TECHNICAL CARD

Vertical ventilation unit

reQ V.400/550

Available versions

reQ V.400 HRV reQ V.550 HRV	reQ V.400 ERV reQ V.550 ERV
counterflow with heat recovery	counterflow with enthalpy recovery

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

https://reqnet.eu/en/products/req/v/

Description

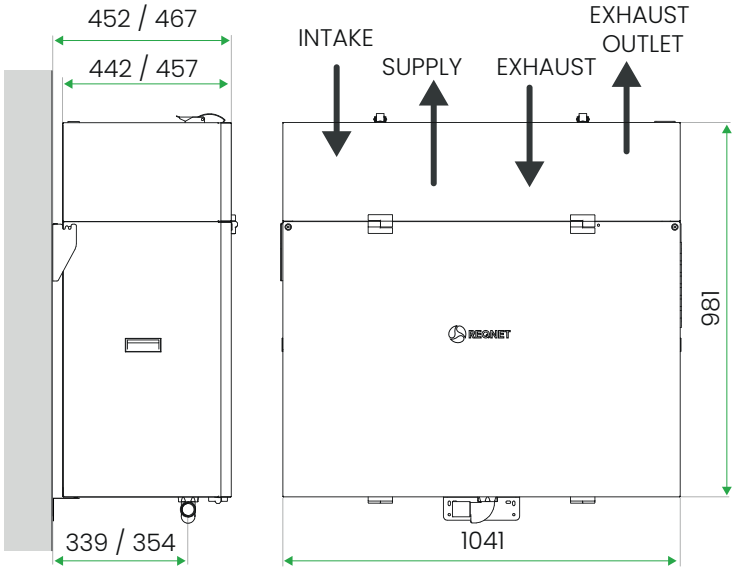
REQNET recuperators of the reQ series are a **new generation of intelligent recuperators** that adjust their operation to **the individual needs** of the building and its residents. This is possible thanks to the standard equipment of the recuperator, **a high-efficiency exchanger, double filters** (including one ISO ePM 1 (F9) class) **and CO2, humidity and constant flow sensors.**

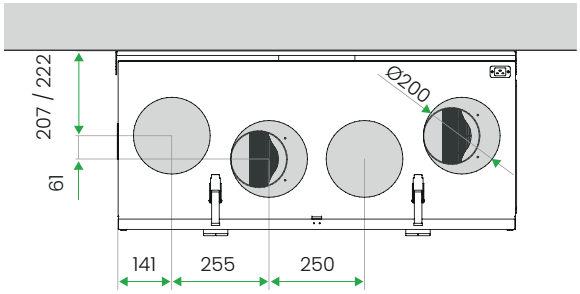
The built-in **Wi-Fi module** and **extensive automation** allow you to connect reQ recuperators to smart home control systems from any manufacturer.

The V series control panels have connection **spigots facing upwards**. The recuperators of the reQ V series can be mounted in a standing version or hung on the wall. Additional **thermal insulation** allows them to be installed in utility rooms inside the building.

It is possible to replace the standard **HRV heat exchanger** (with heat recovery) with **an ERV - enthalpy exchanger** (with moisture and heat recovery).

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
Assembly system
Dry siphon

Model	reQ V.400 HRV / ERV		reQ V.550 HRV / ERV	
Maximum air flow	400 m³/h*	at 150 Pa (HRV) at 180 Pa (ERV)	550 m³/h*	at 150 Pa (HRV) at 180 Pa (ERV)
Heat recovery efficiency	up to 95% (HRV) / up to 85% (ERV)**			
Exchanger type	counter-current			
Exchanger variant	HRV: with heat recovery ERV: with heat and moisture recovery (enthalpy)			
Exchanger Material	HRV: plastic ERV: plastic + polymer membrane			
Moisture recovery efficiency	No (HRV) / up to 65% (ERV)			
Energy consumption	100 m³/h (50 Pa)	25 W (HRV) 24 W (ERV)	200 m³/h (50 Pa)	43 W (HRV) 42 W (ERV)
	250 m³/h (100 Pa)	74 W (HRV) 72 W (ERV)	400 m³/h (100 Pa)	157 W (HRV) 154 W (ERV)
	400 m³/h (150 Pa)	187 W (HRV) 184 W (ERV)	550 m³/h (150 Pa)	272 W (HRV) 267 W (ERV)
The sound power level emitted by the housing at a distance of 1 meter	100 m³/h (50 Pa)	24 db(A)	200 m³/h (50 Pa)	30 db(A)
	250 m³/h (100 Pa)	33 db(A)	400 m³/h (100 Pa)	42 db(A)
	400 m³/h (150 Pa)	43 db(A)	550 m³/h (150 Pa)	48 db(A)
Sound power level - nominal value	35 db(A)		41 db(A)	
Fans	radial with EC DC motors (ebm - papst)			
Energy efficiency class	A**			
Bypass	automatic, 100% supply air bypass			
Communication	built-in wi-fi module control via a mobile application (iOS 12.0 and Android 6.0 or newer) or web browser			
Cooperation with the smart home system	YES (REST API)			
Diameter of connection spigots	4 x Ø200 mm			
Filters	pleated class M5*** / ePM10 75% **** (optionally air vent: anti-smog F9*** / ePM1 80%****)			
Pre-heater	built-in, smoothly controlled PTC			
Constant Flow System	YES			
Humidity sensor	YES, built-in			
O2 Sensor	YES, built-in			
Housing Material	Stainless			
Dimensions (H x W x D)	981 x 1041 x 442 mm			

* with an M5 class filter
** Due to the enthalpy exchanger, reQnet V ERV recuperator does not meet the requirements of the „Clean Air 2019" program for applications submitted before 15.05.2020. The statement for the „Clean Air 2020" program for applications submitted after May 15, 2020, can be found on the cennik24.pl website under the product tab.
*** for a temperate climate in accordance with Directive 2009/125/EC and European Commission Regulation No. 1254/2014
**** according to EN779
***** according to ISO 16890

Two ways to communicate

1. Wireless

2. Via the Internet

Flow characteristics