



RUSSELL FINEX

Global Sieving & Filtration specialists

Russell Eco Separator® improves productivity and product quality for Eco Treasures

Eco Treasures use the Russell Eco Separator® at their pilot plant to separate seeds and dust from frozen juice product

Now, more than ever, sustainability and waste reduction have become concerns for many manufacturing companies. Eco Treasures recognize that natural resources should be used in a sustainable and economical way. In 2006 this Belgium based company set up a pilot installation especially designed to utilize processing activities aimed at reusing or recycling product back into the production process. One of Eco Treasures' main production activities is the ecological extraction of essential oils from residual vegetable feedstock and fine fruit seeds. The seed oils, such as raspberry and pomegranate oils, manufactured by Eco Treasures are oils with the most organic forms of rich, unsaturated fatty acids and vitamins and are mainly supplied to the food and cosmetics industries.



Figure 1. Eco Treasures product overview

Since the introduction of the Eco Treasures pilot plant, the company has been constantly looking for ways to enhance its manufacturing process. Eco Treasures had been previously using a very simple sieving process, however this affected the consistency of product quality. In order to meet high quality standards, and ensure the best production efficiency, the company was motivated to turn to Russell Finex, the leading supplier of high quality separation equipment, for innovative processing solutions. Eco Treasures found Russell Finex online and the company was especially interested that Russell Finex offered onsite testing.



Figure 2. A Russell Eco Separator® installed at Eco Treasures, Belgium to separate seeds and dust from frozen juice product.

- Suitable for wet or dry applications
- Installed with up to four screen surfaces, five predetermined fractions are provided in a one operation
- Easily adjustable to provide absolute control of material movement on the screen surface

Russell Finex was able to help Eco Treasures continue to uphold their mission of high quality, sustainability and economically sound business principles. To do this, Russell Finex gave them the opportunity to test the **Russell Eco Separator®**, a multi-deck grading sieve, within their pilot plant.

Production Manager at Eco Treasures, Stefan Ongena, said: "Because Russell Finex allowed us to run tests with the Russell Eco Separator both at our site and at the Russell Finex test facility, we were positive about moving forward, and had confidence that Russell Finex could provide the service we needed."

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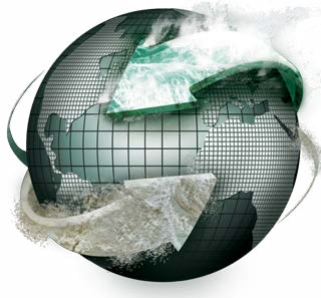
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Figure 3. The Russell Eco Separator® separating dust and seeds at Eco Treasures

The extraction of seed oil from residual frozen pulp begins by separating the seeds from the juice pulp. In order to separate the seeds, the frozen pulp is first melted and then dried. Once separated the seeds then go into a press in order to extract their oil.

The issue the company was facing was that there was too much dust from the dried juice pulp attached to the seeds after the drying process, which resulted in a lower quality of extracted oil. Therefore the company decided to separate the product into two fractions (fine dust and seeds) before the seeds were passed to the pressing process. With the Russell Eco Separator® Eco Treasures were able to separate

the two fractions enabling them to send the seeds through the press free of dust. Not only did the Russell Finex machine eliminate the dust from the seeds, it also saved them time by reducing the amount of labor that previously went into manually spreading the seeds onto a mesh frame to be placed in front of a ventilator to remove the dust. These two factors contributed to the reduction in manufacturing costs for Eco Treasures, an increase in productivity, as well as a better product for their customers.

“As a company with a pilot production it was very useful to benefit from Russell Finex’s experience in sieving. They were willing to think ahead with us and offered us the solution we needed,” said Ongena.

Russell Finex make it a goal to ensure customers are satisfied from start to finish. Eco Treasures took full advantage of Russell Finex’s mission: Customer Trust, a Russell Must. For over 80 years Russell Finex have manufactured and supplied **filters, sieves and separators** to improve product quality, enhance productivity, safeguard worker health, and ensure liquids and powders are contamination-free. Throughout the world, Russell Finex serve a variety of industries with applications including **food, pharmaceuticals, chemicals, adhesives, plastisols, paint, coatings, metal powders and ceramics**. Eco Treasures worked with Russell Finex to enhance their overall product quality and processing efficiency serves as one more testament to the solutions Russell Finex can provide manufacturers.

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