# TECHNICAL CARD

**REQNET**

## Recuperators

# reQ V.400/550

### Available versions

| | |
|---|---|
| reQ V.400 HRV | reQ V.400 ERV |
| reQ V.550 HRV | 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/
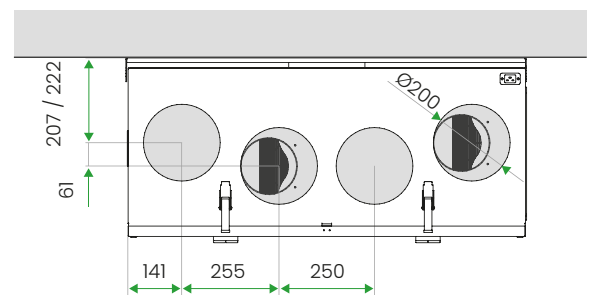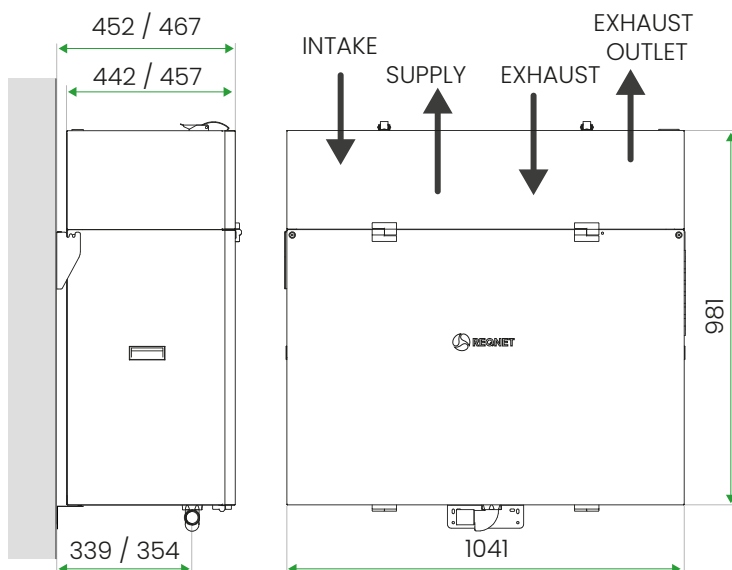
## Description

**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 ePM1 (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



452 / 467
442 / 457
339 / 354

INTAKE  SUPPLY  EXHAUST  EXHAUST OUTLET

981
1041

207 / 222
61
Ø200
141  255  250

## 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
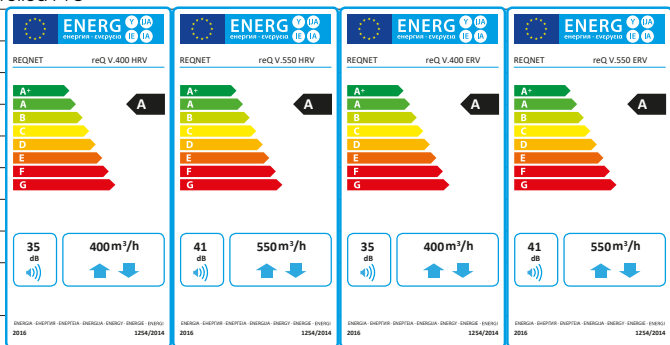
Automatic by-pass 100%

Mobile app

Extensive automation

Universal mouting system

Dry siphon

| Model | reQ V.400 HRV / ERV | | | reQ V.550 HRV / ERV | | |
|---|---|---|---|---|---|---|
| Maxiumum air flow | 400 m³/h (with an M5 class filter) | | at 150 Pa (HRV) at 180 Pa (ERV) | 550 m³/h (with an M5 class filter) | | at 150 Pa (HRV) at180 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 | 550 m³/h at 150 Pa |
| Energy consumption | 25 W (HRV) 24 W (ERV) | 74 W (HRV) 72 W (ERV) | 187 W (HRV) 184 W (ERV) | 43 W (HRV) 42 W (ERV) | 157 W (HRV) 154 W (ERV) | 272 W (HRV) 267 W (ERV) |
| Sound power level emitted by the housing at 1 m | 24 dB(A) | 33 dB(A) | 43 dB(A) | 30 dB(A) | 42 dB(A) | 48 dB(A) |
| Sound power level - nominal value | 35 dB(A) | | | 41 dB(A) | | |
| Fans | radial witeh 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 - 46,1 kg ERV - 49.1 kg | | | | | |
| Dimensions (H x W x D) | 981 x 1041 x 442 mm | | | | | |
| Accessories | Optional anti-smog F9 filter (acc to EN779) / ePM1 ≥80% (acc to ISO16890) Power cable Stainless steel mounting bracket for wall/ceiling installation Siphon | | | | | |

## Two ways to communicate

1. Wireless

Wi-Fi
REQNET Network

2. Via the internet

Wi-Fi
Home network

## Flow characteristics

reQ V.400 ERV ....... reQ V.400 HRV        reQ V.550 ERV ....... reQ V.550 HRV