



# AIR SUPERIORITY NEWS



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## Where in the Food & Beverage Industry Can Vortron Increase Productivity?

The Food and Beverage Industry has provided us with a wide range of beverages, each targeted to an individual taste. We can choose carbonated drinks, non-carbonated such as iced tea, water in many flavors and milk-based drinks. Each drink can be purchased in various containers, from the standard aluminum can to an 8 oz (240 ml) PET bottle to a 1.5 L glass bottle. Each is dressed in its own unique suit or label.



Labels may either be a wrap-around paper, or a slip-on shrink poly sleeve. Prior to labeling the bottle must be dry; even condensate on a chilled bottle will cause problems. Air blow-off systems are employed to dry the can or bottle prior to its labeling.

Typically the blow-off system will consist of an array of air knives positioned around the bottle or can conveyor on the top, bottom and both sides.

One application is as part of the rinser-filler-corker system that can have a capacity to clean, fill, and cork bottles at up to a speed of 600 bottles per minute (BPM) for 750ml bottles or 450 BPM for 1.5L bottles. These lines can operate at 325 BPM (750ml) and 225 BPM (1.5L) with a single labeler. With a second labeler, the line can achieve a maximum design speed of 600 BPM.



A second area is as part of the air conveying system. Bottles move along the conveyor directly via an air conveying system. Air is directed at the bottle sidewall to propel the bottles forward.



Vortron **AirPower**<sup>™</sup> blower-air knife systems, using low-pressure, high-mass-flow air, can efficiently provide a high-velocity air curtain to remove surface moisture from any type of bottle even at conveyor speeds of 600 BPM. The **AirPower**<sup>™</sup> Z-40 Blower can easily supply 1,000 SCFM at 100" WC, and it is achieved at 75% efficiency.

## New Tax Breaks for Equipment Purchases

If you are considering buying new equipment, the tax cuts Congress passed in May make doing so much more attractive.

Businesses get two increases in income tax benefits for equipment purchases:

Sec. 179 allows you to expense asset purchases in the year you acquire them rather than having to depreciate the assets over five or seven years.

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The amount that you can deduct under Sec. 179 was previously limited to \$25,000 per year. The new tax law increases the limit to \$100,000 per year beginning with 2003. This dramatic increase in the amount that businesses can write off each year means equipment acquisitions can be used to lower your tax bill.



In addition, Bonus Depreciation, which first became available September 11, 2001, has been increased from 30% to 50%. This allows you to deduct 50% of the cost of new equipment in the year that you acquire it. The increased percentage is available for equipment acquired after May 5, 2003. This benefit uses a similar concept in that you can deduct 50% of the cost when you purchase assets rather than having to depreciate them over five or seven years.

When you use Sec. 179 and Bonus Depreciation together you can expense 100% of asset

purchases up to \$100,000 and 50% of amounts over \$100,000.

For example, if you purchased \$500,000 worth of new equipment after May 5 and before December 31, 2003 these deductions would be computed as follows:

Sec. 179 deduction	\$100,000
Bonus Depreciation	\$200,000*
Total Deduction in 2003	\$300,000

Note: \* Bonus Depreciation (50% of the remaining \$400,000)

## Vortech to Circumnavigate the Globe

Later this September, an attempt to circle the globe faster than any single-engine aircraft before will be made with a Vortech supercharged engine. This first attempt in the new century of aviation to circumnavigate the globe will be a grueling quest of man and machine, a 22,858-mile journey into aviation history! **Watch for News.**



Visit our **WEB** site, [www.vortron.com](http://www.vortron.com), for more extensive information on **AirPower™** high-efficiency blowers and air blow-off systems.