

HIMPTEL
Fresh Air Together

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※ Product standards and performance may be subject
to change without prior notice.

HIMPTEL

ZEROC PRIME



The world's first 10 layer fan
Zeroc Prime

FZD-C90N

HIMPSEL

ZEROC PRIME



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FZD-C90N

The Domestic and Global Architecture Trend! Zero Energy Houses

Overseas	Domestic
1991 Official establishment after the first 'Passive House Standard' in Darmstadt, Germany	2005 Daelim Industrial Co., attempts 'Passive House'
From 2009~ Passive House Standard imposed on all new buildings in Frankfurt, Germany	2006 Daelim establishes low-energy buildings called 'Eco K Houses' (borrowing and 'Koreanizing' German BASF techniques)
From 2020~ Zero-energy imposed to all buildings by the European Union (EU)	2018 'Easy Houses' are located in Nowon-gu, Seoul. First Apartment Housing Complex (121 Households)

Passive House

Active House

Solar Energy, Wind Power
Geothermal Heat
Recovery Ventilation
Energy (re)production

Passive House

High efficiency (building insulation) 3 layer glass
Airtight Construction
Minimal energy loss

24Hour Ventilation Required

The use of mechanical ventilation increases due to the reduction in natural ventilation at the end of the period.

Implementation of Low Power Electronic Products

It is necessary to implement power products with low energy consumption.

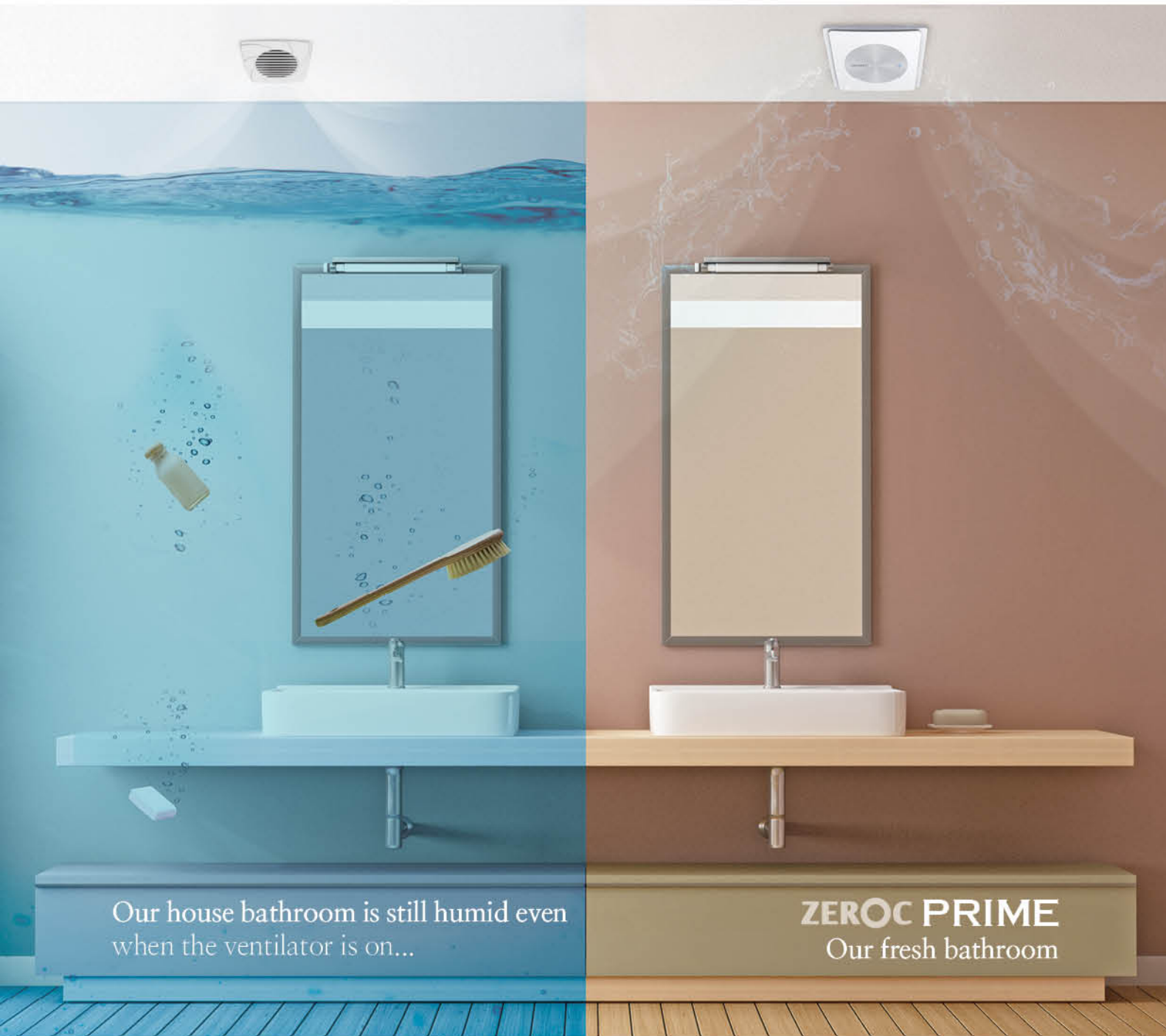
Delicate air volume control, low noise, low power

Bathroom Ventilator optimized for Zero House

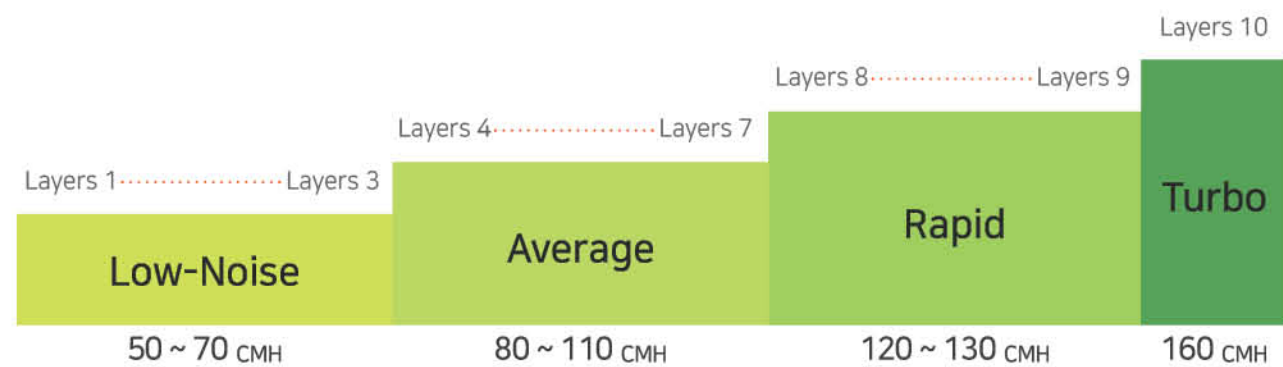
83% reduction
in power consumption

compared to our other products that use AC motors





From low-noise ventilation for a quiet bathroom space to rapid ventilation that quickly removes moisture and odors, Zero Lock Prime is the world's first 10-layer ventilator that provides solutions tailored to the needs of consumers.



A new paradigm for bathroom ventilators

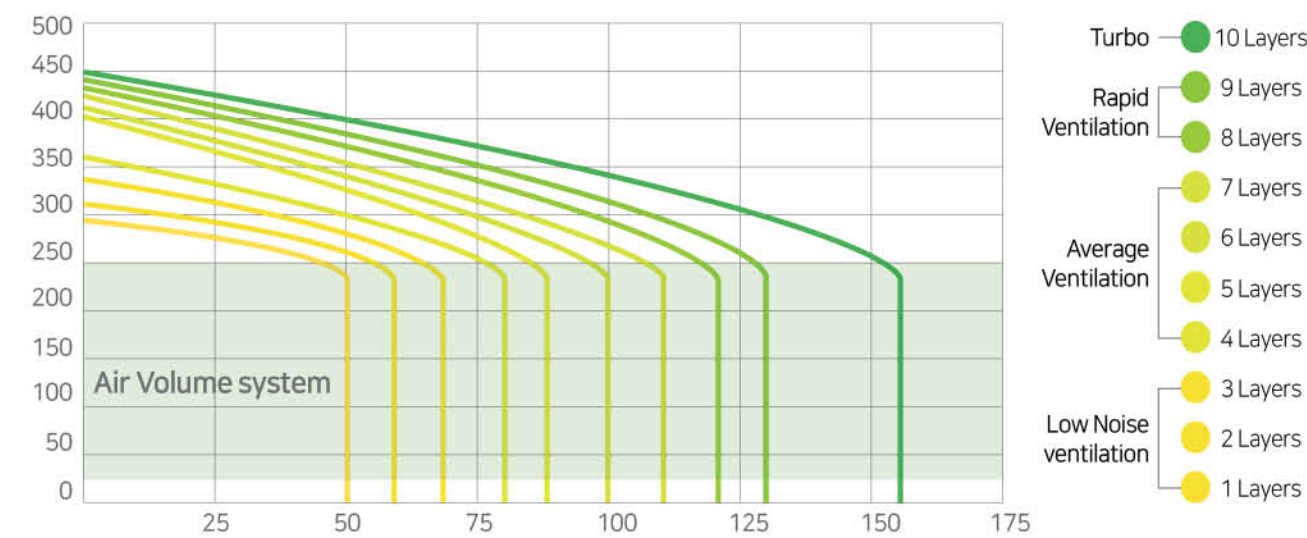
Zeroc Paradigm

A fresh day starts with fresh air when using the bathroom
Zeroc Prime will be responsible for freshly starting your day!

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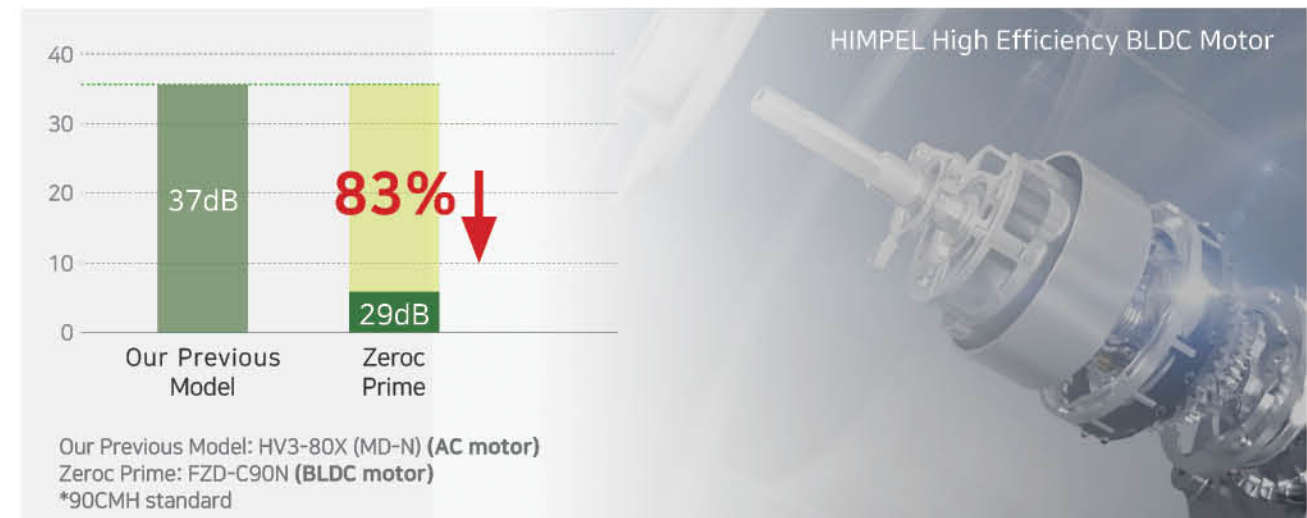
The world's first 10-layer airflow ventilator

This is a new ventilator technique that allows air volume control adapting to the specific bathroom environment from air volumes of minimum 50 to maximum 160



Energy Saving up to 83%

Satisfaction in both eco-friendliness and price by the highly effective BLDC motor which only consumes 6W of power



22% Noise Reduction

A 29dB (90CMH standard), low-noise fan, is established with a precise and optimized flow structure through Computer Flow Dynamics (CFD)



Efficient Air Flow with Computational Fluid Dynamics (CFD)
Low-Noise Bell Mouse Structure (patent application)
Guaranteed High Quality Product with HIMPL's original BLDC Motor Design and Production

Our Previous Model: HV3-80X (MD-N) (AC motor)
Zeroc Prime: FZD-C90N (BLDC motor)
*90CMH standard



Easy Control with Wireless Remote Control

From low-noise ventilation to quick and fresh ventilation for odor and humidity using wireless remote controls!
Easy control of the bathroom environment according to the customer's specific occasions and needs



Model	FZD-C90N									
	1 Layers	2 Layers	3 Layers	4 Layers	5 Layers	6 Layers	7 Layers	8 Layers	9 Layers	10 Layers
Air Volume (CMH)	50	60	70	80	90	100	110	120	130	140
Energy Usage (W)	6 (90 CMH standard)									
Noise (dB)	1 Layers					10 Layers				
	24					47				
Product Size (mm)	276(W) X 276(D) X 150(H)									
Perforation Size (mm)	□240									