

By Tetra Pak

New energy saving technology for separators



Tetra Pak® Separators with Encapt™ technology slash energy consumption by 40% due to low friction and low-pressure technology.

Tetra Pak has reduced the energy use of its separators by 40%, by incorporating a breakthrough pressure management technology, Encapt™, into the systems' design. The Encapt technology lowers the atmospheric pressure around the spinning bowl using a low-pressure pump, and the system is supervised by sensors that keep air friction minimal. Less friction means less energy required. Encapt is combined with a unique Air-Tight design inside the bowl, where the whole system is hermetically sealed to ensure no air enters. With the inlet at the bottom, and the outlet at the top it saves the centre for outlet flow, and so requires less energy. These two techno-

logies together make the machines the most efficient on the market.

- We want to help customers meet the challenge of achieving superior product quality with lower operational costs, and a lower environmental footprint, says Ulrika Rehn, Tetra Pak Product Manager. Most commonly used to separate milk or whey – the Tetra Pak Separators with Encapt technology, when paired with AirTight technology, offer incomparable energy savings.

- Designed with built-in operational flexibility for different speeds and flow rates, customers can use the same line for different products, and achieve higher energy efficiencies than any other

model available. In fact, they can save around 4 Million kWh during the machines lifespan, she says.

Speaking at the time of the announcement, Holger Lüers, General Manager at Müritz Milch GmbH, within DMK group, Germany explains:

- This is a sophisticated combination that really works. The AirTight technology ensures energy efficient separation and a flexible flow rate to the line during a production run. Plus, the additional energy savings brought by the low-pressure technology is a real bonus.

More information: www.tetrapak.com

About Tetra Pak

Tetra Pak is the world's leading food processing and packaging solutions company. Working closely with their customers and suppliers, Tetra Pak provides safe, innovative and environmentally sound products that each day meet the needs of hundreds of millions of people in more than 160 countries. With more than 24,000 employees around the world, Tetra Pak believes in responsible industry leadership and a sustainable approach to business. The motto, "PROTECTS WHAT'S GOOD™," reflects the vision to make food safe and available, everywhere.

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ENCAPT™ TECHNOLOGY INSPIRED BY SPACE!



The further away from Earth, the thinner the air. Gravity pulls down molecules in the atmosphere, making the air gradually denser closer to the ground. The more molecules, the higher the air pressure.

In space, there are almost no molecules. If you threw a ball, it would just keep on going.



Aircraft cruise at 35,000 feet because air is thinner at high altitudes, making travel more fuel efficient.



Water is even more dense. Try aqua-dancing, and you'll get it.



We utilize this phenomenon in our Tetra Pak® Separators. To make the bowl spin more easily, we have lowered the pressure around it.

