ECO 375

- Focus on energy optimisation – low energy consumption
- Compact installation dimensions
- Built in preheater and water level switch optional

The ECO 375 is a ventilation system for heat recovery with a high-efficiency countercurrent exchanger with a temperature recovery rate of up to 96% and fans with energy-saving EC motors. The ECO 375 is typically used in homes or small businesses where the emphasis is on comfort and low energy consumption.

The ECO 375 is suitable for installation in larger homes or smaller business premises with an area of up to 350 m^2. The ECO 375 stands out by being particularly energy-optimised and adapted to the stringent requirements of the BR18 low-energy class. Despite the compact installation dimensions, adapted to a standard 60x60 cm module, the performance of the ECO 375 matches systems with a significantly larger footprint. As standard, the ECO 375 is supplied with G4/Coarse filters on the outdoor air intake and on the exhaust air (the F7/ePM1 filter is supplied as an accessory).

For the ECO 375, a built-in 1200 watt electric preheating surface can be selected as an accessory, ensuring a balanced air supply even in very cold outdoor temperatures and with a minimal energy supply.
A built-in condensate water level switch can also be selected, which switches off the ventilation system in the event of problems with the condensate drain and gives an alarm via the display.

The system comes with an Optima 270 control:

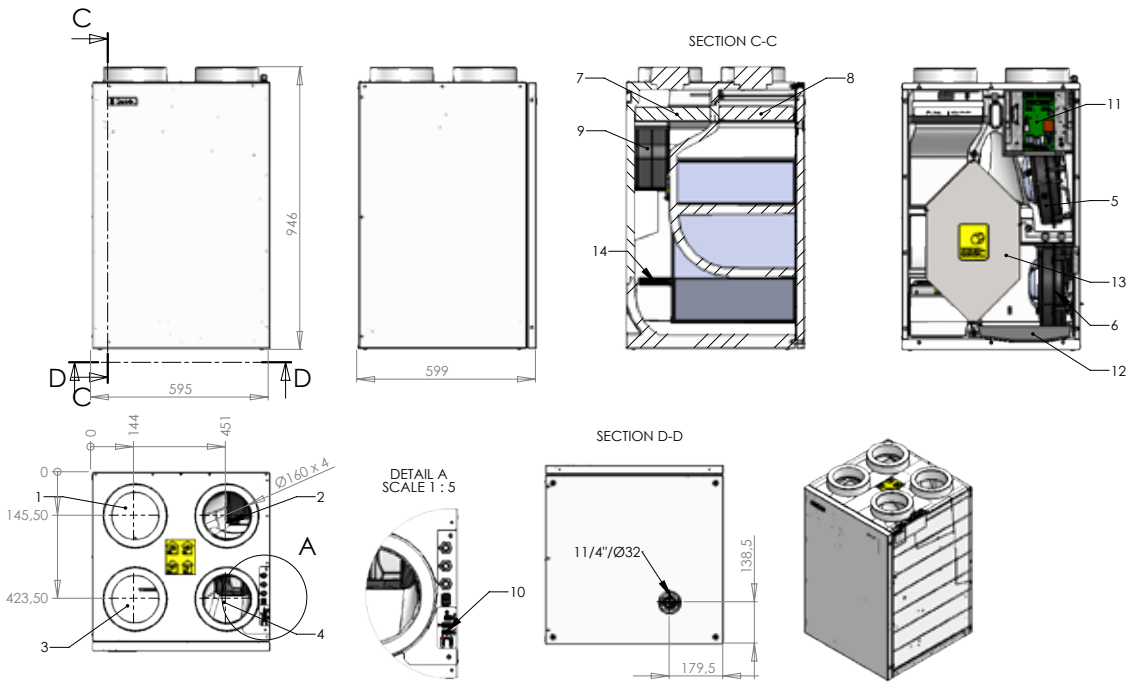
- Passive comfort cooling with fully automatic 100% bypass.
- Reduced energy consumption by means of modulating humidity control and calendar programme.
- Connection of electric preheating or post-heating surface, which adjusts the temperature according to need.
- Can be connected to a BMS system via Modbus communication.
- Integrated RJ45 connection on the control board for cloud connection of the system.
- Can be used without a display or with the option to connect either of two display types (Basic/Touch).
- Built-in data logging and the option of remote monitoring.

Please note that displays are sold separately.

Dimensional sketch

Dimensions in mm.

1. Outdoor air
2. Exhaust
3. Extract air
4. Supply air
5. Supply air fan
6. Exhaust fan
7. Outdoor air filter
8. Extract filter
9. Bypass duct
10. IO control board
11. Control board
12. Condensate tray
13. Exchanger
14. PTC preheater (optional)



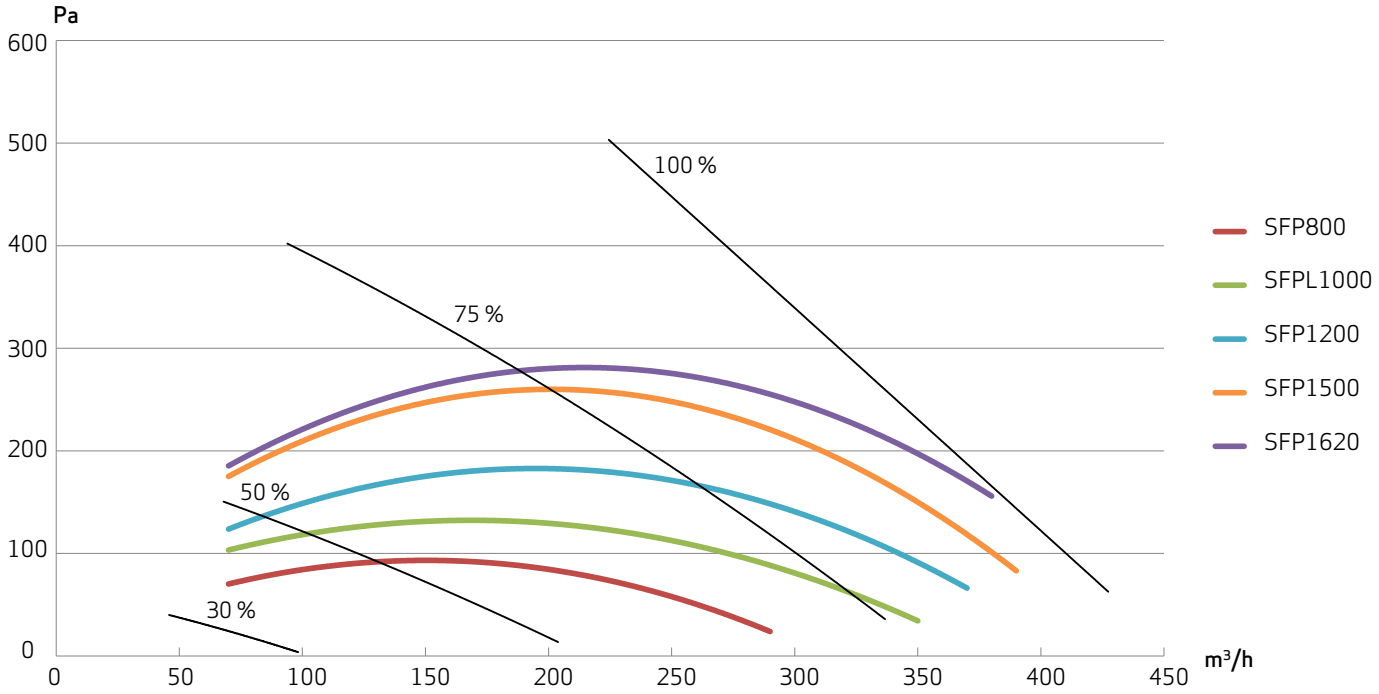
Technical data

	ECO 375
Electrical connection	1 x 230V + N + PE 10 A, 50 Hz
Fans	Ø175 mm backward-curved blades
Engine	EC motor with integrated electronics
Insulation class for fan	B
Fan protection class	IP 54
Fan speed	3740 rpm
Recorded power (max. per motor)	85 W
Power consumption for fan	0.8 A
Dimensions (h x l x d) excl. connectors	895x595x596 mm
Cabinet	Exterior: Galvanised steel sheet, 0.7 mm powder-coated Interior: Neoprene/EPS
Duct connection	Ø160 mm
Front	Exterior: Galvanised steel sheet, 0.7 mm powder-coated Interior: Neoprene/EPS
Wall mounting	Wall bracket with 6.5 mm holes
Countercurrent heat exchanger	Aluminium, PET plastic or enthalpy
Working range, countercurrent exchanger	-20°C to +50°C
Condensate drain	32 mm ABS
Filters	G4/Coarse (outdoor air/exhaust air) - F7/ePM1 (accessory)
Sound pressure level (Lp) at 1 m.	45 dB(A) @ 229 m3/h, 50 Pa
Weight	40 kg
Energy class	A

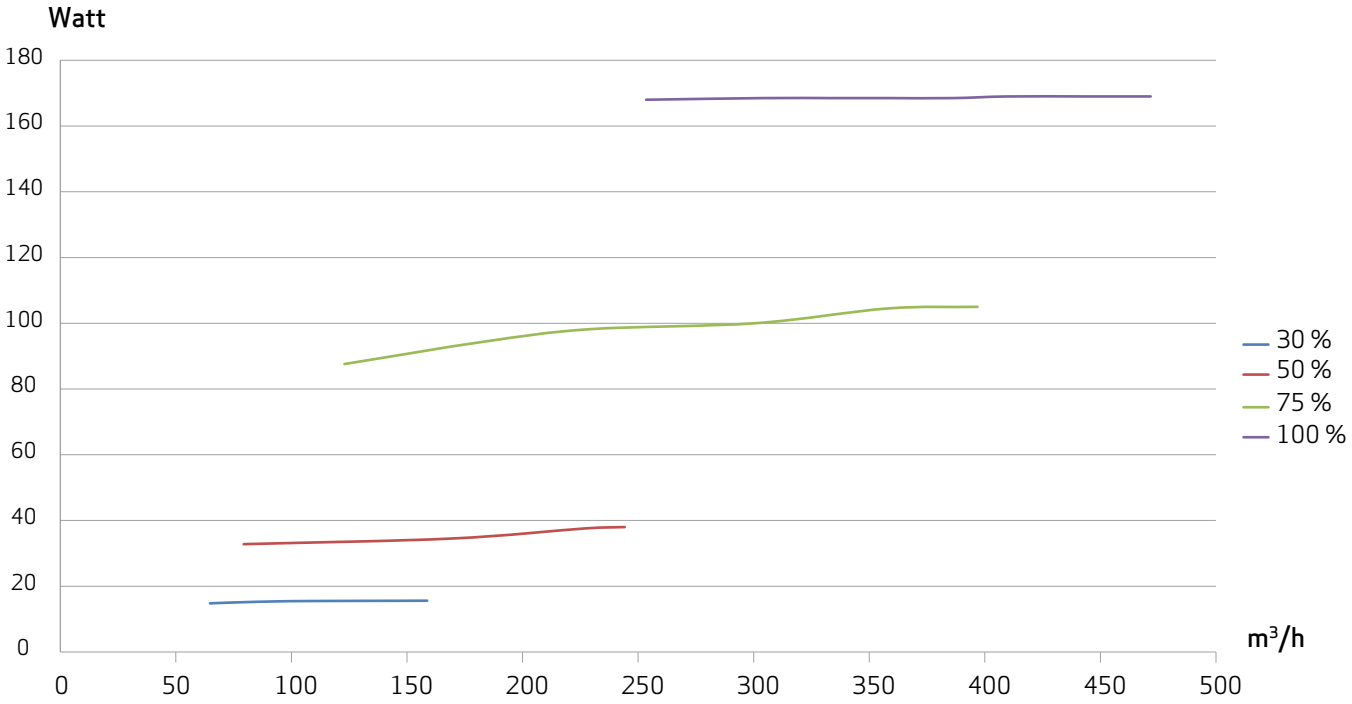
Capacity

The capacity lines are based on an average value of supply air and exhaust air volumes in a unit. The graphs indicate the average external pressure available at a given air volume. Power consumption for control is not included in the SFP value (approx. 6 watts).

SFP factors ECO 375 – measured according to EN13141-7 (G4/G4:ALU)

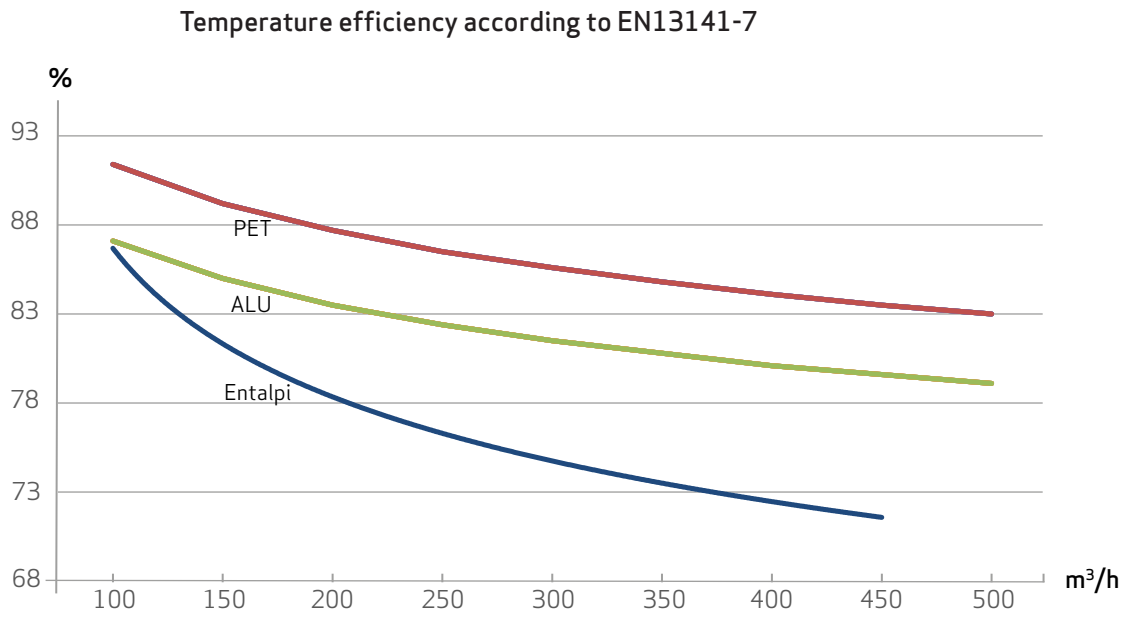


Power consumption



Temperature efficiency

"Dry" temperature efficiency at the same air flow on the outdoor air and exhaust air side. No account has been taken of any icing on the heat exchanger at low outdoor temperatures.



Sound data

Airflow (m^3/h)	Pressure (Pa)			Frequency/Hz								
				63	125	250	500	1000	2000	4000	8000	Total
126	70	Sound power level Lw dB(A)	Supply air	58.2	63.6	69.2	64.6	60.0	53.4	43.1	28.6	65.6
			Exhaust air	51.7	46.2	45.2	37.8	28.4	23.0	14.0	12.1	39.2
			Outdoor air	46.8	48.5	44.8	41.3	40.1	32.3	25.1	15.5	39.9
			Exhaust	56.6	60.6	64.7	61.7	51.6	45.4	36.2	21.7	60.4
		Sound pressure level Lp dB(A) @ 1 m.	**Cabinet**									**33.5**
	100	Sound power level Lw dB(A)	Supply air	59.8	65.4	65.4	64.5	60,5	53.5	44.0	29.9	65.3
			Exhaust air	52.3	46.6	45.7	39.4	31.5	24.4	15.1	12.1	40.2
			Outdoor air	50.9	49.7	49.6	46.4	39.7	29.7	20.0	15.9	46.7
			Exhaust	55.9	58.2	63.0	60.8	54.3	47.9	39.3	23.3	60.3
		Sound pressure level Lp dB(A) @ 1 m.	**Cabinet**									**34.8**
162	70	Sound power level Lw dB(A)	Supply air	57.5	63.8	68.0	65.4	61.6	56.7	47.8	35.0	67.2
			Exhaust air	52.9	46.3	44.6	36.9	28.4	25.0	14.7	13.9	39.0
			Outdoor air	49.3	47.5	51.5	45.2	37.4	30.3	19.5	12.9	46.0
			Exhaust	57.0	60.9	66.2	61.4	53.9	48.6	39.1	24.1	61.6
		Sound pressure level Lp dB(A) @ 1 m.	**Cabinet**									**34.9**
	100	Sound power level Lw dB(A)	Supply air	56.7	62.1	66.8	64.2	59,9	55.2	46.8	32.6	65.4
			Exhaust air	53.3	47.5	48.5	39.9	31.9	26.8	18.1	12.2	41.6
			Outdoor air	50.3	48.7	52.7	47.2	41.1	32.9	23.1	13.1	48.4
			Exhaust	57.5	58.5	65.5	62.1	56.8	49.2	42.3	27.5	62.6
		Sound pressure level Lp dB(A) @ 1 m.	**Cabinet**									**35.4**
216	70	Sound power level Lw dB(A)	Supply air	60.7	65.5	73.0	68.6	64.2	60.8	54.8	41.6	71.3
			Exhaust air	50.6	47.5	45.1	40.8	34.2	30.1	20.3	13.0	42.3
			Outdoor air	50.9	48.2	53.4	48.8	43.8	34.9	26.3	17.0	50.0
			Exhaust	57.7	62.1	69.8	64.9	57.4	53.8	47.3	32.3	65.5
		Sound pressure level Lp dB(A) @ 1 m.	**Cabinet**									**36.2**
	100	Sound power level Lw dB(A)	Supply air	60.1	66.9	74.2	71.4	66.7	63.5	55.6	42.7	72.7
			Exhaust air	49.8	48.1	46.0	42.2	36.7	32.2	22.2	12.6	43.3
			Outdoor air	49.1	50.0	57.1	49.8	40.4	38.5	31.2	20.6	51.7
			Exhaust	57.5	60,5	66.9	61.9	55.4	51.7	43.2	30.0	63.5
		Sound pressure level Lp dB(A) @ 1 m.	**Cabinet**									**37.3**
250	150	Sound power level Lw dB(A)	Supply air	64.6	68.6	72.3	72.3	68.7	64.1	57.1	46.3	73.8
			Exhaust air	53.0	51.8	56.1	49.4	45.9	40.1	30.2	16.5	52.2
			Outdoor air	56.2	54	60.6	58.3	47.7	41.4	32.9	30.2	58.4
			Exhaust	62.2	63.9	69.2	67.2	61.6	57.6	50.0	38.2	68.2
		Sound pressure level Lp dB(A) @ 1 m.	**Cabinet**									**42.2**
	200	Sound power level Lw dB(A)	Supply air	62.8	69.6	69.7	71.2	67.1	64.4	57.3	47.0	72.2
			Exhaust air	53.8	51.9	55.1	50.4	46.6	43.2	34.9	20.9	52.9
			Outdoor air	54.2	52.5	57.4	56.9	50.0	45.4	37.4	24.8	56.8
			Exhaust	63.7	66.6	69.0	67.1	63.4	59.5	54.1	41.1	69.0
		Sound pressure level Lp dB(A) @ 1 m.	**Cabinet**									**44.5**

Automatic control

The ECO 375 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 375 can be supplied with the following accessories:

- Genvex fire and district heating control.
- Water-based post-heating surface, incl. motor valve, or electric heating surface for installation in ventilation duct.
- Brine-based preheating/cooling surface.
- Integrated electric preheating surface.
- Optima Basic or Optima Touch control panel.
- Wireless CO_2 sensors.
- Condensate level switch.

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.

Contact us

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