RENOVENT HR

USING HEAT TWICE OVER

The Renovent HR heat exchanger brings an enormous energy saving particularly in highly insulated buildings. During the heat recovery process, the stale air being expelled is led past the fresh air in the heat exchanger. 95 % of the heat in the stale air is thus transferred to the fresh air. The appliance's output can be adjusted in three settings to the fresh-air levels required, for example if there is a large number of guests in a house. On summer nights, a built-in or retrofittable bypass cassette merely filters the cooler outside air, without transferring its heat to the building's interior.

- Two performance categories available: Renovent HR Medium and Renovent HR Large, with air throughput capacities of 300 and 400 m^3/h at 150 Pa
- Energy-saving 'constant flow' fans
- 95 % heat recovery
- Can be upgraded with bypass cassette
- Fresh-air filtering removes 95 % of dust, a special pollen filter even improves the filtration rate to 99 %
- Retrofittable high-performance pollen filter
- Warning display when filter needs cleaning

Why controlled ventilation?

Houses are becoming more and more airtight. That means damp air and airborne particles e.g. from furniture and textiles are no longer able to escape through joins or gaps. Ventilating manually by opening the windows is not an acceptable solution – that would simply allow the energy used in heating the interior to blow away wastefully. The consequence of inadequate ventilation is poor-quality air that can even lead to the formation of mould. A ventilation system maintains a constant supply of fresh, dry, clean air. This lastingly improves the quality of interior air and improves the health and well-being of the inhabitants.

CENTROTEC Sustainable AG

BRINK Climate Systems
Comfort, all year round

A Product of

Brink Climate Systems B.V.
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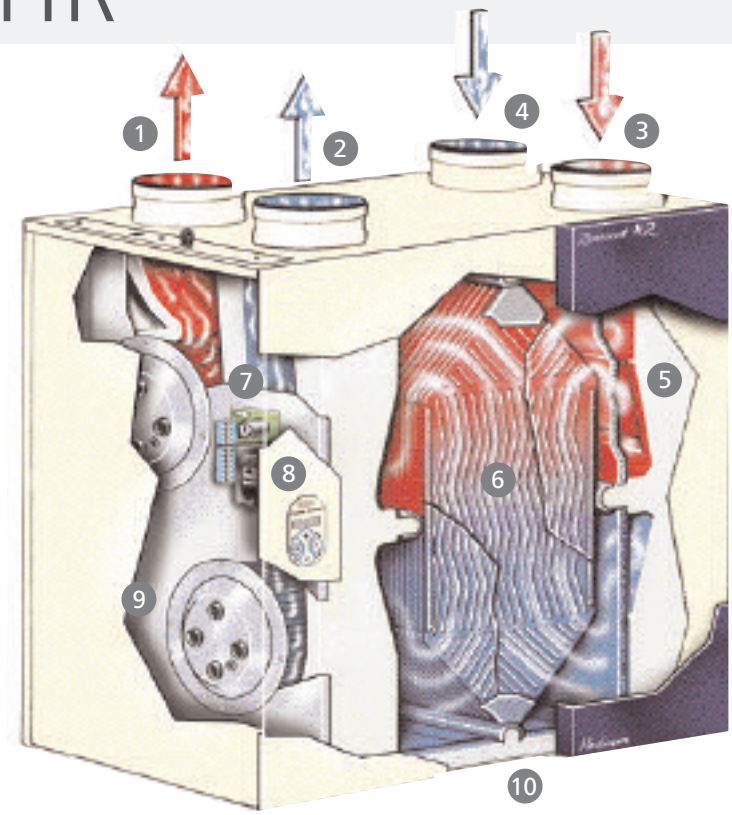
RENOVENT HR

1. Incoming air (into building)
2. Outgoing air (to the outside)
3. Stale air (out of building)
4. Fresh air (from outside)
5. Filter
6. Heat exchanger
7. Control pcb
8. Display
9. Direct-current fans for constant volumetric flow
10. Condensate drain



Technical data

Unit	Renovent HR Medium	Renovent HR Large
Fan output till 150 Pa (m³/h)	Maximum 300	Maximum 400
Total power input (W) (depending on the installation)	20 – 175 (175 at 300 m³/h and 150 Pa)	20 – 300 (300 at 400 m³/h and 150 Pa)
Air-end connections (mm)	Ø 150 und Ø 160	Ø 160 und Ø 180
Measurements H x W x D (mm)	602 x 675 x 420 (with bypass 500)	602 x 675 x 430 (with bypass 510)
Weight (kg)	31	32
Heat recovery rate (%)	95	95
EPN calculation (only for the Netherlands)	η_{WTW}: 95,0 % (Figures acc. to NEN 5128) Figures to be met acc. EPN: 0,17 A, 230 V, 2 ventilators, cos φ=0,56	η_{WTW}: 95,0 % (Figures acc. to NEN 5128) Figures to be met acc. to EPN: 0,18 A, 230 V, 2 ventilators, cos φ=0,57

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