



The Russell Liquid Solid Separator™ effectively cleans wash water at Ecuries de la Picaute

A horse rehabilitation centre reduces downtime with improvements to the filtration of their wash water system by removing solids from the wash water using a high performance centrifugal separator

Ecuries de la Picaute, a Belgian equestrian centre specializing in rehabilitation and hydrotherapy, helps horses recover from surgery, injuries or accidents using a range of techniques including balneotherapy and physical training. Ms Marie-Anne Doret, General Manager of Ecuries de la Picaute, approached Russell Finex to find a solution to filter the water used during the hydrotherapy sessions.

The hydrotherapy physical training session starts with the horse being guided onto a treadmill within a contained unit. The unit is then filled with water and once a predetermined level has been reached, the trainer starts the treadmill. The buoyancy of the water allows physical training without straining the horse's tendons or ligaments. The session, which usually lasts an hour, can be intensified by increasing the water level. Ms Doret explains: "The problem we were facing was that the horse would excrete in the water during training and so the water needed to be cleaned to prevent unhygienic conditions for employees and horses."

Initially the centre utilized a static sand filter to remove the animal waste from the water, however the filter could not handle the required throughput rate. The filter often had to be cleaned manually which was an unpleasant and unhygienic task and resulted in downtime in between or sometimes during training sessions. Therefore, the company sought a separation solution which could efficiently remove solids from water continuously and eliminate downtime, and turned to Russell Finex, global sieving and filtration specialists with over 80 years of experience in the filtration industry. Russell Finex assessed the requirements and offered the Russell Liquid Solid Separator™ for testing at the customer's site.

The Russell Liquid Solid Separator™ is a **high performance centrifugal separator** with a small footprint, which continuously removes soft or fibrous materials from liquids and slurries.



Figure 1. The Russell Liquid Solid Separator™ installed at horse rehabilitation centre to effectively clean wash water

- Continuously removes oversize solids from wash water
- Ensures cleaner water for reuse
- Reduces downtime for maintenance and cleaning

The high capacity Russell Liquid Solid Separator™, which can achieve flow rates of up to 100,000 l/hr, was more than able to meet the required throughput rate of 1,000 l/h.

Not only did the **Russell Liquid Solid Separator™** successfully remove the manure from the water on a continuous basis, but also resulted in a much cleaner water for reuse. Therefore after these successful trials Ecuries de la Picaute purchased the machine. Ms Doret comments: "Because we were able to test the machine at our site, we were certain that the Liquid Solid Separator was the right machine for us."



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The installation of this centrifugal separator has eliminated the need for any manual cleaning during therapy sessions, and has reduced overall downtime for maintenance and cleaning. "The Liquid Solid Separator has really exceeded our expectations, not only proving a cleaner more hygienic environment, but also providing considerable labor and cost savings." Ms Doret concludes.

For 80 years Russell Finex has been manufacturing and supplying **industrial sieves** and **filters** to ensure that powders and liquids are free from contamination, improving product quality, enhancing productivity and safeguarding the health of workers. Throughout the world, Russell Finex serves a **variety of industries** with applications including paint, coatings, chemicals, adhesives, plastisols, food, pharmaceuticals, metal powders and ceramics.

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