger > 90%
- highly efficient flow rectifier
- Plug & Play / the IQ-System is immediately ready for operation
- for new and renovated buildings; all wall constructions
- durable units components and high-quality materials such as ABS, stainless steel or aluminum guarantee maximum longevity
- Made in Germany
Device components
V-WRG Plus/LAW

The entire ventilation system has a modular structure and therefore the task accordingly configurable. Coordinated to the assembly steps are following modules / kits orderable.

### Appliance unit / Final Assembly Set

- **V-WRG Plus**
  - Art.-Nr.: 1500-1330VX
  - Room-sided Plus design panel thermally insulated incl. Communicative V-WRG-control system and hygiene Airstatic G3 filter, system support unit incl. flow rectifier and protective grille high-performance ceramic heat exchanger
  - Sound protection
  - $47 \text{ dB}, \ D_{\text{max}}$

### Rough construction Telescope-Set

- **TE-LAW**
  - Art.-Nr.: 1500-2000VX
  - Building physics optimized and thermally separated, incl. Mounting protective cover.
  - Telescopic quick mounting (275-460 mm) with fixed points for easy installation on the room side and the outer cover

### Facade external wall cover

- **FA-LAW-K**
  - Art.-Nr.: 1500-4000VX
  - System conformer facade border in high-quality stainless steel design (optional white powder coated, similar, RAL 9016) incl.
  - Air / condensate guide louvre
  - Dimensions H / W / D: 220/200x45 mm

- **FA-LAW-K w (white)**
  - Art.-Nr.: 1500-4010VX

### Intigated Controller

- Decentralized, communicative control unit for the optional ventilation operation in single mode or in groups (power line).
- For variable Planning paired / unpaired ventilation concepts with high demands on operating comfort and user flexibility.
- already in the device unit include

### Replacement filter

- **AirStatic G3 Hygienic filter**
  - Art.-No.: 1500-1903VX
  - Original Ventomaxx International hygienic filter replaced without tools
- **AirStatic F6 Pollen filter**
  - Art.-No.: 1500-1906VX
  - Pay attention to your health and use only VOC-free tested original filter

Additional accessories for specific projects on request. / after technical clarification.
## Technical data

### V-WRG Plus

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Series / device version</td>
<td>V-WRG Plus / LAW</td>
</tr>
<tr>
<td>Regulation / control</td>
<td>V-WRG / intern</td>
</tr>
<tr>
<td>Program functions</td>
<td>continuous ventilation</td>
</tr>
<tr>
<td>Air power level 5-stages [ m³/h]</td>
<td>moisture Monitor</td>
</tr>
<tr>
<td>17/21/24/34/43</td>
<td>draft ventilation</td>
</tr>
<tr>
<td>Heat recovery</td>
<td>cross ventilation</td>
</tr>
<tr>
<td>&gt; 90 %</td>
<td>regenerativ</td>
</tr>
<tr>
<td>High performance heat exchanger</td>
<td>regenerativ</td>
</tr>
<tr>
<td>Fan typ</td>
<td>EC, axial, digital</td>
</tr>
<tr>
<td>Power consumption (fan speed 1 to 5)</td>
<td>1.4 – 3.4 Watt</td>
</tr>
<tr>
<td>Connection voltage (control), at 50 Hz</td>
<td>85 – 260 Volt – AC</td>
</tr>
<tr>
<td>(international wide range)</td>
<td></td>
</tr>
<tr>
<td>Operating voltage (station)</td>
<td>230V AC/12V DC</td>
</tr>
<tr>
<td>Power connection</td>
<td>Fixed net / mains plug (optional)</td>
</tr>
<tr>
<td>Sound pressure level*</td>
<td>~ 17 – 40 dB</td>
</tr>
<tr>
<td>Sound proofing (from outside noise) **</td>
<td>47 dB, D_max, (according test 206)</td>
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<tr>
<td>(standard sound level difference)</td>
<td></td>
</tr>
<tr>
<td>Energy efficiency class</td>
<td>A</td>
</tr>
<tr>
<td>Filter (F6 optional)</td>
<td>AirStatic G3 Hygiene filter</td>
</tr>
<tr>
<td>Design-Room cover (similar RAL 9003)</td>
<td>ABS white / thermally insulated</td>
</tr>
<tr>
<td>Casing dimensions HxWxD</td>
<td>ca. 280x218x55 mm</td>
</tr>
<tr>
<td>Facade border (conform to the system made of</td>
<td>optional, Color at your choise</td>
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<tr>
<td>stainless steel or aluminum with condensate</td>
<td></td>
</tr>
<tr>
<td>drain)</td>
<td></td>
</tr>
<tr>
<td>Nominal length/ X-Dimension (extendable up</td>
<td>275-460 mm</td>
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<tr>
<td>to 550 mm; up to 400 mm can be shortened)</td>
<td></td>
</tr>
<tr>
<td>Weight</td>
<td>ca. 3 – 4 kg</td>
</tr>
<tr>
<td>The suitable rough opening (about 185-200</td>
<td>* Surface sound pressure level, Lpf measurement</td>
</tr>
<tr>
<td>mm) is project related (round or square) set</td>
<td>in exhaust air mode</td>
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<tr>
<td>so that it is always sufficiently covered by</td>
<td>** WRG Plus measured by EN 140-10/EN ISO 140-2/EN</td>
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<tr>
<td>the selected device aperture during the final</td>
<td>ISO 717, according to test certificate ift-</td>
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<tr>
<td>assembly. We will gladly provide the necessary</td>
<td>Rosenheim</td>
</tr>
<tr>
<td>dimensional drawings available on request.</td>
<td></td>
</tr>
</tbody>
</table>

## Notes

** Surface sound pressure level, Lpf measurement in exhaust air mode
** WRG Plus measured by EN 140-10/EN ISO 140-2/EN ISO 717, according to test certificate ift-Rosenheim