Technical Sheet

Heat recovery appliance Renovent Excellent 400 (Plus)





The Brink Renovent Excellent is a ventilation unit with heat recovery with an efficiency of 95%, a maximum ventilation capacity of 300 or 400 m³/h and low-energy fans. Features Renovent Excellent:

- steplessly adjustable air flow rates through a control panel;
- filter indication on the appliance and the possibility for filter indication on the multiple switch;
- a completely new intelligent frost protection system which ensures that also at low outdoor temperatures the appliance's performance remains optimal and that, if necessary, it activates the standard preheater.
- low sound level
- · comes as standard with automatic bypass valve
- · constant flow control
- · low energy consumption
- · high efficiency

Renovent Excellent 300/400 is available in two types:

- · Renovent Excellent"
- Renovent Excellent Plus"

Compared to the Renovent Excellent, the Renovent Excellent Plus has a more extensive control board which increases the connection options.

These installation instruction describe both the standard Renovent Excellent and the Renovent Excellent Plus.

The Renovent Excellent (Plus) is available in the left-handed or right-handed version. A left-handed version has the filters on the left behind the filter door; a right-handed version has the filters on the right behind the filtered door. The position of the air ducts differs for these two versions! For the correct position of the connection ducts and dimensions see page 5.

When ordering an appliance always state the correct type; subsequent conversion to a different version is not possible.

The Renovent Excellent comes ready to plug in with a 230 V mains plug and a connection for a low-voltage multiple switch on the outside of the appliance.

Note:

When replacing a Renovent Large by a Renovent Excellent, do realise that the positions of the ducts "From dwelling" and "From atmosphere" are different! (only for type 4/0 & 3/1) Carefully check the position of these ducts on the basis of the connection drawings on page 5.

Version types Renovent Excellent 300/400							
Туре	Version L of R	Position air ducts	Power supply	Type code			
		4 top connections	Power plug	4/0 L			
Renovent Excellent	Left-handed version	2 top connections & 2 bottom connections	Power plug	2/2 L			
		3 top connections & 1 bottom connection	Power plug	3/1 L			
	Right-hand version	4 top connections	Power plug	4/0 R			
		2 top connections & 2 bottom connections	Power plug	2/2 R			
		3 top connections & 1 bottom connection	Power plug	3/1 R			
	Left-handed version	4 top connections	Power plug	4/0 L+			
Renovent Excellent Plus		2 top connections & 2 bottom connections	Power plug	2/2 L+			
		3 top connections & 1 bottom connection	Power plug	3/1 L+			
	Right-hand version	4 top connections	Power plug	4/0 R+			
		2 top connections & 2 bottom connections	Power plug	2/2 R+			
		3 top connections & 1 bottom connection	Power plug	3/1 R+			

Technical information

	Renovent Excellent 400						
Supply voltage [V/Hz]	230/50						
Protection degree	IP30						
Dimensions (w x h x d) [mm]	675 x 765 x 564						
Duct diameter [mm]	Ø180						
External diameter condensate discharge [mm]	Ø32						
Weight [kg]			38				
Filter class	G3 (F7 optional for supply)						
Fan setting (factory setting)	5 1 2		2	3			
Ventilation capacity [m³/h]	50	100	200	300			
Permissible resistance ducts system [Pa]	3 - 6	6 - 20	25 - 49	56 - 178			
Rated power (excl. preheater)[W]	8,6	9.5 - 15	29 - 40	72 - 98			
Rated current (excl. preheater)[AA]	0,10	0.12 - 0.14	0.24 - 0.31	0.51 - 0.7			
Max. rated current (with preheater switched on) [A]	6						
Cos φ	0,38	0.45 - 0.40	0.56 - 0.58	0.60 - 0.61			

Packaging

Packaging unit per pallet	
2	

Warranty period

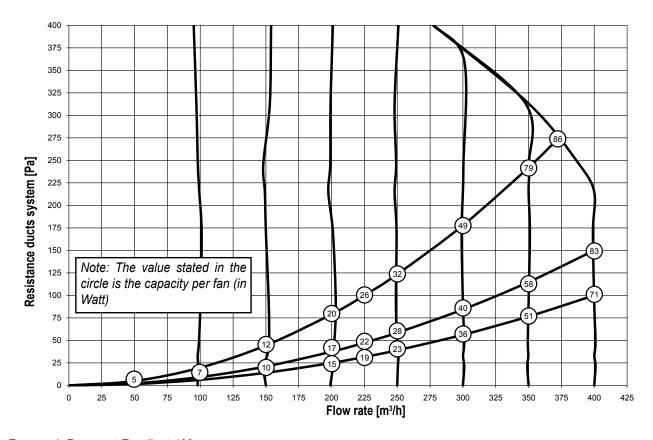
2 years on parts and 5 years on the heat exchanger.

Sound power

Sound power Excellent 400												
Ventilation capacity [m³/h]		100		200		225		300		400		
Sound power	Static pressure [Pa]	9	40	38	80	47	100	84	175	240	150	225
level Lw (A)	Housing emission [dB(A)	28.5	31.5	39.5	40.5	42.5	46.5	50.0	52.0	53.0	53.5	56.0
	Duct "from dwelling" [dB(A)]	30.5	33.5	45.5	47.0	47.5	49.0	55.5	56.0	57.0	58.0	59.0
	Duct "to dwelling" [dB(A)]	41.5	46.5	56.0	58.0	59.5	61.5	65.0	67.5	68.5	69.5	70.5

In practice, the value may deviate 1 dB(A) as a result of measuring tolerances

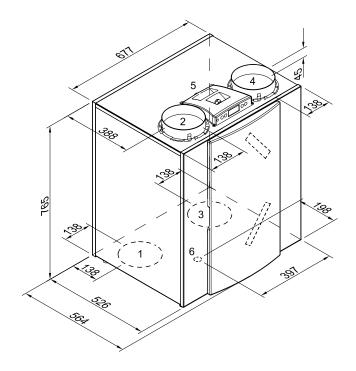
Fan graphs



Fan graph Renovent Excellent 400

Connections and dimensions Renovent Excellent 300/400

Renovent Excellent right-handed version



Renovent Excellent Right-handed 2/2

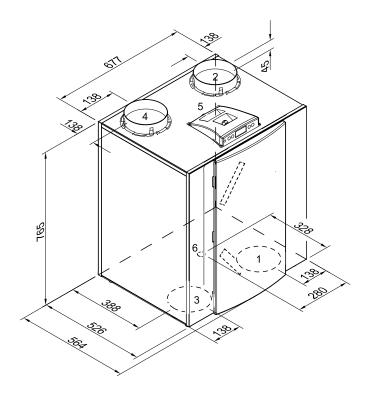
3 3 3 4 3 3 4 3 4 3 4 4 5 6

Renovent Excellent Right-handed 3/1

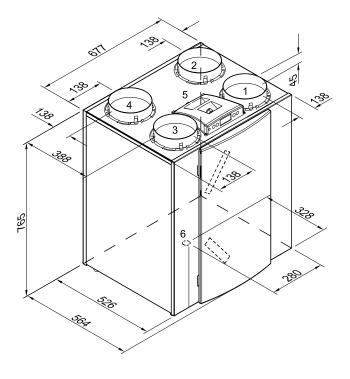
Renovent Excellent Right-handed 4/0

- 1 = To dwelling
- 2 = To atmosphere
- 3 = From dwelling
- 4 = From atmosphere
- 5 = Electric connections
- 6 = Connection condensate discharge
- 7 = Wall mounting bracket (note the correct position of the rubber strip, washers and caps)

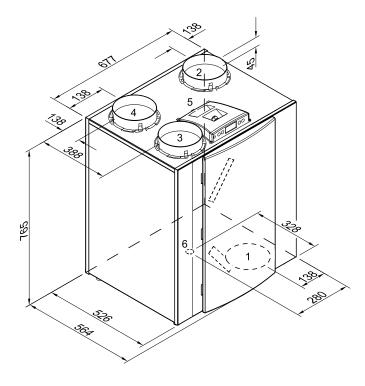
Renovent Excellent left-handed version



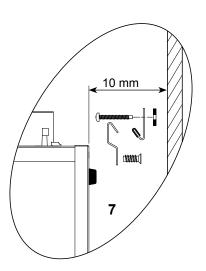
Renovent Excellent left-handed 2/2



Renovent Excellent left-handed 4/0



Renovent Excellent left-handed 3/1



Mounting wall suspension kit

Exploded view

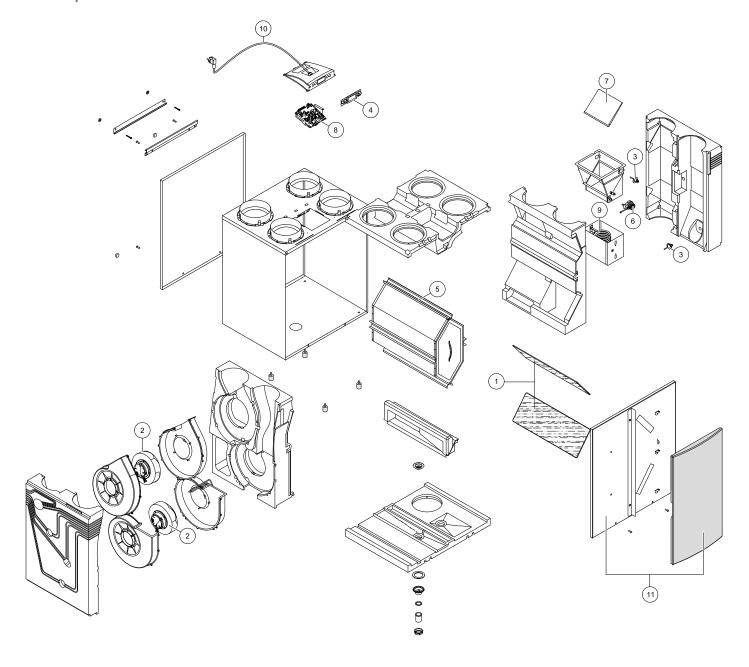
When ordering parts, in addition to the article code number (see exploded view), please state the type of the heat recovery appliance, the serial number, the year of production and the name of the part:

N. B.:

Appliance type, serial number and year of production are stated on the identification plate on the top of the appliance.

Example	
Appliance type	: Renovent Excellent 4/0 R
Serial number	: 420020113201
Year of production	: 2013
Part	: Fan
Article code	: 531774
Qty	:1

Service parts



Service parts

No.	Article description	Article code
1	Filter kit 2x G3 filter (standard version)	531770
2	Fan Excellent 300 (1 pcs)	532003
	Fan Excellent 4300 (1 pcs)	531774
3	Temperature sensor	531775
4	Control panel	531776
5	Heat exchanger Excellent 300	531840
	Heat exchanger Excellent 400	531777
6	Motor bypass valve	531778
7	Bypass valve	531779
8	Control board (Plus version) When replacing, note the correct dip switch settings; see §8.1	531780
9	Heating coil 1000 W preheater	531781
10	Cable with power plug 230 volt with display cover*	531782
11	Filter door left	531934
	Filter door right	531935

 ^{*} The mains cable has a print connector.
When replacing it, always order a replacement mains cable Brink
To avoid dangerous situations, a damaged mains should only be replaced by a qualified person!

DIBt: Renovent Excellent 400



NEN 5138: Renovent Excellent 400



EN 308/EN 13141-7: Renovent Excellent 400



Passive House Certificate: Renovent Excellent 400



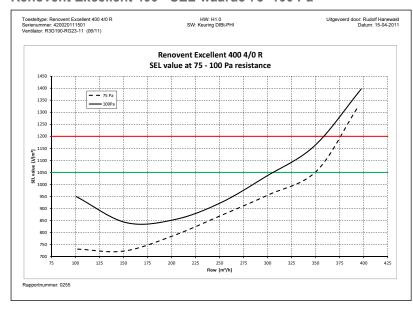
SAP-Appendix-Q: Renovent Excellent 400



Declaration of Conformity Renovent Excellent 400



Renovent Excellent 400 - SEL-waarde 75+100 Pa



Modifications reserved

Brink Climate Systems B. V. continuously strives after improvement of products and reserves the right to change the specifications without prior notice.



BRINK CLIMATE SYSTEMS B.V.

P.O. Box 11 7950 AA Staphorst Tel. +31 (0) 522 46 99 44 Fax +31 (0) 522 46 94 00 info@brinkclimatesystems.nl www.brinkclimatesystems.nl