

# ZEPHYR

SUMMER 2011

NEW PRODUCTS  
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INTRODUCING

# NEXT GENERATION EUROPA

WITH

**DCBL**  
SUPPRESSION SYSTEM™

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FEATURING:

**77% LESS NOISE**

**30% MORE CFM**

**77% MORE ENERGY EFFICIENCY**

**25,000 HOUR LED LIGHT BULBS**



# NEXT GENERATION EUROPA

How do you improve on the classics?

When Zephyr introduced Europa to the US market in 2001, it proved to be the first of its kind in terms of design and value.

Through the years this has remained our core strength but the time has come to evolve the designs that Zephyr has made iconic. And offer a new paradigm in range hood performance.

## MORE POWER. MORE EFFICIENT. LESS NOISE.

With DCBL Suppression System™ we remove unwanted decibels from your kitchen environment, increase your range hood's performance with true working speed benefits and help you do your part for the environment by reducing your range hood's energy consumption by up to 77%. DCBL™ uses a permanent magnet that allows electricity to be conducted without

## DCBL™ EXCEEDS ENERGY STAR™ REQUIREMENTS BY 14 CFM/WATT

the use of brushes or metal contacts that cause heat and friction – the main perpetrators of parts failure, noise and wasted energy.

This permanent magnet design also allows us to increase the motor's torque at lower RPMs so that your range hood can move up to 250 CFM on speed level one and operate at 0.8 sones (working speed) to meet your everyday cooking needs. Should you need more power, all range hood's with DCBL Suppression™ technology are capable of moving 715 CFM on maximum speed.

Your range hood's CFM levels are determined by the wattage applied to the motor. All Next Generation Europa hoods with DCBL Suppression System™ use a closed loop circuit in the on-board computer that allows us to precisely control the wattage applied at each speed level. This allows us to keep the range hood performance fully optimized and helps limit the effect of increased static pressure resulting from out-of-scope duct runs.



## DCBL SUPPRESSION SYSTEM™

DCBL Suppression System™ is the industry's first range hood motor powered by direct current (DC) energy. An evolutionary step from the traditional AC powered range hood, all Next Generation Europa range hoods with DCBL Suppression™ provide unparalleled performance and features.

Features like, Bloom™ HD LED light bulbs, the industry's first dimmable LED bulbs and an on-board computer that actively optimizes your range hood's performance.

This technology package has been pioneered by Zephyr engineers, certified by UL testing authorities and reinforces Zephyr's leadership in the range hood market. This powerful combination of technology delivers the MOST forcefully silent range hoods that are also the most energy efficient.

For the first time ever a range hood combines:

- **Direct Current energy technology**
- **HD LED light bulbs with warm light emission and 25,000 hour life**
- **Integrated PC board that enables:**
  - *AC to DC energy conversion*
  - *Range hood operation*
  - *DC motor optimization*
  - *LED light source integration*
  - *Range hood diagnostics*

## BLOOM™ HD LED LIGHT BULBS

With a 68-year lifetime, Bloom™ HD LED are an industry breakthrough. Bloom™ HD LED light bulbs are untouchable in performance, light emission and value.

Designed in partnership with commercial camera lens designers, Bloom™ HD LED bulbs amplify a 3-watt diode into 20 watt halogen-like cooking light that evenly distributes light on the cooking surface below. Bloom™ HD LED light bulbs are the only range hood LED light bulbs with near-halogen light warmth.



Bloom™ HD LED light bulbs are integrated into the on-board computer where AC energy is converted into the DC energy LED light bulbs need to operate and are cool to the touch. Bloom's™ 1" heat sink dissipates heat away from the LED giving the diode higher fidelity performance over-time and keeping heat away from chef's space.

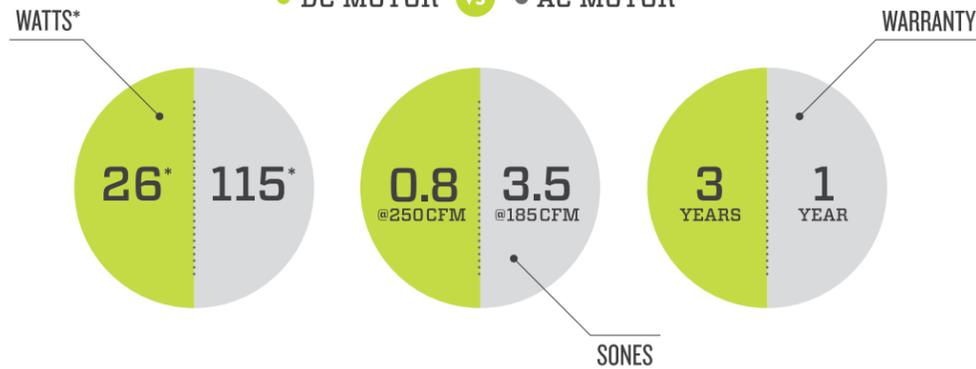
COVER: Napoli Island, ABOVE: Modena Island

RIGHT: Milano Island

# DCBL<sup>™</sup> SUPPRESSION SYSTEM<sup>™</sup>

## DCBL<sup>™</sup> MOTOR

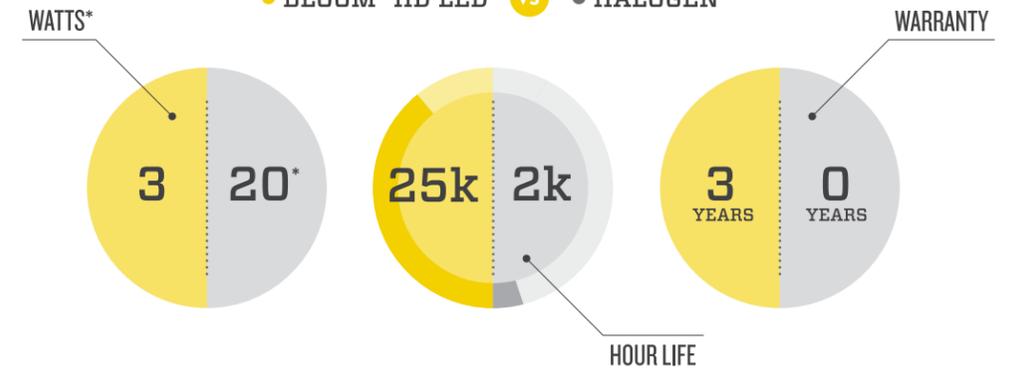
● DC MOTOR vs ● AC MOTOR



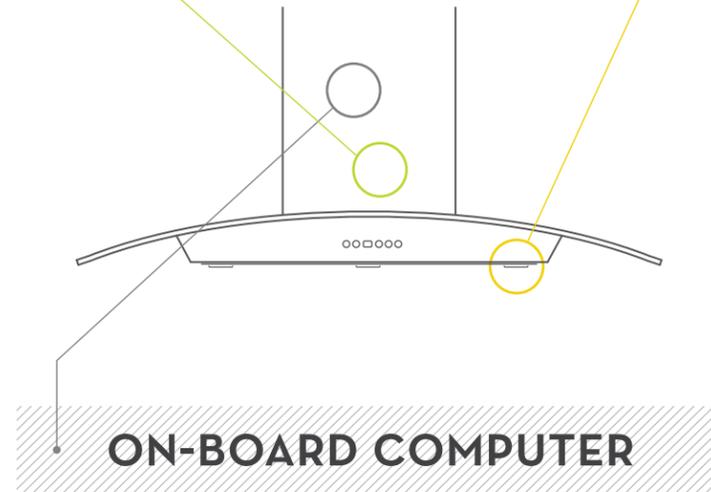
DC MOTOR	AC MOTOR
▶ 26 watts*	115 watts*
▶ 0.8 Sone @ 250 CFM	3.5 Sones @ 185 CFM
8" round outlet	6" round outlet
Computerized motor controller	No controller
Sophisticated PC Board	Standard PC Board
▶ 3-year warranty	1-year warranty

## BLOOM<sup>™</sup> HD LED

● BLOOM<sup>™</sup> HD LED vs ● HALOGEN



BLOOM <sup>™</sup> HD LED	HALOGEN
▶ 3 watts	20-50 watts*
3200K color temperature	3000K color temperature
▶ 25,000 hour life	2,000 hour life
Cool to the touch	Dangerously hot
Uniform light distribution	Hot-spots
▶ 3-year warranty	No warranty



### ON-BOARD COMPUTER

- ▶ MAIN PC BOARD INTEGRATES AND CONTROLS MINIATURIZED:
  - User interface
  - LED controller and DC motor controller
  - Accepts AC current from wall and sends energy to LED and DC controllers
- ▶ LED CONTROLLER CONVERTS AC ENERGY TO DC ENERGY
  - Powers Bloom<sup>™</sup> HD LED lightbulbs
- ▶ DC CONTROLLER CONVERTS AC TO DC
  - Actively optimizes DC motor performance
  - Converts single phase to three-phase energy conduction
  - Generates higher torque at low RPM

\* Compared to a leading chimney range hood

## WORKING SPEED

DCBL Suppression System<sup>™</sup> increases your range hood's torque levels at speed one, or *working speed*, to match the most typical everyday cooking styles. Focusing on *working speed* allows us to deliver the needed ventilation for cooks that use only 1 or 2 burners to prepare a meal. On speed 1, DCBL Suppression System<sup>™</sup> generates enough CFM to accommodate one 10,000 and one 15,000 BTU burners operating at maximum capacity. So you get all the CFM you need but none of the noise.

Maximum speed settings should only be used if you cook with all your range's burners turned on to max BTU. Of course, should your cooking require more power, DCBL Suppression System<sup>™</sup> range hood's have 6 speeds with a maximum of 715 CFM still emitting 11% less noise.

### DCBL SUPPRESSION SYSTEM<sup>™</sup> VS. TYPICAL CHIMNEY HOOD

	WORKING SPEED	MAX SPEED
CFM	+30%	+38%
NOISE	-77%	-11%
ENERGY CONSUMPTION	-77%	-43%

## BENEFITS

### DCBL SUPPRESSION SYSTEM<sup>™</sup>

- Exceeds Energy Star<sup>™</sup> requirements:
  - Energy Star<sup>™</sup> - 2.8 CFM / watt
  - Zephyr - 17 CFM / watt
- Up to 80% more energy efficient
- Up to 77% quieter on working speeds
- Higher torque to increase performance efficiency
- Less wear-and-tear on motor
- Longer warranty

### BLOOM<sup>™</sup> HD LED

- 3-watt LED uses 15% of the energy a 20 watt halogen uses
- 3,200 degrees Kelvin = halogen-like warm light color
- Cool to the touch. Never gets hot
- Patented lens evenly distributes light
- 25,000-hour life expectancy
- 3-year warranty
- Dimmable LED - a first in range hood industry

2011

**NEXT  
GENERATION  
EUROPA  
RANGE  
HOOD  
MODELS**

- NAPOLI ISLAND
- MILANO ISLAND
- MODENA ISLAND
- MILANO WALL
- MODENA WALL
- VENEZIA WALL
- VERONA WALL

Visit [zephyronline.com](http://zephyronline.com) starting in June to learn more.



ISLAND

NAPOLI ISLAND



MILANO ISLAND GLASS



ISLAND

MODENA ISLAND



WALL

MILANO WALL STAINLESS



WALL

MODENA WALL



VENEZIA WALL



WALL

VERONA WALL



BLUE



WHITE



ORANGE



**ZEPHYR**

**ESSENTIALS  
COLLECTION**

Next Generation Europa with DCBL Suppression System™ is part of the Essentials Collection in the Zephyr portfolio. Look to Zephyr for the most engineered design and quality throughout all kitchen ventilation categories, including our Europa Classics. The Classics offer high-design options at the most competitive prices to meet new kitchen construction or remodel project budgets.

Whether your project is an "Aging-in-Place" kitchen or a short-term solution, look to us for all your kitchen ventilation needs.

*ABOVE: Roma Island*



## **ZEPHYR**

**VISIT THE ZEPHYR SHOWROOM**  
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AN AUTHORIZED DEALER**  
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