

WAFE 350

PREMIUM
ENERGY RECOVERY
VENTILATION



WAFE BENEFITS | HEAT RECOVERY PRINCIPLES | WAFE EFS™ | PERFORMANCE CURVES | WAFE VS. COMPETITION | WAFE 350 PARAMETERS



Breathe. Live.

SMART VENTILATION EXPERT

WAFE 350 BENEFITS

MINIMAL USER INTERACTION REQUIRED THANKS TO HIGHLY **AUTONOMOUS INTELLIGENCE** CAPABLE OF ANALYSING CHANGES IN ITS SURROUNDINGS.



ENTHALPIC FLAP SYSTEM (EFS™) KEEPS OPTIMAL HUMIDITY IN YOUR HOUSE AND REMOVES THE NEED FOR EXPENSIVE INTAKE FRESH AIR PRE-HEATING DURING COLD MONTHS.



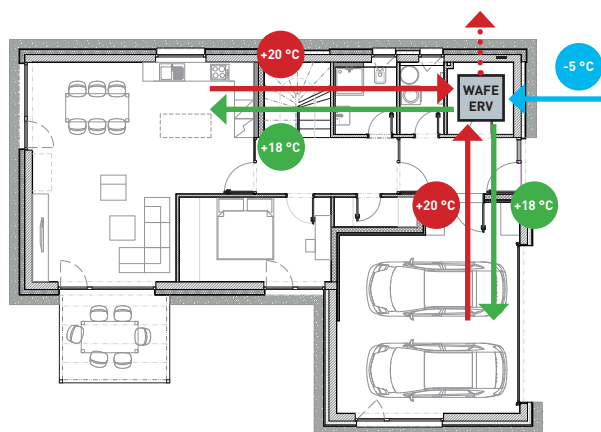
INTEGRATED CO₂ SENSOR ENSURES A HEALTHY ENVIRONMENT AND REDUCES OPERATIONAL AND MAINTENANCE COSTS.



ENERGY RECOVERY VENTILATION

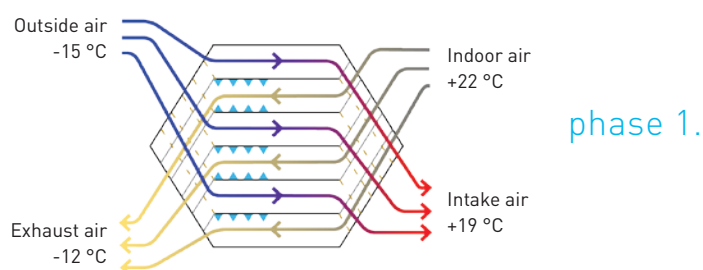
Energy recovery ventilation (ERV) is a system of efficient indoor-outdoor air exchange that uses the heat of an exhaust air to warm up the fresh air we take in. In the summer, on the other hand, the intake air is pre-cooled during the night. Apart from the temperature we can regulate your house humidity and filter out dust, smog and allergen particles. ERV reduces your heating bills but more importantly – it creates a healthy home environment and becomes a standard in residential, apartment and commercial development projects.

The construction industry in particular is affected strongly by European Union incentives to moderate our energy footprint. Firmer norms and rules lead to better insulated buildings and low-energy housing. It is clear that without advanced ventilation systems those new standards could not be fulfilled. In Netherlands and Norway, HRV (heat-only recovery ventilation) and ERV systems are already being successfully implemented in all new development projects and renovations.

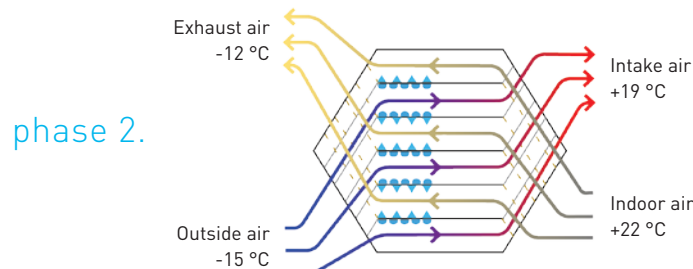


WAFE EFS™ Enthalpic Flap System

Current ventilation market faces a costly problem: to recover both heat and humidity, high-maintenance membrane exchangers need to be installed inside every ERV unit and replaced every five years (≈670€). With WAFE EFS™, however, it is possible to conserve both heat and humidity with industry standard duct counterflow exchangers. They generally have better parameters and no maintenance costs: they will last a unit's lifetime without replacement. Unlike units with membrane exchangers and ordinary flap systems, WAFE EFS™ allows for no-condensate operation and needs no electric pre-heating of intake air during cold months.



phase 1.



phase 2.

ERV Energy recovery ventilation unit
 Fresh cold outside air enters the unit
 Stale warm indoor air is extracted from the building and into the unit

Heat exchange inside the unit between the cold fresh and the warm stale air
 Stale cold indoor air exits the unit and the building
 Fresh warm outside air enters the building from the unit

REDUCTION OF INVESTMENT COSTS – NO EXPENSIVE ACCESSORIES NECESSARY.



REDUCTION OF OPERATIONAL COSTS – MAXIMUM FILTER OPERATION TIME, LOW ELECTRICITY CONSUMPTION, NO PRE-HEATING AND AN EXCHANGER WITH LONG SERVICE LIFE.



INTERNET CONNECTION GIVES THE USER MAXIMUM CONTROL OVER HIS UNIT SETTINGS AND EXPENSES AND ALLOWS FOR AUTOMATED SENDING AND RESOLVING OF ERROR MESSAGES.

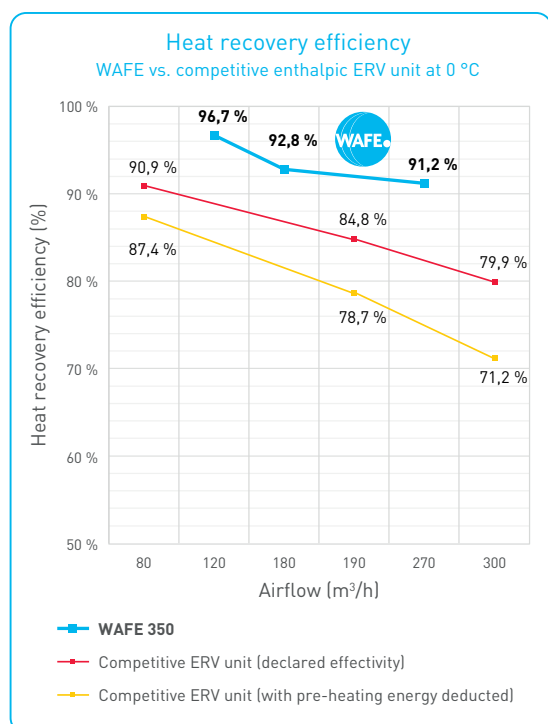


Humidity recovery efficiency

WAFE 350 efficiently conserves the natural humidity of your indoor environment. There is no need for additional artificial humidifiers.

Heat recovery efficiency at -0 °C

WAFE 350 differs from the competition by providing higher recovery parameters at all temperatures. The difference is most prominent in below-zero temperatures where other systems need to pre-heat the freezing outdoor air.



WAFE 350

WAFE 350 is a premium energy recovery ventilation (ERV) unit that fulfils our customer philosophy: **We think just like you.**

All was designed to keep the required user interaction to a minimum. Controlling your unit is simple and quality components from Germany, Netherlands and Czech Republic ensure a reliable operation. With a unique EFS™ technology inside your WAFE 350 there is no need to replace your heat exchanger – ever. EFS™ significantly reduces your heating expenses and preserves a natural humidity in your home. WAFE 350 offers a best value for money on the market. It is intended for buildings up to 250 m² floor area. The price of the unit is final with no additional accessories necessary for standard unit operation.

WAFE 350 is a carefully designed product that will serve you well for years to come.



WAFE VS. COMPETITION

Installation comparison

	Ordinary HRV unit	ERV unit with membrane exchanger	WAFE 350
Added expenses	+ CO ₂ sensors	+ CO ₂ sensors	Included in price
	+ humidity sensors	+ humidity sensors	
	+ condensate outlet		
	+ humidifier		Not necessary
	+ pre-heating	+ pre-heating	
	+ remote wall control	+ remote wall control	

Control comparison

	Ordinary HRV unit / ERV unit with membrane exchanger	WAFE 350
Control modes	Boost	Intense ventilation [Boost]
	1–2–3 ventilation levels	Autonomous intelligence with CO ₂ and humidity sensors
	Home / Out	
	Manual by-pass	
	Weekly schedule	Weekly mode [optional]

Operational costs comparison

	Ordinary HRV unit	ERV unit with membrane exchanger	WAFE 350
Energy consumption	660 W	360 W	60 W
	3.18 EUR / day *	1.73 EUR / day *	0.29 EUR / day **
Filters	Fixed replacement period 2x per year	Fixed replacement period 2x per year	Maximum lifespan thanks to pressure sensors
Maintenance	1x per 1–2 years	1x per 1–2 years	1x per 1–2 years
Added costs	+ humidifier power consumption	+ exchanger replacement (≈670 €) 1x per 5–6 years	0 EUR

* 180 m³/h airflow and outside air temperature of -10 °C with pre-heating.

** 180 m³/h airflow and outside air temperature of -10 °C without pre-heating.

Savings calculation: WAFE 350 in 200 m² house over 10 years

In its class, WAFE 350 differs from the competition in several key aspects that influence its operational costs. The most important is the absence of an electric pre-heating module: without it, exchangers in standard ERV units freeze up in sub-zero temperatures. Thanks to WAFE EFS™ the amount of water condensate formed inside the unit is minimized and no pre-heating is necessary – saving you approximately 1050 kW/h (≈200€) over a year period. In addition, WAFE 350 has highly optimized maintenance cycles: actual utilisation level of each filter is measured with pressure sensors for just-in-time replacement while the heat exchanger will last a unit's lifetime – simply rinse it every 5 years! Total savings over a ten-year period add up to 3000€.

WAFE 350 PARAMETERS

Airflow	m³/h	80–350
Temperature limits (without pre-heating)	°C	-30 to +45
Heat recovery efficiency	%	86–97
Humidity recovery efficiency	%	up to 95
Dimensions (width x height x depth)	mm	1075 x 776 x 539
Weight	kg	35
Operational modes	Intelligent, Weekly, Holiday, Summer [By-pass], Night	
Functions	Intense ventilation [Boost], Fireplace ventilation, Circulation	
Energy efficiency class	A	



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WAFE s.r.o.

Kolbenova 931/40b
190 00 Prague 9 – Vysočany
Czech Republic

e-mail: info@wafe.eu
phone: +420 273 139 700
www.wafe.eu

Date contact:

SC ALTECOVENT SRL

CORUND nr.836, 537060, HARGHITA

WEB: <https://ventilatiecurecuperarecaldura.ro/>

<https://hovisszanyero-szelloztetes.hu/>

Email: **info@ventilatiecurecuperarecaldura.ro**

Tel: 0753 967 762