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adm systems
fresh air by design

HRV Grande G400

An energy efficient, fresh, clean and healthy climate - all year round

Heat Recovery Ventilation (HRV) systems provide constant, controlled ventilation to homes without creating cold draughts or increasing the heat loss normally caused by ventilation. By using an HRV system the calculated heat loss is actually reduced, making homes much more energy efficient.

Stale air – polluted with smells, CO_2 and humidity – will be constantly extracted via ducted air valves in the kitchen, utility, bathrooms and cloakrooms and passed through a counter current heat exchanger before being evacuated to the outside as cold air. Fresh air, ducted from outside via a G6 pollen filter, is warmed by the high efficiency heat exchanger and then delivered through air valves into living rooms and bedrooms.

The HRV G400 is tested and listed to SAP Appendix Q.

The Range

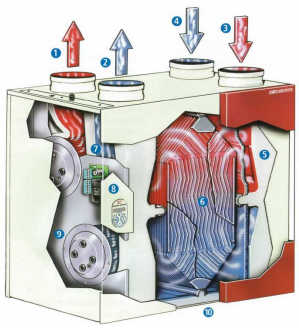
The HRV G400 is available in two versions, with a summer bypass mechanism or without. This allows cooler night air to replace indoor air that might have gained in temperature during the day.

All air connections come with a groove to secure ducting easily.

Dependent on the air flow rate, the G400 is suitable for connecting ducts of Ø180mm.

At the chosen ventilation setting, the constant flow fans keep the air flow rate constant under all conditions. This results in a permanently high efficiency while reducing initial adjustments to the minimum. The air flow rate is not influenced by filter fouling either.

The frost protection system provides optimum protection from freezing which preserves the high efficiency of the system at extreme temperatures.



KEY

1. Pre - warmed fresh air to living rooms and bedrooms
2. Cold stale air to outside
3. Warm stale air from kitchen, bathrooms and cloakrooms
4. Fresh outside air
5. Filters
6. Heat exchanger
7. Control PCB
8. Settings display
9. Direct Current fans (for constant volume)
10. Condensate discharge

Technical Specification

Appliance	Grande G400
Ventilation capacity at 150Pa [m³/h]	Maximum 400
Rated power [W] (dependent on setting)	300 at 400m³/h (at 150Pa)
Dimension duct connection [mm]	Ø180
H x W x D [mm]	602 x 675 x 430 (with bypass 510)
Weight [kg]	32
Temperature efficiency [% per NEN 5138]	95

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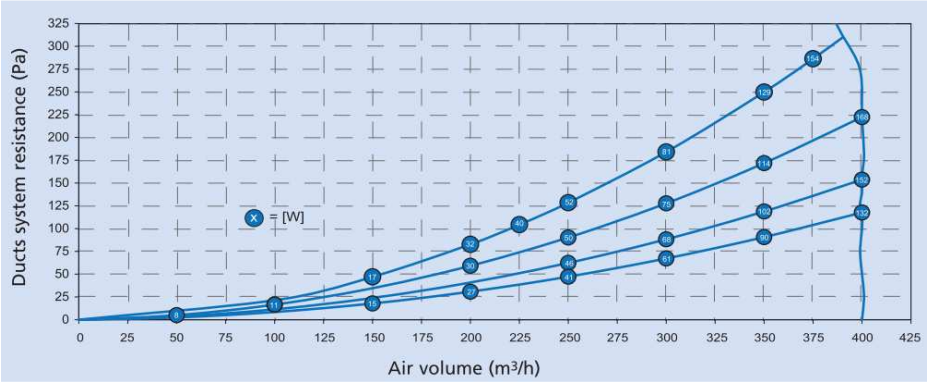
Controllers

The 3-way switch allows the user to choose between three modes:

1. low speed
2. normal speed
3. cooking/showering mode (boost)

The 3-way switch is connected quickly and easily on the outside of the appliance using a data cable and a connector. Additional switches can also be connected and fitted to any room in the dwelling.

Performance



Sound Levels

Frequency [Hz]	125	250	500	1000	2000	4000	Tot [dB(A)]
100m³/h, 40 Pa	-5	-6.3	4.5	8.4	-13.2	-17.5	10.2
150m³/h, 60 Pa	5.7	6.2	14	15.2	2	-2.5	18.3
300m³/h, 160 Pa	18.1	23.8	33.9	30.8	12.6	23.8	36.3

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