

Dyson Unveils His Bladeless Fan (w/ Videos)

October 14 2009, by John Messina



Using 'Air Multiplier' technology, air is pushed forward, dragging air from behind and from the sides. Without rotor blades, a smooth airflow is created.

(PhysOrg.com) -- James Dyson, inventor of the bag-less vacuum cleaners has taken his invention one step further with the unveiling of the bladeless fan. Using 'Air Multiplier' technology the bladeless fan pushes 119 gallons of air per second.

Unlike conventional fans that rely on [fan](#) blades to chop the air and push it forward, the bladeless fan technology uses an airflow principle modeled after an airplane wing.

Air is pulled into the machine's cylindrical base using a small brushless motor. The motor's impeller pushes air into a hollow ring and is then forced out a slit that runs all around the ring. The [air](#) is then accelerated into the circular chamber which is called a loop [amplifier](#). The video below illustrates the airflow technology.

In an interview with Dyson, he said: "I've always been disappointed by fans. Their spinning blades chop up the [airflow](#), causing annoying buffeting. They're hard to clean and children always want to poke their fingers through the grille. So we've developed a new type of fan that doesn't use blades."



More information: For detailed information on the design and how the bladeless fan works, visit the [Dyson website](#).

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Citation: Dyson Unveils His Bladeless Fan (w/ Videos) (2009, October 14) retrieved 20 September 2024 from <https://phys.org/news/2009-10-dyson-unveils-bladeless-fan-videos.html>

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