



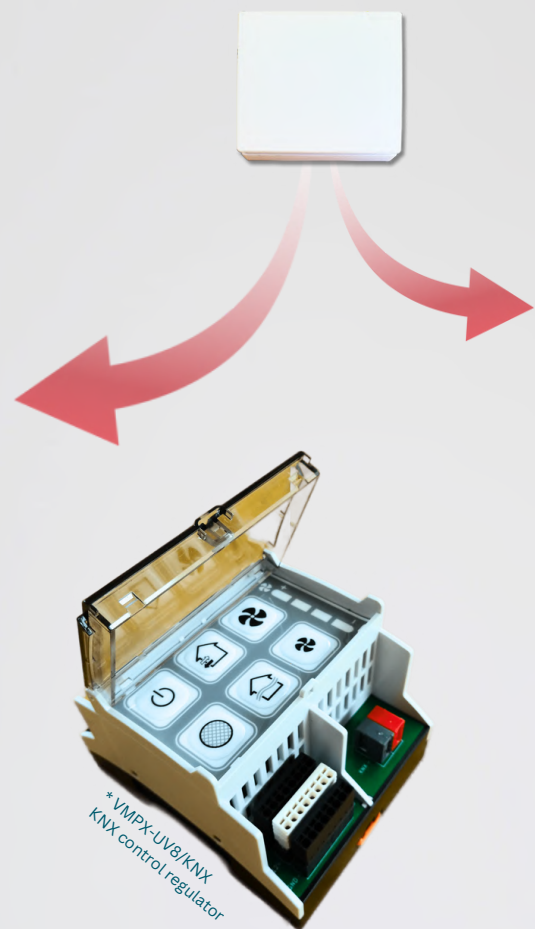
PASSIV ENERGIE



SINGLE ROOM HEAT RECOVERY  
VENTILATION SYSTEM

**HOKKAIDO 400 SERIES**

KNX LINE PRODUCT

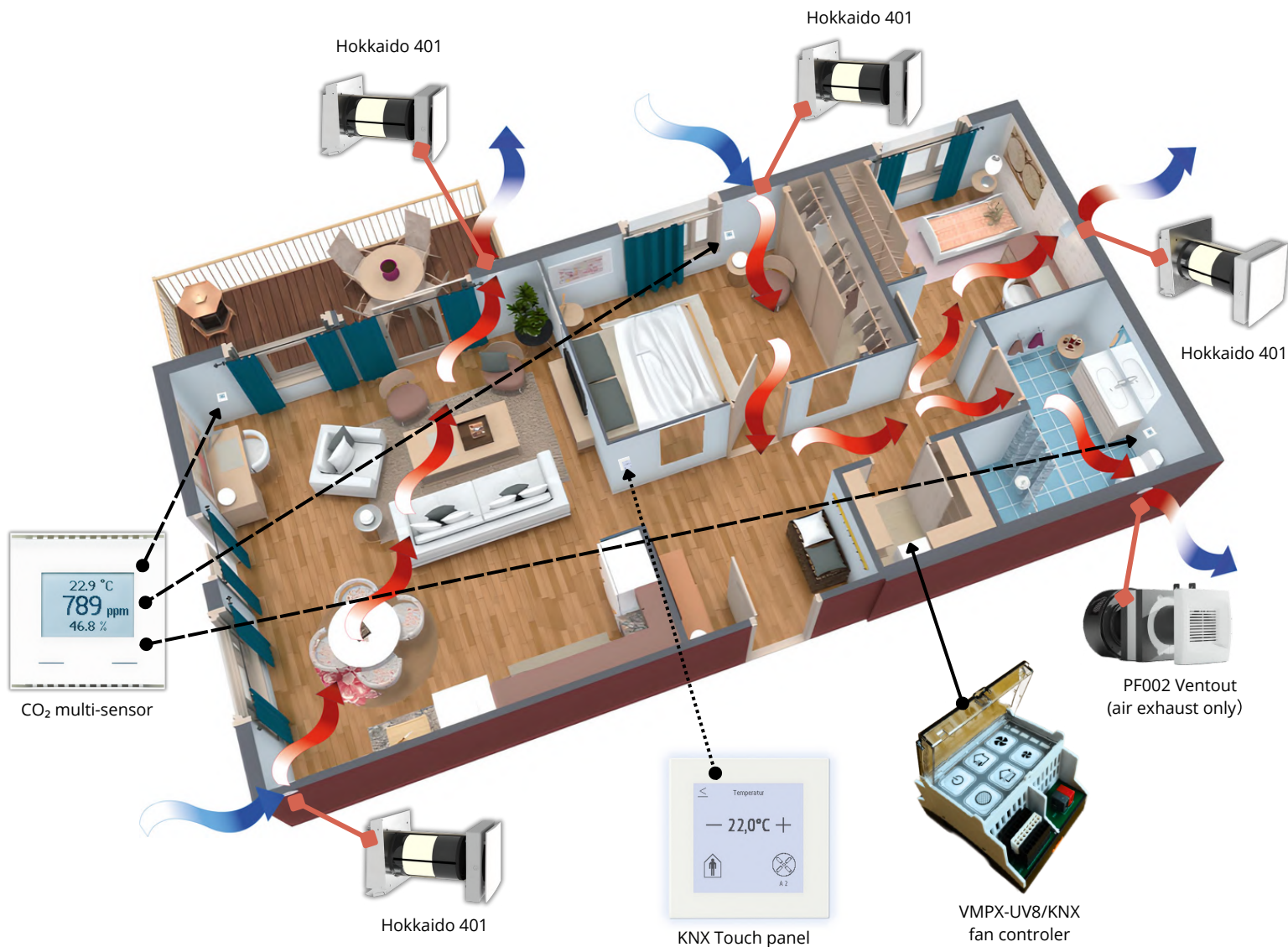


FOR APARTMENT AND HOUSE

- NETWORKING THROUGH KNX
- HEAT RECOVERY UP TO 95%
- MOISTURE AND MOLD PROTECTION
- CUSTOMIZABLE WITH OTHER KNX DEVICES

**READY FOR A NEW LIVING EXPERIENCE THROUGH THE  
TECHNOLOGY OF THE FUTURE?**

Discover the ultimate comfort and efficiency of fan control with the innovative **KNX bus system**! Our state-of-the-art fans, whether utilized as single-room ventilators or integrated into decentralized ventilation systems with intelligent **KNX technology**, offer unparalleled indoor climate control and an exceptional user experience. All of this is achieved while effectively reducing your energy consumption.



INSTALLATION EXAMPLE: HOKKAIDO WITH KNX

## OPERATION

Our innovative ventilation system with **heat recovery** ensures optimal air quality while enabling significant energy savings. **By integrating KNX**, you can seamlessly combine the best of both worlds, achieving smart and efficient room control.

The heat recovery function extracts used indoor air, recovering its heat energy to warm incoming fresh air. The result is a continuous supply of fresh air, efficient energy utilization by reducing heating demand, and a consistently pleasant room temperature.

The integration with KNX grants you complete control and automation of this ventilation system, allowing you to link it with other KNX devices in your home for optimized ventilation automatically.

The benefits of connecting our ventilation system with KNX are diverse. You not only enjoy the comfort of a constant room temperature but also save energy and reduce heating costs, actively contributing to protecting both your wallet and the environment without any drawbacks.





## VENTILATION INSTALLATION IN CONJUNCTION WITH CO<sub>2</sub> SENSOR

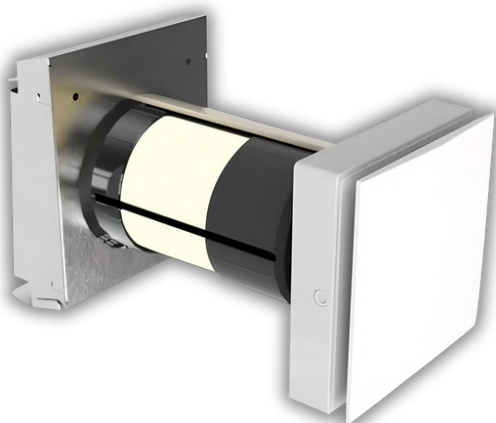
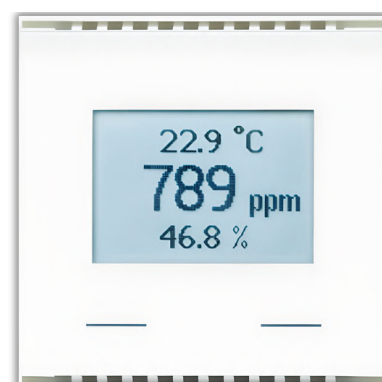


INSTALLATION EXAMPLE AQS/TH-UP

### SMART ROOM VISUALIZATION

Our innovative KNX devices offer not just advanced control options but also an impressive visualization of your room climate. Featuring high-resolution screens, you can easily access at-a-glance information about the humidity, temperature, and CO<sub>2</sub> levels in your space.

Why is this visualization so valuable? Quite simply, it enables a **deeper understanding** and **better control of your room climate**. By monitoring the current values on the screen, you obtain clear and precise information about the current state of your indoor environment.



With this visual representation, you can promptly respond to changes and take appropriate measures. If the humidity is too high, you'll see it immediately and can dehumidify the room. If the temperature is too low, you'll know at a glance and can adjust the heating. Is the CO<sub>2</sub> level too high? No problem! Our ventilation system will react accordingly. This way, you can create a comfortable and healthy indoor climate that perfectly suits your needs.



## DIVERSE CONTROL WITH KNX

As an example, we've selected the **"Glastaster Nunio KNX M-T"**, available in single, double, triple, or quadruple button configurations. It offers a myriad of options for customizing your indoor environment to suit your preferences. Its **versatile programming functions** provide an intuitive control experience.

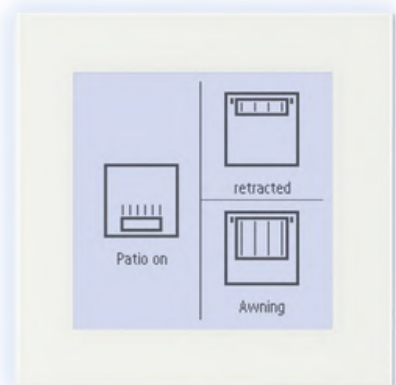
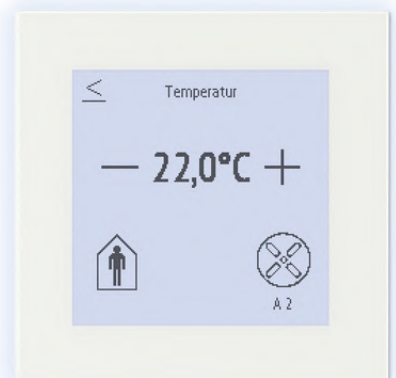
## MAXIMUM PROGRAMMING OPTIONS

The button's flexibility is achieved through its extensive programming options. **You have the ability to configure the number of touch areas visible and assign various functions.** For instance, you can control room lighting by switching and dimming based on mood and occasion, automate blinds and curtains, send values, call up scenes, or regulate our fan. Your individual needs and preferences take center stage, allowing you to customize room control as desired.

In addition, the PI controller for one- and two-stage heating and cooling systems is integrated into the KNX application. **The setpoint, mode, fan speed, etc. can be easily configured on a separate display page.**

## ROOM CONTROL

KNX enables individual control of the ventilation system for each room. **You have the flexibility to define various ventilation zones within a building,** such as living rooms or bedrooms, and control ventilation in each room individually. This empowers you to optimize air quality in every area.







## VMPX-UV/KNX KNX CABINET CONTROLLER

### KNX AND CONNECTIVITY



The **VMPX-UV8/KNX** version serves as a **controller for managing ventilation units and establishing communication with other devices in the KNX bus system**. It receives commands from KNX controllers or other devices via the KNX bus, translating them into physical actions such as switching the Hokkaido fan on and off or adjusting the fan speed.

Room sensors, including humidity, temperature, or CO<sub>2</sub> sensors, are connected to the controller through the KNX bus. Tailored to individual preferences, specific values can be programmed for a particular room. These sensors then transmit signals to the controller upon reaching set threshold values, which in turn regulates or controls the fan accordingly.

### OPERATING OPTIONS

#### HEAT EXCHANGE MODE

During ventilation, the system recovers up to 95% of the heat from the exhaust air, heating the supply air. The fan units regularly switch between supplying fresh air and extracting indoor air.

#### FAN SPEED

The four freely adjustable fan levels provide flexibility for individual adjustments, catering to your daily preferences and needs

#### SUMMER NIGHT COOLING

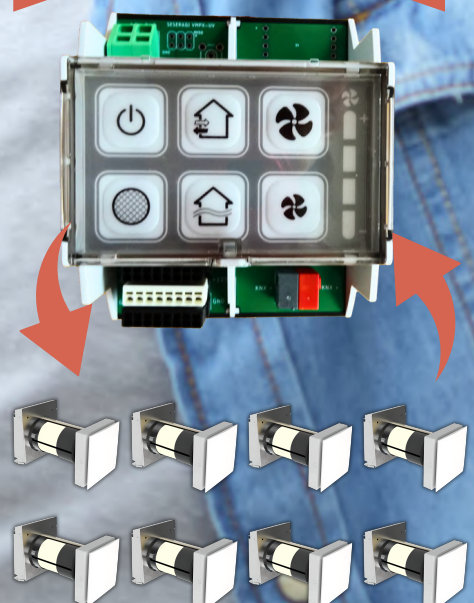
Heat from the room is expelled to the outside, and refreshing cool air is drawn in, producing a delightful cooling effect.

#### FILTER REPLACEMENT

An indicator signals when it's time to replace the fan filter, ensuring optimal performance

**VMPX-UV8/KNX**  
Power supply for fans:

**CONTROL UP TO 8  
VENTILATION UNITS**

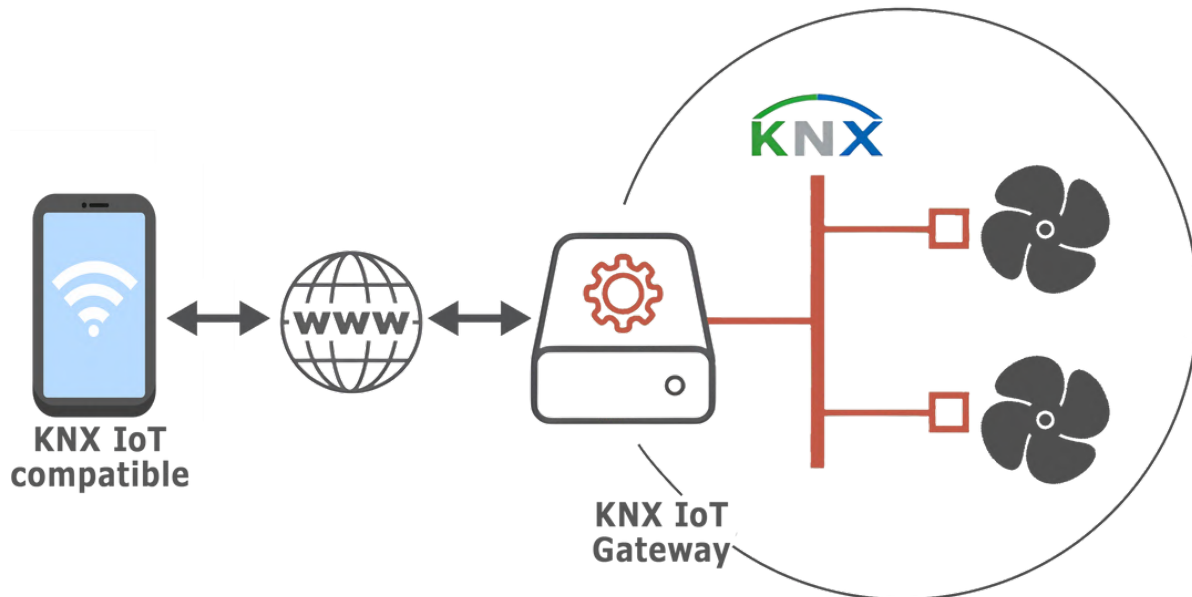




# KNX-IoT: KNX Internet of Things

The integration of the KNX system with IoT technologies allows seamless networking and interaction with other IoT devices and platforms

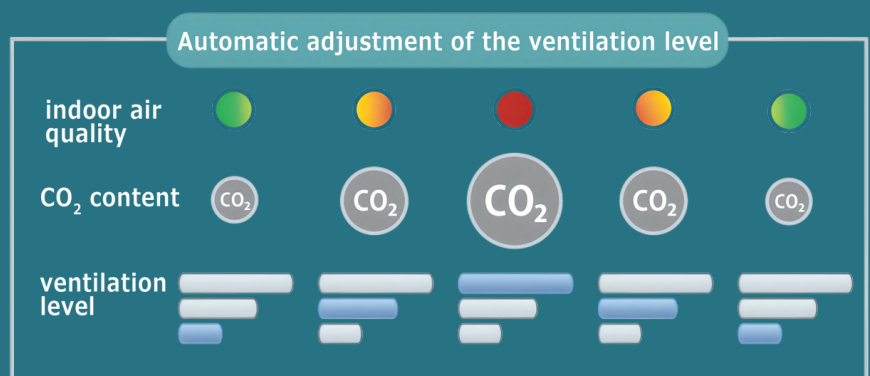
**COMPATIBILITY:** The integration of KNX with various IoT protocols and platforms, including MQTT, REST APIs, and cloud services, facilitates seamless communication and collaboration between KNX devices and our ventilation system with a diverse array of IoT devices and systems.



**CLOUD CONNECTION:** With KNX-IoT, KNX systems can seamlessly integrate into the cloud, enabling remote control, monitoring, and management of KNX devices and the ventilation system via the internet. The cloud connection not only facilitates these functions but also allows for data collection, analysis, and utilization in applications like energy management or data analysis.

## ADVANCED AUTOMATION:

Integrating KNX with IoT technologies enables the realization of advanced automation scenarios. For instance, sensor data from IoT devices can be harnessed to define intricate control sequences, all centrally managed via the KNX system.





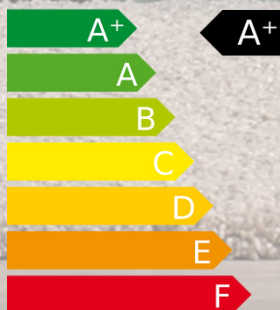
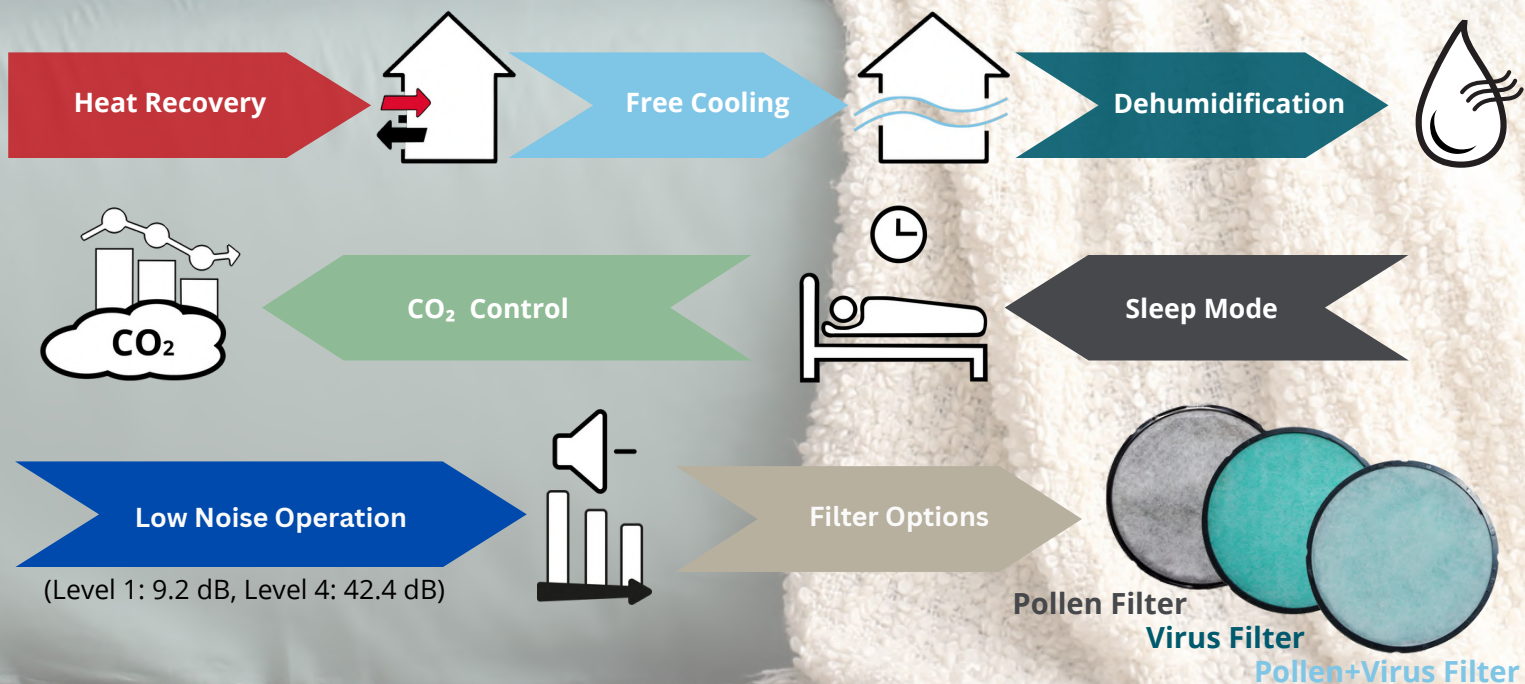
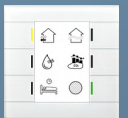
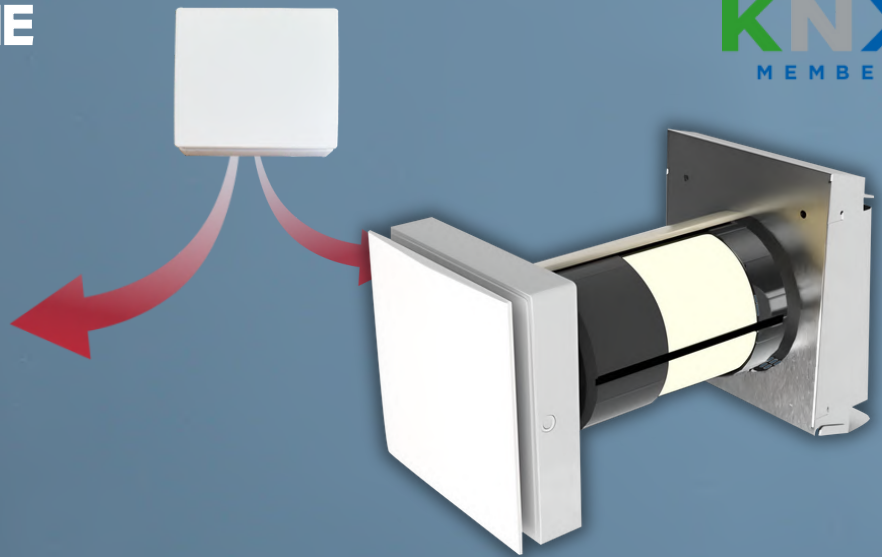


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## HOKKAIDO 401

Fan unit with ceramic heat storage and KNX compatibility



**Energy Class A+:**  
Cost savings through  
energy-efficient heat  
recovery.

Simple and **cost-effective installation**, suitable for both new construction and existing buildings.

Improved indoor **air quality** for better health. Efficient reduction of CO<sub>2</sub>, humidity, and odors.



## THE CERAMIC ELEMENT AND THE Gaußfan®03 SERVE AS THE CORE COMPONENTS OF OUR HOKKAIDO VENTILATION SYSTEM



The ceramic element is notable for its honeycomb shape, contributing to a **remarkable heat recovery rate of up to 95%**. Paired with our specially developed air circulation fan, it achieves an **impressive air volume of up to 80m³ per hour**.

Fan unit	Heat recovery rate	Volume flow (Turbo mode)	Energy consumption (MAX)	Relative energy consumption	Operating costs per unit (1kWh= 0.29€)
Gaußfan®03	95%	80m³/h	1.6W/h	0.04W/(m³/h)	1.53€
Heat recovery element	Nominal diameter Heat recovery element	Length HRE	Required wall thickness	Outer dimension of the sleeve tube	Length of the sleeve tube
Honeycomb ceramic Cartridge type	150Ø	150mm	326~980mm	165mm	400mm



## Gaußfan®03 SOUND PRESSURE

Ventilation speed level	Level 1	Level 2	Level 3	Level 4
Sound pressure level [dB] 3 m acc. ISO 11203	9.2	18.7	34.9	42.4

