

# ECO 360 R



- Compact dimensions
- Modulating moisture recovery
- Right/left function

The ECO 360 R is a ventilation system for heat recovery with a high-efficiency rotary exchanger. The rotary exchanger has a temperature recovery rate of up to 86% and fans with energy-saving EC motors.

The ECO 360 R is typically used in homes or small businesses where emphasis is on comfort and low energy consumption. The system is suitable for installation in larger homes or smaller business premises with an area of up to 360 m<sup>2</sup>.

The ECO 360 R stands out by being particularly energy-optimised and adapted to the stringent requirements of low-energy houses.

Despite the extremely compact installation dimensions of 60x60x60 cm, the performance of the ECO 360 R matches systems with a significantly larger footprint.

As standard, the ECO 360 R is supplied with G4 (coarse) filters on fresh air intake and on the exhaust (M5-ePM10/F7-ePM1 filter and hybrid carbon filter are available as accessories).

The ECO 360 R has backward-curved fan blades, which give minimal energy consumption. The ECO 360 R uses a rotary exchanger with sorption technology, whereby the moisture from the extract air can be recovered and, if necessary, increase the moisture in the supply air, which can be a big advantage e.g. in the winter.

The rotor speed is automatically adjusted via the Optima 270 control so that the home is supplied with exactly the amount of moisture desired, while the heat from the exhaust air is recovered in an efficient manner.

A

Please note that displays are sold separately.



# Functions

- Passive cooling with outdoor air via rotor stop.
- Right/left function. In terms of control, the unit can be configured so that supply to the home takes place from the right-hand or left-hand side of the unit.
- No need for condensate drain.
- Built-in modulating reheater – which ensures that there will always be a comfortable supply air temperature in all operating conditions.
- Optima 270 control with internet connection and app control as standard.
- 2 display options (Optima Basic/Optima Touch).

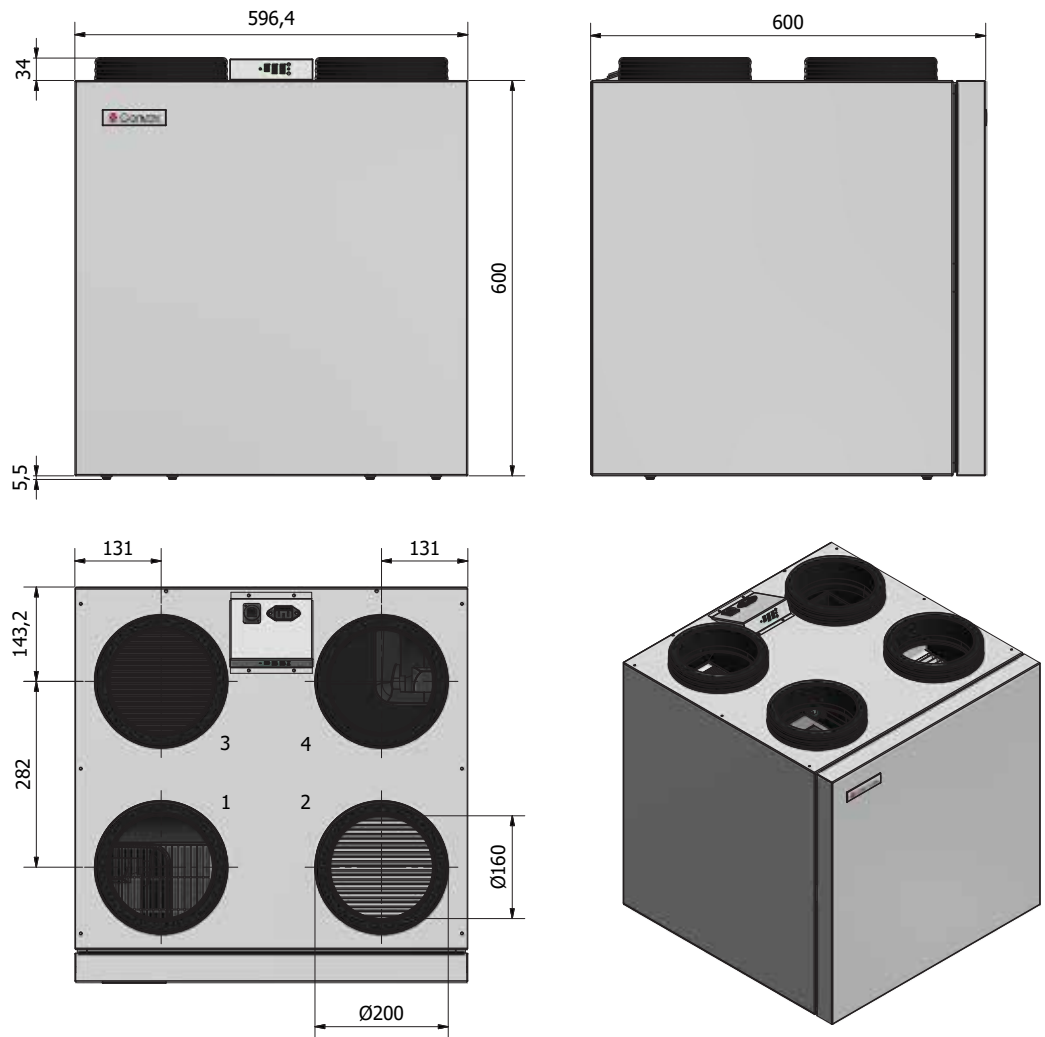
# Dimensional sketch

## Right-hand version

1. Discharge
2. Extract
3. Fresh air
4. Supply air

## Left-hand version

1. Supply air
2. Fresh air
3. Extract
4. Discharge



## Technical data

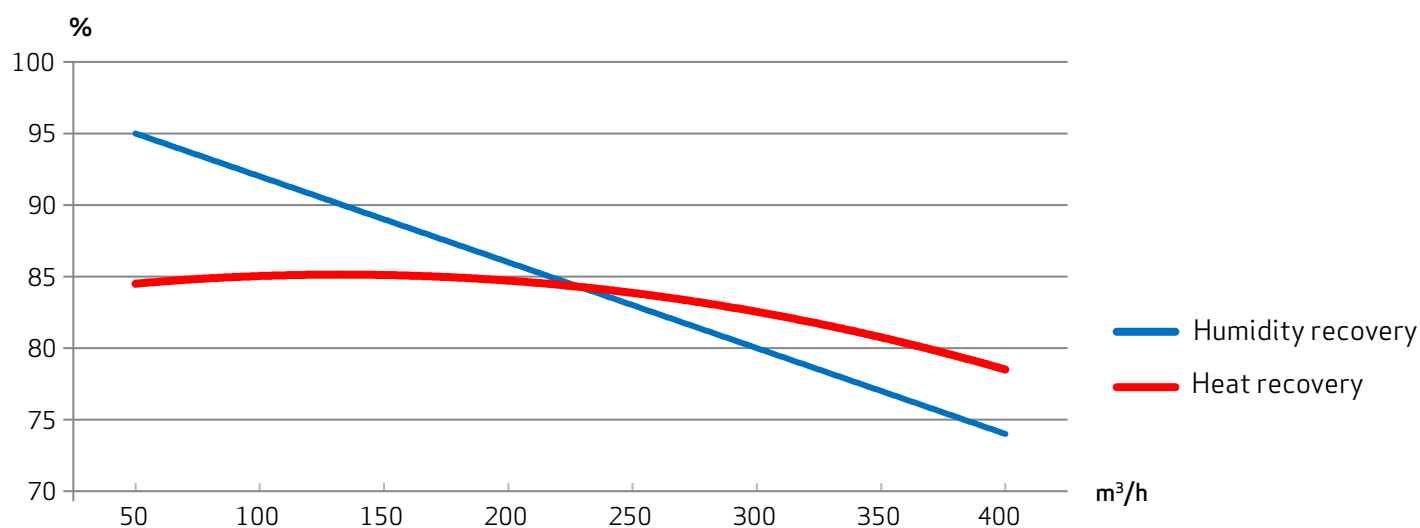
### ECO 360 R

Electrical connection	1 x 230V + N + PE 10 A, 50 Hz
Fans	Ø175 mm backward-curved blades
Motor	EC motor with integrated electronics
Insulation class for fan	B
Fan protection class	IP 54
Fan speed	3740 rpm
Power consumption (max. per motor)	85 W
Max load for fan	0.8 A
Dimensions (h x l x d) excl. connectors	600x600x600 mm
Cabinet	Exterior: Galvanised steel plate 0.9 mm, powder-coated Interior: EPP
Duct connection	Ø160/200 mm
Front	Exterior: Galvanised steel plate 0.9 mm, powder-coated Interior: EPP
Wall mounting	Wall bracket with 6.5 mm holes
Heat exchanger	Rotary exchanger
Ambient temperature limits	-20°C to +50°C
Electrical reheater (modulating)	1000 W
Condensate drain	Not necessary
Filters	G4/Coarse (fresh air/exhaust) - F7/ePM1 (accessory)
Sound pressure level (Lp) at 1 m.	40 dB(A) @ 260 m <sup>3</sup> /h, 50 Pa
Weight	43 kg
Energy class	A

## Humidity and temperature efficiency

Humidity and temperature efficiency according to EN308 and at the same air flow on the fresh air and exhaust air side. No account has been taken of any icing on the heat exchanger at low outdoor temperatures.

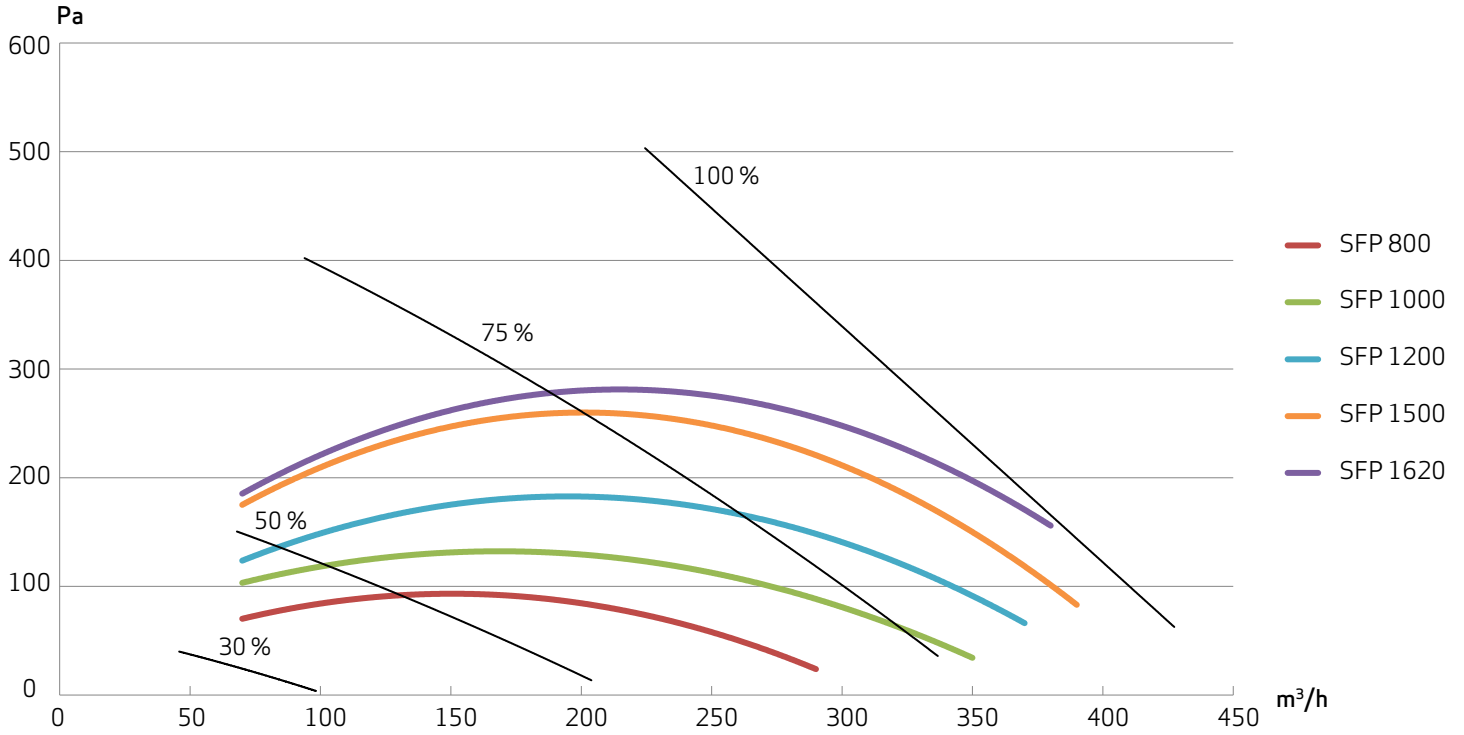
Humidity and temperature efficiency at 25 rpm - measured according to EN308



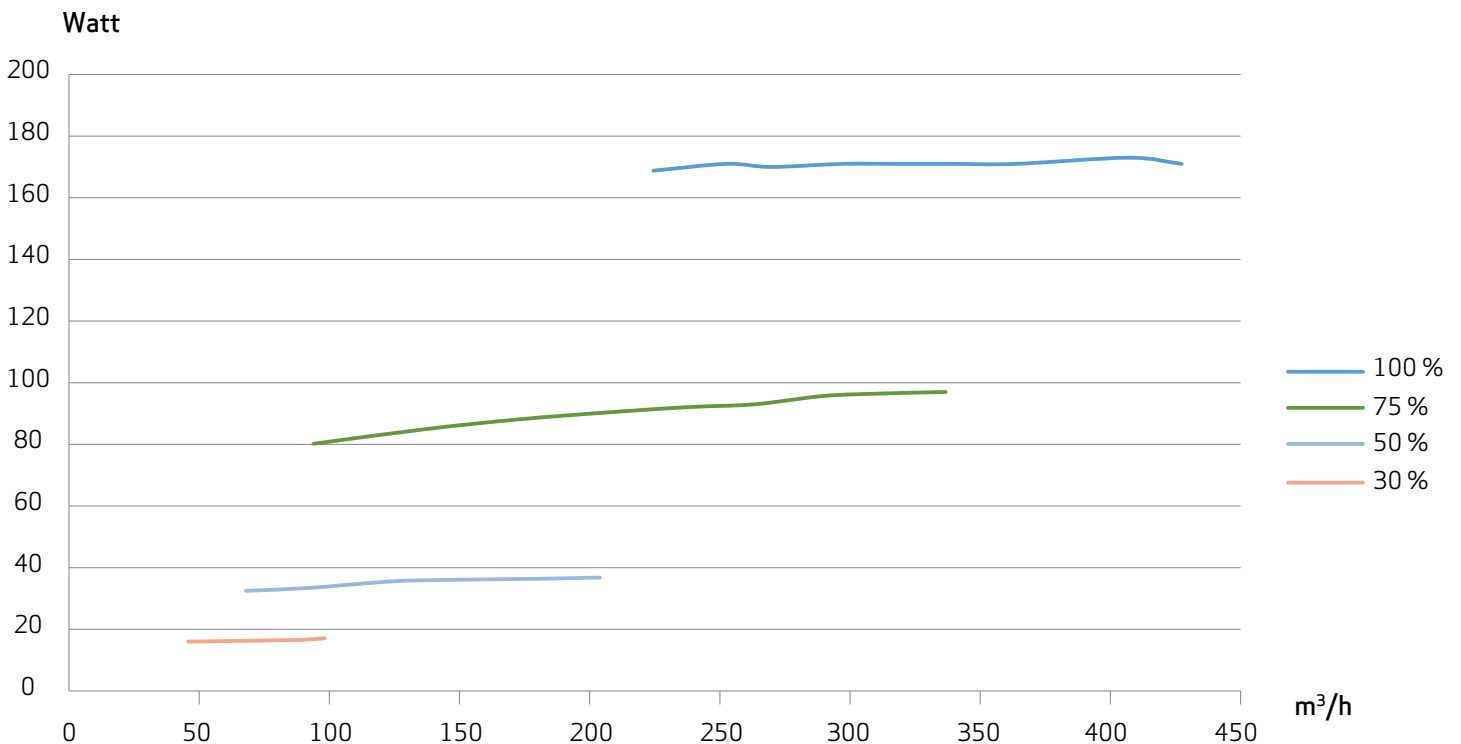
# Capacity

The capacity lines are based on an average value of supply and exhaust air volume in a unit. The curves indicate the average external pressure available at a given air volume. The SFP value is specified excl. power consumption for controller, display and rotor motor.

SFP factors - measured according to EN13141-7 (G4/G4)



Power consumption



# Sound data

Air volume (m <sup>3</sup> /h)	Pressure (Pa)			Frequency/Hz									
				63	125	250	500	1,000	2,000	4,000	8,000	Total	
126	70	Sound power level Lw dB(A)	Supply air	33,64	47,17	58,11	54,95	53,86	51,49	44,52	34,12	62,4	
			Exhaust	32,16	40,52	53,86	48,57	47,69	41,99	35,59	33,46	55,8	
			Fresh air	30,18	37,9	46,7	45,46	44,56	40,83	34,51	33,93	51,2	
			Return	39,86	47,41	57,68	57,49	56,05	54,05	47,32	34,32	64,5	
			<b>Sound pressure level Lp dB(A) @ 1 m.</b>	<b>Cabinet</b>									<b>39,4</b>
	100	Sound power level Lw dB(A)	Supply air	37,24	47,33	58,2	58,55	57,63	54,97	47,82	35,21	64,8	
			Exhaust	33,96	41,46	49,63	50,72	49,23	43,19	36,69	33,69	55,6	
			Fresh air	34,37	41,21	55,27	47,56	46,18	41,07	34,44	33,13	57,6	
Return			40,04	49,08	60,69	60,73	58,38	57,84	49,68	36,71	66,4		
		<b>Sound pressure level Lp dB(A) @ 1 m.</b>	<b>Cabinet</b>									<b>39,8</b>	
162	70	Sound power level Lw dB(A)	Supply air	45,54	49,5	59,01	57,03	57,57	56,06	50,08	37,69	64,5	
			Exhaust	32,77	40,61	52,54	51,2	50,64	46,99	38,58	33,59	57,5	
			Fresh air	32,26	38,25	53,98	45,29	45,84	42,01	35,12	33,24	55,6	
			Return	47,09	52,44	61,69	61,8	60,27	61,04	54,55	42,43	68,3	
			<b>Sound pressure level Lp dB(A) @ 1 m.</b>	<b>Cabinet</b>									<b>39,6</b>
	100	Sound power level Lw dB(A)	Supply air	37,28	47,14	59,19	57,62	57,71	55,89	49,88	36,62	65,7	
			Exhaust	33,19	39,98	50,22	50,18	50,34	44,37	36,66	33,27	57,1	
			Fresh air	36,01	40,02	51,75	46,8	46,98	42,08	34,99	33,19	55,9	
Return			43,25	49,5	60,39	60,94	59,55	59,33	51,34	38,19	68,4		
		<b>Sound pressure level Lp dB(A) @ 1 m.</b>	<b>Cabinet</b>									<b>39,9</b>	
216	70	Sound power level Lw dB(A)	Supply air	42,5	48,58	63,2	62,08	61,79	61,39	57,52	46,87	69,8	
			Exhaust	31,69	38,65	55,51	50,64	52,12	47,17	40,1	34,12	59,6	
			Fresh air	44,26	46,76	52,1	48,22	49,86	45,35	37,93	33,82	58,8	
			Return	42,07	49,84	68,49	63,33	60,91	62,38	57,73	48,34	71,5	
			<b>Sound pressure level Lp dB(A) @ 1 m.</b>	<b>Cabinet</b>									<b>40,1</b>
	100	Sound power level Lw dB(A)	Supply air	37,71	48,53	62,96	63,03	61,99	63,01	58,07	47,35	69,4	
			Exhaust	33,13	39,6	51,67	51,56	52,51	47,42	40,52	34,12	58,0	
			Fresh air	45,41	48,85	51,18	49,11	50,39	46,6	38,36	33,83	59,2	
Return			40,74	50,93	71,34	63,42	61,5	62,64	58,21	48,48	74,5		
		<b>Sound pressure level Lp dB(A) @ 1 m.</b>	<b>Cabinet</b>									<b>40,6</b>	
200	150	Sound power level Lw dB(A)	Supply air	41,53	50,99	61,49	61,75	61,95	62,21	59,27	44,18	70,16	
			Exhaust	35,05	42,67	48,9	52,91	53,25	48,69	42,17	33,82	59,5	
			Fresh air	36,46	41,83	51,35	48,92	50,35	45,7	39,62	33,49	57,3	
			Return	44,05	53,01	64,46	63,76	62,65	64,92	61,28	47,09	71,8	
			<b>Sound pressure level Lp dB(A) @ 1 m.</b>	<b>Cabinet</b>									<b>42,4</b>
	200	Sound power level Lw dB(A)	Supply air	42,72	53,89	62,23	64,67	64,59	64,73	60,36	47,02	70,7	
			Exhaust	39,39	46,23	51,98	55,87	55,96	51,19	43,52	34,36	60,4	
			Fresh air	44,15	48,95	54,42	54,21	53,48	49,16	41,4	34,41	59,0	
Return			45,79	54,73	65,13	66,74	64,09	66,2	61,69	48,84	72,4		
		<b>Sound pressure level Lp dB(A) @ 1 m.</b>	<b>Cabinet</b>									<b>42,9</b>	
250	150	Sound power level Lw dB(A)	Supply air	42,81	51,88	64,71	64,95	64,87	66,24	63,05	50,29	72,3	
			Exhaust	35,02	42,6	49,66	54,22	54,83	50,55	44,14	34,72	59,8	
			Fresh air	33,91	42,59	47,66	51,91	53,23	49,98	42,12	34,38	57,2	
			Return	44,1	53,21	69,53	68,22	64,13	66,22	62,66	50,95	75,4	
			<b>Sound pressure level Lp dB(A) @ 1 m.</b>	<b>Cabinet</b>									<b>43,3</b>
	200	Sound power level Lw dB(A)	Supply air	43,64	54,25	62,84	66,78	67,36	66,63	62,19	53,4	73,8	
			Exhaust	39,13	45,46	54,24	57,05	56,64	52,49	45,37	35,39	62,4	
			Fresh air	38,38	44,76	54,01	55,49	54,36	50,92	43,76	34,84	61,7	
Return			44,6	54,61	64,11	67,72	65,32	67,58	64,58	52,46	74,6		
		<b>Sound pressure level Lp dB(A) @ 1 m.</b>	<b>Cabinet</b>									<b>43,9</b>	

## Automatic control

The ECO 360 R comes with the Optima 270 automatic control.

The Optima control comes with a factory setting, which makes it possible to put the system into operation without first having to configure the system's operating menu.

The factory setting is just a basic setting that can be changed to match your operational desires and requirements for your home.

### The ECO 360 R can be supplied with the following accessories:

- Genvex Automatic Fire Control.
- Genvex ventilation and district heating control.
- Water-based post-heating surface incl. motor valve for mounting in ventilation duct.
- Brine-based preheating/cooling surface.
- Electric preheating surface for installation in ventilation duct and/or integrated electric post-heating surface.
- Optima Basic or Optima Touch control panel.

## Control panel - Optima Touch



### Speed

With this function, it is possible to set the fan speed in steps 0-1-2-3-4.



### Extended operation

With this function, it is possible to set the timer for forced operation for between 0 and 9 hours.



### Lock display

This function locks the display for 5 seconds. Typically used when wiping down the display



### Main menu

With this function, it is possible to enter the main menu, where you will find the following sub-items: calendar, user menu, display, information menu and service menu.



### Information

With this function, it is possible to get a good overview of the system's current operating condition, e.g. temperature, fan setting, relay status/functions, alarm, timer, etc.



### Temperature

With this function, it is possible to set the desired temperature.

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