

Recuperators

reQ H.400/500

Available versions:

reQ H.400 HRV

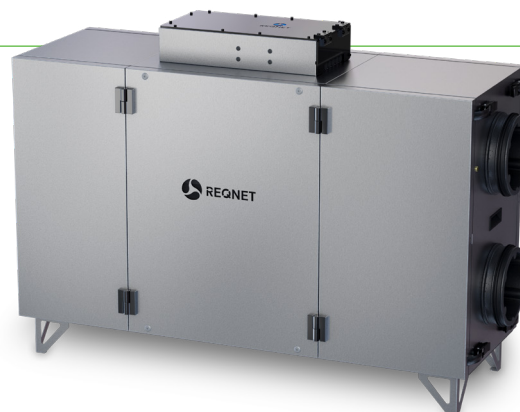
reQ H.500 HRV

counterflow with heat recovery

reQ H.400 ERV

reQ H.500 ERV

enthalpy counterflow with heat and moisture recovery



Click on the link or scan the QR code, to visit the product page

<https://reqnet.eu/en/products/req/h/>



Description

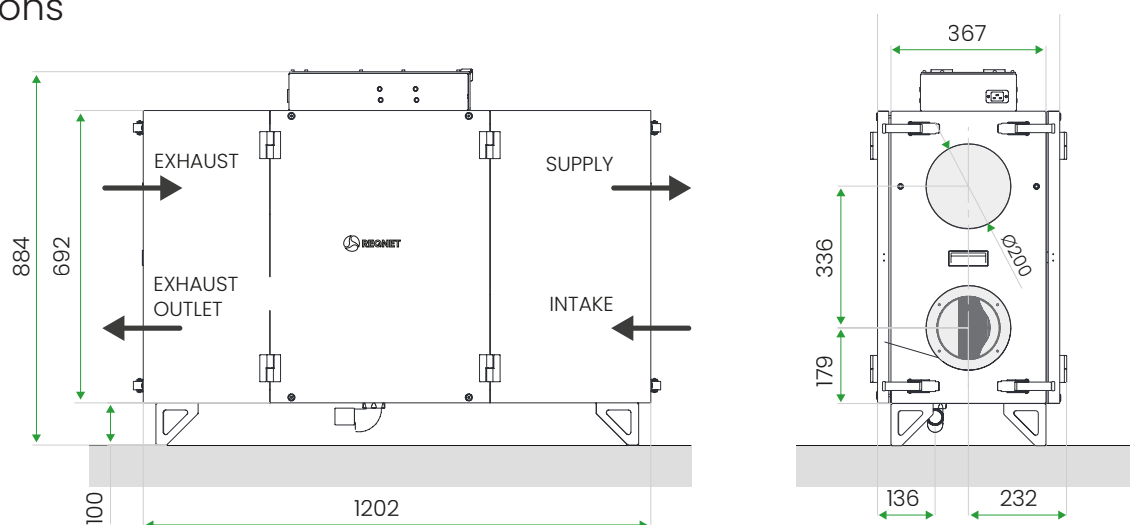
REQNET recuperators of the reQ series provide maximum climate comfort in the building with the highest comfort of use using **minimal amounts of primary energy**. Built-in **CO2 and humidity sensors** as well as a **constant flow sensor** create an **intelligent control system** that allows for automatic adjustment of the AHU operation to the air quality inside the building. The built-in **Wi-Fi module** allows you to control the recuperator with a mobile device from anywhere in the world.

The use of an **enthalpy exchanger** with an innovative polymer membrane allows to recover thermal energy and humidity from the air extracted from the building, thus increasing the overall efficiency of the device. The H-series units are installed as floor-standing units that can be hung on the wall.

The connection spigots are led to the sides, which makes it possible to hang the control panel close to the ceiling. Durable casing, thermal insulation, and the location of connection spigots do not exclude the use of this type of units in low attics. The **counterflow exchanger** with an area of **35 m2** is one of the largest heat exchangers used in this class of recuperators on the Polish market.

The H series recuperators are available in two capacities: **400 and 500 m3/h** and can optionally be equipped with an exchanger with **ERV** moisture recovery. Extensive automation allows you to connect the reQ H series air handling units with the smart home system, and **double air filtration** ensures the highest quality of air inside the building.

Dimensions



Standard equipment of **REQNET** recuperators



Wi-fi module



Anti-smog filter



Constant flow system



Built-in CO2 sensor



Built-in humidity sensor



PTC pre - heater



EC fans



Automatic by-pass 100%



Mobile app



Extensive automation

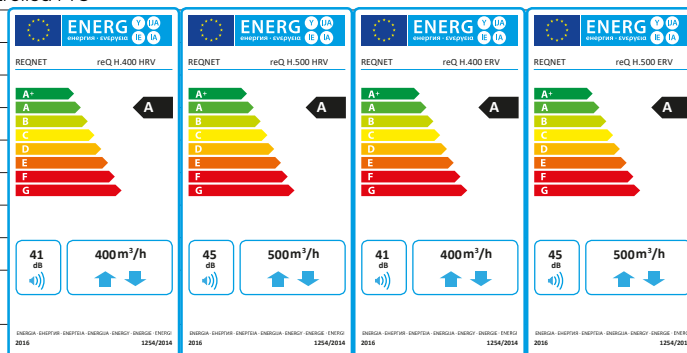


Universal mounting system



Dry siphon

Model	reQ H.400 HRV / ERV			reQ H.500 HRV / ERV		
Maximum air flow	400 m³/h (with an M5 class filter)		at 150 Pa (HRV) at 200 Pa (ERV)	500 m³/h (with an M5 class filter)		at 150 Pa (HRV) at 200 Pa (ERV)
Heat recovery efficiency	up to 95% (HRV) / up to 85% (ERV)					
Exchanger type	counter-current					
Exchanger variant	HRV - standard (with heat recovery) ERV - enthalpy (with heat and moisture recovery)					
Exchanger material	HRV - plastic ERV - plastic + polymer membrane					
Moisture recovery efficiency	no (HRV) / up to 65% (ERV)					
Efficiency	100 m³/h at 50 Pa	250 m³/h at 100 Pa	400 m³/h at 150 Pa	200 m³/h at 50 Pa	400 m³/h at 100 Pa	500 m³/h at 150 Pa
Energy consumption	23 W (HRV) 21 W (ERV)	68 W (HRV) 65 W (ERV)	170 W (HRV) 167 W (ERV)	42 W (HRV) 39 W (ERV)	143 W (HRV) 140 W (ERV)	267 W (HRV) 261 W (ERV)
Sound power level emitted by the housing at 1 m	30 dB(A)	41 dB(A)	48 dB(A)	38 dB(A)	47 dB(A)	51 dB(A)
Sound power level - nominal value	41 dB(A)			45 dB(A)		
Fans	radial with EC DC motors (ebm - papst)					
Energy efficiency class	A (for a temperate climate in accordance with Directive 2009/125/EC and European Commission Regulation No. 1254/2014)					
Bypass	automatic, isolated, 100% supply air bypass					
Anti-freeze system	PTC electric preheater 1,5 kW					
Control	via a mobile application (Android 8.0, iOS 16.0 or later) a web browser					
Compatibility with smart home systems	YES (REST API over HTTP, including ready-to-use integration with LOXONE)					
Filters	pleated class M5 (acc to EN779) / ePM10 ≥50% (acc to ISO16890) (optionally air vent: anti-smog F9 (acc to EN779) / ePM1 ≥80% (acc to ISO16890))					
Connection spigots	4 x Ø200 mm					
Pre-heater	built-in, smoothly controlled PTC					
Constant Flow System	YES					
Humidity sensor	YES, built-in					
CO ₂ Sensor	YES, built-in					
Condensate drain	YES – dry siphon					
IP rating	IP 40					
Insulation class	I					
Supply voltage	230V (AC), 50Hz					
Housing material	stainless					
Weight (with dedicated rack)	HRV – 50,1 kg ERV – 53,1 kg					
Dimensions (H x W x D)	784 x 1202 x 432 mm					
Accessories	Optional anti-smog F9 filter (acc to EN779) / ePM1 ≥80% (acc to ISO16890) Power cable Adjustable feet Siphon					



Two ways to communicate

1. Wireless



2. Via the internet



Flow characteristics

