

Ecodesign and product labelling for ventilation products

Exclusively
green energy
labels for
Brink!

As from 1 January 2016, European Union (EU) requirements apply to the maximum energy consumption of ventilation products. As per 2018, these have been tightened further. In addition, requirements apply to, for instance, the functionality of ventilation products and directives have been drawn up for uniform information supply to consumers.

Energy class

The label class depends on things like implementation of heat recovery, electricity consumption of the fan or fans, and the type of control system. As regards control systems, a distinction is made between: manual control (multiple switch), timer control, central control with a sensor, or local control with two or more sensors combined with division into air zones.

All Brink products have at least a green label

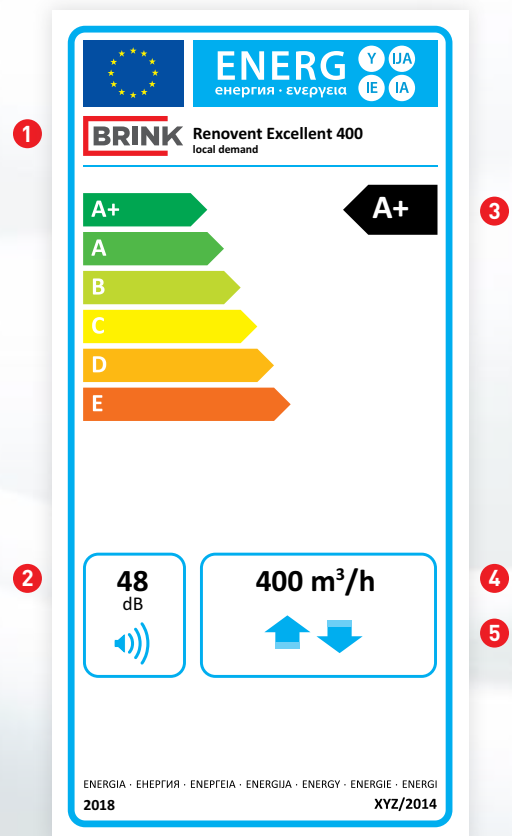
It is not always clear in advance what type of control system will be used for the ventilation appliance. This means that the appliance may come with several labels. All Brink products have at least a green label; most of them even an A or A+ label.

The Ecodesign label

On the label you will not only find the energy class and the product type, but also information on the maximum air flow rate of the ventilation appliance, the sound level and the type of control system.

* Reference flow rate: 70% of the maximum flow rate at 50 Pa (central appliances) or 0 Pa (local appliances)

** Maximum volume flow rate at 100 Pa (central appliances) and 0 Pa (local appliances)



- 1: Make, model and type of control system
- 2: Sound power level (L_{wa}) unit emission and reference volume flow*
- 3: Energy class
- 4: Maximum volume flow rate**
- 5: Ventilation appliance with 2 air flows

Label overview

Appliance/control type	Renovent Excellent				Renovent Sky			Air 70
	450	400	300	180	300	200	150	
Rated maximum flow rate	450 m³/h	400 m³/h	300 m³/h	180 m³/h	300 m³/h	200 m³/h	150 m³/h	55 m³/h
Sound power unit	51 dB(A)	48 dB(A)	44 dB(A)	42 dB(A)	44 dB(A)	49 dB(A)	38 dB(A)	40 dB(A)
Manual control system	A	A	A	B				A
Timer control	A	A	A	A	A	A	A	
Central control with 1 sensor	A	A	A	A	A	A	A	
Local control with 2 or more sensors combined with at least 2-zone flow rate control	A	A+	A+	A	A+	A	A+	A*

*For local appliances a local control system with 1 sensor.

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Productdatasheet conform Ecodesign (EU), nr. 1254/2014 (Annex IV)

Supplier:		Brink Climate Systems B.V.			
Model:		Renovent Excellent 400 (Plus)			
Climate zone	Type of control	SEC-Value in kWh/m²/a	Energyclass (SEC)	The annual electricity consumption (AEC) in kWh	The annual heating saved (AHS) in kWh
Average	Manual	-36.26	A	346	4371
	Clock	-37.23	A	331	4395
	Central demand control	-39.06	A	301	4442
	Local demand control	-42.27	A+	240	4536
Cold	Manual	-76.55	A+	883	6672
	Clock	-79.75	A+	868	6708
	Central demand control	-82.04	A+	838	6780
	Local demand control	-86.16	A+	777	6924
Warm	Manual	-12.03	F	301	2301
	Clock	-12.87	E	286	2313
	Central demand control	-14.44	E	256	2338
	Local demand control	-17.13	E	195	2388

Type of ventilation unit: Ventilation unit with heat recovery
Fan: Variable speed EC fan
Type of heat exchanger: Recuperative plastic cross-counterflow heat exchanger
Thermal efficiency: 85%
Maximum flow rate: 400 m³/h
Electric power input: 142 W
Sound power level L_{WA}: 48 dB(A)
Reference flow rate: 280 m³/h
Reference pressure difference: 50Pa
Specific Power Input (SEL): 0.24 W/m³/h
Control factor: 1.0 in combination with manual switch
0.95 in combination with clock
0.85 in combination with central demand control with 1 sensor
0.65 in combination with local demand control with at least two or more sensors and with at least a two zone control
Leakage*: Internal 0.4%
External 1.3%
Filterwarning: On the display of the ventilation unit / Manual switch / clock control.
Attention! For optimal energy efficiency and a proper operation a regular filter inspection, cleaning or replacement is necessary.
Internet address for Assembly instructions: <http://www.brinkclimatesystems.nl/installateurs/kenniscentrum/Documentatie.aspx>
Bypass: Yes, 100% Bypass

* Measurements executed by TNO according to the EN 13141-7 standard (TNO-report TNO - 060 - DTM - 2013 - 01161, May 2013)

Example product data sheet Renovent Excellent 400 (Plus)

The annual electricity consumption (AEC) in kWh	The annual heating saved (AHS) in kWh
346	4371
331	4395
301	4442
240	4536

Further tightening requirements

As per 1 January 2018, the energy requirements have been tightened further. Consequently, labels F and G were discontinued and products carrying one of those labels can no longer be placed on the market.

Product data sheet

In addition to the energy label, every appliance comes with a product data sheet. This product data sheet is an information sheet specified by the EU, stating the main technical and energetic properties.

Low costs, high comfort

The product data sheet lists how much heating energy is saved with the appliances and what quantities of electricity the appliances use. This directly makes it clear that the electricity consumption of the fans is compensated by at least tenfold savings in heating energy. Consequently, the consumer who opts for Brink ventilation products, opts for lower energy costs and the highest comfort level.

Example Renovent Excellent 400

