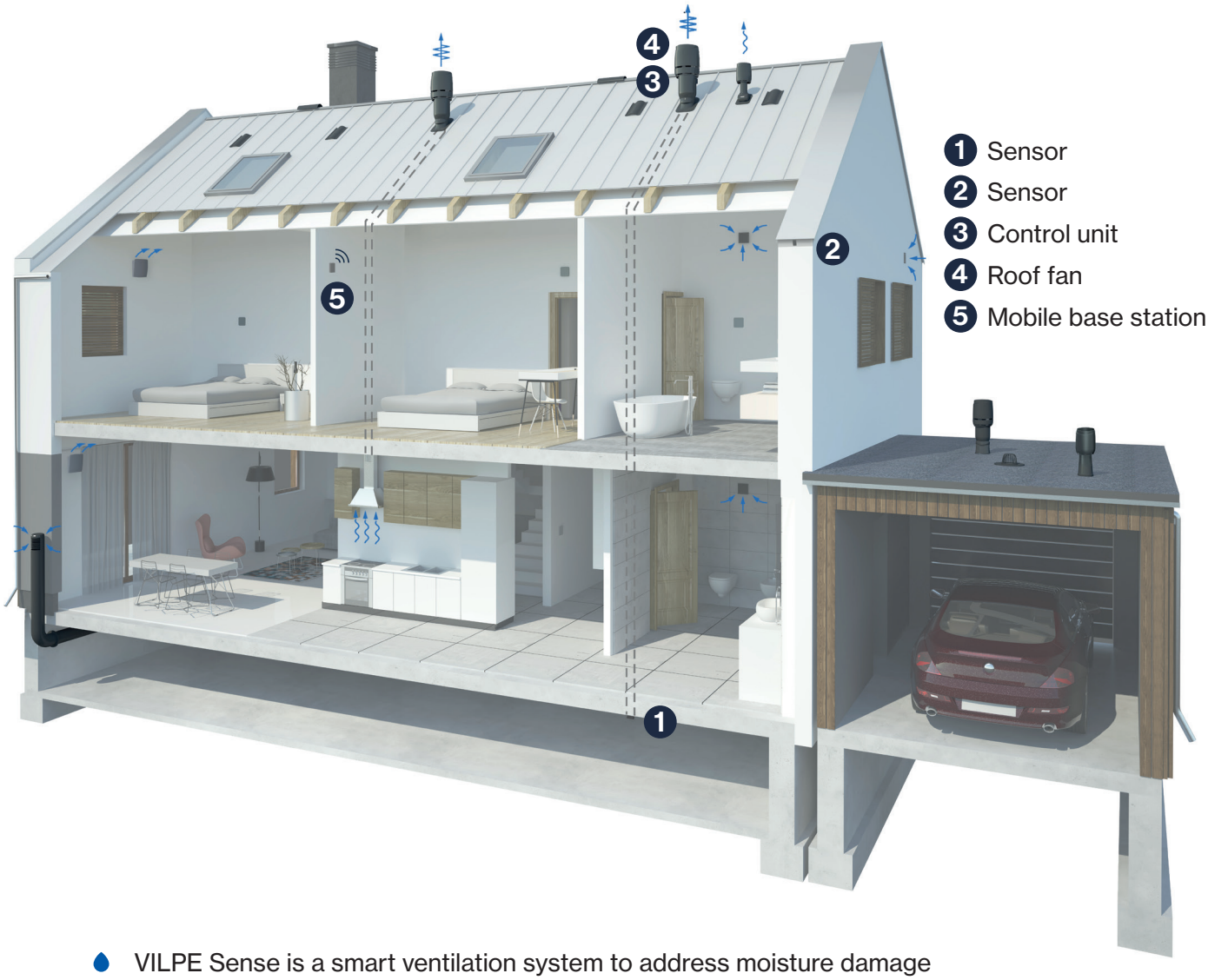
HUMIDITY CONTROL IN THE CRAWL SPACE

VILPE® Sense

Smart, demand-based crawl space ventilation



- VILPE Sense is a smart ventilation system to address moisture damage
- Use VILPE Sense to detect and prevent moisture damage in the crawl space
- The system reacts to increases in humidity by increasing the ventilation in the crawl space; by quickly removing moisture, additional damage can be avoided. The faster hidden damage is detected, the easier and cheaper it will be to repair.
- The solution consists of VILPE's roof fan with an EC motor, along with a control unit, mobile base station, and two or more sensors.

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Benefits of VILPE Sense

VILPE Sense helps you to accurately, systematically monitor the condition of the crawl space, and through demand-based ventilation helps to keep your crawl space dry and problem-free.

- **Rapid detection of problems.** This will help you to avoid unanticipated and costly renovations.
- **No more guesswork.** VILPE Sense monitors your crawl space and provides objective, measurable data to help you make informed decisions. Investigations or repairs need not be conducted on the basis of guesswork alone.
- **No fungi or mould.** VILPE Sense's algorithm knows the ideal time to ventilate the crawl space, for example after rain. Keeping the crawl space as dry as possible prevents the formation of mould or fungi.
- **Secure the resale value of the property.** For sales purposes, the condition of the property can be demonstrated with reliable data. The need for difficult roof structure inspections can also be reduced.

What causes humidity problems in the crawl space?

For several possible reasons, the crawl space is prone to humidity problems. Moisture naturally rises from the ground; if the crawl space cannot dry, moisture can penetrate the crawl space structures and cause damage over time. This is especially problematic in winter, when water can freeze in the structures and cause cracks. Humidity also provides good conditions for the growth of mould and fungi, which can destroy the crawl space structure in the long run. The crawl space is a particularly difficult area to renovate, and unfortunately most insurance policies cover only sudden and unexpected damages, such as a broken pipe.

Monitoring humidity in the crawl space with VILPE Sense

The solution consists of VILPE's roof fan with an EC motor, combined with a control unit, mobile base station, and two or more sensors. One sensor is placed to measure the temperature and relative humidity of the outdoor air, and the other is placed inside the crawl space. The algorithm compares calculated absolute humidity levels in structures to outdoor air absolute humidity, and adjusts the VILPE ECo roof fan to the optimum fan level based on the ventilation demand. For example, when the humidity level of the air used for ventilation rises too high in rainy weather, the airflow is reduced. Once the excess humidity is removed, the roof fan returns to its normal level. It is important to ensure sufficient replacement of air in the crawl space. The VILPE Sense system can be installed in both new and older buildings.

VILPE Sense basic kit mob.

VILPE Sense sensor (additional)

VILPE Sense mobile base station (+ SIM)

VILPE ECo Sense roof fan

NAME	PRODUCT NR
VILPE Sense basic kit mob.	735042
VILPE Sense sensor (additional)	735041
VILPE Sense mobile base station + SIM	735043
VILPE Sense mobile base station	735044
VILPE ECo Sense roof fan	741982

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