



**BSK NOTUS SLIM**  
**NEW GENERATION HEAT RECOVERY DEVICE**

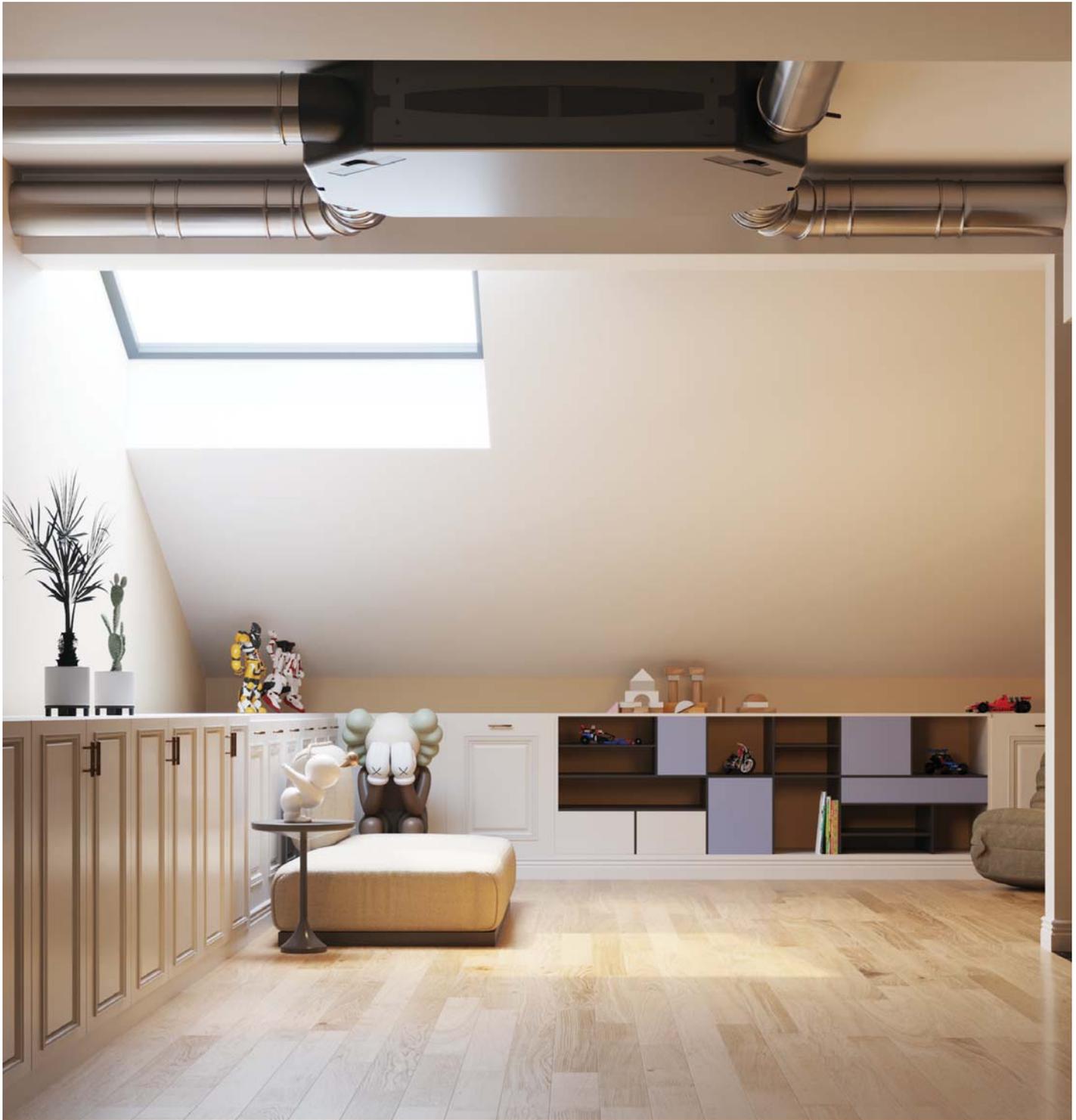


## New Generation Residential Heat Recovery Device

Heat Recovery Ventilation (HRV) devices play a crucial role in maintaining healthy and energy-efficient indoor environments. By recovering heat while ensuring continuous fresh air circulation, these systems enhance indoor air quality and contribute to energy savings in modern buildings.

The **BSK NOTUS Slim** is an advanced residential HRV system designed to efficiently exchange indoor and outdoor air while minimizing energy loss. It is engineered to maintain indoor air quality, reduce energy consumption, and enhance overall comfort in residential spaces.

The **BSK NOTUS Slim** extracts stale indoor air from key areas such as bathrooms, kitchens, and living spaces while simultaneously introducing fresh outdoor air. At its core, the unit features a high-efficiency heat exchanger that transfers heat from the outgoing air stream to the incoming fresh air. This process pre-conditions the fresh air, reducing the energy required to heat or cool it to the desired indoor temperature.





### Plug-and-Play connections

The BSK NOTUS Slim is designed for effortless installation. Electrical connections are conveniently located on the exterior case and accessible via dedicated sockets. This Plug-and-Play system eliminates the need for professional wiring, enabling a straightforward and hassle-free setup. Simply connect the appropriate accessory cable to its designated socket, and the unit is ready to operate right out of the box.



### Humidity control

Equipped with a built-in humidity sensor, the device continuously monitors indoor humidity levels. When the user-set humidity threshold is exceeded, the system automatically activates humidity boost mode, adjusting fan speeds to efficiently remove excess moisture. Once humidity stabilizes, the device seamlessly returns to normal operation.



### Mainboard and Extension Modules

The BSK NOTUS Slim mainboard supports essential functions such as automatic bypass damper control, weekly scheduling, and Wi-Fi connectivity. However, ventilation requirements may evolve due to project-specific needs or changing regulations. To ensure future compatibility, our system supports extension modules, allowing users to upgrade functionality as needed. If your project requires a specific feature, an extension module may provide the solution.

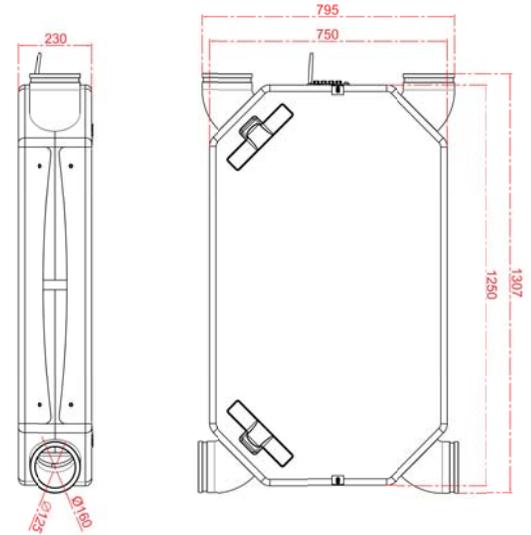
## Components



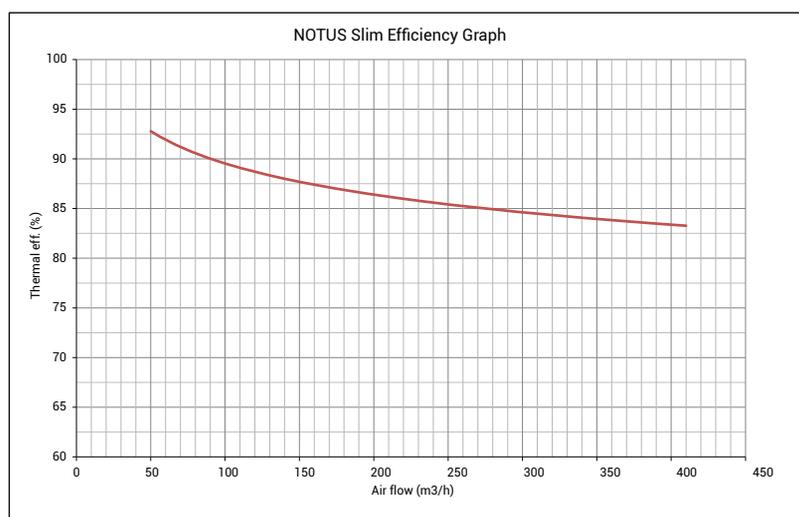
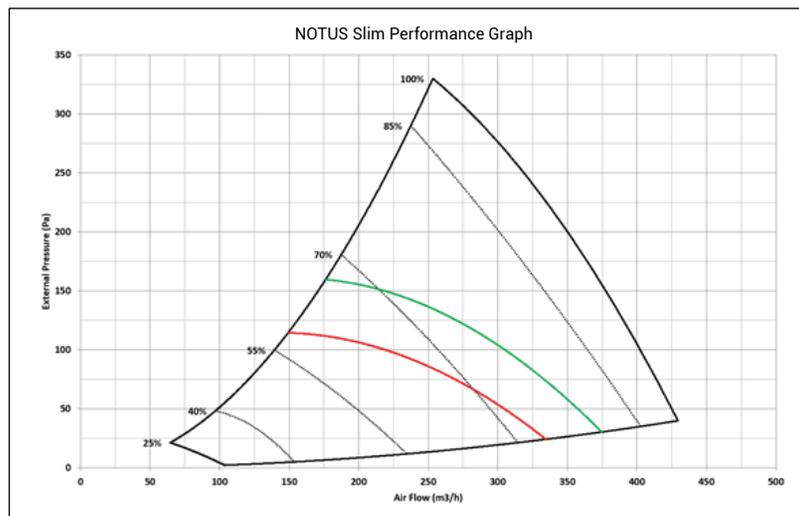
<p><b>Body</b></p> 	<p>Expanded Polypropylene (EPP) is a versatile and lightweight plastic foam material derived from polypropylene through a molding and expansion process. EPP is valued for its versatility and performance in a wide range of industries and applications where its lightweight, impact-absorbing, and insulating properties make it a perfect body material for BSK NOTUS Slim units.</p>	<p><b>Heat Exchanger</b></p> 	<p>The heart of the BSK NOTUS Slim unit is the high efficiency counter-flow heat exchanger. This component facilitates the transfer of heat between the outgoing and incoming air streams without direct mixing.</p>
<p><b>Filters</b></p> 	<p>BSK NOTUS Slim have 2 filters on both supply and exhaust air streams. These filters clean the incoming air by removing dust, allergens, and other pollutants. This ensures that the indoor air remains fresh and healthy while keeping the inside of the device clean and protected.</p>	<p><b>EC Fans</b></p> 	<p>Low energy fans with backward curved blades and EC motors are responsible for moving the air through the system. They extract stale air from the building and introduce fresh air from outside.</p>
<p><b>Controls</b></p> 	<p>BSK NOTUS HRV system comes with advanced controls that allow users to adjust settings based on their preferences. These controls include fan speed controls, filter alarms and sensor readings and smart features such as automatic boost modes and weekly scheduling.</p>	<p><b>IoT Functionality</b></p> 	<p>Wi-Fi connection is standard on all BSK NOTUS Slim units, they can easily connect to our new BSK Connect mobile app to offer you control over your ventilation wherever you are.</p>

## Technical Data and Dimensions

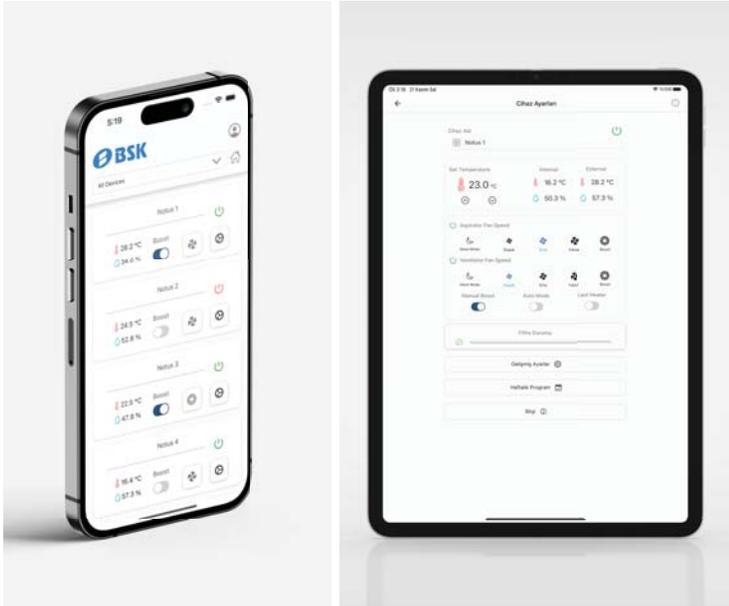
BSK NOTUS SLIM	
Energy class	A+
Max. air flow (@100 Pa)	400 m <sup>3</sup> /h
Max. thermal efficiency	90 %
Supply voltage	230V AC 50Hz
Max. Electric Power	160 W, 0.7 A
Casing material	Expanded Polypropylene (EPP)
Dimensions (LxWxH)	1250x750x230 mm
Weight	25 kg
Heat Exchanger type	Counter-flow (optional Enthalpy)
Fan & Motor type	Backward-curve fans with EC motors
Filter class	2 x G4 filter (optional F7)
Duct Connections	both Ø 160 mm and Ø 125 mm
Condensation drain	Ø 10 mm
Mounting Options	Ceiling mount / Vertical wall mount
Operating temperatures	-25°C to +60°C



## Performance Graphs



## New BSK CONNECT Mobile App



The BSK Connect mobile app is available on iOS App Store and Android Google Play Store.

With BSK Connect mobile app you can;

- Monitor outdoor and indoor temperature and humidity,
- Change fan speeds, control heaters, and set temperature/humidity levels,
- Schedule weekly or daily programs,
- Adjust your devices many other settings,

## Touch Screen Panel

The BSK NOTUS provides a comprehensive range of control options. All our units feature Wi-Fi connectivity, allowing users to take control of their units through their Android and iOS devices via our BSK Connect app. This user-friendly app offers convenient management of your BSK NOTUS unit.

There is an optional 4" touchscreen control interface where you can monitor and change various settings of your device. Additionally, a wireless touch panel which would eliminate the need for the extension cable is under development and will be available soon.



## BSK CloudControl

Additionally, for building managers or corporate housings, we offer a dedicated web tool "BSK CloudControl" that enables connection and monitoring of multiple devices. Through this interface, building managers can access individual device information, receive service notifications such as dirty filter alarms, and even set fan speed limits.



## Accessories

### F7 Filter



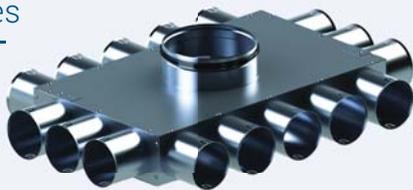
Standard G4 filters provide effective protection against dust and bigger particles. In cases where additional protection is required, especially for residents with allergies, we recommend opting for the F7 grade pollen filters. These filters offer enhanced filtration capabilities, specifically designed to capture smaller particles, ensuring a cleaner and healthier indoor environment.

### Silencer



We designed BSK Heat Recovery Units to be as quiet as possible; however, you may need to further reduce the noise levels in some situations. In such cases, you have the option to incorporate either a duct-type silencer or a flexible silencer for tighter spaces directly into the supply vent.

### Distribution Boxes



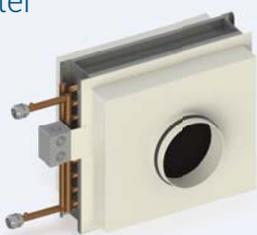
Our Box Systems are intelligently crafted solutions designed to optimize airflow and maintain superior indoor air quality within homes. These compact and reliable distribution boxes serve as central points for efficiently channeling ventilation throughout the house.

### Kitchen Hood



Our Residential Kitchen Hood is designed to work together with Notus. By connecting your Notus unit to our Kitchen hood, the Kitchen boost function will be open. Whenever you start cooking, Notus unit will balance the pressure inside the house and remove the Smoke, Odors from the rest of the house.

### Water-heater



If your house is already heated by hot water, you can equip duct type water coils to the supply air vent to further heat the incoming air for a precise control of temperature. For buildings without the option for a water heater, we also offer electrical heaters.

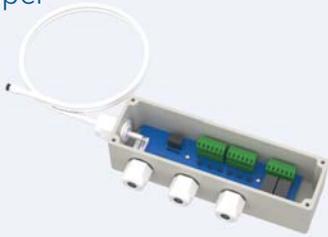
## Accessories

### Constant Air-Flow Module



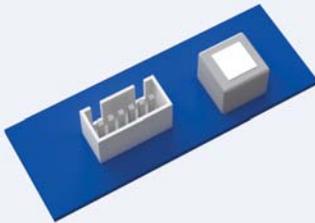
The Constant Airflow Module is engineered to maintain balanced ventilation by regulating airflow instead of fan speed, even as pressure conditions change (e.g., when filters become dirty). Users can set specific airflow values rather than fan speeds, ensuring consistent and even air distribution throughout their home.

### Fire Damper Control Module



The Fire Damper Control Module is a critical accessory designed to enhance the safety of your ventilation system. It integrates with your NOTUS unit to automatically control fire dampers in the event of a fire, ensuring that smoke and heat are contained and directed away from living spaces. The module responds to signals from fire alarms or heat detectors, shutting off airflow to specific areas to limit the spread of smoke.

### CO<sub>2</sub> sensor module



The Internal CO<sub>2</sub> Sensor Module continuously monitors carbon dioxide levels in your home, enabling crowd detection and optimizing airflow to maintain a healthier indoor environment. The CO<sub>2</sub> Boost automatically adjusts ventilation rates to user-preset levels when elevated CO<sub>2</sub> levels are detected. While the CO<sub>2</sub> Auto-Mode operates between two preset CO<sub>2</sub> thresholds, dynamically adjusting fan speeds to maintain optimal air quality.

### Internal Pre-heater Module



The Internal Pre-Heater Module is an essential accessory for NOTUS units operating in colder climates, especially in regions with prolonged subzero temperatures. It prevents frost buildup by warming incoming outdoor air before it reaches the heat exchanger. Equipped with a PTC heating element, the pre-heater ensures energy-efficient operation across various weather conditions.

### Radon Sensor Module



The Radon Sensor Module is a critical accessory for safeguarding indoor air quality. It continuously monitors radon levels—a naturally occurring, colorless, and odorless gas that can accumulate indoors and pose health risks over time. This module provides real-time feedback and triggers the ventilation system to increase airflow when elevated radon levels are detected, helping reduce exposure and protect your home.







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