

ECO 375



- Focus on energy optimization
- Low energy consumption
- Compact dimensions and large airflows

ECO 375 is a ventilation unit for heat recovery with a highly efficient counterflow exchanger that has a temperature efficiency of up to 96% and fans with energy saving EC motors. ECO 375 is typically used in homes or small businesses where comfort and low energy consumption are priorities.

ECO 375 is suitable for installation in larger homes or small businesses. ECO 375 stands out by being particularly optimised for low energy consumption and adapted to meet the stringent requirements of the forthcoming building regulations. Despite the compact dimensions that fit a standard 60x60 cm module, the performance of ECO 375 is comparable to systems requiring much more space. ECO 375 comes with G4 filters on the fresh air intake and on exhaust air (M5/F7 filter is supplied as an accessory).

Two models are available: ECO 375 TL has forward curved blades and is designed for larger air volumes. ECO 375 TS has backward curved blades, has a lower energy consumption, and is designed for smaller air volumes. ECO 375 can be equipped with a heat exchanger made of PET (plastic) or made of aluminium. The PET heat exchanger is most suitable when heat recovery is the highest priority. In order to achieve the lowest possible power consumption, select an aluminium heat exchanger.

The unit is delivered with an Optima 251 controller:

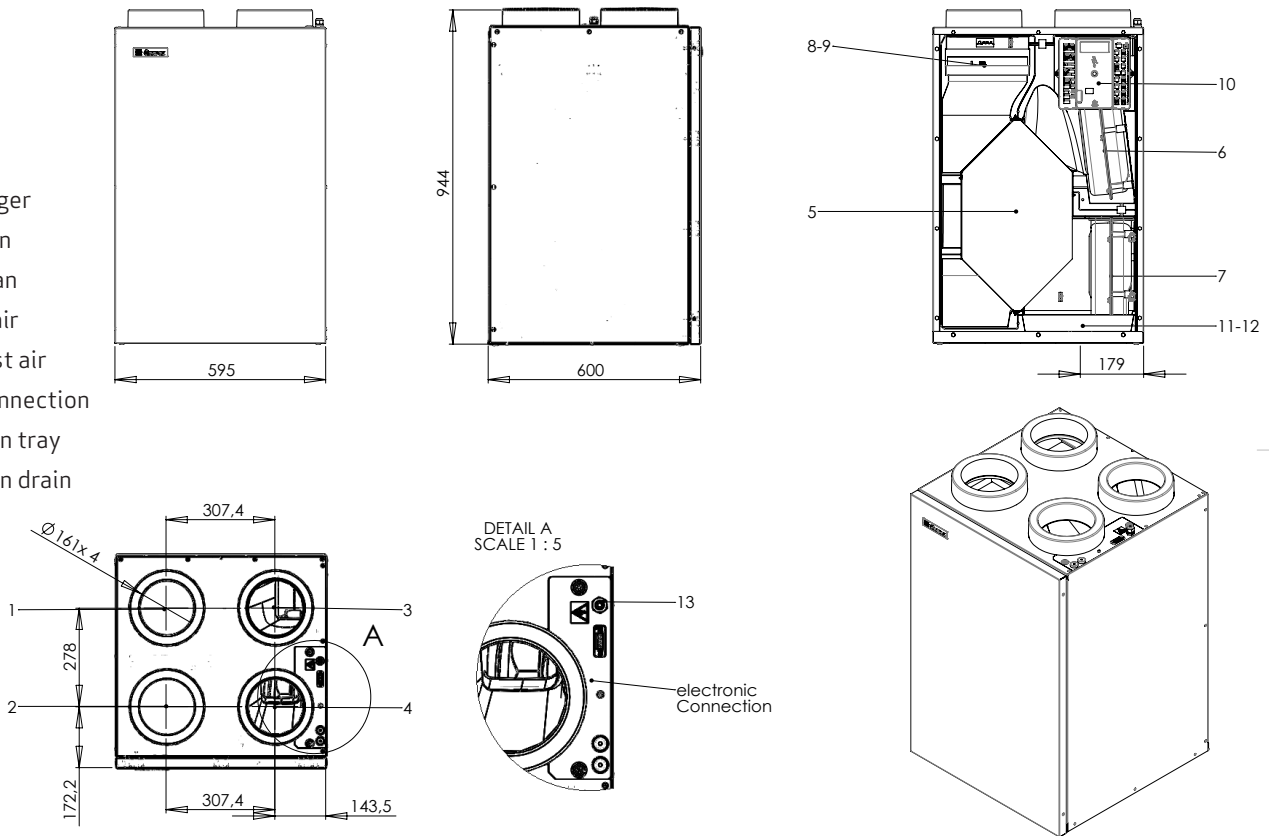
- Passive comfort cooling with fully automatic bypass
- Reduction of energy consumption using modulating humidity control and calendar programme
- Connection of electric pre-heating or residual heat surface that adjusts the temperature according to preferences
- Can be connected to a building management system via Modbus communication



Dimensions diagram

Dimensions in mm.

1. Fresh air
2. Extract air
3. Exhaust air
4. Supply air
5. Heat exchanger
6. Supply air fan
7. Extract air fan
8. Filter fresh air
9. Filter exhaust air
10. Electrical connection
11. Condensation tray
12. Condensation drain



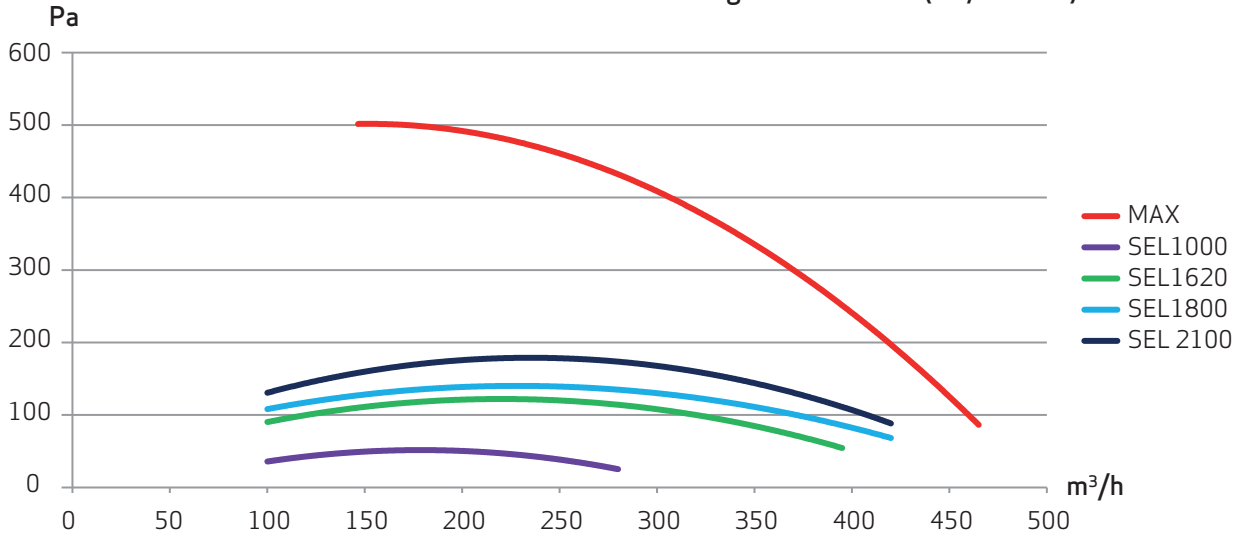
Technical data

	ECO 375 TL	ECO 375 TS
Electrical connection	1 x 230V +N +PE 10 A, 50 Hz	
Fans	Ø146 mm forward curved blades	Ø175 mm backward curved blades
Motor	EC motor with integrated electronics	
Insulation class for fan	B	
Protection class for fan	IP 54	
Fan speed	3168 revolutions per minute	3740 revolutions per minute
Absorbed power (max per motor)	170 W	85 W
Power consumption for fan:	1.2 A	0.8 A
Dimensions (h x l x d) excl. duct connections	596x595x895 mm	
Housing	Exterior: Galvanised steel plate 0.7 mm powder coated Interior: Neoprene/EPS	
Duct connection	Ø160 mm	
Front	Exterior: Galvanised steel plate 0.7 mm powder coated Interior: Neoprene/EPS	
Wall mount	Wall mounting plate with 6.5 mm holes	
Counterflow heat exchanger	Aluminium or PET plastic (both types are available)	
Work area counterflow exchanger	-20 °C to +50 °C	
Condensation drain	32 mm ABS	
Filters	G4 filter (fresh air), G4 filter (exhaust air) – F7 accessory filter	
Sound pressure level (LW) at 1 m	40 dB(A) @ 383 m ³ /h, 50 Pa	45 dB(A) @ 229 m ³ /h, 50 Pa
Weight	40 kg	
Energy class	A	

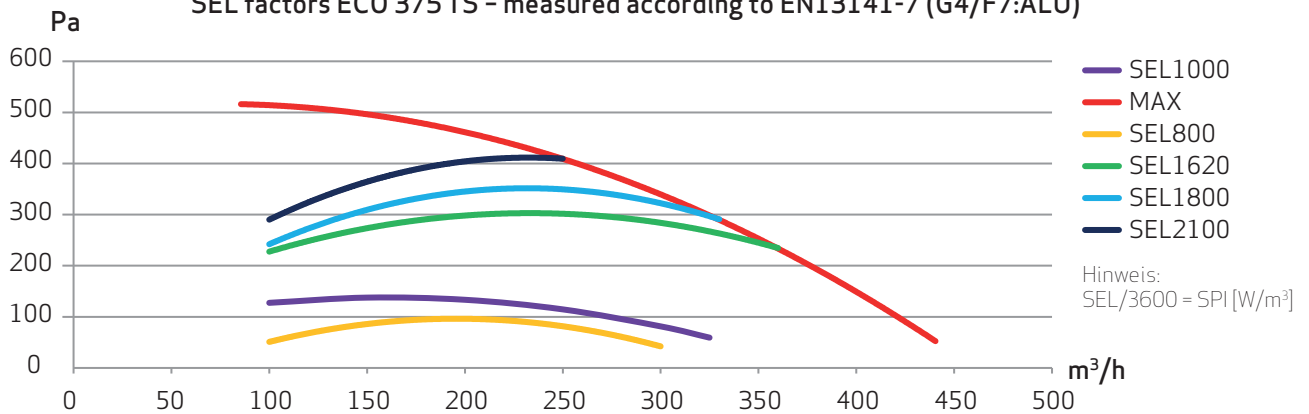
Capacity

The capacity graphs are based on a mean value of the supply air and exhaust air volume in a unit. The graphs indicate the average external pressure available with a given air volume. When using the PET heat exchanger, the SEL- diagram lines will decrease by 10 PA. When using a G4 filter on the fresh air intake, the SEL-diagram lines will increase by 15 PA.

SEL factors ECO 375 TL - measured according to EN13141-7 (G4/F7:ALU)



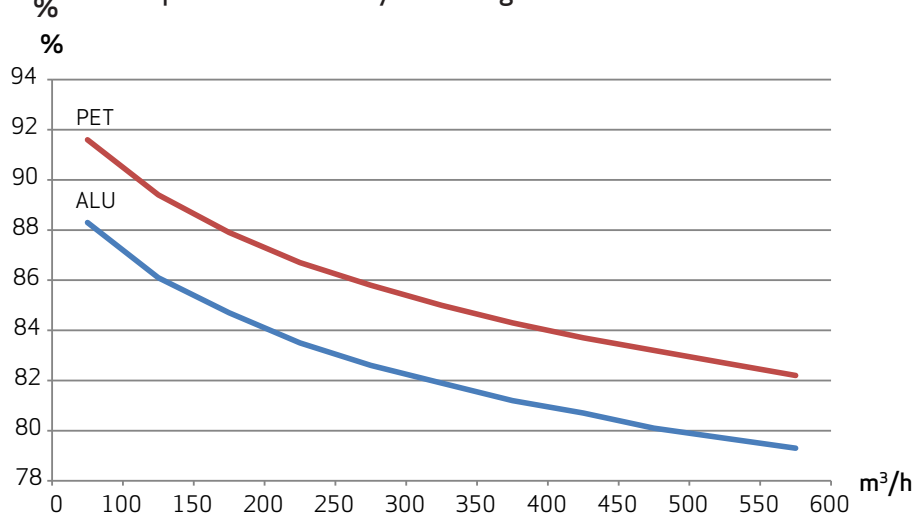
SEL factors ECO 375 TS - measured according to EN13141-7 (G4/F7:ALU)



Temperature efficiency

"Dry" temperature efficiency according to EN 308 and with identical air flow on the fresh air and exhaust air side. Potential formation of ice on the heat exchanger at low outside temperatures has not been accounted for.

Temperature efficiency according to EN308



Controller

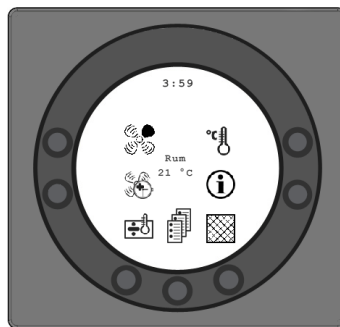
ECO 375 comes with Optima 251 print circuit board. The Optima Design control panel, that connects to the Optima PCB, comes with a factory setting that makes it possible to put the system into operation without first needing to set the system's operational parameters.

The factory setting is only a basic setting that can be changed based on the customer's operational preferences and requirements for the building.

ECO 375 can be delivered with the following accessories:

- Water based residual heating surface including the motor valve for mounting in ventilation duct
- Electric preheating surface and electric residual heating surface for mounting in ventilation duct
- Optima 260 control unit (available without display with Opus control panel or Optima 100 Design panel)

Control panel



Speed (1)

This function makes it possible to set the fan speed in steps 0-1-2-3-4.



Extended operation (2)

This function makes it possible to set the time counter for forced operation between 0 and 9 hours.



Residual heat (3)

This function makes it possible to turn the supplementary residual heat function on and off.



Main menu (4)

This function makes it possible to enter the main menu where the following sub-menus are found: calendar, user menu, display, information menu, and service menu.



Filter (5)

This function makes it possible to reset the filter alarm.



Information (6)

This function makes it possible to obtain a good overview of the system's current operating mode, e.g. temperature, fan setting, relay status/ features, alarm, time counter, etc.



Temperature (7)

This function makes it possible to set the desired temperature.

Contact us

