

ZEPHYR

Decentralized Ventilation
With Heat Recovery

technogen[®]

smart solutions for HVAC



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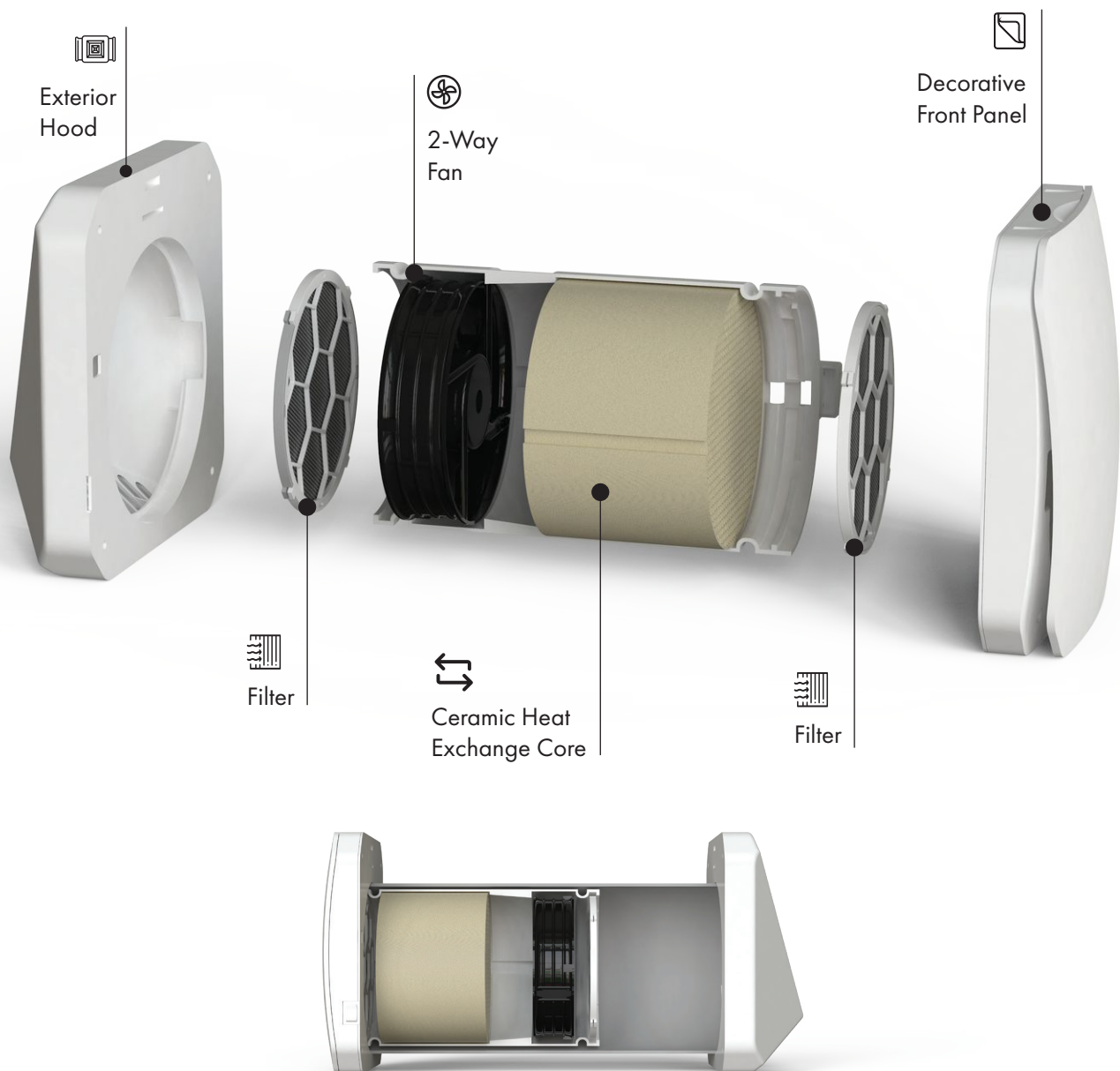
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ZEPHYR

Decentralized Ventilation With Heat Recovery

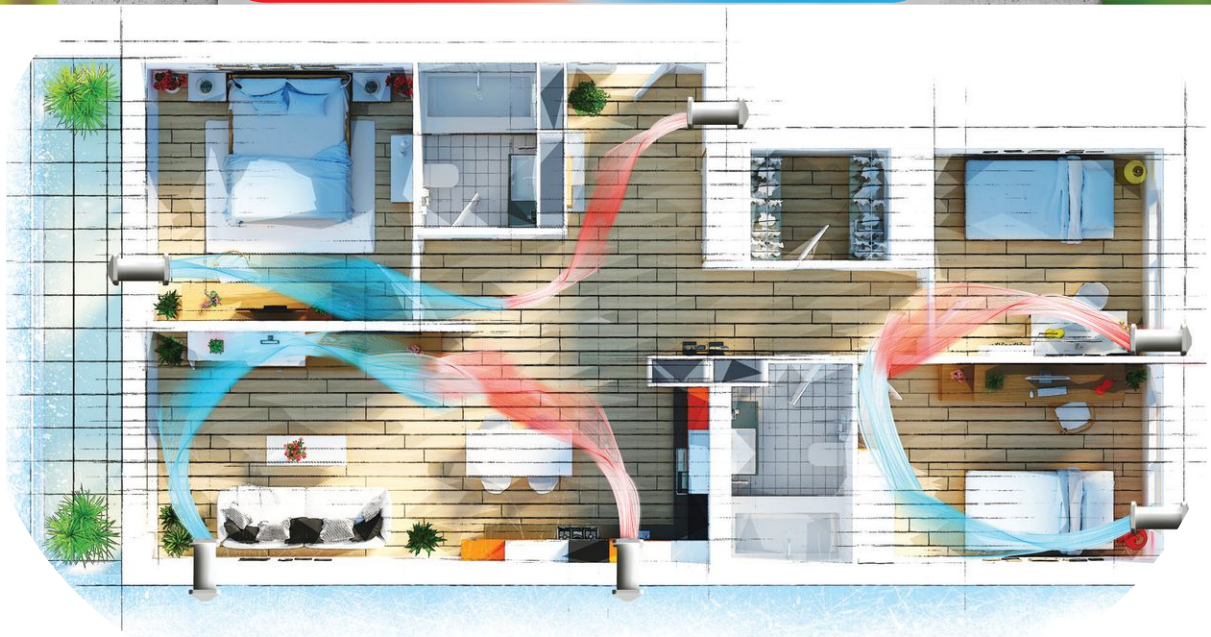
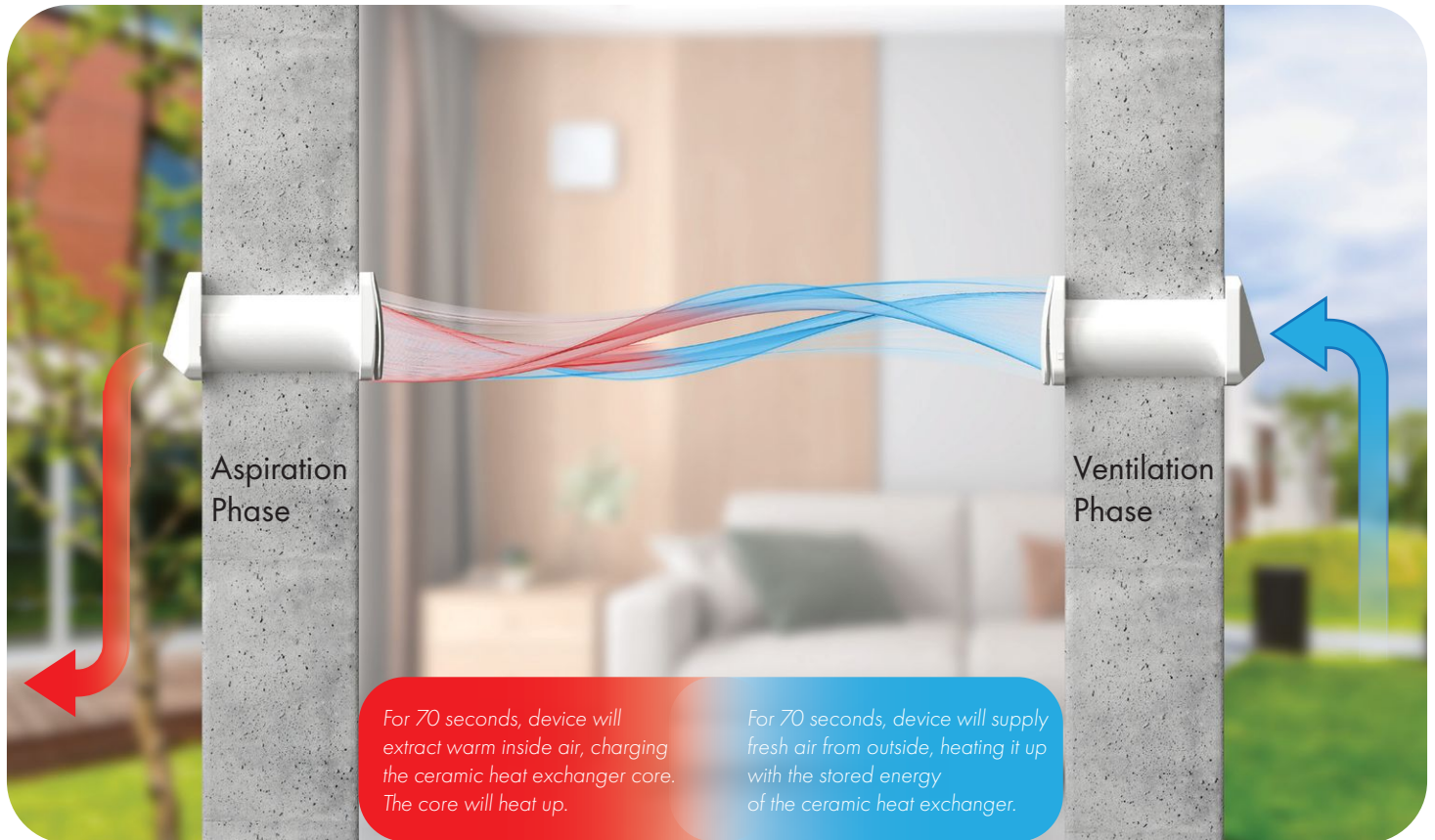
Overview

The **Technogen Zephyr** is a smart, decentralized heat recovery ventilation device designed for spaces lacking traditional ventilation infrastructure. At its core, it combines a ceramic heat recuperator with a bidirectional fan. Operating in 70-second intervals, the system alternates between extracting stale indoor air and drawing in fresh outdoor air. During the exhaust phase, it expels indoor air while recharging the ceramic core. In the intake phase, incoming air passes through the pre-heated or pre-cooled core, adjusting its temperature according to seasonal needs. With heat recovery efficiency of up to 90%, the **Technogen Zephyr** delivers optimal energy savings. It also supports wireless communication across multiple units, offers seamless mobile app integration, and allows for customizable zoning and control.



ZEPHYR

Overview



WiFi-Enabled Multi-Device Ventilation Control

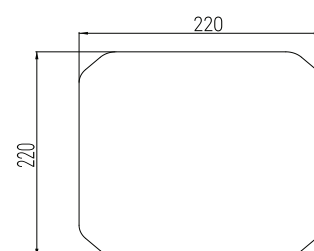
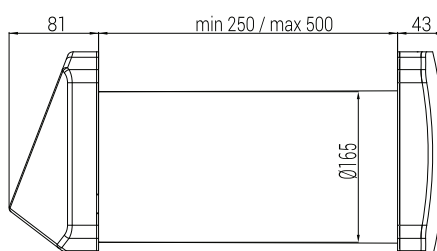
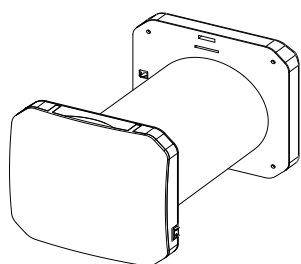
Built-in WiFi chip enables wireless pairing of multiple devices across your house. When paired, devices will run either in parallel or in reverse depending on your setup. When the primary device is in ventilation mode, all parallel devices will also follow, while the reverse devices will be in exhaust mode. This way you can have continuous ventilation and aspiration and create air drafts inside or across rooms to increase the effectiveness of ventilation. You can set different settings and speeds for different rooms and create various ventilation zones.

ZEPHYR

Technical Specifications

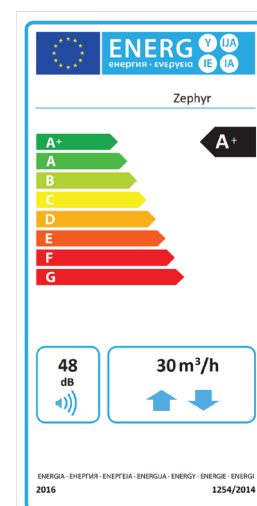
Technical Specifications

Electrical Connection	110/230V 50/60Hz			
Fan Speed	Night Mode	I	II	III
Air Flow (m³/h)	15	30	45	60
Elec. Power (W)	0.9	1.1	2.8	5.9
Sound Power	21.3	25.7	39.8	47.9
Sound Pressure @1m (dBA)	10.3	14.7	28.8	36.9
Sound Pressure @3m (dBA)	0.8	5.1	19.2	27.3
Thermal Efficiency	up to 90%			
Fan Type	2-way EC Controlled 12VDC Axial Fan			
Sensor Type	Temperature and Humidity			
Filter	2x G3 (optional M5)			
Protection Class	IPX4			
Operating Temp.	-25 / +40°C			



IR Remote Control

- Night mode for complete silent operation
- 3 different ventilation modes;
- Intake and Exhaust mode for continuous ventilation or air extraction, and cycle mode for default operation with heat recovery
- Total of 4 fan speeds including Night Mode
- 3 humidity monitoring levels. When a set humidity is reached, the device will enter exhaust mode to dispense excess humidity.



Multi-Unit Local Wireless Synchronization

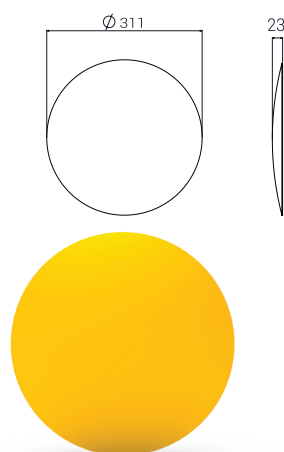
Wirelessly connect and control multiple **Technogen Zephyr** units through local pairing using the onboard wireless chip. This feature facilitates seamless communication between devices throughout your home. By pairing individual units to a master device, you can establish ventilation zones, ensuring synchronized operation. Plus, manage all connected devices conveniently with a single IR remote. This local connection between devices operates independently of the internet, ensuring reliable functionality without the need for internet access.

ZEPHYR

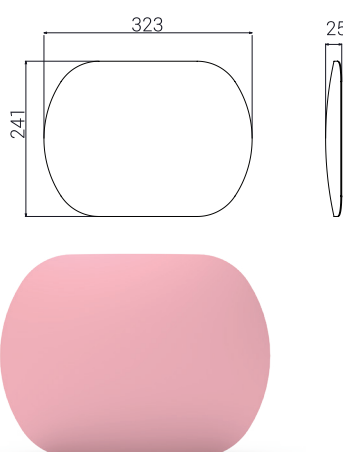
Accessories

Decorative Front Panel Cover

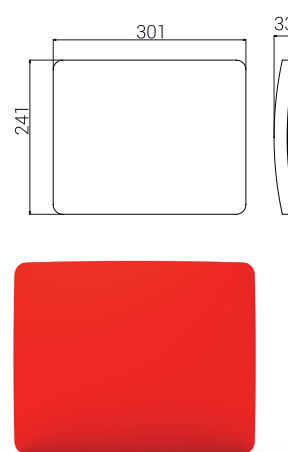
Zephyr/A/AFP/A



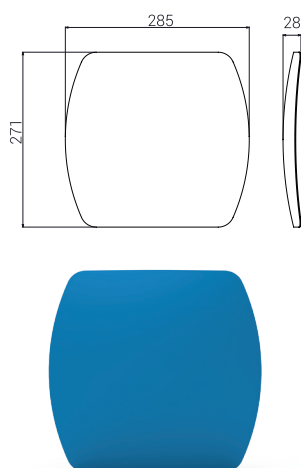
Zephyr/A/AFP/B



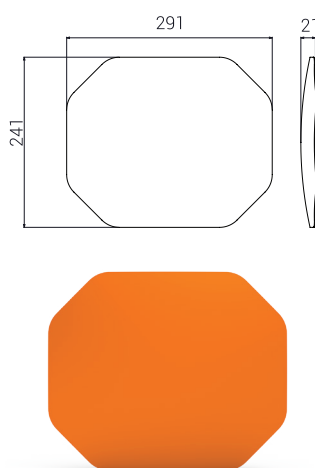
Zephyr/A/AFP/C



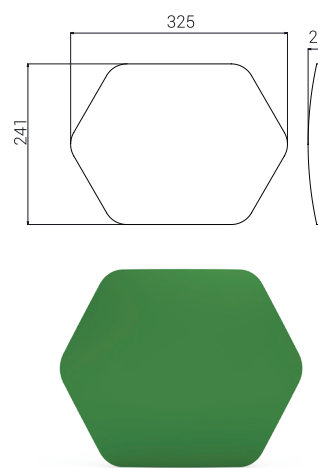
Zephyr/A/AFP/D



Zephyr/A/AFP/E



Zephyr/A/AFP/F



Color Palette

Decorative Aluminum
Front Panel
Cover Codes

Zephyr/A/AFP/A

Zephyr/A/AFP/B

Zephyr/A/AFP/C

Zephyr/A/AFP/D

Zephyr/A/AFP/E

Zephyr/A/AFP/F

Decorative Aluminum
Front Panel Cover Codes
With Custom Color

Zephyr/A/AFPCC/A

Zephyr/A/AFPCC/B

Zephyr/A/AFPCC/C

Zephyr/A/AFPCC/D

Zephyr/A/AFPCC/E

Zephyr/A/AFPCC/F

Standard Color Palette



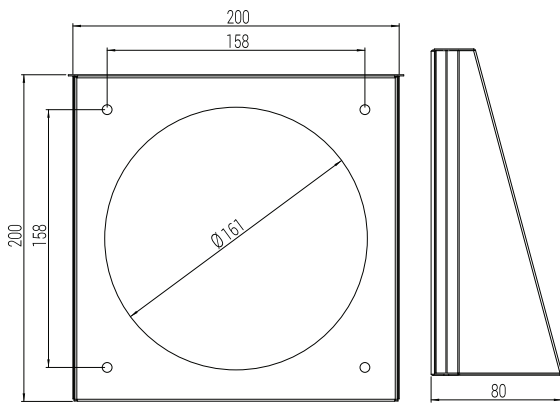
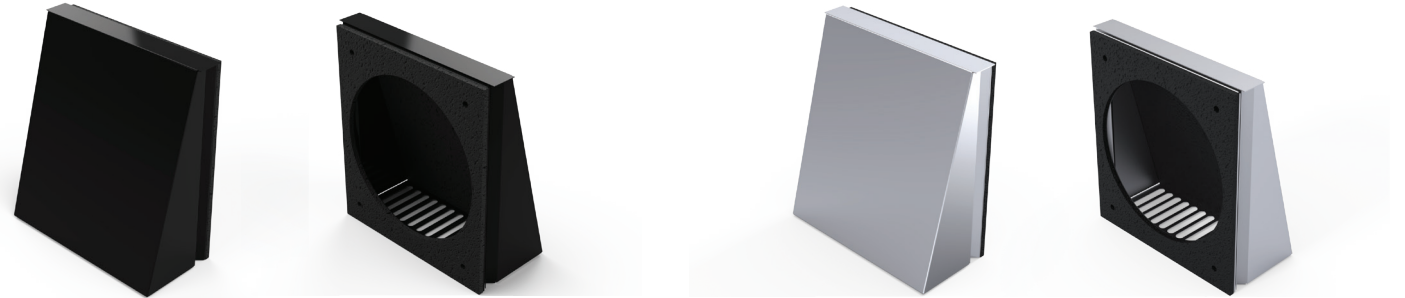
ZEPHYR

Accessories

Decorative Metal Exterior Hood

- Zephyr/A/PSL

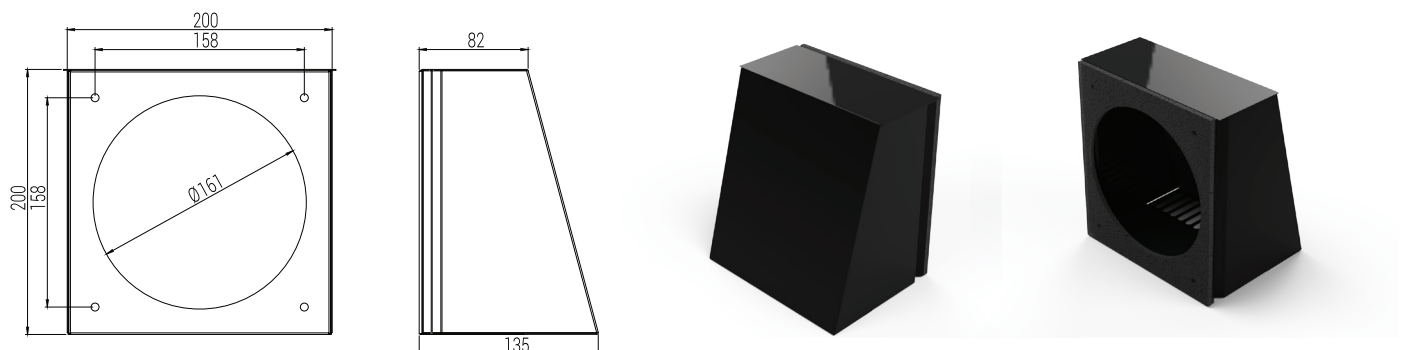
- Zephyr/A/SSL



Thin-Wall Metal Exterior Hood

The design extends the minimum wall thickness requirement of the Zephyr units to 150mm by accommodating a wider exterior hood. This allows the capsule to extend into the hood, providing greater flexibility in installations with limited wall thickness.

- Zephyr/A/SNWL



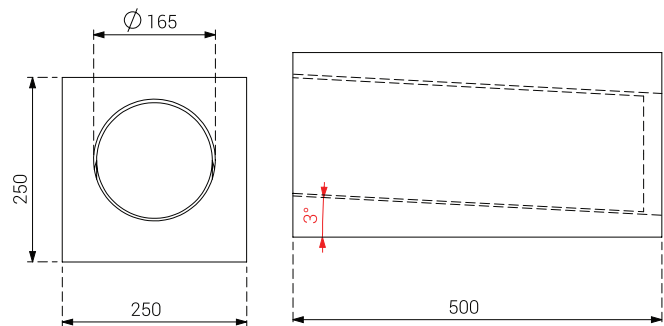
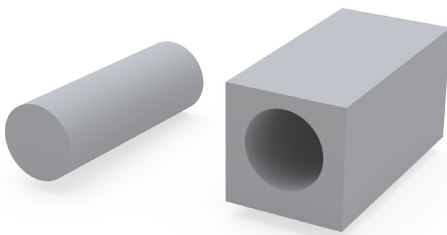
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Accessories

Pre Construction EPS Block

These blocks are specifically designed for use in wall construction, offering effortless integration and unparalleled convenience. The precisely cut hole in each block features a slight slope, eliminating the need for additional slope adjustments during construction.

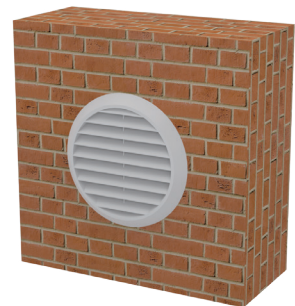
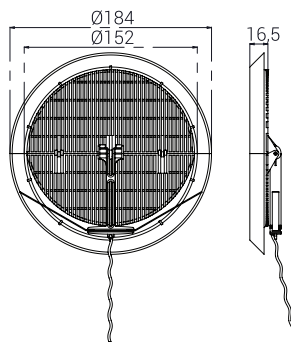
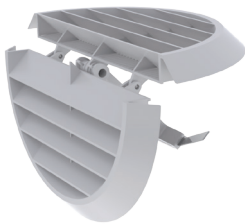
- Zephyr/A/CEB



Foldable Exterior Louvre

The installation of the exterior hood can be done from inside the house due to its foldable design, which allows the louvre to fit through the 160mm tubing. This feature is especially beneficial for high-rise buildings, where accessing the exterior wall may be restricted or hazardous.

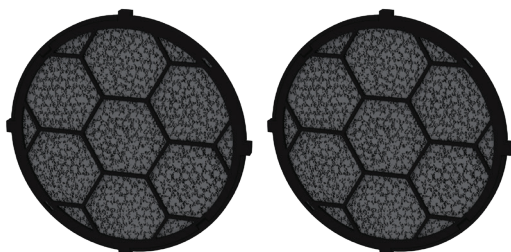
- Zephyr/A/FEL



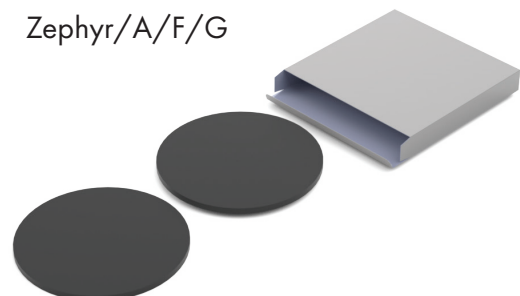
G3 Filter

The unit provides filter options with or without casings. For optimal airflow and noise levels, it is important to replace the filters when notified of maintenance alerts.

- Zephyr/A/FC/G



- Zephyr/A/F/G



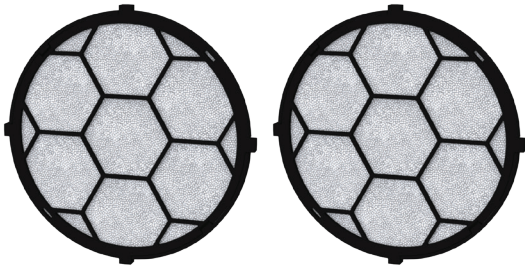
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Accessories

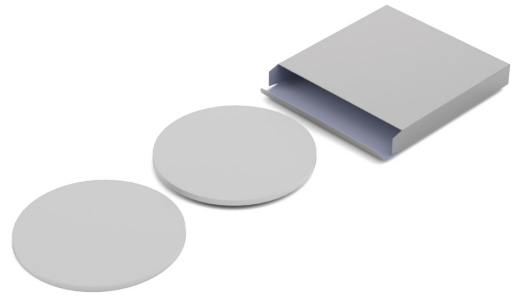
M5 Filter

In areas with high air pollution and pollen levels, you might prefer the M5 filter for better filtration. Initial tests were performed with the G3 filter, so using the M5 filter could affect airflow and noise levels.

- Zephyr/A/FC/M

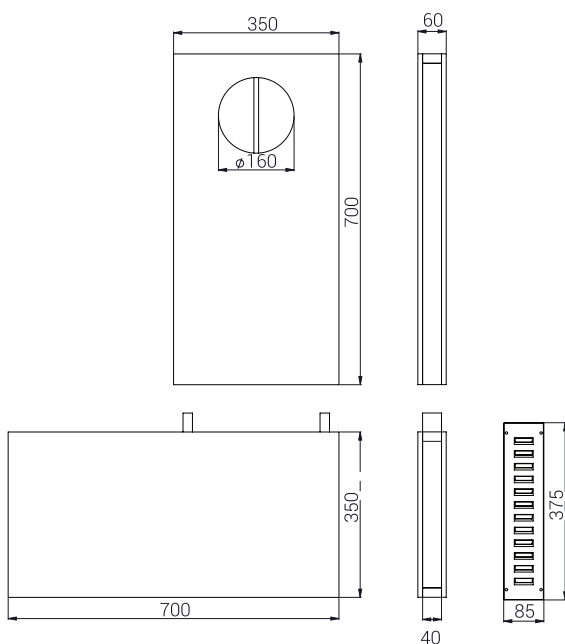


- Zephyr/A/F/M



Pre-Construction Window Facade

The pre-construction window facade extension improves your building's appearance with a seamless 90-degree turn into the wall. This innovative solution replaces the plastic outer hood of the unit, allowing for the placement of a slim louvre near a window side wall. With its installable structure, the air outlet direction can be customized to suit your home.



smart solutions for HVAC

Contact Us

info@technogen-hvac.com

Barbaros Mah. Begonya Sk.
Nidakule Batı Ataşehir No:1/2
Ataşehir, İSTANBUL, TURKEY

technogen®