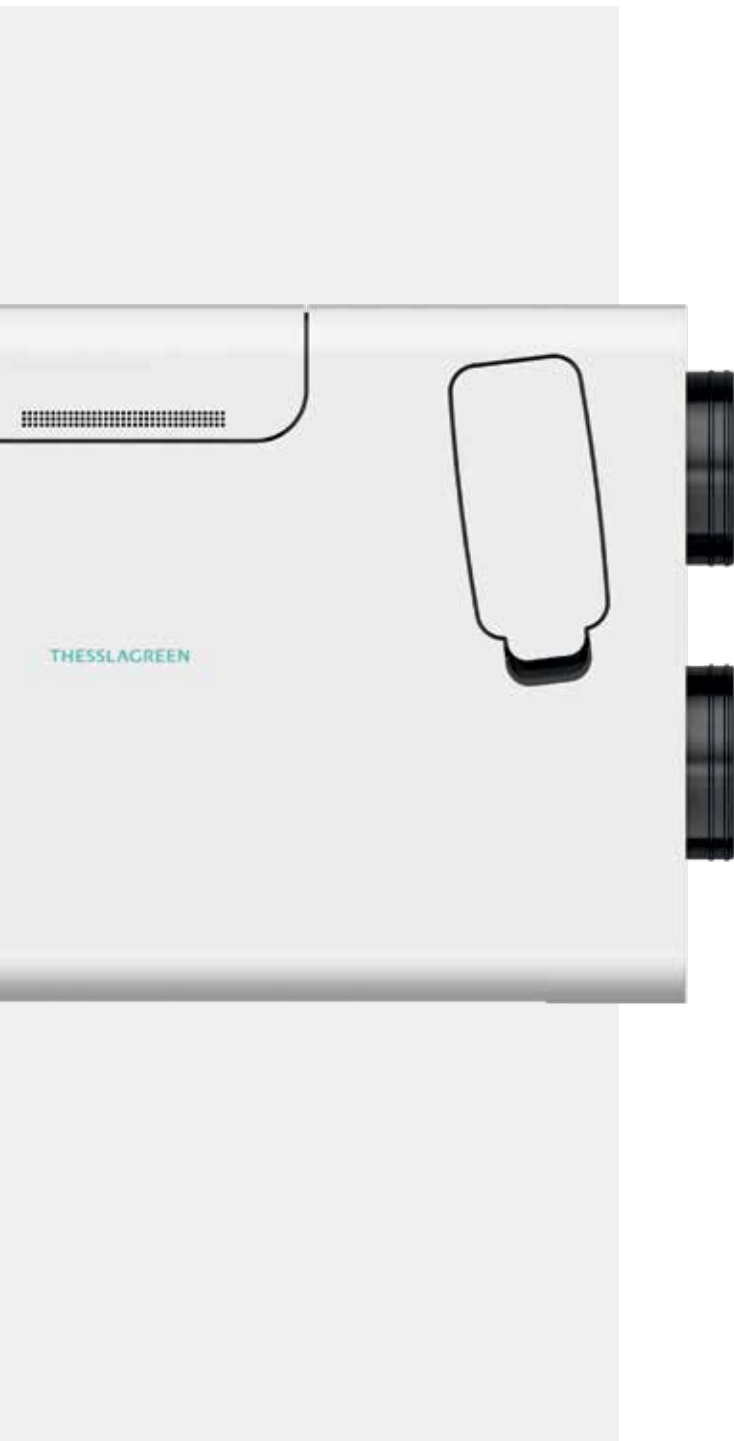


AirPack⁴

The MVHR unit
that can be installed
in an unheated space
at -15°C.

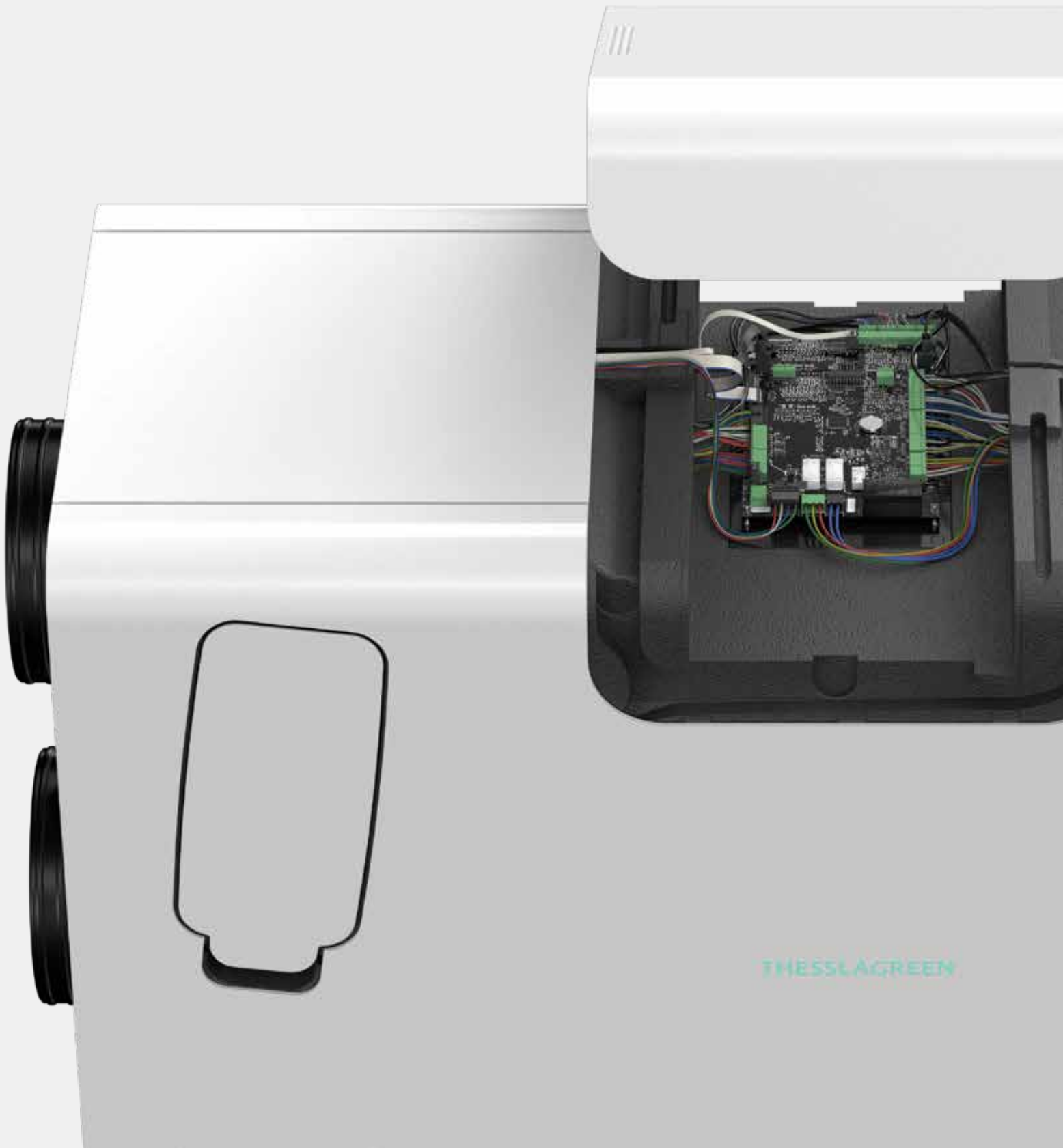


CO₂ and humidity control

Extremely quiet

Filter control system

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Why it is worth having AirPack⁴

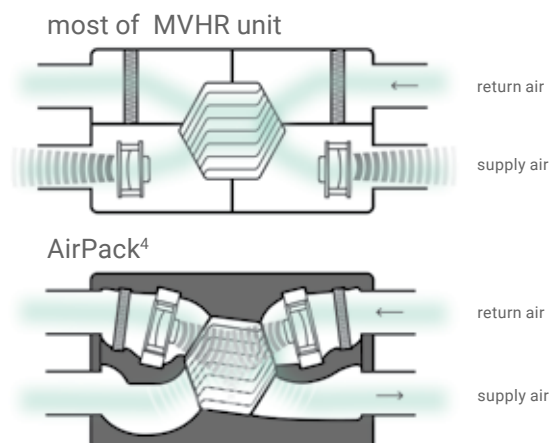
AirPack⁴ with the AFC option, informs all the time about each filter contamination level.



The cost of replacing air filters is more than 50% of the total cost of using the ventilation system. Therefore, AirPack⁴ with the AFC option uses a continuous differential pressure measurement on both sides of the filter to determine the level of its contamination. This information allows you to exchange each filter exactly when it will be fully used. Thanks to this, air quality will be possibly the best, and the cost of filter replacement is always minimal.

AirPack⁴ is a very silent. This is important because even the most effective ventilation is not comfortable if it's loud.

In ventilation system, noise emitted to the supply duct is the most onerous because it supplies air to the bedroom and living room. It is precisely this noise with which that AirPack⁴ is doing very well. The concept of the flow system in which the supply fan was located before the heat exchanger allows the use of several thousand ducts of the heat exchanger to dissipate the acoustic energy generated by the fan impeller. Additional noise reduction has been achieved thanks to casing made of expanded polypropylene, which reduces turbulence and absorbs part of the acoustic energy.



What else is worth knowing about **AirPack⁴**

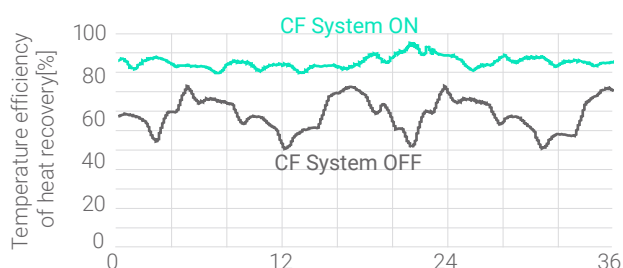
AirPack⁴ can be installed in an unheated space, where the temperature in the winter drops down to -15°C.



AirPack⁴ works with high efficiency even at low ambient temperatures. Thanks to this, it can be installed in unused spaces, saving valuable building space. The recuperator will not lose its efficiency and there will be no risk of moisture condensation on the surfaces of its casing. All this is possible thanks to the unique concept of the FULLSHELL casing made of 50 mm thick polypropylene, free of fasteners and other thermal bridges.

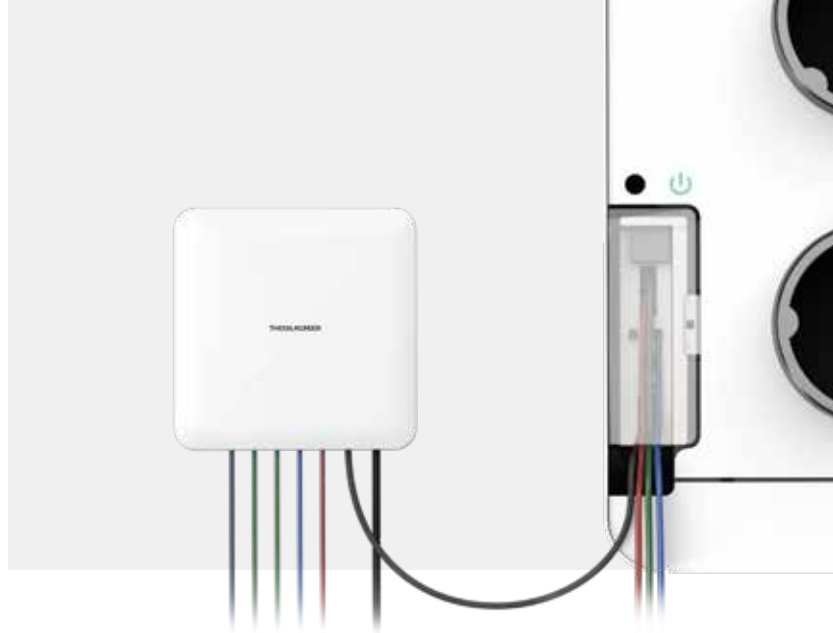
AirPack⁴ with the CF system constantly balances air flows. Because each recuperator has maximum heat recovery efficiency only when the supply and exhaust air flows are equal.

Air Pack⁴ with CF system measures real air flows and sets rpm of each fans so that the supply air flow is always equal to the exhaust air flow. Therefore, the air flows are balanced regardless of filter contamination, condensation in the heat exchanger or weather conditions.



AirPack⁴ is a new, simple way to connect sensors and peripheral devices.

In the new AirPack⁴, sensors, control panels and a mobile system are connected via a port located on the casing. The expansion module is on the outside of the unit and can be connected to AirPack⁴ with plug, without using screwdrivers and opening the automation casing.



AirPack⁴ allows you to connect 8 sensors of air quality and humidity.

After connecting the air quality sensors, control algorithm of AirPack⁴ automatically adjusts the ventilation rate to the current needs based on the measurement of air quality. The measurements are carried out using AirPin Flow sensors and include concentrations of carbon dioxide, VOC and relative humidity. In addition, AirPack⁴ has a choice of 3 automatic programs to control ventilation as a function of air quality, ensuring energy savings and optimal air quality.



One interface for all devices.

AirPack⁴ can be controlled using the Air ++ touch panel and through the AirMobile mobile system. Both devices enable control not only of the AirPack⁴ unit itself, but also other Thessla Green products such as the Particle+ central air purifier or the Humidifier V3 humidifier.



Technical data

Model AirPak⁴

| | | | 300h | 400h | 500h | 350hL | 400hL | 500hL | 300hE | 400hE |
|---|--|-------------------|------|------|--|-------|-------|-------|------------------------------|-------|
| Air flow | 100 Pa | | 310 | 410 | 500 | 355 | 425 | 530 | 330 | 415 |
| | 150 Pa | m ³ /h | 275 | 380 | 465 | 320 | 395 | 500 | 290 | 385 |
| | 200 Pa | | 240 | 345 | 435 | 280 | 360 | 470 | 245 | 350 |
| Maximum thermal efficiency of heat recovery* | % | | 94 | 93 | 92 | 94 | 93 | 92 | 84 | 82 |
| Thermal efficiency of heat recovery* | % | | 89 | 87 | 85 | 89 | 88 | 87 | 67 | 65 |
| Efficiency of humidity recovery** | % | | - | - | - | - | - | - | 68 | 63 |
| Sound power level (breakout)* | dB(A) | | 45 | 52 | 55 | 48 | 51 | 55 | 46 | 53 |
| Sound power level (supply air)* | dB(A) | | 45 | 51 | 54 | 47 | 51 | 54 | 45 | 52 |
| SEC Class for average climate (time control)*** | | | A | A | A | A | A | A | A | A |
| SEC Class for average climate (demand control)*** | | | A+ | A+ | A | A+ | A+ | A+ | A+ | A+ |
| Air flow control | Constant flow and automatic flow balancing CF (option) 100% variable fan speed control (standard) | | | | | | | | | |
| Ventilation control | Air quality control up to 8 zone sensors (option) Weekly programming for summer and winter (standard) | | | | | | | | | |
| Filters control | Automatic filters control – System AFC (option) Time control (standard) | | | | | | | | | |
| Heat exchanger | Counterflow | | | | | | | | Counterflow Entalpy | |
| Fans | Centrifugal with EC (ebm-papst) | | | | | | | | | |
| Bypass | 100%, insulated, programmable | | | | Without mechanical bypass. Electronic bypass - reduction of exhaust efficiency | | | | 100% insulated, programmable | |
| Frost protection | Integrated, variable power control preheater (set point +1°C) | | | | | | | | | |
| Filters | CleanPad Pure- M5 class two stage filters with increased dust capacity by 60% | | | | | | | | | |
| Power supply | 230 V (AC), 50 Hz | | | | | | | | | |
| The maximum current consumed by the device | A | 5.9 | 6.4 | 8.0 | 4.9 | 6.4 | 8.0 | 4.8 | 6.4 | |
| Diameter of connectors | mm | 200 | | | | | | | | |
| Diameter of the condensate connector | mm | 32 | | | | | | | | |
| Weight | kg | 48 | 48 | 48 | 47 | 47 | 47 | 51 | 51 | |
| Operating temperature**** | °C | -15 ÷ 45 | | | | | | | | |

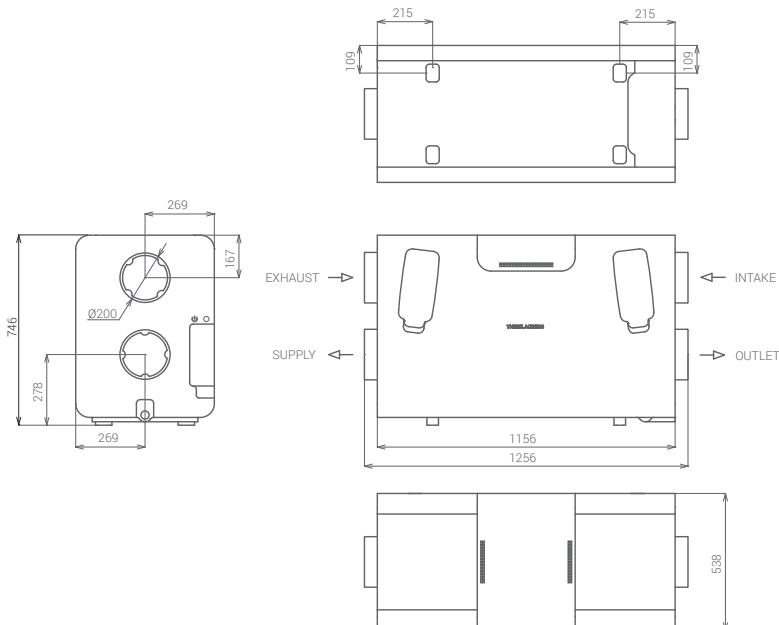
*Test conditions by EN 13141-7

**Test conditions by EN 308 (Tz=5°C, RHz=70%, Tp=20°C, RHp=50%)

***In accordance with Regulation No. 1254/2014

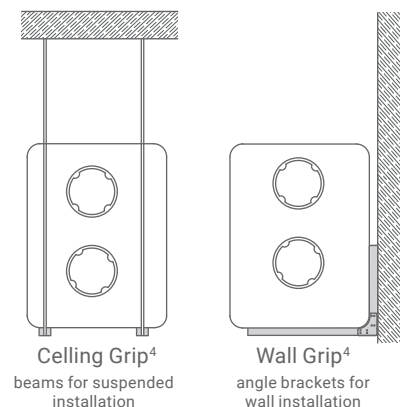
**** The device should be installed in a dry room. The device must not be exposed to atmospheric precipitation. If the device is operated at temperatures <0°C, the condensate drain must be protected against freezing.

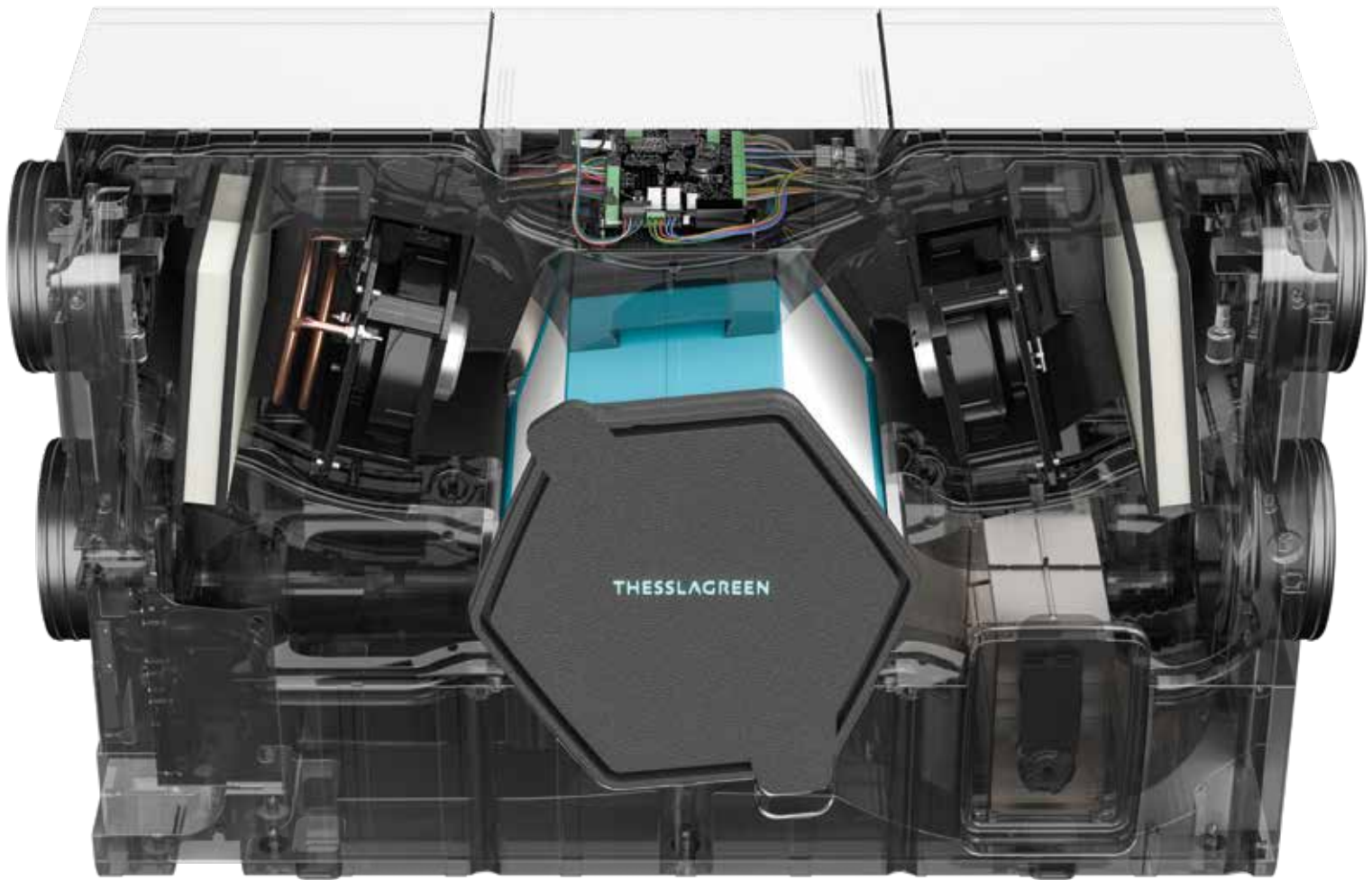
Dimensions

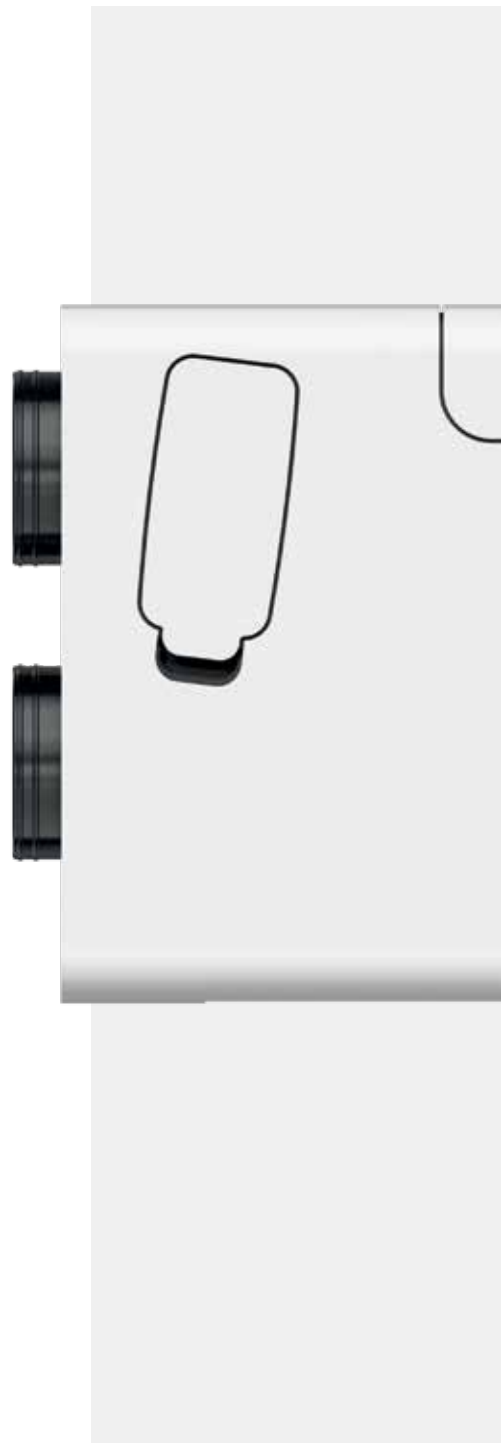


Mounting system

AirPak⁴ has simple system for wall and ceiling mounting. In this way AirPak simplify the work and reduces installation time.







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